

Table S2. InDel markers (24166) differentiating low pod number-containing parental accession (ILWC 46) and homozygous bulk (LPNB) of a mapping population (Pusa 1103 x ILWC 46) from reference *kabuli* accession (CDC Frontier)

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (0C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
C11060010_P2_682	C11060010	682	AATTATT/AATTATTATT	TCCGATATGCACCAATG AAA	AGGCGTCGGTTTTTCT TTCT	60.2	413	INTERGENIC	--	--	--
C11108026_P2_1126	C11108026	1126	TTTAATTAATTAATTAATTAATTAATTA TT/TTTAATTAATTAATTAATTAATTAATT	TGGTCGCAAAAGCATAT TCA	ATGGTGACCGTGCAAT TTTT	60.2	529	INTERGENIC	--	--	--
C11108026_P2_1365	C11108026	1365	CAAAAAAAAA/CAAAAAAAAA	CACGGTCACCATGTGC TATT	GGGTGAAATTGGTTTA CAACG	59.2	544	INTERGENIC	--	--	--
C11119398_P2_787	C11119398	787	AATATA/AATA	AGCTCCAATTTGATGG CAC	GTGGCGAGTGTTCCAT TTCT	60.1	281	INTERGENIC	--	--	--
C11153802_P2_2086	C11153802	2086	CTT/CT	TGGAATTCCTAGCATAA CCCAC	TGCGGTGTTTATTGAT TTCAG	60.0	512	INTERGENIC	--	--	--
C11154862_P2_1914	C11154862	1914	ATTTT/ATTTT	GTCCAATCCCCAACAA CAC	TGAAATTATGGAAAGG AAGCTCA	60.1	521	INTERGENIC	--	--	--
C11154862_P2_4136	C11154862	4136	TAAAAAA/TAAAAAA	GGGTTTCGGCCTCTTC TATC	CCTTCAATTCAACATG GCA	59.5	856	INTERGENIC	--	--	--
C11155258_P2_5339	C11155258	5339	TTAAT/TT	CCCACATTTTCATGATT CCC	GCTTCAATGAAATCGC AATACA	60.1	456	INTERGENIC	--	--	--
C11155542_P2_2583	C11155542	2583	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	TTGAACGCAGTTGATT TGG	TTCAAATCATCGGGT TTTT	60.3	512	INTERGENIC	--	--	--
C11159426_P2_3322	C11159426	3322	A/ATATAGAC	TCTCCCAAGAAGTGTG CAG	TTTGACTCGATGCACC TTCA	60.4	319	DRR	Ca_27806	--	--
C11159426_P2_3626	C11159426	3626	AAACGA/AA	CACATTGAAGGTGCAT CGAG	TTGTGACGCTAACGAC TTGG	59.9	462	DRR	Ca_27806	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
C11168930_P2_7035	C11168930	7035	ATTTTT/ATTTTTT	CGGCAACGTCCAAGT AGTT	CCATTTGAGACTGCGT GATG	60.3	131	INTERGENIC	--	--	--
C11169592_P2_2162	C11169592	2162	TAAAAAAAA/TAAAAAAAAA	TTATTTCAACCGTTTCT CTTTCTT	TGTGCACATCAACATA TGACA	58.5	911	INTERGENIC	--	--	--
C11169592_P2_3333	C11169592	3333	CTTTT/CTTTT	TCTTTTCCGATGTTT CACG	GGTGCCATCAACACA TACA	60.2	125	INTERGENIC	--	--	--
C11174756_P2_4346	C11174756	4346	ATATTATTATTATTATTATTATT ATTATTATTATTATTATTATTA/ATAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTA	ATCTCGAACAATTATGC CGT	TGCCATAAATTTTACCG ACG	58.6	619	INTERGENIC	--	--	--
C11177592_P2_10360	C11177592	10360	TCCC/TCC	GCTCCCAAGAAGAAA CACG	TTTCGATGGATACTTGA GCAGA	59.8	742	DRR	Ca_27747	--	--
C11178328_P2_12753	C11178328	12753	CAT/CATTAT	CCATCTTTTAGGCCTCC TCC	GAAGGCAACCATTCTA GGCA	60.2	925	DRR	Ca_28266	T	M-type
C11180336_P2_12584	C11180336	12584	CAAAAAAAAA/CAAAAAAAAA	TCCAAGTTTTCTCCAG TGTT	GCATTTTGTAGTGATT GCG	59.3	498	INTERGENIC	--	--	--
Ca1_P2_10034627	Ca1	10034627	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT	GAGGCGAAGGATTGA ATGA	ATTGAGATGTGTGGGT GGGT	60.1	302	DRR	Ca_02785	T	--
Ca1_P2_10040103	Ca1	10040103	ATTT/ATT	ATGCATCGAAACCAAC ACA	TGCAATCCGGGCTTAC TATC	60.1	378	INTRON	Ca_02784	LK	--
Ca1_P2_10057638	Ca1	10057638	CATATATATATATATAT/CATATATAT ATATATAT	TGATGGGAGCAATGAA TGAA	TCAAATCCGACTTGA GGGA	60.6	542	INTERGENIC	--	--	--
Ca1_P2_10064752	Ca1	10064752	TTATATATATATATATA/TTATATATAT ATATATATATATATA	ATGCAAAATCTCCCTC CTT	TCATTGATTTTAATTG GACGA	57.2	750	INTERGENIC	--	--	--
Ca1_P2_10072230	Ca1	10072230	TGG/TG	TGGAATGGTTTTGATG GGT	TGATGCGTACCATTTTG CAT	60.0	154	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P2_10168587	Ca1	10168587	ATATTATTATTATTATTATTATTA/AT ATTATTATTATTATTATTATTATTA	AGACAGGCATGGAGAA ATGG	TTTAAGGCGTGGATGT CGTT	60.5	632	INTERGENIC	--	--	--
Ca1_P2_1027317	Ca1	1027317	C/CG	AAGAGGTCGGGGTTGA ACTT	TCAACTTGAATTGGGT GCAA	60.1	745	INTERGENIC	--	--	--
Ca1_P2_10323177	Ca1	10323177	G/GAGCT	TTGAGTGCTTCACCAATT TGC	GTTGTATTGGCTCTCC TCGC	59.8	463	INTRON	Ca_02746	B	C2H2
Ca1_P2_10414677	Ca1	10414677	CAGGAATNNNNNNNNNAGGAAT/CAG GAAT	TTCTAAACGAGGCTTTT CAGTTG	GCATGTTGCTGATGAT GGTC	60.1	489	DRR	Ca_02735	R	ERF
Ca1_P2_10418186	Ca1	10418186	TT/TTAT	CAACAAAAGCAAGCAAC GAA	CTTGTTGGGAAGCATGG AGTT	60.1	560	CDS (FRAME SHIFT)	Ca_02735	R	ERF
Ca1_P2_10433899	Ca1	10433899	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA AAAAAA	TTTGGCACCTTGATTTC ACA	TGTTTGTTAAGGCTCA TTTGG	60.0	610	INTERGENIC	--	--	--
Ca1_P2_10458891	Ca1	10458891	TACACACA/TACACA	CCAATTTTCAGTAGGCC CAAA	AGCATTGAAACCAAC CAGC	60.1	583	DRR	Ca_02729	--	HSF
Ca1_P2_10471260	Ca1	10471260	TTATATATATATATATATA/TTATATAT ATATATATATATATA	TTCTCCATTGCACTCA CAC	TCAAATTTGGAGGCTG GAAC	60.1	312	INTERGENIC	--	--	--
Ca1_P2_10513925	Ca1	10513925	CTTATTTATTTATTTATTTATTTAT TTATTTATTTATT/CTTATTTATTTATTTA TTTATTTATTTATTTATT	CCAGATTTCCTTTCCC CTC	GGGTAGGCCACAGACT GTCTTA	60.5	634	INTERGENIC	--	--	--
Ca1_P2_10733080	Ca1	10733080	T/TG	CCGGTAACGAGTTGTG TTCA	AAAATGGCAGCTTTTTC TGG	60.0	428	DRR	Ca_02689	--	DBB
Ca1_P2_10756482	Ca1	10756482	CTTTTTTTTT/CTTTTTTTTTT	GTTGCAATCTCTCAGG CGAC	CACTACCATGGTGAGC TGGA	59.7	608	INTERGENIC	--	--	--
Ca1_P2_1084300	Ca1	1084300	A/AC	TCCCAAATGACTTAATC CGC	ATCGTCGGAGAAATTT GACG	60.1	608	INTRON	Ca_00134	DO	LBD

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_10960960	Ca1	10960960	TAAAAAAAAA/TAAAAAAAAA	ACTTTGGAAGTTTGCT CCC	TAAATCGAACGGGATA CACG	58.5	602	INTERGENIC	--	--	--
Ca1_P2_1097354	Ca1	1097354	TACAACAACAA/TACAACAACAACAA	GGGACAACTTGGAGT TGGA	TGCATGCCAATTAAATA AATCA	58.1	691	INTERGENIC	--	--	--
Ca1_P2_1100487	Ca1	1100487	ATTTTT/ATTTTTT	TTGCATTGAAATAGCA ACTATTGA	TAGACTGAACCAATGG CACG	59.7	531	INTERGENIC	--	--	--
Ca1_P2_1101385	Ca1	1101385	TAAAAA/TAAAAAA	TTCTTTTAATCGCGACT GGG	GAGCTTAGGTGAGGAT GGCA	60.4	343	INTERGENIC	--	--	--
Ca1_P2_1102835	Ca1	1102835	A/AAT	TGGCATCTGATTGATGA AAGA	GGGACCCACATGGACT TCTA	59.8	858	INTERGENIC	--	--	--
Ca1_P2_1104099	Ca1	1104099	CAAA/CAA	AAATAAGGGGACCAATT CAATG	TGGAGGGAGGTGCAAA ATAC	59.9	224	INTERGENIC	--	--	--
Ca1_P2_1104030	Ca1	1104030	G/GGTACAAAGA	CACCGACAATAATCCTT CCA	GCCATTTCATTGAGTT CCT	60.1	441	INTERGENIC	--	--	--
Ca1_P2_11102279	Ca1	11102279	ATTTTTTTTT/ATTTTTTTTT	TGCCGCGAATTGATC TTT	TCGGTGTTGGTGTCGT TATC	59.4	255	DRR	Ca_02649	C	--
Ca1_P2_1113940	Ca1	1113940	ATCAAAATCTCAAAATC/ATCAAAATCTC AAAATCTCAAAATC	GGACCCAAAAATCCAAT TCC	TTGTCACTTGCGCCAT AGAG	60.0	288	INTERGENIC	--	--	--
Ca1_P2_11145101	Ca1	11145101	TTATATATATATATATATATAT/TTA TATATATATATATATATAT	TTTGAGTCCAAATTGAA GGCT	CGGATCAAAATTCGCA CAAT	60.8	837	INTERGENIC	--	--	--
Ca1_P2_11148737	Ca1	11148737	CAATAATAAAT/CAATAATAAT	CGTGAATTGGTAATGT GGCA	GGCTAACTTGAAGTCG TGGC	59.9	693	INTERGENIC	--	--	--
Ca1_P2_11161526	Ca1	11161526	ATATATATTT/AT	TGGAACAATCCGATACC GTT	AAAAACATGATTCCAAC GCC	59.8	676	DRR	Ca_02643	R	--

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								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_11162292	Ca1	11162292	CAAA/CA	GCGCTTGAATCATG TTTT	TGTAGCGGAAGCATCA ACAG	60.0	556	INTERGENIC	--	--	--
Ca1_P2_11170203	Ca1	11170203	CATA/CATATATA	ATGAGGGTATCCGAGC CATA	CCACAAGAGTTTGGC ATTG	59.2	378	DRR	Ca_02641	--	--
Ca1_P2_11170701	Ca1	11170701	GGAGTTGTGTGTCGTGAGTTGTGTG/G GAGTTGTGTGTCGTGAGTTGTGTGTCG TGAGTTGTGTG	GCAATGGCAAACCTCT GTG	ATCTCGAAAAGGGTT CCAT	59.8	901	DRR	Ca_02642	U	--
Ca1_P2_11190216	Ca1	11190216	ATTACT/ATTACTTACT	TATGGCTAGCTGGTGA AGCA	TAGAATCCCACGCAGC TCTT	60.0	304	INTRON	Ca_02639	--	--
Ca1_P2_11241105	Ca1	11241105	ATTTTTTT/ATTTTTTTT	TTCAGTCAAATATCTG CATGGTT	AGCCTCGTGGGATTAG GATT	59.9	348	INTERGENIC	--	--	--
Ca1_P2_11324975	Ca1	11324975	GAAGA/GAAGAAAGA	CTGCATCGGGGATACT TCAC	TTTTGACCGAGCCAGA TACC	60.1	317	INTRON	Ca_02622	--	--
Ca1_P2_11400460	Ca1	11400460	GGAGGATTGTAGAAATTCTG/GGAGGA TTGTAGAAATTCTGAGGATTGTAGAAAT TCTG	CAAATGGCAAATCACGT GTC	CTGCCTACTTGACAG TCCA	60.0	361	CDS (large-effect mutations)	Ca_02612	F	--
Ca1_P2_11413234	Ca1	11413234	ATTTT/ATTT	ACGCTTGGACTGAGCT TCAT	CGGACAACTACCAAA CCTT	60.0	517	INTRON	Ca_02610	Z	Dof
Ca1_P2_11456505	Ca1	11456505	TTATATATATATATATATA/TTATATAT ATATATATATATATA	AACCGAGTGCCTTTAA CAA	TTGTTTGCATTTTGGG ACA	59.9	273	INTERGENIC	--	--	--
Ca1_P2_11521081	Ca1	11521081	GTTATTATT/GTTATTATTATT	GGTCATGCTGATAGT GGATG	ACCACAACCTTGAAT GGAA	60.2	908	INTERGENIC	--	--	--
Ca1_P2_11558313	Ca1	11558313	TTATATATATATATATATATATATATA TATATATATATATAT/TTATATATATATAT ATATATATATATATATATATATATATA TATAT	TGGGTCACTAAAACCTT GCC	GCTTCAACATATTGGA ATGTCA	59.0	679	INTERGENIC	--	--	--
Ca1_P2_1160199	Ca1	1160199	GATATATATATATATATATATATA/GA TATATATATATATATATATATATATA	ATATTCGGGGAATCAC CTCC	AGCCGACCTTCCCACT TAAT	60.0	578	DRR	Ca_00145	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_11728121	Ca1	11728121	TAAA/TAA	ACGTTGACCAATTCAGC TCC	CAAAATCGCCAGCACT GTAA	59.9	502	INTERGENIC	--	--	--
Ca1_P2_11735185	Ca1	11735185	GTATTATTATTATTATT/GTATTATTATTA TTATTATTATTATT	TGACAGTCAGAGTGC ATCC	TCTCTGGCAACCGTTC TTCT	60.0	441	INTERGENIC	--	--	--
Ca1_P2_11786498	Ca1	11786498	TTATATATATATATATATATATATATATA TATAT/TTATATATATATATATATATATAT ATATAT	TCACCTTTTACTCTTCA AAATGGA	CTACAACCGGAGGAGT TGGA	60.1	784	INTERGENIC	--	--	--
Ca1_P2_11811525	Ca1	11811525	AG/AGG	TCTTTGGCCTTTCATCC ATC	AACCTGCGCATTTTGC TAAC	60.3	810	INTERGENIC	--	--	--
Ca1_P2_11868314	Ca1	11868314	TTATATATATATATATAT/TTATATATATA TATATATATATAT	GCAAGTAGCAACAAC CTTCC	TTGCATATATTGTCACA CCGC	59.5	346	INTERGENIC	--	--	--
Ca1_P2_11912515	Ca1	11912515	CATATATATATATATAT/CATATATATAT ATATATAT	TGAGTCCGATTGATTGA TGC	TGGCACAGTGAGTATC TCATACAA	59.7	665	INTERGENIC	--	--	--
Ca1_P2_11977187	Ca1	11977187	CAAAAA/CAAAAAA	GCAATTGGATGACATTG CATA	ACAGACAGGGCACAGG ATCT	59.7	479	INTERGENIC	--	--	--
Ca1_P2_12036536	Ca1	12036536	A/AGG	GAGGAAGACGAAACGA ACCA	CCTTGAGATCGAAAGA CCCA	60.2	672	INTERGENIC	--	--	--
Ca1_P2_12044432	Ca1	12044432	GCTTCTTCTTCTTCTTCTTCTTCTTCTT CT/GCTTCTTCTTCTTCTTCTTCTTCTTCT TTCTTCT	TCTCAACAACTCTTCG CTTTG	TGATCGGAGAGAGAGG AGGA	60.0	185	INTERGENIC	--	--	--
Ca1_P2_1209194	Ca1	1209194	GAAAA/GAAAAA	TATGGAGTCGCCACCA AAAT	TCTCCTTGAGTTTGTAG ACACG	59.5	548	INTERGENIC	--	--	--
Ca1_P2_12092762	Ca1	12092762	AT/ATATGT	CGGCAATTTTGAGTTGA TTTG	CATCGGATGGTCCAGA AAGT	59.9	825	INTERGENIC	--	--	--
Ca1_P2_12110120	Ca1	12110120	A/ATT	TGAATTGGGCCAAGAC ATTT	TGGCAGACCACAGATA ACCA	60.1	943	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_12112319	Ca1	12112319	C/CTTGG	GCGAAATTATTTGACGG AGTTT	CATTTCAGAAGTGAAG AGCAACA	59.5	874	INTERGENIC	--	--	--
Ca1_P2_12135832	Ca1	12135832	A/ATATATAT	GGTGTGGAGTCATGC CTTT	GTGCGACGGAAACAAC GTA	60.7	234	INTERGENIC	--	--	--
Ca1_P2_12180244	Ca1	12180244	GTTTTTTTTTTT/GTTTTTTTTTTTTT	CGCTTAAAGGCAACGC TATC	TGCAACAAGACGGAAA AACA	60.3	257	INTERGENIC	--	--	--
Ca1_P2_12195477	Ca1	12195477	CTTTTTTTTT/CTTTTTTTTTT	TTGTTTGTTTCCTGTG GCA	AGAAAAATGCGATGGT TCTTT	57.9	250	INTERGENIC	--	--	--
Ca1_P2_12225439	Ca1	12225439	CTAGTTT/CTAGTTTGTAGTTT	GCATAGGTGGCAGACG AAGT	GCTTTCGGTTTCCTGTT TCA	60.2	721	INTERGENIC	--	--	--
Ca1_P2_1228619	Ca1	1228619	TTATATATATATATATATATATATA/TT ATATATATATATATATATATA	TTGTTAGTTTGACGAGG GCA	CCTTCTCATTGGCAAC CCTA	60.1	499	INTERGENIC	--	--	--
Ca1_P2_12328187	Ca1	12328187	TTAAATTTAACAATAAAT/TTAAAT	ATTTGTCCAATGAGCCA TCC	AGACCCAACATAGTGC CGTC	60.0	544	INTERGENIC	--	--	--
Ca1_P2_1237664	Ca1	1237664	GTC/G	CATCATCAATGAACGAG CCA	CGTAACCTGTGTTTGC ATGAGA	60.2	626	INTERGENIC	--	--	--
Ca1_P2_12392278	Ca1	12392278	TC/T	ATCTTAGGACTGGCCC TGGT	TGAACCATGACTGCAA CACA	59.7	820	INTERGENIC	--	--	--
Ca1_P2_12420239	Ca1	12420239	CAAAAAAAAA/CAAAAAAAAAA	AAATGCAATCTTGTTT CCA	TTTTGGTAATGTGCCA TGATA	60.1	595	INTERGENIC	--	--	--
Ca1_P2_12425587	Ca1	12425587	TAAAAAAAAA/TAAAAAAAAA	TGTCTCCCGAAACTTTT GTTTT	AGCAATCATTGAACTG GGC	60.1	419	INTERGENIC	--	--	--
Ca1_P2_12538333	Ca1	12538333	CTTTTT/CTTTTT	ATTTTCGTCGCTCTTC CAA	TTTCCGACGTCGATG ATAA	59.1	195	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_12550318	Ca1	12550318	ATTTTTTTTTT/ATTTTTTTTTT	CGTCTTTATTTATGCG AGCG	TAATGCCGATGGTGC AAAA	59.9	252	INTERGENIC	--	--	--
Ca1_P2_12552821	Ca1	12552821	TAATAAAATAAAATAAA/TAATA AATAAAATAAAATAAA	GCGTTTTGTATCGTCC GTT	TTTTTGAAAAAGCGCT GTAA	59.9	408	INTERGENIC	--	--	--
Ca1_P2_12571969	Ca1	12571969	ATT/AT	TTTTCCTTGCTATTT GATG	ATTCATACTCACTTGC GGG	60.0	426	INTERGENIC	--	--	--
Ca1_P2_12580190	Ca1	12580190	TAAAAAAAA/AAAAAAAAA	TAATCACTCACCATCG CCA	TTCATGTTTGGTGTGG CACT	60.0	476	INTERGENIC	--	--	--
Ca1_P2_12620911	Ca1	12620911	T/TGCAATA	TTTATTTGGGTCATCCA TTTGTT	CAATTTTAAAGCGAG GAGGTG	60.1	615	INTERGENIC	--	--	--
Ca1_P2_12633621	Ca1	12633621	TT/TTAGATATCGAATGAT	TCTAAATTTGTCATATT GTCCCACTT	GACAAATACGGATAAT GTCACCTTT	59.6	695	INTERGENIC	--	--	--
Ca1_P2_12644844	Ca1	12644844	CGG/CG	ACCCAACCGCAAAACA ATA	TGCCAGGATGTAACCC TTTC	59.9	440	INTERGENIC	--	--	--
Ca1_P2_12662540	Ca1	12662540	ATTTTTTTTTT/ATTTTTTTTTT	AAGTGACACATGATGAC CGTG	CCCGGTTTGAATAG GACT	60.2	560	INTERGENIC	--	--	--
Ca1_P2_12699932	Ca1	12699932	ACCCC/ACCC	ACCGAATGTCGAATCA AGG	TTGGGAACCTGGGAGA CTTG	60.1	768	INTERGENIC	--	--	--
Ca1_P2_12721902	Ca1	12721902	CATATATATATATATATATAT/CAT ATATATATATATATATAT	CGCATGATTCAAACAA TGG	CCAACTCAGGTTTCAGC AAGA	59.0	746	DRR	Ca_02480	--	--
Ca1_P2_12727627	Ca1	12727627	TTATATATATATATATATAT/TTATA TATATATATATATAT	CCTTACGGACAACCA GCAT	GCAAAAGAATTGCA CAAAGA	59.4	419	INTERGENIC	--	--	--
Ca1_P2_12772623	Ca1	12772623	GTTTTTTTT/GGTTTTTTTTT	GGAAGATGAGTGGGA TCAA	CAGATGAGAGAAGTTG AGGGG	58.9	497	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_12772687	Ca1	12772687	AT/A	GGAAGATGAGTGGGA TCAA	TGGTACCCCTGCAAGA ATATG	59.8	888	INTERGENIC	--	--	--
Ca1_P2_12777387	Ca1	12777387	AC/ACC	CCGTCTGTGTAACAAG ATTGC	TTTGGTCGGAACAG GAAG	60.1	736	INTERGENIC	--	--	--
Ca1_P2_1280971	Ca1	1280971	TTATATATATATATATATATA/TTATAT ATATATATATATATATATA	GGGGAAAACCTTGCTC CTAC	AGGGGGAGCAAAACAA AAAT	59.8	379	INTRON	Ca_00158	--	--
Ca1_P2_12867966	Ca1	12867966	CATATATATATATATATATATATAT ATAT/CATATATATATATATATATAT ATATATATAT	AATCCTTTTCTCAATG CATCA	AAACCCGATTCTCAATT CCA	59.4	475	INTERGENIC	--	--	--
Ca1_P2_12870844	Ca1	12870844	C/CATTTAT	TCACTGCCTTTGTCAGT TCG	CCCGCTTTTATTGATC CTTC	59.9	549	INTERGENIC	--	--	--
Ca1_P2_12905675	Ca1	12905675	CAAA/CAA	TTGGGAGGATGCCAAA TTAC	TTGAATAACCTCCAG CACA	60.1	941	INTERGENIC	--	--	--
Ca1_P2_12947634	Ca1	12947634	ATAAATTTAAA/ATAAATTTAAAATTTAAA TTTAAA	AACTTTGTGGTCGTTTT GGC	TGCTTATTGTGGCTGC TTTG	60.0	647	INTERGENIC	--	--	--
Ca1_P2_12956191	Ca1	12956191	ATCTC/A	TGCTAACCCACACAAT TTCT	GTCAGATGTTTGGGC ATTT	59.8	469	INTERGENIC	--	--	--
Ca1_P2_12956423	Ca1	12956423	CAAAAAA/CAAAAA	TTGTCGGATACCTGCTC AGT	TTGCAAAATCGACAAA CAA	60.1	455	INTERGENIC	--	--	--
Ca1_P2_12988934	Ca1	12988934	C/CGGG	ATCGGCATCCTTCCTC TTT	GACGCTAAGCCCTTT CTCT	60.0	354	INTERGENIC	--	--	--
Ca1_P2_13005887	Ca1	13005887	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TCGTCATCTAGCACCA GCAC	TCCCTCGTAAAGACCC ATCT	58.6	347	INTERGENIC	--	--	--
Ca1_P2_13007054	Ca1	13007054	ACT/A	ATGCAAAAAGGCTCCT GCTA	ACTAACCATCTGGACC CGTG	59.8	634	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P2_13674169	Ca1	13674169	AG/A	AACTGGTTCGATTCTGTTT	TGCATTCGGAAGTTTACA	60.2	757	INTERGENIC	--	--	--
Ca1_P2_13675228	Ca1	13675228	CTATAATTTT/CTATAATTTTATAATTT	ATGGTTCGCGACTGATTTT	CCCAAAATTAAGCGTCGGTA	60.0	529	DRR	Ca_14132	--	--
Ca1_P2_13676036	Ca1	13676036	CTTTTTT/CTTTTTT	CCGCTACAAGGCGATAGAAG	TTCTGATGAACGGGGGATTA	60.3	248	DRR	Ca_14132	--	--
Ca1_P2_13676261	Ca1	13676261	ACT/ACTCT	CCGCTACAAGGCGATAGAAG	GGGTGTCATCATAGTGGCT	59.8	856	DRR	Ca_14132	--	--
Ca1_P2_13680810	Ca1	13680810	ATTTTT/ATTTT	TGGTTGAACTGTGAACAGGC	CCAATTTCCCTACCCAAT	59.9	559	INTERGENIC	--	--	--
Ca1_P2_13683980	Ca1	13683980	TAAA/TAAAA	ATCGAAATGGGTGCAAGTCA	GGTTGCCTTGGTATGGAGAA	59.9	621	DRR	Ca_14134	--	MYB_related
Ca1_P2_13686356	Ca1	13686356	T/TCTC	TTGTACGGGTGGTGTCAAAA	GAGGGTGACTCTGCTGGAAC	59.8	655	INTRON	Ca_14134	--	MYB_related
Ca1_P2_13686733	Ca1	13686733	CAAAAAAAAA/CAAAAAAAAA	AGCATTTGCTACCGTGATCC	TTTACCTTGCCAAAAATGCC	59.9	698	INTRON	Ca_14134	--	MYB_related
Ca1_P2_13687868	Ca1	13687868	ATT/ATTT	CTTTTGCTGAGAGCATTTCCC	CTCCGAGCAAACTGTGAT	60.3	514	INTERGENIC	--	--	--
Ca1_P2_13687994	Ca1	13687994	TC/T	CTTTTGCTGAGAGCATTTCCC	CTCCGAGCAAACTGTGAT	60.3	514	INTERGENIC	--	--	--
Ca1_P2_13688125	Ca1	13688125	AATATATATATA/AATATATATATA	CTTTTGCTGAGAGCATTTCCC	CTCCGAGCAAACTGTGAT	60.3	514	INTERGENIC	--	--	--
Ca1_P2_13690477	Ca1	13690477	CAA/CAATCGGTTTTATAA	CCGGTTATTTAACCATACCA	TGCAAGGAACAAATGCATA	60.1	200	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_13692764	Ca1	13692764	CTTTT/CTTTT	CGCCAGTGGTTATGCT CTTA	AAGGAACCACTTGA ACCG	60.0	875	INTERGENIC	--	--	--
Ca1_P2_13694461	Ca1	13694461	GTA/GTAATA	CCACTTCGCCACGTTTT TAT	CGGTTTATCGTCAAAG CGAT	60.1	379	INTERGENIC	--	--	--
Ca1_P2_13696144	Ca1	13696144	TAAAA/TAAAA	TTTGC GTTACGAATTTG ATGA	AGAAGTTGAACACAG AATCACA	58.9	757	INTERGENIC	--	--	--
Ca1_P2_13748153	Ca1	13748153	ATTTT/ATTTT	ATTCGGGATAAGTGGGA ACCC	TGCAATGAGATAACC AGCG	59.8	650	INTERGENIC	--	--	--
Ca1_P2_13831465	Ca1	13831465	TTAATAATAATAATAATAATAAT AATAATAATAAT/TTAATAATAATAAT AATAATAATAATAATAATAATAATA TAATAAT	AGTTTGCTTGTGGGG TGTC	ACATTGAAAAATTGGTG GCG	60.7	380	INTERGENIC	--	--	--
Ca1_P2_13915344	Ca1	13915344	TTATATATATATATATATA/TTATATAT ATATATATATATATA	TGATGAATATTGAGGG GACAAA	ACGGCACACAATTGTA CGAG	59.6	586	INTERGENIC	--	--	--
Ca1_P2_13916815	Ca1	13916815	TAA/TA	TGACCCTGGCTCCATT CTC	TTTCCCGACTTGGTCC TTTA	59.5	588	INTERGENIC	--	--	--
Ca1_P2_1397435	Ca1	1397435	CA/C	TGGAAACAGCAACGTG GTAG	CAAAGGTTGGATTTT CCAC	59.3	555	INTERGENIC	--	--	--
Ca1_P2_13997509	Ca1	13997509	GGAAGAAGAAGAAGAAGAAGAAGA /GGAAGAAGAAGAAGAAGAAGAAG AAGA	TGGCCCAACAGAGAAG TACC	CGAGGTACTGGCCTTG TCTC	59.9	155	CDS (large-effect mutations)	Ca_07130	--	--
Ca1_P2_14210125	Ca1	14210125	G/GGTTATAAATTC	TCATATTGCACACTTA AAATCCAA	AATTGGATCTGGCGAT TGAG	60.0	367	INTERGENIC	--	--	--
Ca1_P2_1427442	Ca1	1427442	TTATATATATATATATATA/TTATATAT ATATATATATA	TTTGC GTAATTGTTGT GTCAA	TCCACCCTCACCTCAC TACC	60.0	554	DRR	Ca_00173	O	--
Ca1_P2_14370290	Ca1	14370290	A/C	CTCCGTTTTCTGCACAT CAA	TTTCCACCCAGAAAGC AATC	60.1	626	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_14385063	Ca1	14385063	CAA/CAAA	AATCGTCTCCGTCACAC ACA	GCGAATTGCAGACTGA AACA	60.0	662	DRR	Ca_07096	--	SAP
Ca1_P2_14649425	Ca1	14649425	CAATAATAATAATAATAATAATA ATAATAA/CAATAATAATAATAATA TAATAATAATAATAATA	ATGCATGACACATTCTC CGA	TTCTTCAACCCATAAC CCA	60.2	559	INTERGENIC	--	--	--
Ca1_P2_14669721	Ca1	14669721	ATTT/ATTTT	GGTGCTTGAAAAGGAA GCTG	ACCCAACACTGCTTGA ATCC	60.0	226	DRR	Ca_07065	E	TCP
Ca1_P2_14682464	Ca1	14682464	CTTTT/CTTT	TCCATTGTTGAGCGAAA ACA	TGGATGAAGGATCAAC CACA	59.9	659	INTERGENIC	--	--	--
Ca1_P2_1470537	Ca1	1470537	T/TC	AAGTGGCGATAGGGTT TGTG	CAAAATGTGGCATATG AGCTG	59.2	834	INTERGENIC	--	--	--
Ca1_P2_14712075	Ca1	14712075	AATATATATATATAT/AATATATATATA TAT	TTCATGATTTTGGTGGT GAAA	CAGCCACAATAACTAG CGCA	60.0	459	DRR	Ca_07059	--	--
Ca1_P2_14777698	Ca1	14777698	TAAAAAAA/TAAAAAAA	CAATGACCTTGGTCCTC CTG	TTAACTGCAGCCATGC ATCT	59.4	799	DRR	Ca_07052	R	--
Ca1_P2_14796703	Ca1	14796703	AATAA/AATAACATAA	TATTGGAAAGCTTGGCT GCT	GCAAACTTTGCATGTC TCTCA	60.4	335	INTERGENIC	--	--	--
Ca1_P2_14850393	Ca1	14850393	CTTTTTTTTT/CTTTTTTTTT	TGCAAGGAAGAACAAC ATGC	TGGTGGGTTATCATGA ATGG	59.0	827	INTERGENIC	--	--	--
Ca1_P2_14855553	Ca1	14855553	AATATATATATATATATATAT/AATATA TATATATATATATATAT	TTTCAAACCTGCACGCA CTC	TGAAATCCATGTGACA AGTG	57.0	778	INTRON	Ca_07046	I	--
Ca1_P2_14893455	Ca1	14893455	GTTTTTTTT/GTTTTTTTT	AGGGACAAGGTTGGGT TTTT	TTAAACCTTGCACGGA GGG	60.1	291	INTERGENIC	--	--	--
Ca1_P2_14906350	Ca1	14906350	TAAAAAAA/TAAAAAAA	ATCTTGGGACATTGCGT TTC	ATGCATTCTCCACCTT CAC	59.9	247	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_14995847	Ca1	14995847	ACATGCATGCA/ACATGCA	CAGCGCTTTTCCCAAT AAG	CCAAAAAGGTGGAGA TTGA	59.9	359	INTERGENIC	--	--	--
Ca1_P2_15025001	Ca1	15025001	TTATATATATATATATATATATATA TA/TTATATATATATATATATATATA TA	AAGCAATAAGATGAAAC GAGACA	AGTTGTGATGGATAG GCCC	59.6	767	INTERGENIC	--	--	--
Ca1_P2_15186134	Ca1	15186134	AATATATATATATATATAT/AATATATA TATATATATATAT	AGTGGCCACGAGTAA GATG	CCACAGCACTCTTCTG TCCA	60.0	543	INTERGENIC	--	--	--
Ca1_P2_15257144	Ca1	15257144	AT/ATATATTT	ATTTTGAATTTTGGCT CCC	TATGGGCATAGTGCA ACAA	60.0	522	INTRON	Ca_07008	OR	--
Ca1_P2_15262868	Ca1	15262868	ATTTTTTTTT/ATTTTTTTTTT	GAGAAAGAGTTTGGG TGCC	TCTCTGCAACAATCAC ACCA	60.3	148	INTERGENIC	--	--	--
Ca1_P2_15303147	Ca1	15303147	ATTTTTTTTT/ATTTTTTTTTT	TTCTTCAACTGCAACAA CGC	TTAAATGGCTCCAGGT GTCC	59.9	617	INTERGENIC	--	--	--
Ca1_P2_15326926	Ca1	15326926	CATATATATATAT/CATATATATAT	GTTAAGCATCCCAAGG TGGA	AGCCAAGAGTTTGTGG AGTTG	59.4	626	INTERGENIC	--	--	--
Ca1_P2_15341305	Ca1	15341305	TTATATATATATATATATATATATA TATAT/TTATATATATATATATATATA	AAATCAATGGACCGCCT CTT	ATCGAAGATGGTGGTT GAGG	59.9	414	INTERGENIC	--	--	--
Ca1_P2_1540452	Ca1	1540452	CTTTTTTT/CTTTTTTTTTTTTT	AGTCTAAAGCCCCGA TTGT	ATTTGGCGGCTCTGT GTAG	60.0	476	INTERGENIC	--	--	--
Ca1_P2_15406728	Ca1	15406728	GTTTTTTTT/GTTTTTTTTT	ATGCTCAAATGTGCCAA TCA	AACAAACCAATTCAATT CCGA	59.3	559	INTERGENIC	--	--	--
Ca1_P2_15570070	Ca1	15570070	AATATATATATATATATATATATA/A ATATATATATATATATATATA	TGGAATATCACCCCTC AAA	ACATTGGACGTTTCATC GACA	60.0	602	DRR	Ca_06985	S	--
Ca1_P2_15571799	Ca1	15571799	ATTTTTTT/ATTTTTT	CCCCATTTGTTTCTCC TCA	TTGTTGAACGATGCTTC TGC	60.0	282	DRR	Ca_06985	S	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_16118199	Ca1	16118199	AG/A	ATGCCATTTTGAAGACT GCC	TGGGGGCAGTTACCCT TATT	60.6	489	INTERGENIC	--	--	--
Ca1_P2_16119755	Ca1	16119755	T/TG	CTGCTCAACCATCGG TACT	TTCTAAAAGCGTCCC AAGA	59.8	547	INTERGENIC	--	--	--
Ca1_P2_16120380	Ca1	16120380	CTATA/CTA	GGACGCTTCCAGACAA AAAG	GCATTTGATCGAAACC GACT	60.1	815	INTERGENIC	--	--	--
Ca1_P2_16155793	Ca1	16155793	ATT/AT	GGCAACTCCATTGAATT CGT	AATCCCCACCCTAAAT GACC	59.9	333	INTERGENIC	--	--	--
Ca1_P2_16156026	Ca1	16156026	A/ATTAAG	GGCAACTCCATTGAATT CGT	TGTCAAAACGGATATTC CACC	59.7	435	INTERGENIC	--	--	--
Ca1_P2_16156936	Ca1	16156936	CAA/CAAAA	AATGCCAATAGCACCTT TGC	GGTTTCGATTGATTTT CGG	59.4	820	INTERGENIC	--	--	--
Ca1_P2_16157268	Ca1	16157268	GAAAAAAAAA/GAAAAAAAAA	AGCCAAATTTGATGGCA CTT	GGTTTCGATTGATTTT CGG	59.4	231	INTERGENIC	--	--	--
Ca1_P2_16157361	Ca1	16157361	GAAAAAAAAA/GAAAAAAAAA	AGCCAAATTTGATGGCA CTT	TCACCACAACAAAACAA ACCA	59.9	541	INTERGENIC	--	--	--
Ca1_P2_16158999	Ca1	16158999	CAAAAAAAAA/CAAAAAAAAA	AGTCCGCAACCCATTTA GTG	TTTGGGGAATGCTTAA AACC	58.9	619	INTERGENIC	--	--	--
Ca1_P2_16159274	Ca1	16159274	AAAA/AAAAACAAAA	ATGGTTTTAAGCATTC CCA	TTAAGTTGCGAGTTG CTCA	59.6	457	INTERGENIC	--	--	--
Ca1_P2_16160389	Ca1	16160389	TT/TTCT	CATGTGGATTGTCTTT GCG	GCACAAGATCCTCAAA ACTGG	59.7	238	INTERGENIC	--	--	--
Ca1_P2_16161514	Ca1	16161514	TG/T	GGGGCTTTACGTATAC AACCG	GGAATGAAAAGCCATG AGGA	60.0	253	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_16162054	Ca1	16162054	CTT/CTTT	TCCTCATGGCTTTTCAT TCC	TCAATCTTCATAGGCTG AACGA	59.8	796	INTRON	Ca_06938	R	--
Ca1_P2_16165350	Ca1	16165350	T/TC	CCACTTGAAGAAGTGG GGAA	AAAATTGGGCCGAAAA CTGT	60.7	216	DRR	Ca_06938	R	--
Ca1_P2_16167140	Ca1	16167140	TAAAA/TAAAAA	TTTTTAGCATGGCACGT TTT	CGGGTTGGATTAGATT TCAAG	58.6	378	INTERGENIC	--	--	--
Ca1_P2_16170875	Ca1	16170875	G/GA	CTAGATCCCCCAACAT GGA	TTTGCGATTTCATAGA GAAAAGA	59.4	596	INTERGENIC	--	--	--
Ca1_P2_16171279	Ca1	16171279	TA/TATTTTAAA	TGTCAAATCAGTCCAT TAAGCA	TGAACCGTGAATGTCC TCAA	60.1	707	INTERGENIC	--	--	--
Ca1_P2_16174129	Ca1	16174129	ATTTT/ATTTTTTTT	CCATGGGATCTCATTC AAGA	AAAAACAATACCGCGT GGAG	60.0	928	INTERGENIC	--	--	--
Ca1_P2_16174383	Ca1	16174383	GT/G	ACGTGGGTTTTCGTATC TCG	AAAAACAATACCGCGT GGAG	60.0	297	INTERGENIC	--	--	--
Ca1_P2_1617458	Ca1	1617458	AC/ACC	TGAAATCAAGTTTGAA GAGTCA	TAAAAGGAAATTGCGT CCG	60.1	350	INTERGENIC	--	--	--
Ca1_P2_16174790	Ca1	16174790	TC/T	CCACGCGTATTGTTTT TCT	TGGTTAGTTTATGTGG CAAAATG	59.0	715	INTERGENIC	--	--	--
Ca1_P2_16177614	Ca1	16177614	ATTTTTTTT/ATTTTTT	AGTCTCGTCGAGCCCA CTAA	TCACGGCTGTGTACTT AAAACG	60.2	242	INTERGENIC	--	--	--
Ca1_P2_16183218	Ca1	16183218	AG/AGG	TGCACAAAAATTCACG AGA	AGCATGCCAACTTTCT CCAT	59.7	900	DRR	Ca_06937	--	--
Ca1_P2_16183891	Ca1	16183891	AAATAATAATA/AAATAATAATA	ACTTGGCATGCAAGAG GACT	TCCTTTCACATACACAC ACATGA	59.0	268	DRR	Ca_06937	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_16187503	Ca1	16187503	AGTTTATGACG/AG	GTGTCACCATTGGCAAT ACG	TTCTTCGACCTCACAA TCC	60.1	382	CDS (large-effect mutations)	Ca_06937	--	--
Ca1_P2_16187739	Ca1	16187739	CA/CAATA	GGATTGTGAGGTCGAA GGAA	TGCATTCTCTCCAACC ATTT	59.6	484	INTERGENIC	--	--	--
Ca1_P2_16187793	Ca1	16187793	CTTTTTTTTT/CTTTTTTTTTTTTTTT	GGATTGTGAGGTCGAA GGAA	TGCATTCTCTCCAACC ATTT	59.6	484	INTERGENIC	--	--	--
Ca1_P2_16196907	Ca1	16196907	CTTTTTTT/CTTTTTT	AATGGGATCCAACAAA GCA	TACATGGCGAACATGA ATGC	60.5	504	INTERGENIC	--	--	--
Ca1_P2_16201852	Ca1	16201852	GTTTTTTTTT/GTTTTTTTTT	CCAACCGTGACCAAAA GACT	TTGCAATGTTTGGTGG AAGA	60.1	578	INTERGENIC	--	--	--
Ca1_P2_16202705	Ca1	16202705	TAAAAAA/TAAAAA	GCCGGATTCAACAAA CACT	AGTGACCTTCCCCACA CAAG	60.0	478	INTERGENIC	--	--	--
Ca1_P2_16202757	Ca1	16202757	GTTTTTTTTTTT/GTTTTTTTTTTT	GCCGGATTCAACAAA CACT	AGTGACCTTCCCCACA CAAG	60.0	478	INTERGENIC	--	--	--
Ca1_P2_16203089	Ca1	16203089	TC/T	CTTGTGTGGGAAGGT CACT	TGTGTGACCCCTGCTG AATA	60.1	685	INTERGENIC	--	--	--
Ca1_P2_16204000	Ca1	16204000	TAAAAA/TAAAAA	TGGGCAATGTGAAAT GAAA	TGAAGAAGTAGGACCC ACGC	60.3	176	INTERGENIC	--	--	--
Ca1_P2_16206173	Ca1	16206173	TAAAA/TAAAAA	TTTCCCTAAATGTCA CCAAA	GGGGCTTACGAGTACA GACTCA	60.7	644	INTERGENIC	--	--	--
Ca1_P2_16207593	Ca1	16207593	TTT/TTTTTTCTT	CAACGCCAACAACTAA TCA	TTTCATTTGGAGAATTTT TAGCAGA	59.3	125	INTERGENIC	--	--	--
Ca1_P2_16207830	Ca1	16207830	ATTTTT/ATTTTTT	CAACGCCAACAACTAA TCA	GAGAGGGTCTTGAGTG TCGC	60.0	657	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_16208087	Ca1	16208087	TTAATAATAA/TTAATAA	TCATGATATTTCAAAG GCTTCA	GAGAGGGTCTTGAGT TCGC	60.0	437	INTERGENIC	--	--	--
Ca1_P2_16208160	Ca1	16208160	T/TA	TTGCGACGACCACAA ATAA	GCAGCATTCCAACG TGGT	61.1	245	INTERGENIC	--	--	--
Ca1_P2_16209460	Ca1	16209460	CTTTTT/CTTTTT	TGAATCCAATCGTCCAT CAA	TTCCGTTGATGAAAA CGA	59.3	451	INTERGENIC	--	--	--
Ca1_P2_16209484	Ca1	16209484	GACAAC/GACAACAAC	TGAATCCAATCGTCCAT CAA	TTCCGTTGATGAAAA CGA	59.3	451	INTERGENIC	--	--	--
Ca1_P2_16209624	Ca1	16209624	TT/TTAT	TGAATCCAATCGTCCAT CAA	GTCCGGTGATCGGTTT CTAA	59.9	823	INTERGENIC	--	--	--
Ca1_P2_16209705	Ca1	16209705	ATT/AT	TCGCTTTTACATCAACG GAA	GTCCGGTGATCGGTTT CTAA	59.9	392	INTERGENIC	--	--	--
Ca1_P2_16209782	Ca1	16209782	TT/TTGAT	TCGCTTTTACATCAACG GAA	GTCCGGTGATCGGTTT CTAA	59.9	392	INTERGENIC	--	--	--
Ca1_P2_16213026	Ca1	16213026	CGAGTAGAGTA/CGAGTA	TTTGGAATGCTTCTGAG GCT	TTTCGTTACGGGCCT TTTG	60.0	682	INTRON	Ca_06936	--	bHLH
Ca1_P2_16213262	Ca1	16213262	G/GAACCAAATC	TTTGCAACCACAATTCT CCA	TTTCGTTACGGGCCT TTTG	60.0	621	INTRON	Ca_06936	--	bHLH
Ca1_P2_16213273	Ca1	16213273	T/TG	TTTGCAACCACAATTCT CCA	TTTCGTTACGGGCCT TTTG	60.0	621	INTRON	Ca_06936	--	bHLH
Ca1_P2_16234731	Ca1	16234731	AATATATATATATATATATATA/AA TATATATATATATATATATATA	GGAGGGGAAGTTGACA CAAA	ATTGGTCGTTAGAGG GGAT	59.9	647	INTERGENIC	--	--	--
Ca1_P2_1638459	Ca1	1638459	GAAAAAAAA/GAAAAAAAA	GTTGCGACCCCTTCTAA CAA	AACAAAACCGTTCAATG CGT	60.4	446	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_17051529	Ca1	17051529	ATTTTTTTTT/ATTTTTTTT	TGCAGTAGATCAGTTC GACAA	CTTTGAGCTTTTGCTC CTCC	58.9	464	INTERGENIC	--	--	--
Ca1_P2_17107416	Ca1	17107416	AATATATATATATATATATATATAT AT/AATATATATATATATATATATAT AT	GCTTTTCTCACCTCTCC CCT	TCCAAACCATGCTGTA GAGG	58.7	495	INTERGENIC	--	--	--
Ca1_P2_17120418	Ca1	17120418	G/GA	ATGGGACCATAGGCAT TTTG	TCAATGGTACTTTTTGT GGTTCA	59.4	888	INTERGENIC	--	--	--
Ca1_P2_17120609	Ca1	17120609	GAAA/GAA	TCTTCATGTTAAAAATG GATTGC	ACATTCAGGGGTGCAG GTAG	60.0	897	INTERGENIC	--	--	--
Ca1_P2_17120794	Ca1	17120794	A/AG	TGTCATGGTAGTATATT TTCGCAGA	ACATTCAGGGGTGCAG GTAG	60.0	596	INTERGENIC	--	--	--
Ca1_P2_1716073	Ca1	1716073	TTATATATATATATATA/TTATATATAT ATATATA	GCCTGAATTTAGCAGAT GGG	GATTATTGCACAAACTC CAAAAA	58.2	466	DRR	Ca_00214	--	bHLH
Ca1_P2_17185713	Ca1	17185713	TTTGATATTGATTAT/TTTGATATTGA TTATTGATATTGATTAT	CGGTTAAAGTTGGAAA CCCA	TGACGTGACATCGAGA GTCTG	60.0	594	INTERGENIC	--	--	--
Ca1_P2_1723303	Ca1	1723303	TTGTAT/TT	ATGTCATCTGTGACCAA GCG	TGGATGAGTGAAAATT GATTGG	59.8	420	DRR	Ca_00216	R	--
Ca1_P2_17234878	Ca1	17234878	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CCCTATAGGCCCACTAA GCC	ACCCCAAAAGAGAAAG CACA	59.7	695	INTERGENIC	--	--	--
Ca1_P2_17236397	Ca1	17236397	T/TAGGGCGCTAATAC	CGGGAGATACGTAGGA GCAA	GCGGCCTAAATTTTCG AGTT	60.6	394	INTERGENIC	--	--	--
Ca1_P2_1729960	Ca1	1729960	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AA/AAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATAA	GGAACGACCGTTGACT GATT	TTAACTCAGAGGAGCG CAGC	60.8	618	DRR	Ca_00217	--	TALE
Ca1_P2_17303519	Ca1	17303519	TTATATATATATATATAT/TTATATATA TATATATAT	TTTCAAACCTCACTGGT GTCA	ACCACGTATTAGCGGG TTTG	59.9	136	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_1733287	Ca1	1733287	CAAAA/CAAAA	GACCAATCCACCTTCT CCA	TGGCTTTGTGGTGCT TATG	59.7	931	INTRON	Ca_00217	--	TALE
Ca1_P2_1736894	Ca1	1736894	ATT/AT	CGTCAATGAGTGCTGG AAAA	GGACCCAAACTTCAC CTCA	59.9	528	INTERGENIC	--	--	--
Ca1_P2_1738348	Ca1	1738348	CTTTTTTTT/CTTTTTTTT	TTTCTTACGGAGGCAG CACT	ATTGCGTTCTGTTTTG GGA	60.5	571	INTERGENIC	--	--	--
Ca1_P2_1745242	Ca1	1745242	AG/A	ATTGTGATTGCATTGCA TGG	GAGTAGGTGCCTTCCC ACAA	60.1	548	INTRON	Ca_00219	--	TALE
Ca1_P2_1745433	Ca1	1745433	ATGAATTGAATT/ATGAATTGAATTGAAT T	TGTGTGATTTGATCGGT GCT	GAGTAGGTGCCTTCCC ACAA	60.1	214	INTRON	Ca_00219	--	TALE
Ca1_P2_17462572	Ca1	17462572	GGA/GGAATGCGCACGA	AATCCGTCACAAAGGC AGAC	AACGCCAATGGCTATA ATGC	60.0	173	DRR	Ca_14788	--	C2H2
Ca1_P2_17476559	Ca1	17476559	ATTTTTTTT/ATTTTTTTT	ACCTTCTCACTCAAACC CCC	CAACATCATTGGCAGC AAAA	60.6	457	INTERGENIC	--	--	--
Ca1_P2_17477080	Ca1	17477080	ATTT/ATT	TTTTGCTGCCAATGATG TTG	CATTTATCCGGGGAA TAGA	59.7	275	INTRON	Ca_14787	--	--
Ca1_P2_17498653	Ca1	17498653	TTATATATATATATATATATATAT/TTA TATATATATATATATATATATAT	TCATGCCCTAACACCCT CTC	GATGCGACCTCCTATG GTGT	60.0	268	INTERGENIC	--	--	--
Ca1_P2_17556793	Ca1	17556793	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATAT ATAT	TTTTCAGTTGAATGGGA GGG	TGGGAAGCATAGGGCA AATA	60.4	529	DRR	Ca_14780	K	ARR-B
Ca1_P2_17642213	Ca1	17642213	TAA/TAAA	ACGCTGTGACACGATT CAG	CCCTCAACACACTCAT GTGG	60.0	243	INTRON	Ca_14766	--	--
Ca1_P2_1777586	Ca1	1777586	AGATGATGATGATGATGATGA/AGATGA TGATGATGATGATGATGA	CGTCACAAAGCATCACA GGT	CTACGGTGCAACACAGA ACCA	59.8	563	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_1806013	Ca1	1806013	A/AG	TTGGGAAGCATGCACA T TAG	TGAAGGAGCCAAATCA CACA	60.2	779	INTERGENIC	--	--	--
Ca1_P2_18088	Ca1	18088	TA/TAA	CCGCTTGTTTTCTTTG CAG	TTGATTGCTTGTTGCTC CAG	60.0	543	INTERGENIC	--	--	--
Ca1_P2_18181716	Ca1	18181716	AATATATATATATATATATATATA/A ATATATATATATATATATATATATA TA	CGAATACTCATGTTTT TGATCTG	ACCCAACGTAGCACGT TACC	59.9	626	INTERGENIC	--	--	--
Ca1_P2_1819590	Ca1	1819590	TA/TAA	AAAATTGATTCGTCAC CCATACA	CAGCACCAGCAACTCC TACA	60.0	434	INTERGENIC	--	--	--
Ca1_P2_1820515	Ca1	1820515	AT/ATT	TGTTGACATTAAGGAAG ACCGTT	GCTGTTACTACATGCT CTTCAA	58.6	823	INTERGENIC	--	--	--
Ca1_P2_1822426	Ca1	1822426	TG/T	TGTGCACGAGAGCAAA ATT C	TCTTCATGGGCTGAAA AAGC	60.3	489	INTERGENIC	--	--	--
Ca1_P2_1822473	Ca1	1822473	AG/A	TGTGCACGAGAGCAAA ATT C	TCTTCATGGGCTGAAA AAGC	60.3	489	INTERGENIC	--	--	--
Ca1_P2_18228329	Ca1	18228329	A/ATATATT	CCCTCCACAGAGTGG AAAA	TGTGTGACCAACCTTA AAAGTCA	59.6	204	INTERGENIC	--	--	--
Ca1_P2_1824386	Ca1	1824386	ATGTGT/ATGTGTGTGT	ACGTGAAGCTTTGCGA GATT	TGAACCAACACAGGG ATGA	59.9	859	INTRON	Ca_00230	K	--
Ca1_P2_18298376	Ca1	18298376	CAAA/CAA	GGTAATGCCTCGTACA AAACAA	CATTCTTATGCCTCCT ACACC	59.9	751	INTERGENIC	--	--	--
Ca1_P2_18300620	Ca1	18300620	GTTTTTTTT/GTTTTTTT	TTTCCATGAGTTATATT TGTCACGA	TGGCCTTCAATTTTCT GCT	59.8	134	INTERGENIC	--	--	--
Ca1_P2_18300800	Ca1	18300800	ATTT/ATT	AGCAAGAAAATTGAAG GCCA	GGAAGCTTTAAAGGGA GCAAA	59.9	161	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_18301141	Ca1	18301141	AAAA/AAAAGAAA	AGCAAGAAAATTGAAG GCCA	GAGGTGTTAATTCAGC AAGACAAA	59.7	622	INTERGENIC	--	--	--
Ca1_P2_18301437	Ca1	18301437	AATTT/AT	TGATAAGCTAACAGGC CAAAA	ACATGGGCTAGCAAGA AACC	59.2	417	INTERGENIC	--	--	--
Ca1_P2_18302283	Ca1	18302283	TTTATTATTATTATTATTATTATT ATTATTATT/TTTATTATTATTATTAT TATTATTATTATTATTATTATT	TTGTAAGGATGTGTGA CCG	AGGCCCGAGTATAGGG TCTC	59.6	643	INTERGENIC	--	--	--
Ca1_P2_18317638	Ca1	18317638	T/TG	TCATTTTCAACCCCTTAG CAACA	TGGTAAGGTATACGCG GGAG	60.0	690	INTERGENIC	--	--	--
Ca1_P2_18325523	Ca1	18325523	AGG/AG	CGGATCATTACACACTT GCG	GCCAAAGCCATGTTTT CAAT	59.9	324	INTERGENIC	--	--	--
Ca1_P2_18328046	Ca1	18328046	CT/CTT	AAATTGACCAAAAGAAA GCCC	GCCCCATTTTGTGGTT TTAAT	59.9	151	INTERGENIC	--	--	--
Ca1_P2_18328170	Ca1	18328170	GTTTTTT/GTTTTTTT	TTAAAACCAAAAATGG GGC	GAGGCAAAGCTTCCAA ATCA	60.3	475	INTERGENIC	--	--	--
Ca1_P2_18328227	Ca1	18328227	GTCTATCT/GTCT	TTAAAACCAAAAATGG GGC	GAGGCAAAGCTTCCAA ATCA	60.3	475	INTERGENIC	--	--	--
Ca1_P2_1835247	Ca1	1835247	ATGAC/A	TCATAAGCCAGAACCCA AGC	GGTGGTGAGATTCCA AGAA	59.9	448	INTERGENIC	--	--	--
Ca1_P2_18364053	Ca1	18364053	GAAA/GAAAA	CCCGTAGCAAGACTTG AAGC	TTGGAGAAACTTTTCC GCTG	60.4	627	INTERGENIC	--	--	--
Ca1_P2_1836845	Ca1	1836845	TATTTTAATT/TATTTTAATTTTAATT	CATTTCATACCGTTTC ACG	AGCACCACTTCTTCATT CAAAA	58.9	704	INTERGENIC	--	--	--
Ca1_P2_1837913	Ca1	1837913	TA/TAA	TCGTAAGTATTAGTAA GTGTGAGG	CAGTCAAATCGAAGCC ATCA	59.8	617	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_1841034	Ca1	1841034	TTTCTTCT/TTTCT	TCAAGGTGTTGATTGCG GTAGG	TTTTCGAACCCGGTCT ATTC	59.9	595	INTERGENIC	--	--	--
Ca1_P2_1841061	Ca1	1841061	TAAA/TAAAAA	TCAAGGTGTTGATTGCG GTAGG	TTTTCGAACCCGGTCT ATTC	59.9	595	INTERGENIC	--	--	--
Ca1_P2_1841424	Ca1	1841424	A/AT	GAATAGACCGGTTGCA AAAA	CCTCTTTCGGACAAC ACAT	60.0	302	INTERGENIC	--	--	--
Ca1_P2_1841544	Ca1	1841544	A/AATGATTATTCGT	ATGTGTTGTCCGGAAG GAGG	TGAATCCGGAATAGAA CCGA	60.4	147	INTERGENIC	--	--	--
Ca1_P2_1843254	Ca1	1843254	TAA/TA	AAGCCATAATACGCCCA CAG	TGACGAGTCACCATCT TTGC	59.8	600	INTERGENIC	--	--	--
Ca1_P2_1843387	Ca1	1843387	ATATT/AT	CAACCAAAATGCGACT TGA	GCCAAAGCTAAGCTGAC GAGT	59.8	526	INTERGENIC	--	--	--
Ca1_P2_18441371	Ca1	18441371	CACAAGAGAC/CAC	CCCTCTGTATGCCAGT CGAT	TGGCATTGATGATGGC TTTA	60.0	771	INTERGENIC	--	--	--
Ca1_P2_18472041	Ca1	18472041	CAAAAAAAAA/CAAAAAAAAA	CCTACATTCGCACGAG TTCA	TTTTTCTCAGTTTTGG TCCT	57.8	404	INTERGENIC	--	--	--
Ca1_P2_1847714	Ca1	1847714	GTTTT/GTTTTTTT	AATGCCCTTCTTCTC CTA	AGTGAAGCGATGGAA TCAG	60.2	275	DRR	Ca_00232	K	MYB
Ca1_P2_1849075	Ca1	1849075	AATTATTATTATTATTAT/AATTA TTATTATTATTAT	GAATCAACGGTGTGG GACT	TGTTTGAGCCAAATGT GGAA	60.1	271	CDS (large-effect mutations)	Ca_00232	K	MYB
Ca1_P2_1850030	Ca1	1850030	CAATTAATTA/CAATTA	GTTGTCCGTCTTCCT GGTA	GGACAACCGAAGAGGA TCAA	60.1	563	INTRON	Ca_00232	K	MYB
Ca1_P2_1850089	Ca1	1850089	AT/ATT	GTTGTCCGTCTTCCT GGTA	GGACAACCGAAGAGGA TCAA	60.1	563	INTRON	Ca_00232	K	MYB

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_1858692	Ca1	1858692	CAGCTGC/CAGCTGCATAGTTAGCTGC	AGACAATGGCAGTGAT TCCC	TGATCCAATTGATGGC ACAC	60.3	949	INTRON	Ca_00233	FP	bHLH
Ca1_P2_1858938	Ca1	1858938	GA/GACA	CTCCTTCAACCACAAGA GCC	TGATCCAATTGATGGC ACAC	60.3	677	INTRON	Ca_00233	FP	bHLH
Ca1_P2_18590568	Ca1	18590568	CAATAATAATAATAATAATAATAATA ATAATAATAATAATAA/CAATAATAATAA TAATAATAATAATAATAATAATAATA ATAATAATAATAATAA	CCGCCACCTCCTATTT ACA	CTTCAGGAAGTCGCAT CTCC	60.0	559	INTERGENIC	--	--	--
Ca1_P2_1859839	Ca1	1859839	ATT/ATTT	CTTGGAACCATGTTCTGA GGT	CAACTCCGAATGTCCT GGTT	60.0	445	INTRON	Ca_00233	FP	bHLH
Ca1_P2_1862254	Ca1	1862254	TTAATAA/TTAATAATAA	TGCGTTGAAGAGGATG ACTG	TCATAATTTTGAGCCG GTCC	59.9	466	INTERGENIC	--	--	--
Ca1_P2_18630512	Ca1	18630512	TTATATATATATATATATATATATATA TATATAT/TTATATATATATATATATAT ATATATATATATATATAT	ACAGCCACAACCACAT CAA	CCCATATTTCAAATGGC GAC	60.2	577	INTERGENIC	--	--	--
Ca1_P2_18630633	Ca1	18630633	C/CTTTA	ACCAAAGCGTCGTCAA AATC	TGGATGATGGCATTAA TATTGG	59.5	625	INTERGENIC	--	--	--
Ca1_P2_186383	Ca1	186383	T/TC	TTCTGCATCACCATCTG AGG	TGATGAAGATCCCCCA AGAG	60.0	783	INTRON	Ca_00014	--	--
Ca1_P2_186468	Ca1	186468	AATC/AATCATC	CAGCAGAATCTTGAA CCA	TGATGAAGATCCCCCA AGAG	60.0	502	INTRON	Ca_00014	--	--
Ca1_P2_186624	Ca1	186624	GG/GGCGATCG	CCACGCATGGGGACTA GATA	TGATGAAGATCCCCCA AGAG	60.0	212	CDS (large-effect mutations)	Ca_00014	--	--
Ca1_P2_18679893	Ca1	18679893	TTATATATATATATATATATATATAT TATATATATATATATATATATATAT	GACAAAGGCATGTTGG TGTG	TGTTTTCTCGTGCCTT TATG	60.1	651	INTERGENIC	--	--	--
Ca1_P2_18688865	Ca1	18688865	TTGT/TT	TAGCAGCTGGAGGAAC ATGA	GCACCCAGTGTAAAGC CCAT	59.9	301	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_186939	Ca1	186939	TAA/TAAA	CTCTTGGGGGATCTTC ATCA	GCATGCCATGTAGTGC ATT	59.6	329	DRR	Ca_00014	--	--
Ca1_P2_1874547	Ca1	1874547	TGGTAG/TGGTAGGTAG	GCTTCTGTTTGTATCTC GGG	TTTGTAGTGGCCTATCGA CGG	60.1	722	INTERGENIC	--	--	--
Ca1_P2_1874672	Ca1	1874672	TGGG/TG	GCTTCTGTTTGTATCTC GGG	TTTGTAGTGGCCTATCGA CGG	60.1	722	INTERGENIC	--	--	--
Ca1_P2_1876420	Ca1	1876420	AT/ATACGTAGTTCGGTTGAGT	CGGGTCTTCAAATGG AATG	CAAAGGAAACGTGCTT CCAG	60.8	861	INTERGENIC	--	--	--
Ca1_P2_1881912	Ca1	1881912	AATAT/AAT	CGTGGACTCCTTCTTCA ACC	GGTCATATTATGGGGA TGCG	60.0	523	INTERGENIC	--	--	--
Ca1_P2_1882286	Ca1	1882286	CTAAT/CT	CGCATCCCCATAATATG ACC	GGTGCAAATGCAAGAG TCAA	59.8	653	INTERGENIC	--	--	--
Ca1_P2_1882571	Ca1	1882571	TC/T	ATATCGTTTTTACACG CGC	GGTGCAAATGCAAGAG TCAA	59.8	282	INTERGENIC	--	--	--
Ca1_P2_1882839	Ca1	1882839	GCATTA/GCATTAACAGTTCCATTA	TTGACTCTTGCAATTGCG ACC	ACATATGCGATTGGGA CACA	59.8	581	DRR	Ca_00237	A	--
Ca1_P2_1882903	Ca1	1882903	GT/GTCAGCTTCTAT	TTGACTCTTGCAATTGCG ACC	ACATATGCGATTGGGA CACA	59.8	581	DRR	Ca_00237	A	--
Ca1_P2_1883092	Ca1	1883092	C/CT	GCACGTGGCCCACTTA TACT	ACATATGCGATTGGGA CACA	59.8	244	DRR	Ca_00237	A	--
Ca1_P2_1883148	Ca1	1883148	G/GA	GCACGTGGCCCACTTA TACT	ACATATGCGATTGGGA CACA	59.8	244	DRR	Ca_00237	A	--
Ca1_P2_18864759	Ca1	18864759	TCCTGCC/TCC	GGGGAATGTATCCTC TCCA	TGCCTCTCCTCCTCTC TCA	60.2	431	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_18868658	Ca1	18868658	CGG/CGGGAATGG	AATCGATTGATTCAGCC CAG	CGTTTTTCAAAGCGAG GGTA	60.2	707	INTERGENIC	--	--	--
Ca1_P2_1888179	Ca1	1888179	TAAAAAA/TAAAAAAA	CCTCACCCCATTTTCCT TTT	ACCATGAACCATTGCC AAGT	60.2	455	INTERGENIC	--	--	--
Ca1_P2_1888548	Ca1	1888548	ATTTTT/ATTTTTT	CCAATGTGCCACTTGT GAC	TAGTGTGGGTGGGT AAGG	59.7	262	INTERGENIC	--	--	--
Ca1_P2_18899804	Ca1	18899804	CTATATATATATATATAT/CTATATA TATATATATATATAT	GCTTCAATGTGCACGAT ACG	TTCTTTGTGGTAGGG CACC	60.0	237	INTERGENIC	--	--	--
Ca1_P2_18928985	Ca1	18928985	CTTATTTATTTATTTATTTAT/CTTA TTTATTTATTTATTTATTTATTTAT	TTTACCCTATCCACAC CCC	TTCCAATGATTCCTGTTT TTGC	59.9	613	INTERGENIC	--	--	--
Ca1_P2_19025184	Ca1	19025184	A/ATTG	CGGGATCCTTGAACCT GGTA	CTTGTGCAAAGGTTC ATCA	59.7	533	INTERGENIC	--	--	--
Ca1_P2_1907609	Ca1	1907609	ATTTCTTTT/ATTTCTTTCTTTT	TGCAATGATGTCAATTG CTCT	AAATCAATTTTGGTCCG CTC	59.0	926	DRR	Ca_00239	--	--
Ca1_P2_1907983	Ca1	1907983	CTT/C	TTCCCGTGAAATTCATC CAT	GCATGGGAGGATAAAA GCAA	60.0	721	DRR	Ca_00239	--	--
Ca1_P2_19112991	Ca1	19112991	CTTTTTTTTTTTTTTTTTT/CTTTTT TTTTTTTTT	GAGAACATCCGGTTGC AGTT	GGATTTGGAATAAGCG GACA	59.9	926	INTERGENIC	--	--	--
Ca1_P2_19135325	Ca1	19135325	GC/GCC	ACTGCGCTCTACTTGA GGGA	ATGTTTCGTGCAATG TCAA	60.0	404	INTERGENIC	--	--	--
Ca1_P2_19150621	Ca1	19150621	A/ATT	TTTAATATGTGGATCGG GGC	AACCCAAAGACGGGCT AGTT	60.0	648	INTERGENIC	--	--	--
Ca1_P2_19150973	Ca1	19150973	CTT/CT	AAC TAGCCCGTCTTTG GGTT	GAAAACAAAAGCTTTAC GGTCA	58.5	488	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_1915229	Ca1	1915229	CTCAT/CTCATCTGTTTCAT	TGGATACACAAAAACCG AACA	CACCTTTCCATCCATC GAC	60.3	709	INTERGENIC	--	--	--
Ca1_P2_19168	Ca1	19168	GCTCTCT/GCTCT	CAGAACCGAGGAATTA AGCG	AGGCTTGAAGCGTGGT AATG	60.3	637	INTERGENIC	--	--	--
Ca1_P2_1917237	Ca1	1917237	GAAAAA/GAAAA	TGGTTGATGAAAGAGA GATGGA	TGTAACAAGCAGATGG AATCTTG	59.3	247	INTERGENIC	--	--	--
Ca1_P2_1917413	Ca1	1917413	TTT/TTTATT	TGGTTGATGAAAGAGA GATGGA	TGTAACAAGCAGATGG AATCTTG	59.3	247	INTERGENIC	--	--	--
Ca1_P2_1920132	Ca1	1920132	AA/AACA	AAATGCCAATGAAACAC TTGC	CCAAGTAGCCAACCAG CATT	60.1	305	DRR	Ca_00240	--	C3H
Ca1_P2_1927607	Ca1	1927607	G/GA	TCCGAAGGGAAAGTGA AGAA	TTCAATGGTTGATGCC ATGT	59.8	626	INTERGENIC	--	--	--
Ca1_P2_1928153	Ca1	1928153	ATTTTT/ATTTT	ACATGGCATCAACCATT GAA	TGCATCAATGAATCCT ACATCA	60.3	576	INTERGENIC	--	--	--
Ca1_P2_1930262	Ca1	1930262	ATTTTTTTTT/ATTTTTTTTTT	GGCAACATTTTACAAAA GTTAAGG	AGTTTGATTAATGTCGG GCG	60.0	318	INTERGENIC	--	--	--
Ca1_P2_19315964	Ca1	19315964	GTTTTT/GTTTTTTT	GTCATTTGGAATGGCG ACTT	GCTTTGATGTTCAAA CACG	59.2	364	INTERGENIC	--	--	--
Ca1_P2_19361983	Ca1	19361983	AATATATATATATATATATATA/AAT ATATATATATATATATATA	TCATTAACCACTAGAAC AAAAGCAA	GGCCGTAGATACCAAC AGGA	60.0	447	INTERGENIC	--	--	--
Ca1_P2_19422707	Ca1	19422707	TAAAAA/TAAAAA	ACCCGTTTTTGATTGCG TTG	TCGTGTCCCAAACTC AATG	59.5	840	INTERGENIC	--	--	--
Ca1_P2_19422756	Ca1	19422756	TAAAAA/TAAAAA	ACCCGTTTTTGATTGCG TTG	TCGTGTCCCAAACTC AATG	59.5	840	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
Ca1_P2_19422886	Ca1	19422886	TTTTATTT/TTTTATTTATTT	GCCCATACCTAGCCC ATTT	TCGTGTCCCAAACTC AATG	59.5	713	INTERGENIC	--	--	--	
Ca1_P2_19460421	Ca1	19460421	T/TTCA	CGTTGCAATTGATGAG GATG	TTCGCTCCTTCTTCTG TCC	59.6	748	INTERGENIC	--	--	--	
Ca1_P2_19498678	Ca1	19498678	TTTTGATCCTTTGAT/TTTTGAT	GCCCGAGTTAACAACA AACG	ATCGATTTCCTCAGCA CTGG	60.2	374	INTERGENIC	--	--	--	
Ca1_P2_19506055	Ca1	19506055	GAA/GA	ACGAACGTTGAAATCC AGC	TCGGTTCATGGAACGA GTTA	59.1	477	INTERGENIC	--	--	--	
Ca1_P2_19523625	Ca1	19523625	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AA/AAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT ATAATAAA	CCTGATCAAACCCGAT GAGT	TATTATCCATCCCGTCC CAA	60.0	364	INTERGENIC	--	--	--	
Ca1_P2_1953853	Ca1	1953853	ACTCTCTCTCTCTCTCT/ACTCTCTCT CTC	GTTGGAATGCCAAAA GGA	GGAGCAGAAGCCATTC AAAG	60.0	278	INTERGENIC	--	--	--	
Ca1_P2_19567652	Ca1	19567652	T/TCCCATGCC	CGAAGACCGAAATGCT GATT	GGTCAAACCGTCAAAA AGGA	59.9	321	INTRON	Ca_08866	J		G2-like
Ca1_P2_19627166	Ca1	19627166	TTAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATA	AACGCATCGGTAAACA CTCC	TGAAGTTGAATGTTGG CAGG	59.7	327	INTERGENIC	--	--	--	
Ca1_P2_19631803	Ca1	19631803	CATATATATATATATATATAT/CATAT ATATATATATATATATATATAT	ATATTGCAACGCGTAT GTT	AAATGTGGCAAATTGG GACT	59.3	447	INTERGENIC	--	--	--	
Ca1_P2_1963997	Ca1	1963997	ATATTTATTT/ATATTTATTTATTT	AGGCAACAACCTTTTGC ACC	TTACAATGTGCATAGC GGGA	60.1	317	DRR	Ca_00244	--		B3
Ca1_P2_1965007	Ca1	1965007	TG/T	CCACCCAAGAAGAA AACA	TTTCCAAGCCACTAAC CAC	60.0	704	DRR	Ca_00244	--		B3
Ca1_P2_1966252	Ca1	1966252	TTCTCT/TTCTCTCT	GGCAAGAGAGCATCAA AAGG	CAAGTGAAGTTTGTATT CAAGGG	60.0	703	DRR	Ca_00245	U		bZIP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_19662720	Ca1	19662720	TATAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATAATA ATAATAA/TATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA	TCCCTCAACCAACTCCA CTC	TTCCAACCAACCACCG TTAT	60.1	684	INTERGENIC	--	--	--
Ca1_P2_19673430	Ca1	19673430	AAG/A	TGTAGGTGATCCTTCCA CCG	AGGGACTTCGCCCCCT TAAA	59.9	508	INTERGENIC	--	--	--
Ca1_P2_1968368	Ca1	1968368	CAAGAAAGAAAGAAAGA/CAAGAAAG AAAGA	TCCAATCCATTCCACCA TTT	TGCATTCCATTTAGCAG CAG	60.0	775	INTERGENIC	--	--	--
Ca1_P2_1969676	Ca1	1969676	TGG/TGGGG	TTTTGGCCGTGGTAGTT TTC	TTCGAATTTCCCGTAC CTG	59.9	724	INTERGENIC	--	--	--
Ca1_P2_1970052	Ca1	1970052	TTTAATTATATTAATTATA/TTTAATTATA	CGGATTTGGGCAGTGA TATT	TTCGAATTTCCCGTAC CTG	59.9	266	INTERGENIC	--	--	--
Ca1_P2_1970410	Ca1	1970410	ATATTATTATTATTATTATTATTATT ATTATTATTATTATAT/ATATTATTATTA TTATTATTATTATTATTATTATTATT AT	GGGAAATTCGAATC CGTT	TCGGTTAAATTCGAGG TGGT	59.4	626	INTERGENIC	--	--	--
Ca1_P2_1972044	Ca1	1972044	ACTTCTTCT/ACTTCTTCTCT	GCCCTCAGCCTCACTTT ATG	AGGGAGGCTACGAACG ATT	60.1	356	INTERGENIC	--	--	--
Ca1_P2_1973631	Ca1	1973631	TG/T	TTTTTGACAAGGCAGTG CAG	CAGCCACTGAAAGTAA CGCA	60.1	290	INTRON	Ca_00246	A	--
Ca1_P2_1976496	Ca1	1976496	A/AATTTTCAC	TGATCAAGCAACCAAAG CTG	TGCCTTTCTAAGCAG CCAT	60.0	574	DRR	Ca_00247	--	--
Ca1_P2_1979080	Ca1	1979080	CTTCTTA/CTTCTTAGTTCTTA	CGTAGGGAGGAGGTG TTGA	TAGTGACGACTTGGGC ACAG	59.9	481	INTERGENIC	--	--	--
Ca1_P2_1979133	Ca1	1979133	CA/C	CTGTGCCCAAGTCGTC ACTA	TCTATGATCGGTTTCCA CGA	59.1	160	INTERGENIC	--	--	--
Ca1_P2_1983802	Ca1	1983802	CTTA/CTTAATTA	GCCGTTAATTGTGATCT AACCA	TTCGAACTAAATGCAAG GGG	60.1	684	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_1986085	Ca1	1986085	TAAAA/TAAAAA	TGGATAAATTGTAGGCC CCA	GAGAAAAGTTGAAACC ATGACCA	60.4	679	DRR	Ca_00248	T	--
Ca1_P2_19864874	Ca1	19864874	AATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT	AAATATTAATCATGCGG GATCG	GGATGCTTGTTTTGG AACC	59.4	582	INTERGENIC	--	--	--
Ca1_P2_1987558	Ca1	1987558	ATAGTAG/ATAG	GTGGCATAGGCTCCAA TCAT	GGAATGGTGTGTCGACA TTTT	59.8	922	DRR	Ca_00248	T	--
Ca1_P2_1988980	Ca1	1988980	TC/TCCC	ACCTGCCAAAAGCAGA AGAA	CACTGAGTTTCGGGG AGAA	60.2	776	INTRON	Ca_00248	T	--
Ca1_P2_1989852	Ca1	1989852	AAA/AAATAA	TGGGCTTATTGGGTC ACTC	TATCCAATCCCAACCCA AAA	60.0	115	INTERGENIC	--	--	--
Ca1_P2_19903627	Ca1	19903627	TA/TAATTGGCAGCA	TGGGCTGAAAAGCAAC TTCT	ACCAAGTGTGTTCCTCA AATC	60.0	233	INTRON	Ca_08847	K	--
Ca1_P2_1990497	Ca1	1990497	TAA/TA	TGGGTCAACGTTGGTG TCTA	CCACTCAAAGGCTCAC ACAA	59.9	769	INTERGENIC	--	--	--
Ca1_P2_19909063	Ca1	19909063	TTATATATATATATATATATATATA TATAT/TTATATATATATATATATATAT ATATATATATATATATATATATAT	CCATAATTTTGGATCC TCCT	TTTGCTTATGAGAAAA GGAGATGT	59.7	235	INTERGENIC	--	--	--
Ca1_P2_1991447	Ca1	1991447	GATATATATATATATATATATATAT GATATATATATATATATATATATAT	CCAACCCTTAGGGGAC AAAT	CATGTGCCAGAAAGCT CAAA	60.0	505	DRR	Ca_00249	CR	HB-other
Ca1_P2_1995431	Ca1	1995431	GATAT/GAT	AACCATGCACCATGTT TCA	GTTGATGACGTGTAGG GGCT	60.0	406	DRR	Ca_00250	CR	HB-other
Ca1_P2_1996315	Ca1	1996315	T/TTTTTTCATAA	AAAATGAACCTTGCGGT TGG	AGGGCTTGTTACTTT GCGA	59.9	538	INTRON	Ca_00250	CR	HB-other
Ca1_P2_1997441	Ca1	1997441	AC/A	AAGCAATACTGAACCTG CGG	ATGAGCCGGTTATCTC ATGG	59.9	473	INTRON	Ca_00250	CR	HB-other

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_1998915	Ca1	1998915	TTTATAAAATGA	TGCTTGTTCACCACTT TGC	CGACCGATATTCGTCC ACTC	60.5	481	INTERGENIC	--	--	--
Ca1_P2_1999792	Ca1	1999792	CTTTTTTTTT/CTTTTTTTTT	TCCTTTCCGATGTTTG GAC	AATGGGAGACAAAGG AGAGA	60.1	548	INTERGENIC	--	--	--
Ca1_P2_2000025	Ca1	2000025	TAAAAAA/TAAAAAA	TCCTTTCCGATGTTTG GAC	TTAAGGACGTCGTTGG AAGG	60.1	778	INTERGENIC	--	--	--
Ca1_P2_2000345	Ca1	2000345	TAAGA/TAAGAAGA	TCTCTCCCTTTGTCTCC CATT	TGTTAGGATTGTGCTG AGCG	60.0	405	INTERGENIC	--	--	--
Ca1_P2_2000540	Ca1	2000540	AT/ATT	CGACGTCCTTAAAGG TCCA	TGTTAGGATTGTGCTG AGCG	60.0	166	DRR	Ca_00251	J	--
Ca1_P2_2001789	Ca1	2001789	ATGT/AT	AGCACTGGGCAGAAAG AAAA	CACACGTCATGATCCC CATA	60.2	751	DRR	Ca_00251	J	--
Ca1_P2_20097334	Ca1	20097334	CNNNNNNNNNNNN/CNNN	TTTCGTTTGCATAGTG ATCC	TCATTTCAAGATCCTGG TTCC	59.0	250	INTERGENIC	--	--	--
Ca1_P2_2015582	Ca1	2015582	TTGT/TT	CTCTAGAACCCCAACT CCC	CTCCAATGTTGGGAGA CTACG	59.6	499	DRR	Ca_00253	E	--
Ca1_P2_2018076	Ca1	2018076	A/AGTGAGACTCT	TTGTCTTGACGCAACT TGG	GCCGCAATGATGTGTT TATG	60.0	831	INTRON	Ca_00254	FP	bHLH
Ca1_P2_2019732	Ca1	2019732	ATTTTT/ATTTTTTT	AACTCAACCGAGGTC CTTT	GCACATTTAGGTGTGG AGCA	59.7	745	INTRON	Ca_00254	FP	bHLH
Ca1_P2_2019873	Ca1	2019873	AT/ATT	CCATCTTCGAAAGTTG GAA	GATATCAACACCGCCA AACC	60.2	848	INTRON	Ca_00254	FP	bHLH
Ca1_P2_2023719	Ca1	2023719	ATTTT/ATTTTT	CGGTCAAAGTAAATCTG GTCG	TCCGTTGTTGAGGATG ATGA	60.0	608	DRR	Ca_00255	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P2_2023898	Ca1	2023898	TAA/TAAA	TAATGAGGGCTTGAATT CGC	TCCGTTGTTGAGGATG ATGA	60.0	386	DRR	Ca_00255	--	--
Ca1_P2_2044788	Ca1	2044788	T/TATCGTAAA	GAGCTTCTCCACCTCA CGTC	TGGCATGTTTCCACTA GGCT	60.7	633	DRR	Ca_00259	U	M-type
Ca1_P2_2057962	Ca1	2057962	GAAAAGTTA/GA	TGTGCATGAAAGCAAA TTGA	GGCCGTGAAAGATATT TGGA	59.9	712	DRR	Ca_00261	--	--
Ca1_P2_2073961	Ca1	2073961	CTTTT/CTTT	AGAGGCACGAGATTTT CAGA	AAATATCCCCGCAATAA GGG	60.0	336	CDS (FRAME SHIFT)	Ca_00263	T	M-type
Ca1_P2_2083881	Ca1	2083881	TCCCC/TCCCCC	AGCACCTAGGAACACG GAAA	GAGAAAGCGTGTGTGT GCAT	59.9	103	INTERGENIC	--	--	--
Ca1_P2_2085633	Ca1	2085633	CTTT/CTT	TGGGTTTGTAAATGAA AAGTGA	TTGAGATTTTCCAAGCT CAAAG	58.6	737	INTERGENIC	--	--	--
Ca1_P2_2091229	Ca1	2091229	AGGGGG/AGGGGGGG	TTCAGTTCATCAATTGC CCA	TCGAACTGTTGTTCTG GCTG	60.0	618	DRR	Ca_00266	--	MYB_related
Ca1_P2_2094556	Ca1	2094556	ATTTT/ATTTTT	CAAACCTGCCCTAT AAT	GGGAGCACGTGAGTTG ATT	60.1	947	INTRON	Ca_00266	--	MYB_related
Ca1_P2_2095011	Ca1	2095011	AT/A	CCAAGCCCTGCTATTGT CAT	GCAAAAACGGTATTCT GGGA	59.9	196	INTRON	Ca_00266	--	MYB_related
Ca1_P2_2099948	Ca1	2099948	ATTTT/ATTTT	TTGGTATGTATGAAT GTTGGCA	TGGTGTTAATTAATCTC GTCACCT	57.0	574	INTERGENIC	--	--	--
Ca1_P2_2106022	Ca1	2106022	CTCTTTNNNNNNNNNTCTTT/CTCTT T	CTCAATATCATGGTGG GGG	GTCAATGGAGGTTTGC CATC	60.3	276	CDS (FRAME SHIFT)	Ca_00267	D	NAC
Ca1_P2_2108793	Ca1	2108793	GTT/GTTTT	GTTTATCTGCCGAACG TGC	CAATGGCAGTGATCTG CTCT	59.0	678	INTRON	Ca_00267	D	NAC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_2113146	Ca1	2113146	TAAAAAAAAA/TAAAAAAAAA	TGTGGACACGTTAAGT GTGG	TGATCTCGCCCTATTAT TCAAAA	59.9	409	INTERGENIC	--	--	--
Ca1_P2_2117774	Ca1	2117774	T/TTATTG	TGCATGATACCCATCAA ACG	TGCCTTGCCTCTGAC TACC	60.4	633	INTERGENIC	--	--	--
Ca1_P2_2120405	Ca1	2120405	TTTAATTTAATTAA/TTTAATTTAATTAA TTAATTAA	TGTATGGAAAGAGGTA AAATGGAA	AACGACAAATGTTGCC ATGA	60.0	532	INTERGENIC	--	--	--
Ca1_P2_2121527	Ca1	2121527	ATT/AT	AACGCAAAATCAAACAC CAA	TCTCGAAAGCAACTCA CTCG	59.3	398	INTERGENIC	--	--	--
Ca1_P2_2131072	Ca1	2131072	A/AAAG	TGCTATTCATCCCAAA GCA	CTTGGATTTCGATGCATT CCT	60.0	640	INTERGENIC	--	--	--
Ca1_P2_2131592	Ca1	2131592	TTAGG/TTAGGCTAGG	AGGAATGCATCGAATC CAAG	CCACAAGTGCCATTCA GCTA	59.9	516	INTERGENIC	--	--	--
Ca1_P2_2131832	Ca1	2131832	CTTT/CTTTT	AGGAATGCATCGAATC CAAG	CCACAAGTGCCATTCA GCTA	59.9	516	INTERGENIC	--	--	--
Ca1_P2_2132014	Ca1	2132014	G/GTGC	CATGGATGGTTAGCCC AAAG	AATGACCAACCCACAA GTGC	60.8	107	INTERGENIC	--	--	--
Ca1_P2_2135161	Ca1	2135161	AGTGTG/AGTGTGTG	AGAATTTACTCCACGTC CCG	TGAACCTCGTCATGT AATTCT	59.6	437	INTERGENIC	--	--	--
Ca1_P2_21595611	Ca1	21595611	TTATATATATATATATATATATATATA TATATATATATATATA/TTATATATATATA TATATATATATATATATATATATATAT ATATA	GGCATTATGGTCACCC ACTT	TGCAAGTCCGTAGGA CGAA	59.3	512	INTERGENIC	--	--	--
Ca1_P2_21653919	Ca1	21653919	TTATATATATATATATATATATAT/TTA TATATATATATATATATATATATAT	GCTTGCAAAACAGATG CAGA	ACGAAACGAAAGCGAG AAAA	60.0	536	INTERGENIC	--	--	--
Ca1_P2_2169507	Ca1	2169507	ATT/ATTT	TCGCTGAAAAAGAAAG GTGA	ATGTAGGTGATGGGAT GGGA	60.0	509	DRR	Ca_00273	Z	--

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								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_21725211	Ca1	21725211	AATATATATATATATATATATATA/AAT ATATATATATATATATATATATA	TTGCTTTTGGGTACTT GGG	TTTCCATTCAAATTTAC TCCTCAA	59.1	387	INTERGENIC	--	--	--
Ca1_P2_21746056	Ca1	21746056	AC/ACACATATCAGCTTTC	CTATTGCCCTCCTCC TAC	TACCGATACCTCCAAG TGCC	60.0	585	INTRON	Ca_22116	S	--
Ca1_P2_21772275	Ca1	21772275	CATATATATATATATAT/CATATATATAT ATATATATAT	CTTTGTCTCCCATCC TCA	AAAAGTGAGACGAAAA AGTTGTCC	60.1	342	DRR	Ca_22115	--	MYB
Ca1_P2_21801995	Ca1	21801995	T/TTTCTACTACATCTTA	CTGGAACACCGATT CACT	TTGGTTTGGAGCTAGC TTGG	60.4	694	INTERGENIC	--	--	--
Ca1_P2_21852841	Ca1	21852841	CAAAAA/CAAAAAA	CTTTGCGTTTCCGTGA TTT	GGACCAATGGTCAAT GAAT	59.5	589	INTERGENIC	--	--	--
Ca1_P2_21862084	Ca1	21862084	ATT/ATTT	CGTATGTTCTCCAGAC CTG	TGTTTTGAATTGCATC GAGA	59.3	941	INTERGENIC	--	--	--
Ca1_P2_21918405	Ca1	21918405	AAAGAAGAAGAAGAAGAAGAAGAA GAAGAAGAAGAAGAAGAAGAAGAA GAAGAAGAAGAAGAAGAAGAAGAA AGAAGAAGAAGAAGAAGAAGAAGA AGAAGAAGAAGAAGAAGAAGAAGA AGAGAAGAAGAAGAAGAAGAAGA	TGTCAGTCACAGATAG CGGC	GCTGCGAATAGCACCC TAAC	59.9	682	INTRON	Ca_22107	P	GRAS
Ca1_P2_21974667	Ca1	21974667	T/TCCTTA	GTTGGGATTGAGGT GATG	TGGAATCCCGTAGT ACAAA	59.6	340	INTERGENIC	--	--	--
Ca1_P2_21999732	Ca1	21999732	AGGGGG/AGGG	CGCCTTTGGCTATTCAT CAT	TCCCTTATTGCCCAAC ATC	59.8	492	DRR	Ca_22101	R	MYB
Ca1_P2_22086077	Ca1	22086077	ATATTTATTTATTTATTTATTTATTT AT/ATATTTATTTATTTATTTATTTA TTTATTTAT	TCGACCCCTACTTATA CCG	CCGTGGTAATTTTTC CGTA	59.7	581	INTERGENIC	--	--	--
Ca1_P2_22100599	Ca1	22100599	ATATATATATAT/A	ATGTGTGAGAAAACCTC GGC	TGTCCAGCTTCATTCAA CCA	60.2	574	INTERGENIC	--	--	--
Ca1_P2_22131328	Ca1	22131328	AATATATAT/AATATATATAT	GTGTGGACATGCCTAA AACG	GTTGCAATTGAGGTGC TGAA	59.8	403	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_22131513	Ca1	22131513	GAAAA/GAAAA	GTGTGGACATGCCTAA AACG	GTTGCAATTGAGGTGC TGAA	59.8	403	INTERGENIC	--	--	--
Ca1_P2_22132039	Ca1	22132039	G/GC	GGATGGTAGTTCAGCA CCTCA	GAGCATTAGTGCTTGG CACA	60.0	774	INTERGENIC	--	--	--
Ca1_P2_22133403	Ca1	22133403	CTTT/CTT	GCTGTAGCCAAGGAAT AGCG	CATCCCTTGAGTGGGT TTTG	60.3	731	INTERGENIC	--	--	--
Ca1_P2_22159776	Ca1	22159776	ATTTTTTTTTT/ATTTTTTTTTT	TGTTTCGAAAGTTTGGC CTT	TAAGGGAAAGCCTCCT CCAT	60.0	333	INTERGENIC	--	--	--
Ca1_P2_22188648	Ca1	22188648	AATATATATATATATATATATATAT ATAT/AAATATATATATATATATATAT ATATAT	TTTTGGTGCTTTACATT TTCAA	CAATAGCCGGCTCTAA ATCG	59.8	128	INTERGENIC	--	--	--
Ca1_P2_22204494	Ca1	22204494	TTATATATAT/TTATATATATAT	CTCACATGCCATAGCT GCAT	TTTAGTAAATCCAAATG GGCA	57.2	952	DRR	Ca_20635	--	TALE
Ca1_P2_2223979	Ca1	2223979	TATAATAATAATAATAATAATAATA TAATAA/TATAATAATAATAATAATA ATAATAATAATAATAA	AATAGGTCAGGCCAGG CTTT	TATGGATGGGAATAGG CTCG	59.9	659	INTERGENIC	--	--	--
Ca1_P2_22270085	Ca1	22270085	TAAA/TAAAA	CAAGGACCAACTCGAG GAAA	TATGCAATTGGGATGA ATGC	59.3	659	INTERGENIC	--	--	--
Ca1_P2_22287070	Ca1	22287070	TA/TAA	ACTCGACTGGTGGCTG AACT	GTGTTGATCGGATAA CGGT	59.8	675	INTERGENIC	--	--	--
Ca1_P2_22384776	Ca1	22384776	G/GAACAAGTGTGT	CTTCAGATCCTTGAGCT GCC	TGAATCTTTGTGTCCCA CCC	60.8	539	INTERGENIC	--	--	--
Ca1_P2_2239989	Ca1	2239989	AATATATATATATATATATAT/AAATAT TATATATATATAT	ATGGTGGAACACAAC TTGA	TGGTTTTGATTGTAGCT TTCC	59.2	775	DRR	Ca_00280	I	--
Ca1_P2_22401909	Ca1	22401909	GTATTATTATTATTATTATTATTATT ATTATTATTATTATTATT/GTATTATT ATTATTATTATTATTATTATTATTAT TATTATT	TAGCGGAAATTTTGTGC CTT	GTTCAACGGTGTTTTC GCT	60.2	494	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_22965842	Ca1	22965842	TCACA/TCA	TAACAAGAGCTCGGCA ACCT	TTGTCGGATTAGTGAT GCCA	60.1	456	INTERGENIC	--	--	--
Ca1_P2_2299530	Ca1	2299530	AATATATATATATATATATATATAT A/AATATATATATATATATATATATA TATATA	CAGCAACTGCGATGAG ATGT	TCACGGCGAGTCAATA AAAA	59.3	835	DRR	Ca_00288	R	--
Ca1_P2_23003159	Ca1	23003159	GAAAAAAAAA/GAAAAAAAAA	TGCGCGCTTGTATACT TGT	ATGACATGCTGCAAGC GATA	60.4	510	INTERGENIC	--	--	--
Ca1_P2_23075722	Ca1	23075722	CAATAATAATAATAATAATAATAA ATAATAATAATAATAATAATAA AAT/CAATAATAATAATAATAA AATAATAATAATAATAATAATAA TAATAATAAT	TCATTCATACGACGAAT GTGC	GGCCATAAACATTGGA TTGC	60.2	414	INTERGENIC	--	--	--
Ca1_P2_23116761	Ca1	23116761	AATATATATATATATATATATATAT ATATATA/AATATATATATATATATATA TATATATATA	TTGATGATCCAACGGTT CAA	ATCATCCGCAAACTG GTTT	59.9	863	INTERGENIC	--	--	--
Ca1_P2_23192284	Ca1	23192284	TTAATAATAATAATAATAATAA AATAATAATAATAATAATAA /TTAATAATAATAATAATAATAA AATAATAATAATAATAATAA TAATAA	TTCGAACTTTTGCCCA CTT	TTGATTTTGCCACAT TTT	60.2	527	INTERGENIC	--	--	--
Ca1_P2_23226713	Ca1	23226713	AATATATATATATATATATATATAT ATATA/AATATATATATATATATATA TATATATA	AAAAGTACGCGACCGT TTTG	GCCTTTGTGCTTCCCA TAAA	60.1	710	INTERGENIC	--	--	--
Ca1_P2_23250478	Ca1	23250478	CAAGAAG/CAAG	TTGGTTTCATGACCTGC ATC	CGGCCGTTTCTAACAT CATT	60.0	351	INTERGENIC	--	--	--
Ca1_P2_23304825	Ca1	23304825	CATATATATATATATAT/CATATATAT ATATATATATATAT	CCATTACGTGCAACCA GAAA	TGACCTGCGTCCATAA ATCA	60.1	928	INTERGENIC	--	--	--
Ca1_P2_2336589	Ca1	2336589	TCCTGCNNNNNNNNNCCTGC/TCCT GC	GATGCCTTTCCATTGTG CTT	TTTTCCATCAAAATCCC CAA	60.1	662	INTRON	Ca_00294	A	--
Ca1_P2_23386171	Ca1	23386171	GTTATTATTATTATTATTATTAT TATTATTATTAT/GTTATTATTATTAT TATTATTATTATTATTATTATTAT	ACAAGAATGGCAAATG GAGC	TTTGCCCACTAACTCT TGG	60.1	537	INTERGENIC	--	--	--
Ca1_P2_23422424	Ca1	23422424	ATTTTTTT/ATTTTTT	AACATCACTCAAGCGCA CAT	TAGCGTTGATGGAATC GTGA	60.2	548	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_26219980	Ca1	26219980	TGGGGG/TGGGGGG	CCATGGTGTGAAGT GCTA	AAACACGAGAAGGGG AGTT	60.0	561	INTERGENIC	--	--	--
Ca1_P2_26230776	Ca1	26230776	CAAA/CAA	ATCAACGCACATAACAC CCA	CCCTCCTTCTCCATT CTC	60.0	517	INTERGENIC	--	--	--
Ca1_P2_26263650	Ca1	26263650	ATATTATTATTATTATTATTATTA/AT ATTATTATTATTATTATTATTA	TCACCAACAAGATCGT GAA	CCAAGCCCAATATCCA ACAT	59.6	780	INTERGENIC	--	--	--
Ca1_P2_26267110	Ca1	26267110	TA/T	CCGAGCATATGTGTGC GATA	TTACAGAAGTTTCGTCC CCG	60.1	318	INTERGENIC	--	--	--
Ca1_P2_26358637	Ca1	26358637	TTTTAGT/TTTTAGTTTAGT	TGTGTTTCATCCTTTCCA CCA	GGGTTCAACTTCAAAA GCCA	60.1	754	INTRON	Ca_18604	U	LSD
Ca1_P2_2655089	Ca1	2655089	TG/T	CGGACTAGTTATTTC ACGC	TCCAAAACGCGAAAGG TTAC	60.1	574	INTERGENIC	--	--	--
Ca1_P2_2655633	Ca1	2655633	AGG/AG	TCCGTGGAATGAACC TAGC	CATGGACTCAAAACA GCCA	59.7	812	INTERGENIC	--	--	--
Ca1_P2_26577309	Ca1	26577309	TTATATATATATATATATATATA/TTAT ATATATATATATATATATATATA	TACCATTGATGCCAAA CCA	GCTGGAAGTTGACCAC CAAT	60.0	508	INTERGENIC	--	--	--
Ca1_P2_2658146	Ca1	2658146	T/TCAATTTC	GTGGGAAAGTTTGGTG ATGG	TTCCGAACAATAAATG GCA	59.0	684	INTERGENIC	--	--	--
Ca1_P2_26589205	Ca1	26589205	ATTTTTTTTT/ATTTTTTTT	TTCCTAACATTCTCCGC TGG	TGATGTTGCATCAACC ATTTT	58.9	168	INTERGENIC	--	--	--
Ca1_P2_26592081	Ca1	26592081	C/CTGACAGTGA	ACACACAAATTTGACC GCA	GCAATTTTCTCCAATTG CGT	60.1	801	INTERGENIC	--	--	--
Ca1_P2_2660856	Ca1	2660856	ATTCTTT/A	TCGTCGTTGTCCATGTT GTT	GAGTTTGAAGAAAAAC GGCG	59.9	183	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_26617808	Ca1	26617808	TTATATATATATATATATATAT/TTA TATATATATATATATATATATAT	TCAATTGAGTTGCGAC GAAG	GAAGAATGAGTTTCGC GAGG	60.0	278	INTERGENIC	--	--	--
Ca1_P2_2662211	Ca1	2662211	AATATA/AATA	CTCTGCACTCGAACAC GCTA	TTTGCTCTCCCACTCC CAC	60.1	345	INTERGENIC	--	--	--
Ca1_P2_2663715	Ca1	2663715	TGAAAAGAAAA/TGAAAA	GTTGCCATGCCTATAAC GGT	TGAAGACCATGGACAC CAAC	59.4	547	INTERGENIC	--	--	--
Ca1_P2_2664699	Ca1	2664699	TGG/TG	CCAAAAATTGATGAATT GACGTT	CCCATTCTCAAGTTGC CTC	59.7	648	INTERGENIC	--	--	--
Ca1_P2_26683611	Ca1	26683611	TG/T	CAATTGTGTAACCGTG CGG	TTGCATTGGTTTGACT CCA	60.1	538	INTERGENIC	--	--	--
Ca1_P2_2669959	Ca1	2669959	TAAAAAAAAAAAAA/TAAAAAAAAA	GAGGCACATAGCAGCA CAAA	AGCCAGATATCAGACC GCAC	60.2	818	DRR	Ca_00327	--	ERF
Ca1_P2_26720249	Ca1	26720249	A/AAT	ACATGCTTTTGGCCTTT TTG	TATTGTGACCGCAAT CCAA	59.9	833	INTERGENIC	--	--	--
Ca1_P2_26725325	Ca1	26725325	CTATATATATATATATATAT/CTATATA TATATATATATAT	AATTAGCAGCGGAAGG AAAG	GCATCACAGTTAAATCA TCGC	58.3	352	INTERGENIC	--	--	--
Ca1_P2_2674516	Ca1	2674516	CTAGATTGGAT/CTAGATTGGATTAGAT TGGAT	TGTCGGAATATGGGAA GCTC	GCCGTTGTTTTTCAGAT CCAT	59.9	934	INTERGENIC	--	--	--
Ca1_P2_2675683	Ca1	2675683	AG/AGG	TCAAACATCACACACA CAAACA	ACCAACCGGATGCACA TAAC	60.6	309	INTERGENIC	--	--	--
Ca1_P2_26761299	Ca1	26761299	AT/ATTATTATTTT	CCGATACTGGTTCATT TCCA	GACGTGGTTAGAAGGG GGAT	60.2	458	INTERGENIC	--	--	--
Ca1_P2_2676429	Ca1	2676429	CAAATA/CAAATAAATA	TGGAATTCACCAATTA CCCA	TGTCAAACGAATCCGA AATG	59.5	347	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_26774824	Ca1	26774824	TCTTTCCNNNNNNNNCTTCC/TCTTCC	TTGCACCTTCTTAGCA CCT	ACAATGAGTCGTCGCA CAAA	60.3	212	INTERGENIC	--	--	--
Ca1_P2_26810976	Ca1	26810976	ATTTTTTTT/ATTTTTTTTT	TTGTCGGGTTGTGACA AAAA	CCAAAATCTTTGGGG ATCA	59.7	425	INTERGENIC	--	--	--
Ca1_P2_26866750	Ca1	26866750	ATTTTTTTTTT/ATTTTTTTTTT	TCTCAGTGGAACGAA CCC	TCTCCACCATCTTCCTC TTCA	59.8	679	INTERGENIC	--	--	--
Ca1_P2_2686857	Ca1	2686857	TG/T	AATGTGATGCACGTTT GGA	CAAATTCACGCAACAA TCG	60.1	444	DRR	Ca_00328	--	MIKC
Ca1_P2_2686910	Ca1	2686910	AGTATTTGGGT/AGT	AATGTGATGCACGTTT GGA	CAAATTCACGCAACAA TCG	60.1	444	DRR	Ca_00328	--	MIKC
Ca1_P2_26876468	Ca1	26876468	C/CG	TTGTGCATCCGTCTATC CAC	TCGGTGGAATTGTAA TGAGAG	59.1	937	INTERGENIC	--	--	--
Ca1_P2_2692135	Ca1	2692135	AC/ACCTC	ACAATGCCATTTTCAAG GCT	CGTGAAGACTAAAGGT CAGAAAAA	59.0	532	DRR	Ca_00330	--	--
Ca1_P2_2693052	Ca1	2693052	CT/CTT	CAACCAGTAATAATGCG CCA	CGTGACAGAGGACGCT TGTA	60.0	468	DRR	Ca_00330	--	--
Ca1_P2_2694120	Ca1	2694120	AATAT/AAT	TTTTGGTGCACATGTC GAT	TCACCAATTGTCAAAG GCA	60.1	190	INTRON	Ca_00330	--	--
Ca1_P2_26958726	Ca1	26958726	GTTT/GTTTT	TGAGCGTGAAAAATTGT GGT	CCGACCAATAGACTTTT GTTGA	59.1	204	INTERGENIC	--	--	--
Ca1_P2_26982272	Ca1	26982272	ATTTTTTTTTT/ATTTTTTTTTT	GGTCCATCAAATGTTGT GGTT	TTACCCCGAATGTTT GTTT	59.2	792	INTERGENIC	--	--	--
Ca1_P2_26997237	Ca1	26997237	TAAA/TAA	TCTTGGGGGAATTGTT GTAA	ATTAACCCAGCCACACA GGC	60.0	392	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_2702474	Ca1	2702474	CTT/CTTATT	CTGGCAGCATTGTTGTT GTT	ACTTCCTCCACCACCA CTG	60.0	228	CDS (large-effect mutations)	Ca_00331	--	--
Ca1_P2_2703175	Ca1	2703175	AA/AAGA	AATTGGCTGTCTCTGG CAGT	TGGCTTCCACAAAGA GTCC	60.2	555	INTERGENIC	--	--	--
Ca1_P2_27113847	Ca1	27113847	ACCT/ACCTCCT	CACGAGAAACGGCAAA AGAT	ACGCGAATTAAGATTG CGTA	58.5	580	INTERGENIC	--	--	--
Ca1_P2_27118318	Ca1	27118318	CAAA/CAA	CGAACATGGTTCGTGA ACTG	TTTGTCTACCAACACCC CTT	59.5	537	INTERGENIC	--	--	--
Ca1_P2_27132468	Ca1	27132468	TGAA/T	AAAAAGTGGCGGTTCA CAAC	GATTGTGATGGGAGCT GGTT	59.9	928	DRR	Ca_20310	KR	--
Ca1_P2_27139492	Ca1	27139492	ATTTTTTTTT/ATTTTTTTTTTTTT	GTGCAGCATAGGTTGC TTGA	GAAATTAAGTTAAGGG ACCGCA	59.5	190	INTERGENIC	--	--	--
Ca1_P2_27143610	Ca1	27143610	AATATATATATATATATATATATAA ATATATATATATATATATATATATA TATATATATA	GTTCAATCAATACTCGG CGG	GGCATCTTTGATCAAT GGTCTT	60.3	681	INTERGENIC	--	--	--
Ca1_P2_27196096	Ca1	27196096	GAA/GAAA	TCGTGTGCTCCAAATCC ATA	CGGGGGAACCTTGGA TTTT	60.0	886	INTRON	Ca_26748	S	--
Ca1_P2_27204677	Ca1	27204677	C/CT	GCCGAAGTACCAATTAC CGA	TACGGTGCTAGGGAAC CAAC	60.0	705	INTERGENIC	--	--	--
Ca1_P2_27219220	Ca1	27219220	GTTATTATTATTATTATTATTATTAT TATTATTA/GTTATTATTATTATTATT ATTATTATTATTA	TGAGGGAGATATTTGG TGGG	TACGGCGCTGTTCTTT TCTT	60.0	277	INTERGENIC	--	--	--
Ca1_P2_27282873	Ca1	27282873	GTATA/GTATATA	AAAATCCAACAATCTCC CCC	CCCTGAGACTCACGAA GAGG	60.0	561	INTERGENIC	--	--	--
Ca1_P2_2729433	Ca1	2729433	ATTTTTTT/ATTTTTTT	ACAGAATCAAAAGCATG GGG	TTCATTCCACTTCCACC TCC	59.9	740	INTRON	Ca_00335	O	MYB

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_27320145	Ca1	27320145	GAAAAAAAAA/GAAAAAAAAA	GAACTTCGGTGCCAT CATT	CGGTCACAGAGAGGAA GAGG	60.0	616	INTERGENIC	--	--	--
Ca1_P2_27335479	Ca1	27335479	CATATATATATATATATATATATAT/C ATATATATATATATATATATATAT	TGAAGAAGCTGAAGGG GAAA	TGAGTGATGTGATGTG CGAA	59.8	138	INTERGENIC	--	--	--
Ca1_P2_27335704	Ca1	27335704	AATATATATATATATATATATATAT ATATATATATAT/AATATATATATATAT ATATATATATATATATATATAT	TGAAGAAGCTGAAGGG GAAA	TTGATCAAACTGCGAA GACCC	59.0	453	INTERGENIC	--	--	--
Ca1_P2_27344175	Ca1	27344175	GTATATATATATATATATATATATATA TATATATAT/GTATATATATATATATAT ATATATATATATATATATATAT	CTCATTGCCCATTTGTC CTT	AGGGAGGTCACCTCAAG CAGA	60.0	528	INTERGENIC	--	--	--
Ca1_P2_27431047	Ca1	27431047	CCACA/CCACACA	TCCCAACTACATCCACC CAT	CTGATTGCTGTTGGCT TGAA	60.0	823	INTRON	Ca_25064	D	--
Ca1_P2_27597497	Ca1	27597497	G/GTGT	AAAATCCAACATCTCC CCC	CCCTGAGACTCACGAA GAGG	60.0	559	DRR	Ca_25069	--	--
Ca1_P2_2762433	Ca1	2762433	T/TC	TATTGGACAAACGAAG GGC	TGGAAGGATGGATGCT TAGG	60.0	126	INTERGENIC	--	--	--
Ca1_P2_2766077	Ca1	2766077	CTTATGTT/CTTATGTTATGTT	AAAACAATTGATTGGGC TCC	CCAATCATACGCAGGT GAAA	59.5	561	INTERGENIC	--	--	--
Ca1_P2_2767121	Ca1	2767121	GTTTAA/GTTTAATTTAA	TGATGAGGTGCATGGT TTGT	CAGAAAGCGGGACCAA TTTA	60.1	177	INTERGENIC	--	--	--
Ca1_P2_27715858	Ca1	27715858	AATATATATATATATATATATATAT ATATAT/AATATATATATATATATATAT ATATATATAT	TGATTGAAGATCTCAA CGGT	TTGAGAGGATTTTCG CTCAT	58.9	686	INTERGENIC	--	--	--
Ca1_P2_2789005	Ca1	2789005	TTATTTAT/TT	AACGAAGCGCTTTGAC CTAA	GCACTATGCTCGCCCT AAAT	59.3	189	INTERGENIC	--	--	--
Ca1_P2_27894626	Ca1	27894626	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	TCGGACAACAACGACG ATAA	ACGACATTTATACCGT GGGC	59.7	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_2790553	Ca1	2790553	AATA/AA	TCCCAATAAAAGAGAA ACCCA	TGCACATCAATGAAACA CCC	60.4	759	INTERGENIC	--	--	--
Ca1_P2_2790615	Ca1	2790615	TAAAAAAA/TAAAAAAA	ATTTTGAAGCTGTTGT CAATT	TGCACATCAATGAAACA CCC	60.4	628	INTERGENIC	--	--	--
Ca1_P2_2791646	Ca1	2791646	TT/TTTTAAT	ATCGAAAGCAACCATTT TGG	TTGTGGTGGTTCTTTG TTGG	59.4	869	INTERGENIC	--	--	--
Ca1_P2_2796096	Ca1	2796096	ATAAATTAA/ATAA	TACTATCCAATTCGCGG TGG	TCCCAATCAAACCTCA TCC	59.7	111	INTERGENIC	--	--	--
Ca1_P2_2796283	Ca1	2796283	T/TG	GGTGGACAGAGGCATC AACT	AAAAAGCGAGTTTCAG GGTG	59.4	530	INTERGENIC	--	--	--
Ca1_P2_2796306	Ca1	2796306	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATATAT ATATATATATAT	GGTGGACAGAGGCATC AACT	AAAAAGCGAGTTTCAG GGTG	59.4	530	INTERGENIC	--	--	--
Ca1_P2_2797326	Ca1	2797326	A/AC	CCCTGTAATTTCAGACA CAATCG	AAATAGTTGACAAACC GCCG	60.0	272	INTERGENIC	--	--	--
Ca1_P2_2800448	Ca1	2800448	ATTTTTTTTT/ATTTTTTT	GAGAGCAAGAGCGAGC AAGT	ACCACATGAGGGGCAT TTTA	60.2	439	INTERGENIC	--	--	--
Ca1_P2_2800724	Ca1	2800724	TTTT/TTTTTTTATTT	GAGAGCAAGAGCGAGC AAGT	TCCATTTTCTCCTTCAA GCG	60.3	754	INTRON	Ca_00344	--	NAC
Ca1_P2_28010764	Ca1	28010764	A/ACTAG	TGAGACCGAGCTTTTGT GTG	GCAAACTTGGTGGTC CAGT	60.0	557	INTERGENIC	--	--	--
Ca1_P2_28011021	Ca1	28011021	CAAAAA/CAAAAAA	TGAGACCGAGCTTTTGT GTG	GCAAACTTGGTGGTC CAGT	60.0	557	INTERGENIC	--	--	--
Ca1_P2_2802455	Ca1	2802455	ATTTTT/ATTTT	GGGTTACAGACCGACC TTGA	GCGGATTTGTCCATCT TTGT	59.9	765	DRR	Ca_00344	--	NAC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_28074634	Ca1	28074634	CAATAATAATAATAATAACAATAATA ATAATAATAATAATAATA/CAATAA TAATAATAATAATAACAATAATAATA ATAATAATAATAATAATA	TTGCAAAGCCCAAAAG AGT	ACCCGTTCTGTGTTT CTG	60.0	489	INTRON	Ca_18523	U	LSI
Ca1_P2_28170518	Ca1	28170518	AATATATATATATATA/AATATATATAT ATATA	CGCGTGTAAACAAGAC CTTT	ATACTTGTGGTGCAT CCGT	60.4	437	INTERGENIC	--	--	--
Ca1_P2_28239060	Ca1	28239060	TTATATATATATATA/TTATATATATAT ATATATA	GTCTGGGAAAAATGAG TCGC	CCACCGTTGGCTGTAA TTTT	59.9	568	INTERGENIC	--	--	--
Ca1_P2_2827577	Ca1	2827577	TTC/T	TGCAATTCATACTCAA ATCTTCA	AGATCTGTTGGAGGTG GTGG	60.0	505	INTERGENIC	--	--	--
Ca1_P2_2828962	Ca1	2828962	TAATAACAATAA/TAATAA	ACCACGTTTTACATGCG TCA	TTTAGCCGTGTCAATG AATTT	57.3	483	INTERGENIC	--	--	--
Ca1_P2_2831499	Ca1	2831499	GTTTTTTTTTTTT/GTTTTTTTTTTTT	CCTCTGACCACATGGG ACTT	TCAAAAACAAAAGCGC ACTG	60.0	625	DRR	Ca_00347	--	ARF
Ca1_P2_28322869	Ca1	28322869	GAAAAAAAAA/GAAAAAAAAA	GAGAACACAACCTTGAC CCAAA	GTTACCAGCCCATCAA TGCT	60.0	376	INTERGENIC	--	--	--
Ca1_P2_2837552	Ca1	2837552	TTCTCTCTCTCTCTCTCTCTCT/TTCT CTCTCTCTCTCTCTCT	CAGCACAGCATGCCA TAGT	TGCATCTGTTCTGCTT CAC	60.0	671	INTERGENIC	--	--	--
Ca1_P2_28398850	Ca1	28398850	GTTTTTTT/GTTTTTTT	TTTTGCCCTATTGGTGG AAG	TCCTTCTCATTTTCCCC CTT	59.9	667	INTRON	Ca_18514	A	--
Ca1_P2_28449282	Ca1	28449282	ACGAATATTTCCGAATATTTCCGAAT ATTT/ACGAATATTTCCGAATATTT	TGGATTGGTTGAAGGA GGTC	CTGTGCTACTGGCGTC ACAT	59.9	695	DRR	Ca_18508	--	--
Ca1_P2_2850106	Ca1	2850106	ATTTT/ATT	TAGGTGGGCTCTCAT TGTC	GTTTCTCCATGCGCAA AAAT	60.1	902	INTERGENIC	--	--	--
Ca1_P2_2851127	Ca1	2851127	TAT/TATAAT	TGTCGTTTTCAATGGAC TGG	AGAGAGTATGGGGCAG TCAAA	58.8	226	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_28550132	Ca1	28550132	ATTTTTTTTT/ATTTTTTT	TGGAAGCACGCTTAAG GACT	TTTCCAATCGATTTC TTC	60.0	664	INTERGENIC	--	--	--
Ca1_P2_28550236	Ca1	28550236	T/TG	CTGACACAGGGGAGAA AAAA	TTTCCAATCGATTTC TTC	60.0	159	INTERGENIC	--	--	--
Ca1_P2_2862848	Ca1	2862848	A/AG	TAATGGCCAAATTCTCT CCG	GCTTTCACCAATCCAC GTT	60.0	691	INTRON	Ca_00348	R	--
Ca1_P2_2862989	Ca1	2862989	CAA/CA	TAATGGCCAAATTCTCT CCG	GCTTTCACCAATCCAC GTT	60.0	691	INTRON	Ca_00348	R	--
Ca1_P2_28638034	Ca1	28638034	ATATTATTATTATTATTATTATT ATTATTATTATTATT/ATATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATT	TGGCAGGAAATGTTGT GTGT	TTTCGTTTTGCCAATCAT CAA	60.1	597	INTERGENIC	--	--	--
Ca1_P2_2866655	Ca1	2866655	CTTT/CTTTT	ATTGATTGCAAGCACAA CCA	CCTCCAAAGAAACGAA TGGA	60.0	806	DRR	Ca_00348	R	--
Ca1_P2_2867577	Ca1	2867577	AGGG/AGGGG	AATGGGAATGAGAAA GGGG	CGAATGTTATGGATCC TCTGC	59.5	541	DRR	Ca_00348	R	--
Ca1_P2_2867984	Ca1	2867984	AAT/AATGAT	ATGAGAAAGGGGAAGA GGGA	AAGGGGTGAACAGTGA GGTG	60.0	646	INTERGENIC	--	--	--
Ca1_P2_28703262	Ca1	28703262	CATATATATATATATAT/CATATATAT ATATATATATAT	CCGAGCCAAAATCCAAA ATA	TACTGGAACGAACACC ACCA	60.0	609	INTERGENIC	--	--	--
Ca1_P2_28713213	Ca1	28713213	TTA/TTAGAAAGAGTGTA	TTCATTCTCTGATTCC CCG	TCCGCATTATAACCTCT GCC	60.1	425	INTERGENIC	--	--	--
Ca1_P2_28826704	Ca1	28826704	CATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTAT/CATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTAT	TGCAGAGCACGCTGTA TATTG	TAATTCATGCGACCAC CAA	59.9	944	INTERGENIC	--	--	--
Ca1_P2_2885377	Ca1	2885377	ATTTTTTT/ATTTTTTTTT	GCCATTGTAACTCCGC AAT	CATTGGAGAGGGCAT AGGA	60.0	360	DRR	Ca_00351	T	M-type

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_28905061	Ca1	28905061	CAAA/CAAAA	GGCAGCTTTGAAACCA ATGT	TAAGAAACGCCAATGC AACA	60.3	165	INTERGENIC	--	--	--
Ca1_P2_2890664	Ca1	2890664	TGG/TG	TGCATGTGTCATGTTGA TGG	CAAAGCACTCACAGGG TTGA	59.9	501	INTRON	Ca_00353	R	C2H2
Ca1_P2_28906702	Ca1	28906702	TAAAAAA/TAAAAAA	TATGGAGAGCAGCGAC TCAA	TGTTGGGTGCACAAC ATTG	60.4	184	INTERGENIC	--	--	--
Ca1_P2_28910299	Ca1	28910299	CATT/CATTAATT	GAAATGATCGGTGGA GGAA	CTTGCCTGTTGCACGA GTAT	59.9	620	DRR	Ca_18486	R	--
Ca1_P2_28910424	Ca1	28910424	TA/T	GAGTCATTGGTGCCCTT GGTT	CTTGCCTGTTGCACGA GTAT	59.9	385	DRR	Ca_18486	R	--
Ca1_P2_28910492	Ca1	28910492	GATTAA/GATTAATTAA	GAGTCATTGGTGCCCTT GGTT	CTTGCCTGTTGCACGA GTAT	59.9	385	DRR	Ca_18486	R	--
Ca1_P2_28911150	Ca1	28911150	TCAC/TC	ATACTCGTGCAACACG CAAG	CGAACAATATTTTGTGT CCCA	58.4	525	DRR	Ca_18486	R	--
Ca1_P2_28911391	Ca1	28911391	T/TGA	TGGGACACAAAATATTG TTCGAT	GCAAAACCGATCTAAG GAAGC	60.2	595	DRR	Ca_18486	R	--
Ca1_P2_28929600	Ca1	28929600	GTTTTTTT/GTTTTTTT	AAATTGGAAGTGGGCAT TTG	TGAAGGCACCATGTCT TTGA	60.2	750	INTERGENIC	--	--	--
Ca1_P2_28930954	Ca1	28930954	A/ATT	TGAAAAGTTTCTTTGTG CCTTTG	TGGTGTTCCTTCAAA TCA	60.1	349	INTERGENIC	--	--	--
Ca1_P2_28935215	Ca1	28935215	ATTTTTTTT/ATTTTTTTTTT	TTTTGTGGCAGTTGT TTG	CAGTCAACATTGATGT GACGTTAT	59.0	490	INTERGENIC	--	--	--
Ca1_P2_28936099	Ca1	28936099	ATTTTTTTT/ATTTTTTTTTT	GAAATTTGACCAGAGCT GCC	TCGGTCACCGTTTTTA GTTT	57.3	465	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_28936233	Ca1	28936233	AT/ATGTAATT	GAAATTTGACCAGAGCT GCC	GGACCAATTACTCTGG TGGA	58.9	650	INTERGENIC	--	--	--
Ca1_P2_28939471	Ca1	28939471	AAAAATAAACAAA/AAAA	CCATGTGTGAACCTAA TTGTT	GTTTGGCGTTGGTTT CACT	60.0	226	INTERGENIC	--	--	--
Ca1_P2_2893987	Ca1	2893987	CT/CTT	TGATCCATGTTTCAATC CCA	AGCCATACACCTCCAC AAGC	60.1	894	DRR	Ca_00353	R	C2H2
Ca1_P2_28941503	Ca1	28941503	CAA/CAAAA	TGGGGTTTAGGGTGTC ACAT	CTTTGTAAAGGCAGC TCCG	60.0	207	INTERGENIC	--	--	--
Ca1_P2_28941877	Ca1	28941877	AA/AATA	TGGGGTTTAGGGTGTC ACAT	TCAATTTGGATTTCTTG GTGG	59.8	847	INTERGENIC	--	--	--
Ca1_P2_28943560	Ca1	28943560	GG/GGTG	ACTTGGGACAAATCACA TGG	TGATCACCAGCTTCC AATG	59.6	252	INTERGENIC	--	--	--
Ca1_P2_28944496	Ca1	28944496	TTATATATAT/TTATATAT	TTGGCACCAGACTTCAT ATTG	AAATGTACTTTGCGGC ACAT	58.2	775	INTERGENIC	--	--	--
Ca1_P2_28944803	Ca1	28944803	AACTA/AA	TTTCAATTGCATTAATC CGTTC	CAATAAAATTGCGGTC CGA	60.8	963	INTERGENIC	--	--	--
Ca1_P2_2897109	Ca1	2897109	AA/AAATA	TGCTGCTTCTTTCCAG GTT	TTCAGGGCTTGTAGG GATGA	59.5	467	INTRON	Ca_00354	--	bHLH
Ca1_P2_2901135	Ca1	2901135	TTCTGAGAAAGTTATCT/TTCTGAGAAA GTTATCTGAGAAAGTTATCT	AGCTTTCCAGAAAATC AGC	GCACATTTACAGTTGG GGCT	60.0	565	INTRON	Ca_00354	--	bHLH
Ca1_P2_2904188	Ca1	2904188	TG/T	AGGAAGCAGGTGTAGG GGAT	ACACGGAAGTTGTTT CCTG	60.0	602	DRR	Ca_00354	--	bHLH
Ca1_P2_29061700	Ca1	29061700	TTATATATATATATATATATATATATA TATATATATA/TTATATATATATATATATA TATATATATATATATATATATA	AGATGATCGACCACTTT GGG	GCTTTAGCAACGGAAT GACC	59.7	477	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_2907520	Ca1	2907520	T/TTC	CTGAAGCCTGAAGTA AGGG	ATTGCATGAATGTGGA AGCA	60.1	727	DRR	Ca_00356	U	WOX
Ca1_P2_2911194	Ca1	2911194	CTATGAGTGGTTA/CTA	TGGCTACACTGACAAAT CCCT	GTTTACTTTGGTTCGG GCA	60.0	908	INTERGENIC	--	--	--
Ca1_P2_29124803	Ca1	29124803	ATTT/ATTTT	AGTGGCATTGGGCAAA TTAC	ACCAAATATACGCGTCT GCC	60.0	350	INTERGENIC	--	--	--
Ca1_P2_2914658	Ca1	2914658	TTTTATTTATTTATT/TTTTATTTATT	TGTGATGGTTCATGCA GAAAG	CAGAAAGGTCTGACCC GAAA	60.2	722	DRR	Ca_00357	--	WOX
Ca1_P2_2914725	Ca1	2914725	ATT/AT	TGTGATGGTTCATGCA GAAAG	CAGAAAGGTCTGACCC GAAA	60.2	722	DRR	Ca_00357	--	WOX
Ca1_P2_2915564	Ca1	2915564	GATATATAT/GATAT	TGCAAAAATGGTGT GTG	CATATGGTGAAAAGCG GTGA	59.5	523	DRR	Ca_00357	--	WOX
Ca1_P2_29158614	Ca1	29158614	AGG/AG	TGAGCTTTTAGGTGGC ACAA	TCTCCATCTCTTCTCC ATCA	59.7	145	INTERGENIC	--	--	--
Ca1_P2_2918789	Ca1	2918789	GTTATTATTAT/GTTATTATTATTAT	TTGCAGGCAGGCTTAG ACTT	TTCCATGTTCCCTTTGC TTC	60.1	770	INTERGENIC	--	--	--
Ca1_P2_2920371	Ca1	2920371	TTGATAT/TTGATATATATGGAGGTGAT AT	TCACGTGAGCTATAGC CATAAA	TGACAGCTGAAAGCAC AACC	60.0	245	INTERGENIC	--	--	--
Ca1_P2_2921755	Ca1	2921755	A/ATATG	CAACTGGGCCAAATGC TTAT	TGATGATCACACGAGG GAGA	60.2	570	INTERGENIC	--	--	--
Ca1_P2_2923437	Ca1	2923437	GTCTCTCTCT/GTCTCTCTCTCTCTCTC TCT	TGACATATGAAAAGGG GACCA	TGATGCGATTGTAGTC CCAA	60.1	134	INTERGENIC	--	--	--
Ca1_P2_2927297	Ca1	2927297	A/AG	TCTCTTCCATGGACCAC ACA	GCAAATTCACACAAGAA CATTCA	60.0	794	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_2927323	Ca1	2927323	TG/T	TCATCAATGAGTTAATG CCCC	GCAAATTCACACAAGAA CATTCA	60.0	737	INTERGENIC	--	--	--
Ca1_P2_2932731	Ca1	2932731	AA/AATAGGTTGA	GAATCTGGTTCGCAC TCAT	GATTCCGGTATTTGCC TCAA	59.9	771	DRR	Ca_00358	E	--
Ca1_P2_29343809	Ca1	29343809	AATA/AATATA	AACTTTCGGTGCAAAAC ACC	TGGAATAAACACATG CGAG	59.5	392	INTERGENIC	--	--	--
Ca1_P2_2937855	Ca1	2937855	G/GT	CGGATGGAACAAGTGG AAGT	CGAACTCAATCTTCTAT TCGCC	60.2	933	INTERGENIC	--	--	--
Ca1_P2_2938785	Ca1	2938785	T/TTG	GGCGGATAGACAAAAT CGAA	GTGCGGAAAAGATTGG CACT	60.4	640	INTERGENIC	--	--	--
Ca1_P2_2939062	Ca1	2939062	TGTGA/TGTGATCGGAAGTGA	GGCGGATAGACAAAAT CGAA	GCAACCGTGTGGATAT GTTG	59.8	703	INTERGENIC	--	--	--
Ca1_P2_2943241	Ca1	2943241	TTATATATATATATAT/TTATATATATA T	GGTATTGCATGAGAGG ACCAA	GGTTGGAAGCTCTAAC GTGG	59.7	689	INTERGENIC	--	--	--
Ca1_P2_2944510	Ca1	2944510	CTTT/CTTTT	AATCGCTTACGTCACCC AAC	TGCATATATCATTGCG GTGC	60.5	568	INTERGENIC	--	--	--
Ca1_P2_2945700	Ca1	2945700	GATATA/GATATATA	ATCAAATTGCGTTGGTA GCC	TGGCGATGGATACAG ATAA	59.9	885	INTERGENIC	--	--	--
Ca1_P2_2945955	Ca1	2945955	AACT/A	TACTTGATGATACGCAC GGC	TGGCGATGGATACAG ATAA	59.9	670	INTERGENIC	--	--	--
Ca1_P2_2946069	Ca1	2946069	TA/TAA	ATTCCATCGCCATAGCA TTC	GGGACCAACAAATTC AACAA	59.7	553	INTERGENIC	--	--	--
Ca1_P2_2950691	Ca1	2950691	CCAAG/C	TCACGTGTCTCCTTGCA TTC	CATTCTGCCCAATCCAA ATC	60.3	660	DRR	Ca_00360	--	ERF

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_29587419	Ca1	29587419	AGG/AGGG	TGATGATGCTCTCAAG CAC	AACAAAAGCGAGAAA GCCA	60.0	617	INTERGENIC	--	--	--
Ca1_P2_29613616	Ca1	29613616	TT/TTATTATTAT	AGGTGCAAAAAGGAAT GTGG	ACACAATTGGTGCAAG GACA	60.0	681	INTERGENIC	--	--	--
Ca1_P2_29636835	Ca1	29636835	AA/AAGA	TCACAAATCTCAACCTC CCC	ATCAGTTGGAGCCTGG TTGT	59.6	497	INTRON	Ca_24382	AR	--
Ca1_P2_29637072	Ca1	29637072	GAAAAAAAA/GAAAAAAAAA	ACAACCAAGGCTCCAAC TGAT	ATGCTGCCAGCCTACA AAAT	59.7	503	INTRON	Ca_24382	AR	--
Ca1_P2_2964067	Ca1	2964067	AATTTATTATT/AATTTATTATTATT ATT	TGGACCAAGTGTGGTA TTTAACC	CTGCTAGAACACCGCA TGAA	60.0	368	INTERGENIC	--	--	--
Ca1_P2_2965477	Ca1	2965477	AG/A	ACATGCTGTGATTGG GTCA	AAAGCGAATTTACAGA CGTGG	59.3	873	INTERGENIC	--	--	--
Ca1_P2_2965539	Ca1	2965539	CAAAA/CAAA	ACATGCTGTGATTGG GTCA	AAAGCGAATTTACAGA CGTGG	59.3	873	INTERGENIC	--	--	--
Ca1_P2_2970188	Ca1	2970188	TAAAAAA/TAAAAAA	GCCTGTTTCGTGCATT TCT	GTGAGGGGATGGTGCT CTAA	60.1	608	INTERGENIC	--	--	--
Ca1_P2_29709028	Ca1	29709028	ACC/AC	AAAGATTGTTGAGGC GTGG	GACGAGAATGGAGATG GGAA	60.0	580	INTERGENIC	--	--	--
Ca1_P2_2973113	Ca1	2973113	TATA/TATAATA	TTTGATGTGCGGCAT AGTA	TGTTTGCCAATCACAG CTTC	59.8	281	INTRON	Ca_00361	--	--
Ca1_P2_29738380	Ca1	29738380	GTATATATATATATATATAT/GTATAT ATATATATATATATATAT	TATTTTGATTTTGGCT CGG	AAACCGGTAAATCTC CGCT	60.0	699	INTERGENIC	--	--	--
Ca1_P2_29753388	Ca1	29753388	TTATATATATATATAT/TTATATATATA TATATATATAT	CAACACCGTTTTTCTCC GTT	TTTGGGAGGTTATGGG TGAA	60.2	321	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_29846735	Ca1	29846735	ACT/AATATATATATCT	AGAACGGTTTCTGTCC GTG	TCAACATTGGAAGCA CAAGA	59.3	689	DRR	Ca_24388	--	--
Ca1_P2_29846941	Ca1	29846941	TAAAAAAAA/TAAAAAAAA	TGTTGCCAACTGAAAT CGT	ATACAGACACCGAATG GGGA	60.2	828	DRR	Ca_24388	--	--
Ca1_P2_29847994	Ca1	29847994	TAAAAA/TAAAAAA	TCTTTTCATCAGGCCCA ATC	GGAAAGTGAGGGAACC AATG	59.4	228	INTRON	Ca_24388	--	--
Ca1_P2_29848026	Ca1	29848026	ATGT/AT	TCTTTTCATCAGGCCCA ATC	GGAAAGTGAGGGAACC AATG	59.4	228	INTRON	Ca_24388	--	--
Ca1_P2_29853119	Ca1	29853119	TAA/TA	TCCACGAGATTTTCCTT TGG	TGTCATCATTCTCTGCT GGC	60.0	357	INTERGENIC	--	--	--
Ca1_P2_29853730	Ca1	29853730	GTGGAAGTCT/GTGGAAGTCTGGAAGT CT	TTGCAATCCTAGGTTCA GCC	TATCGCTCGACCTCTG CTTT	60.1	602	INTERGENIC	--	--	--
Ca1_P2_29856647	Ca1	29856647	CTTT/CTTTT	GCATTCCCTGCTCAAG ACTC	AGACAAGGGAGAGTCC CACA	59.7	812	INTERGENIC	--	--	--
Ca1_P2_29857046	Ca1	29857046	GTTTTTTTT/GTTTTTTTTT	TGGTAAACACCCTCTTG GGA	CCTCCCGAGCAATACA CATT	60.0	496	INTERGENIC	--	--	--
Ca1_P2_2993052	Ca1	2993052	ATTTTTTTT/ATTTTTTTTTT	AGCTGCTTCTTGCCATG TTT	GGAAGCAACAGAGAAC AGCC	60.0	534	INTRON	Ca_00363	PET	NAC
Ca1_P2_2993988	Ca1	2993988	AATTATCTAT/AATTATCTATTATCTAT	TATGGGGTAGGGAATG GTCA	CCAAGATAGATCCGAG GAGG	58.7	623	INTERGENIC	--	--	--
Ca1_P2_3001318	Ca1	3001318	CTTT/CTTTT	ATGTGACTTTTGCCAGG ACC	AAACCATGCCAACAT GAAT	60.1	770	INTRON	Ca_00364	A	bHLH
Ca1_P2_3002623	Ca1	3002623	TCA/TCACA	TCTTCATTGATTCCTT CGG	CCAAGCAAGGGAACGT AGAA	60.2	523	DRR	Ca_00364	A	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_3003710	Ca1	3003710	AATATATATATATATATA/AATATATATAT ATATATATATATATA	GAAAGGCATGCAATAT GGGT	AATCTGCCGACGCAAA CTAT	59.7	440	DRR	Ca_00364	A	bHLH
Ca1_P2_30097998	Ca1	30097998	ATTTTTTTTT/ATTTTTTTTTTT	TCACCGGTCGTGATAC AAAA	CGTCTCTGAGGTTCT CGCC	60.0	520	INTERGENIC	--	--	--
Ca1_P2_3016499	Ca1	3016499	ATAA/ATAATTAA	AGTCAATGCATGCCAC GTAA	GCGACTTACCTCCATT CCA	60.1	574	INTERGENIC	--	--	--
Ca1_P2_3016722	Ca1	3016722	ATAAAATTA/ATAAAATTACTAAAATTA	TGGAATGGAGGTAAG TCGC	TTTGATTATGAAGCATT GTCAACAT	59.8	535	INTERGENIC	--	--	--
Ca1_P2_3016741	Ca1	3016741	AATATATATATATATATA/AATATATATAT ATATATATA	TGGAATGGAGGTAAG TCGC	TTTGATTATGAAGCATT GTCAACAT	59.8	535	INTERGENIC	--	--	--
Ca1_P2_3017821	Ca1	3017821	ATTTT/ATTT	TATGAAGCACAATGTG GCCC	CAAATTTGACAAGGC GATTT	59.1	551	INTERGENIC	--	--	--
Ca1_P2_3020023	Ca1	3020023	ATAATATTAATAT/ATAATATTAATATTAA TAT	CAAGCAACATGCTGAA GGAA	TTTAAGCACATCTGGTC AATCA	58.3	237	INTERGENIC	--	--	--
Ca1_P2_3020354	Ca1	3020354	AGG/AGGG	CAAGCAACATGCTGAA GGAA	ATGTCCTTAGTGTCAC GGGG	59.8	808	INTERGENIC	--	--	--
Ca1_P2_30264384	Ca1	30264384	TAAAA/TAAAA	TGTGCAAATAACGCAGA TTC	GGGTTTTATTGCAATCT CATGG	60.5	511	INTERGENIC	--	--	--
Ca1_P2_3032265	Ca1	3032265	TATTTGGAATTTGGA/TATTTGGA	AATTCTCACGCAGCGTT CTT	AACTTCAGCGGAATCC AAAA	59.7	706	DRR	Ca_00369	--	--
Ca1_P2_3033238	Ca1	3033238	CT/CTTT	CCGCTGAAGTTGAAGC AGTA	TCAGTTGCAAAGCCAA ACAC	59.9	758	DRR	Ca_00369	--	--
Ca1_P2_3035970	Ca1	3035970	TTCT/TT	AAGGAAGAAGCGCAAT TGAA	ATCCATCCCCCTCATTC TCT	59.7	463	DRR	Ca_00370	--	ARF

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_30740126	Ca1	30740126	CTGT/CT	TCGGAGCACAACTAC ACAA	ACATTGGCCACCGTTA GAGG	60.0	901	DRR	Ca_22454	OE	WRKY
Ca1_P2_30745547	Ca1	30745547	C/CT	TTTTGGGTTTCCTTT CCC	TGCAATATGTATCGTG GATGG	59.3	817	INTERGENIC	--	--	--
Ca1_P2_3074672	Ca1	3074672	GCAC/GC	CACGAGGTTTGACCTC TTCC	CGTGTGAACATTGATA CACCTCA	60.9	578	INTRON	Ca_00375	--	bHLH
Ca1_P2_3075180	Ca1	3075180	CT/CTTT	GAGGTGTATGAATGTC ACACGTA	CGATCGTCGCATTTTC ATA	59.7	285	INTRON	Ca_00375	--	bHLH
Ca1_P2_3076592	Ca1	3076592	CATA/CATATA	TCGGTCAAGCTACAGA ACCA	ATTCCAGGGACGATG AGTG	59.9	173	INTRON	Ca_00375	--	bHLH
Ca1_P2_30768111	Ca1	30768111	GAAAAA/GAAAAAA	TCCGGTATAAAAGTTT CCG	CCGTTGAAAAACAAC ATGAA	59.5	482	INTERGENIC	--	--	--
Ca1_P2_30769862	Ca1	30769862	TAAAAA/TAAAAAAA	ATGGGTCTTGGAAACA CTCG	ACCAACTCTCCAAGC CACT	61.1	354	INTERGENIC	--	--	--
Ca1_P2_30770184	Ca1	30770184	TAAA/TAAAA	AGTGGCTTGAGGAGT TGGT	CGTTCGGCTTTCTTCT CTG	60.1	535	INTERGENIC	--	--	--
Ca1_P2_3078920	Ca1	3078920	TACACACA/TACACA	CTGCGATTGCATCCCT AAT	TTGAAGATTTGAGTTAC GAATTTGA	59.2	905	DRR	Ca_00375	--	bHLH
Ca1_P2_30790839	Ca1	30790839	TGTAAC/T	TTTTGATGGTTCAACG AGAA	GGTTGAATAATTGAAAA GAGGTGG	60.1	250	INTERGENIC	--	--	--
Ca1_P2_3079517	Ca1	3079517	A/AAATTTTTTG	TCAAATTCGTAACCTAA ATCTTCAA	ATTGCCCCAAGACATTA TCG	59.8	478	DRR	Ca_00375	--	bHLH
Ca1_P2_3081375	Ca1	3081375	TG/T	AGATGGTGACCAGATT GACG	TGCCTCCTATCTCTCC CACA	60.8	683	INTRON	Ca_00376	--	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_3096580	Ca1	3096580	TAAAAA/TAAAAAA	AACATAGCGGAGCATTT TGG	CATGGTAGCCCAATC CAAT	59.6	511	INTERGENIC	--	--	--
Ca1_P2_30968052	Ca1	30968052	AATTATTATTATTA/AATTATTATTAT ATTATTATTA	TGCGATTGTGGGAAT ATCA	ACCAAAATGTCACACA GCGA	60.2	670	INTERGENIC	--	--	--
Ca1_P2_30993040	Ca1	30993040	AAAAATTAATAATAATAATA/AAAAAT AAAAATTAATAATAATAATA	TCCTTCCGATCGAGTA GTGG	AAACATGAAATGGACAA TACAAAAA	58.8	398	INTERGENIC	--	--	--
Ca1_P2_3103121	Ca1	3103121	AT/ATT	GGGTGCAATGCTGGAT TATT	GTTAAGTGAGGTCCGT CCCA	60.0	462	DRR	Ca_00380	--	--
Ca1_P2_31086522	Ca1	31086522	TAAA/TAAA	TATAGGTTGGCACCCA AAGC	GGTTCGCCATATACCA ATGC	60.2	706	DRR	Ca_25826	S	--
Ca1_P2_31090559	Ca1	31090559	CAA/CA	CGCTCGCTCATTGAATA ACA	CTCCACGACCATCCTG AAAT	59.9	417	INTRON	Ca_25826	S	--
Ca1_P2_31095231	Ca1	31095231	TTTATTAT/TTTAT	GATACATTATGCACGCC TCG	TGACGATGGTTTGGG TTTT	60.2	506	INTERGENIC	--	--	--
Ca1_P2_31112808	Ca1	31112808	AC/A	AGGTCAAATCGGGACA ATCA	TGCCATTATCGAAGGC TTGT	60.6	583	INTERGENIC	--	--	--
Ca1_P2_31118424	Ca1	31118424	AC/A	TCGTGTGTCGCACATAA ACA	TGTTACACCACGATTG ACGA	60.0	801	INTERGENIC	--	--	--
Ca1_P2_31130464	Ca1	31130464	AAG/AAGAG	GCAGATTCTCCACAATG GGT	TCCACCCAGATACTG ATGA	59.9	503	INTERGENIC	--	--	--
Ca1_P2_3113687	Ca1	3113687	TTATATATATATATATATATATATA TA/TTATATATATATATATATATA	TTTTGGGACAGATGAAT GGA	GGAATCGAACTCGAGA CTGC	60.0	971	DRR	Ca_00381	--	--
Ca1_P2_3113743	Ca1	3113743	GATATATATAT/GATATATATAT	TGATTACAATCCTTTAA GCACG	GGAATCGAACTCGAGA CTGC	60.0	564	DRR	Ca_00381	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_31141128	Ca1	31141128	C/CA	ATTATTGAGGTTGGCC CTC	TCCACTTTTGTGCTT AGGC	59.4	376	INTERGENIC	--	--	--
Ca1_P2_31162887	Ca1	31162887	T/TG	CCGGGGATTGCCATAT AACT	CTAATAGGCTGCATCG GAGG	59.8	342	INTERGENIC	--	--	--
Ca1_P2_31163466	Ca1	31163466	T/TAGA	ACTTTTGGGAGAAGC ACAT	CGTTCGTCTTTCTCT TGC	60.0	360	INTERGENIC	--	--	--
Ca1_P2_31212342	Ca1	31212342	CTTTTTTTTTTT/CTTTTTTTTTT	GCCAAAATGCCATTAA GGA	TGCCTCCAATATCCTC CAA	60.4	514	INTERGENIC	--	--	--
Ca1_P2_31238518	Ca1	31238518	ATT/AT	CATCGTAAGCATGTGG TTGG	TAATGGCCCATAGCA GAAG	60.1	861	DRR	Ca_21848	R	FAR1
Ca1_P2_3125906	Ca1	3125906	GAAAAA/GAAAAA	GAAATCCACACCATCGA ACC	TGATTCTGTGCCTTAC CCA	59.9	595	INTRON	Ca_00382	--	--
Ca1_P2_31262303	Ca1	31262303	TTA/TTAATA	ATTCTAACCCTCTGCC CAT	TTGAGAATGTGAGGGT GCAA	60.2	788	INTERGENIC	--	--	--
Ca1_P2_3126822	Ca1	3126822	AATAT/AATATATTATTGATAT	TGTTGCTTGGTGTAGG GACA	CCTTAGCCCGTGAGT CTTG	59.9	987	INTERGENIC	--	--	--
Ca1_P2_3130963	Ca1	3130963	G/GTCAACACGGATA	GGTTTTCAAGCCAGAC CAGA	CCCATTTTCTGACAAC CGT	59.8	601	INTERGENIC	--	--	--
Ca1_P2_3131301	Ca1	3131301	TATA/TATACTCATA	GGCCGACTCAGACCT TTCA	ACCCATTTTCTGACAA CCG	59.8	506	INTERGENIC	--	--	--
Ca1_P2_3133490	Ca1	3133490	AATTATATATTATA/AATTATA	CCACATTTGCCACTTT TCA	TCGCCTTTTAAACCAAC CAG	60.1	853	INTERGENIC	--	--	--
Ca1_P2_31354820	Ca1	31354820	AAAG/A	CGGTCTTCTCCACAAA GAGC	TTAAAGGCATCTACCC GTGC	60.1	718	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_31627142	Ca1	31627142	TAAAAAAA/TAAAAAAA	CTTCGAATCCAACCTG GTG	CCGGAACCACATTG ACTT	60.0	892	INTERGENIC	--	--	--
Ca1_P2_31665837	Ca1	31665837	G/GA	TAAAGGGTCTTGCTGT GGG	GGCAAAAGAAATATAG TGCCAAA	59.5	538	INTERGENIC	--	--	--
Ca1_P2_31716302	Ca1	31716302	A/AC	TCGGTATTTGCCATGAG ACA	AAACAACCTTCATGCCT TGG	60.0	482	INTERGENIC	--	--	--
Ca1_P2_31768486	Ca1	31768486	TTATA/TTTTTATATA	ACACATTATATTAATG CGCGA	TGCCAAACGATAGGTT GTTG	59.6	646	INTERGENIC	--	--	--
Ca1_P2_31783442	Ca1	31783442	TGGG/TGG	TGGATTGGGCTGGAAT TAAA	TATAACCGACGAGGGA CGAG	60.1	466	INTERGENIC	--	--	--
Ca1_P2_31783488	Ca1	31783488	AATATATATATATATATATAT/AATA TATATATATAT	TGGATTGGGCTGGAAT TAAA	TATAACCGACGAGGGA CGAG	60.1	466	INTERGENIC	--	--	--
Ca1_P2_31783811	Ca1	31783811	TTAATAATAATAATAATAATAATAAT AATAAT/TTAATAATAATAATAATAAT AATAATAAT	ATACTGCCTTCGATCCG TTG	CGGGAAAAAGGGTGGT AAAT	60.0	477	INTERGENIC	--	--	--
Ca1_P2_31785672	Ca1	31785672	ATTTTTTT/ATTTTTT	GTITTTGGCGTTGGTTTC ACT	TTTTACGTTTCATACGTG AGTTGG	59.1	765	INTERGENIC	--	--	--
Ca1_P2_31803627	Ca1	31803627	TAAA/TAAAA	CTTACGGTGAAGGAGA ACGG	ATCATTCTTTATGCGT TTGACT	57.1	793	INTERGENIC	--	--	--
Ca1_P2_3194081	Ca1	3194081	ACGAATGGTCAG/A	GCAAGGCTTGATTCCA AAAA	GGTTGCACCTTCCATG AACT	60.0	799	DRR	Ca_00390	O	E2F/DP
Ca1_P2_31956113	Ca1	31956113	ATTATATAT/A	TGCTACACGTGCATCAA GGT	TGTTGGATGGCATGTG AGTT	60.0	554	INTERGENIC	--	--	--
Ca1_P2_31956151	Ca1	31956151	TATATATAAT	TGCTACACGTGCATCAA GGT	TGTTGGATGGCATGTG AGTT	60.0	554	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_31995451	Ca1	31995451	T/T/CAC	TGCTTTGAAGACCATG GGA	AAAAGGATTCATGCGT GTCC	59.9	354	INTERGENIC	--	--	--
Ca1_P2_32030892	Ca1	32030892	AATATATATATATATATATATATAT ATATATAT/AATATATATATATATATAT ATATATATATAT	CATGGATGGGTTTTGT CCC	TTGGAAGGAGCCCTTA CCTT	60.1	771	INTERGENIC	--	--	--
Ca1_P2_32037255	Ca1	32037255	CA/CTTGGTCAA	GGGAAAACCTTTTGTG GGA	TTGGCAAATCGATTAG ACTGG	60.1	802	INTERGENIC	--	--	--
Ca1_P2_32037334	Ca1	32037334	CTTTTT/CTTTT	TCCAGTCATGTGGCTTC TCA	CTGAGCTTGTGACCAA ATCG	59.4	559	INTERGENIC	--	--	--
Ca1_P2_32037356	Ca1	32037356	CTTTTT/CTTTT	TCCAGTCATGTGGCTTC TCA	CTGAGCTTGTGACCAA ATCG	59.4	559	INTERGENIC	--	--	--
Ca1_P2_32078246	Ca1	32078246	TA/TAAAAA	CTCGGTTCAACAGGA GAAG	TATGTCAACAACCCCT GGT	60.1	702	INTRON	Ca_26405	--	--
Ca1_P2_32080106	Ca1	32080106	T/TC	TTCCCCATGTCGATCTA AGC	AACCCTGAACAGATTG TCGG	60.0	612	INTRON	Ca_26405	--	--
Ca1_P2_32080183	Ca1	32080183	C/CGGCGATTACT	TTCCCCATGTCGATCTA AGC	AACCCTGAACAGATTG TCGG	60.0	612	INTRON	Ca_26405	--	--
Ca1_P2_3211182	Ca1	3211182	ATTTTTTTTT/ATTTTTTTT	TCCAAGCTGTATCTGG CTCA	CCAAAATCGGATGGAA TATGA	59.6	624	INTERGENIC	--	--	--
Ca1_P2_3213987	Ca1	3213987	TTATATATATATATATATATA/TTATAT ATATATATATATATATATATA	TCGGCAATGTGGTACT GAAA	TTGCAAATGCGACTTTC TTG	60.0	344	INTERGENIC	--	--	--
Ca1_P2_32147043	Ca1	32147043	GTTTTTTTTT/GTTTTTTTTTT	CGGCCTCCAAATCTTTA ACA	TTGTCATGAAAGTCTC GCCT	58.4	670	INTERGENIC	--	--	--
Ca1_P2_32150556	Ca1	32150556	CTTTTT/CTTTTTT	GTTGGTCCCTAGCAC CGTA	TTTTGTTGACAAATCGG ACG	59.6	746	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P2_32150572	Ca1	32150572	TCC/TC	GTTGGTCCCTAGCAC CGTA	TTTGTGACAAATCGG ACG	59.6	746	INTERGENIC	--	--	--
Ca1_P2_32151710	Ca1	32151710	TAAAAAAAAA/TAAAAAAAAAAAAA A	TGAAGGTGTGAGCAGA TTCG	TCGGGTGGAGAATTCC TATG	59.9	593	INTERGENIC	--	--	--
Ca1_P2_32153452	Ca1	32153452	TTTATTTTAT/TTTATTTTATATTATTTA T	GTTTGGCGTTGGTTTC ACT	TGGGTTTGACCTATG TGTG	59.3	353	INTERGENIC	--	--	--
Ca1_P2_32153737	Ca1	32153737	TTATATATATATAT/TTATATATATATATA T	CACACATAGGTCACAA CCCA	ATACATGGATTGGTTG GGGA	59.9	585	INTERGENIC	--	--	--
Ca1_P2_32154060	Ca1	32154060	TGTATTGTAAGTATTGTAAG/TGTATTG TAAG	ATGGAATACTCCCAAC CAA	ACTTGCAAAATCCAAT GCC	59.9	446	INTERGENIC	--	--	--
Ca1_P2_32191667	Ca1	32191667	ATTTTTTTTT/ATTTTTTT	CATCATGATCAAGGGA CCAA	AAGTTAGCGGTCGGGA GAAT	60.1	413	INTERGENIC	--	--	--
Ca1_P2_32203410	Ca1	32203410	TGGGG/TGGGGG	CAAGGAGGTTGCAAAA GAGG	CCTTCGTGGACCAGA TGTT	60.0	511	INTERGENIC	--	--	--
Ca1_P2_32222272	Ca1	32222272	ATTTT/ATTTT	ACAACCTTCTCATGCTCG CAA	GGTGGCATACCTCAAC GAGT	60.0	620	INTRON	Ca_26127	--	Trihelix
Ca1_P2_32235747	Ca1	32235747	GNNNNNNNNNNN/GNN	AAACGCAATCCTTGAGT TCG	GCACGTAACAACTCGA CCCT	60.2	755	INTRON	Ca_26127	--	Trihelix
Ca1_P2_32263460	Ca1	32263460	TAAAAAAA/TAAAAAAA	CGGAAATTTGCAAAAC GAA	TAGGACGAATGTTGT GGCA	60.1	487	INTERGENIC	--	--	--
Ca1_P2_32267954	Ca1	32267954	T/TG	AAGCTATGTCAAGGAAT GTGATTT	CCGTGTTTTTGAAAAT GACAC	59.4	378	INTERGENIC	--	--	--
Ca1_P2_32284188	Ca1	32284188	CATC/CATCGATC	ATCCAGTGACCCAACC AAAA	AATGGTGCACTCAAGA ACCC	60.0	642	DRR	Ca_26129	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_32312793	Ca1	32312793	GTT/GT	GATTGGCTCAGCAGAA GTCC	TTTCAAGCAGCGGAAA AAGT	60.0	561	INTERGENIC	--	--	--
Ca1_P2_3244914	Ca1	3244914	CATATATATATATATAT/CATATATATAT ATATATAT	CTTGATCACCACCACTC CCT	TCAATTAATAAACCGGT CAA	58.0	797	INTERGENIC	--	--	--
Ca1_P2_32454365	Ca1	32454365	A/AG	AGGAAACACATGAAGG CACC	TCTTCGTTGCTCACTCCA TGC	59.8	572	INTERGENIC	--	--	--
Ca1_P2_3246500	Ca1	3246500	AATATATATATATATATATAT/AATATA TATATATATATATATAT	TGTTTGGACGAGAGAA TTTTATGA	GGCAAATTTGGAGATT GTGG	60.3	855	INTERGENIC	--	--	--
Ca1_P2_32524824	Ca1	32524824	TATACA/TA	CCGGTGCATACCTTGT CTT	AAATTTGGGATTAATT TCCG	57.1	819	INTERGENIC	--	--	--
Ca1_P2_32760818	Ca1	32760818	TTATATATATATATA/TTATATATATATAT ATA	AATGGAGATGGGAAC TGTG	ATTGGACTGCGGATTA GTGG	60.0	539	INTERGENIC	--	--	--
Ca1_P2_32790193	Ca1	32790193	TGGG/TGGGG	CATTTGGATTCAACTC GGG	AGGGCAACTGTTTTGG ATTG	60.0	133	INTERGENIC	--	--	--
Ca1_P2_32796156	Ca1	32796156	CAAA/CAAAA	TTGAGCCCCTGACTTAA TGG	ACGTTCTGAGGGAAT TGTG	60.0	410	INTERGENIC	--	--	--
Ca1_P2_3281135	Ca1	3281135	GTATATATATATATATATATATATATA AATACATATATATATATATATATATAT ATATATA/GTATATATATATATATATAT ATATATATAAATACATATATATATATATA TATATATATATATATA	TAATTTTGTCTAATAAG TGCCTTG	TTTTTATAAGCAATTAT GCATTCAA	57.3	182	INTRON	Ca_00398	--	LBD
Ca1_P2_32817874	Ca1	32817874	T/TGATTTATTTA	GCCTGTGTGGCTGGTT TAAT	AAAGTCTCATTTTCCC ACG	59.0	223	INTERGENIC	--	--	--
Ca1_P2_32848422	Ca1	32848422	AC/A	CAAGGCTCAAAGGGGC TAGT	GGAGGCAACCCACAAG TAGA	60.1	547	INTERGENIC	--	--	--
Ca1_P2_32851240	Ca1	32851240	TATAATAATAATAATAATAATAATAA TAATAATAA/TATAATAATAATAATAATA ATAATAATAA	CAAGCTTGAAAGGCC TGAG	ATAGACTAGGCCGTCC GTCA	59.7	618	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_32862144	Ca1	32862144	AATATATATATATATATATATA/AAAT ATATATATATATATATATATATATA TA	AAAAGCCTCCGAACCA AAT	ATTCTGCACGAATTG GACC	59.9	734	INTERGENIC	--	--	--
Ca1_P2_32905999	Ca1	32905999	AATATAT/AAATAT	TTGCTTCGTCAGCACA TTC	TCGTATGTCATAGCGG TGCT	59.3	920	INTERGENIC	--	--	--
Ca1_P2_32906329	Ca1	32906329	TTATATATATATATAT/TTATATATATA TAT	TCATTAAATCAAAGGCA CACAAA	TCGTATGTCATAGCGG TGCT	59.3	488	INTERGENIC	--	--	--
Ca1_P2_32911601	Ca1	32911601	AAATAATAATAATA/AAATAATAAAT AATAA	CAAAATGGAGCAAGAAA CAGG	CAAGTTCAACGAGCGC CTAT	60.4	892	INTERGENIC	--	--	--
Ca1_P2_32933974	Ca1	32933974	TTTCGTTC/TTTC	TAACCATCGTGGGGT GTTT	TTTTCAGCTTTCCAACG CTG	60.4	851	INTERGENIC	--	--	--
Ca1_P2_33018948	Ca1	33018948	CTT/CT	TTCGCACTCCACTCT CCT	CACATCATCACACATG CCA	60.0	481	INTERGENIC	--	--	--
Ca1_P2_33066887	Ca1	33066887	TT/TTAT	TATTGCCTCTCCCTCT CCT	TTCCATGACGGTGAAC ACAT	59.8	517	DRR	Ca_19437	J	GATA
Ca1_P2_33084283	Ca1	33084283	T/TC	CGGCACTTGAGAAAA GAAA	AGGATTCCACGAGCAA ACAG	60.3	443	INTERGENIC	--	--	--
Ca1_P2_33105635	Ca1	33105635	TC/T	TGCCAAGAACGATAAA GCA	TTCTGCATTTTCCTTGA GCA	59.5	101	DRR	Ca_19438	--	--
Ca1_P2_33129418	Ca1	33129418	ATATAAGCAGAAAAATAAGTATAAGCAGA AAAT/ATATAAGCAGAAAAATAAGTATAA GCAGAAAAATAAGTATAAGCAGAAAAAT	TTTCATAGGGCTTTTC ACG	CGGATTGATGAATCAG GGTT	59.8	878	INTERGENIC	--	--	--
Ca1_P2_33154204	Ca1	33154204	AGCGCTGTAAGTGGCGCTGTAAAT GGGCGCTGT/AGCGCTGTAAATGGGC GCTGTAAATGGGCGCTGTAAATGGG CGCTGT	TTCAATGAAAGCGCATG TGT	GGGATTGACCAAACT GTCG	60.4	344	INTERGENIC	--	--	--
Ca1_P2_33193839	Ca1	33193839	GATATATATATAT/GATATATATATATAT	CGCAATGAAGGTGGTA GGTT	TAATCCCCCTCACTCC CTTT	59.8	758	INTRON	Ca_19440	A	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_33240386	Ca1	33240386	T/TG	AAACGCAATCCTTGAGT TCG	CTATCTAGCGTCGGAG TCGG	60.0	280	INTERGENIC	--	--	--
Ca1_P2_33247360	Ca1	33247360	GTTTTATT/GTTTTATTTTTATT	TCCCCTTTTGTCATCA GAC	CATGCCAACACAGAA GTTGA	59.7	499	INTERGENIC	--	--	--
Ca1_P2_33329257	Ca1	33329257	AAA/AAAGAA	TTTGTGAGTTGCGAAGT AGAATTT	CTCCAAGGCACACACA AATG	60.2	599	INTRON	Ca_19441	--	MIKC
Ca1_P2_33336930	Ca1	33336930	GAAAA/GAAAA	CAATGGCAACAAGGTC AATG	TCACATCTGTTGGTAAC GGG	59.4	856	INTRON	Ca_19441	--	MIKC
Ca1_P2_33344607	Ca1	33344607	AG/AGG	CCACCCAGAAAGGAGT TCAA	TAAAAGGAAGCCAAG CTCA	60.0	321	INTRON	Ca_19441	--	MIKC
Ca1_P2_33365804	Ca1	33365804	AC/A	CAATTTTGGTCCCTCTC TCTTTT	TTTTCTCCCGATTGG TCA	60.4	552	INTRON	Ca_19441	--	MIKC
Ca1_P2_33407768	Ca1	33407768	TA/TAA	TGGCCATCAATTAATCC ACTC	GATCTGCAACTGGGG TAAA	59.9	230	INTERGENIC	--	--	--
Ca1_P2_33445892	Ca1	33445892	TTATATATATATAT/TTATATATATATA T	GGGCGGATCTTTTCTA GGAC	ATTCATTCTCGAGCG CATT	60.0	378	INTERGENIC	--	--	--
Ca1_P2_33476619	Ca1	33476619	CTTT/CTT	ACCAGCAACCATAAAAA CGC	AATTGGTTTCATGACCT GCAC	59.9	450	INTERGENIC	--	--	--
Ca1_P2_33590290	Ca1	33590290	T/TTCA	GCAATGTCTGGTTGC AAAA	TCAGTTGCCTTTGAAAT CCC	60.1	940	INTERGENIC	--	--	--
Ca1_P2_33670245	Ca1	33670245	TAAAAAAAA/AAAAAAAAA	AATCACACTCGATCCAA CCC	GCATCTTTGATTCTCC CAA	60.0	665	INTERGENIC	--	--	--
Ca1_P2_33722309	Ca1	33722309	GAAAAAAAA/AAAAAAAAA	GGGACGTACACAAGAG GGAA	ATGAGCGAGGTAGAAG CCAA	60.0	359	DRR	Ca_19456	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_33746473	Ca1	33746473	GTATATATATATATAT/AT	CCAATCGATTTCCTCAA AAA	TTTCATCAAAACCCCTT G	59.8	779	INTERGENIC	--	--	--
Ca1_P2_33765021	Ca1	33765021	AAATAAAATAATAATAATAA TAAAT	GCGACCGAATATGGAA CAGT	TAGGCTAGTCTGCTCCG TTTG	60.3	301	INTERGENIC	--	--	--
Ca1_P2_33777775	Ca1	33777775	ATTT/ATT	CATGCTCAATACACGGA TGG	AACGTTCTTGAGTGGC TTGG	60.3	870	INTERGENIC	--	--	--
Ca1_P2_33781062	Ca1	33781062	CTTTTTT/CTTTTTTTTT	AATTTCCCAATCACCCA CAA	TCCACAATGTCTCCCAA CAA	59.9	517	CDS (FRAME SHIFT)	Ca_19460	--	--
Ca1_P2_3391465	Ca1	3391465	GATAATAATAATAATAATAA T/GATAATAATAATAATAATAA T	CAGGAGCGACACAAGA CAAA	TCGTTCTTCAGGAAG TCGT	59.8	389	INTRON	Ca_00410	--	S1Fa-like
Ca1_P2_34003692	Ca1	34003692	TTATATATATATATATATATA TTATATATATATATATATATA TA	CGGAGGGTAACCAAG ATGA	TCTGAACGAAACCACT GCAC	59.9	852	INTRON	Ca_27634	--	--
Ca1_P2_34057382	Ca1	34057382	C/CA	GGGGATTAAGTGCTTG GACA	AAAGAAAGGCACTAAG GCCC	59.7	156	INTERGENIC	--	--	--
Ca1_P2_34136220	Ca1	34136220	CTTTGGT/CT	GGGCATGTTTCTCTG ATGT	TGATGTGGGTCACCA GAAA	59.9	803	DRR	Ca_25472	QI	bHLH
Ca1_P2_34137295	Ca1	34137295	CTTT/CTT	GCAAGCATTGCTCG ACTT	TGTTACCAGGCTGAAC CACA	60.2	845	DRR	Ca_25472	QI	bHLH
Ca1_P2_34143628	Ca1	34143628	TTA/TTAAATGTTCTATA	CCCCTAACAATTCG ACA	TTTATGATTACGCCCC TCG	59.9	714	INTERGENIC	--	--	--
Ca1_P2_34147315	Ca1	34147315	C/CTG	TCAAATCGATTGGGACA TCA	TACTCGCCAACTCTCA CGA	59.6	900	INTERGENIC	--	--	--
Ca1_P2_34167302	Ca1	34167302	CTTT/CTT	CATCATGCCAATGCATC ATAA	GTACCTCAAACGGAGG GGAT	60.2	804	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_34182031	Ca1	34182031	TC/T	CGTGTCTCCACCTCTCA ACA	CAAAATCACGACCACC ACTG	60.0	217	INTERGENIC	--	--	--
Ca1_P2_34200799	Ca1	34200799	CTTTTTTTTT/CTTTTTTTTT	AGGTTGGTGCCATTAT GAGG	AGAGGAAGCCCTACGT GGAT	60.1	425	INTERGENIC	--	--	--
Ca1_P2_34286273	Ca1	34286273	ATATTTTTATTTTTATTTTT/ATATTT TTTATTTTT	TATGCATGCGACAAG AGTC	TTGGAAAAGCCCACT ACAC	60.0	448	INTERGENIC	--	--	--
Ca1_P2_34313358	Ca1	34313358	GTG/GTGATG	GGGGTAATAGGATGT CACG	TTATCGCAGATTGTCC CACA	60.1	590	INTRON	Ca_25478	R	ARR-B
Ca1_P2_34320054	Ca1	34320054	CGACCTCCAGA/CGA	GCATGGAGGGGGACTT TTAT	GTTTCTTTGGTTCAAG GGCA	60.1	565	DRR	Ca_25479	C	MYB_related
Ca1_P2_34328412	Ca1	34328412	AA/AATTA	AACGCTTCTAAGAAGC CCA	TGGATCCGTGATCCTT CTTC	60.0	313	INTERGENIC	--	--	--
Ca1_P2_34332252	Ca1	34332252	GA/G	AATTGGAAGCAGGGGT TTTT	GGATTGACCCTTGGG GTTT	59.9	849	INTERGENIC	--	--	--
Ca1_P2_34348577	Ca1	34348577	TAAA/TAA	TTTGTGGACAGACTAC CGA	TGGGCAAAGGAATTT CAAG	60.0	252	INTERGENIC	--	--	--
Ca1_P2_34351954	Ca1	34351954	GAAAA/GAAAAATAAAAA	AGAGCTACCACCGCAA GAAA	CAGACGCAAGTGTTGA AGAA	60.0	743	INTERGENIC	--	--	--
Ca1_P2_34352370	Ca1	34352370	GTATATATATATATATATATATATA TATATATATATATA/GTATATATATATA TATATATATATATATATATATATA	TTCTTCCACACTTGCGT CTG	TTTGACTAGTTTGTCCC CGC	60.1	463	INTERGENIC	--	--	--
Ca1_P2_34364559	Ca1	34364559	T/TCTC	TGGGAAAACCTTGACC AATC	TCATGAGTGGGAGTGA ACCA	60.1	865	INTERGENIC	--	--	--
Ca1_P2_34371294	Ca1	34371294	AAAGAAG/AAAGAAGAAG	AAACGGTGCAAGAAG ATTG	TCTTTACGACCTTTGTG GGC	60.1	233	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_34881849	Ca1	34881849	T/TTTA	GAATGGTTTGGGCTG AGAA	AAAAATTTTGAAACGG ACAAA	57.8	654	INTERGENIC	--	--	--
Ca1_P2_34952469	Ca1	34952469	AAATAATAATAATAAA/AAATAATAAT AATAA	CTTCAACCAATGCCTCC ACT	AAAAGGAGGTGCGAC AAAA	59.7	603	INTERGENIC	--	--	--
Ca1_P2_34954237	Ca1	34954237	ATACT/AT	TGCTTATTGTGGCTGCT TTG	TGTGTGCATGCATTG AAGA	59.8	669	INTERGENIC	--	--	--
Ca1_P2_34962921	Ca1	34962921	CAAAAAA/CAAAAAA	CCATCTTGCCCTTTTCT TGA	CGTGGGAAAAAGGGGT ATTT	60.0	725	INTERGENIC	--	--	--
Ca1_P2_34963287	Ca1	34963287	AGG/AG	CCAACAACATGCGTTGT CAT	CGTGGGAAAAAGGGGT ATTT	60.0	606	INTERGENIC	--	--	--
Ca1_P2_34971020	Ca1	34971020	CAAAAAA/CAAAAA	AAATACCCCTTTTCCC ACG	TGAAAACGCTCAATGC CATA	60.2	689	INTERGENIC	--	--	--
Ca1_P2_34978712	Ca1	34978712	GT/GTT	ATGGCATGGTGGATTTT GTT	CTAGAAAGTTGCAGCC CAGG	60.0	525	INTRON	Ca_21407	--	--
Ca1_P2_34986077	Ca1	34986077	ATTT/ATT	TGGCAATGGGCTAATTT CTC	TGCATAATCGATTGGC ACAT	59.9	120	DRR	Ca_21406	--	--
Ca1_P2_35042644	Ca1	35042644	TC/T	ATAGTAGTTGCGGTGG TCGG	GGACCAGTTTGGGTG ATTG	60.2	386	INTERGENIC	--	--	--
Ca1_P2_35044743	Ca1	35044743	AG/A	GTACCGAATAGCCCGC ATAA	CCAGTCCATATCGGGT CAGT	59.8	654	INTERGENIC	--	--	--
Ca1_P2_35096364	Ca1	35096364	AT/A	TTGATGTGGTCGGAGA TTGA	ACAATTTTCAGCAACCC GAG	60.1	588	INTERGENIC	--	--	--
Ca1_P2_35153435	Ca1	35153435	GTTTTTTTTTTTT/GTTTTTT	TTTGGTTCCGATTGCT AGG	GGTTGTATGGCTCCCA AGAA	59.9	409	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_35158359	Ca1	35158359	C/CT	ATCTTGGTTGGCTTTG TCG	GGATTCGAAGTGAAAC TCATCC	59.9	471	INTERGENIC	--	--	--
Ca1_P2_35160383	Ca1	35160383	GT/G	CATTGCTCCCAAGTGCT TTT	CAATTCCCACAGGTAC GCTT	60.0	542	INTERGENIC	--	--	--
Ca1_P2_35165919	Ca1	35165919	GTTTTTT/GTTTTTTTTTTTT	TCATCGCAGGTGTACC ATGT	CACCTAAGGGAATCGG TCAA	59.9	377	INTERGENIC	--	--	--
Ca1_P2_35166209	Ca1	35166209	TAAAAAAAA/TAAAAAAAA	AAGAGAGGTCACCTTG GCGA	CAATTCCCACAGGTAC GCTT	60.0	852	INTERGENIC	--	--	--
Ca1_P2_35222825	Ca1	35222825	TAAAAAAAA/TAAAAAAAA	TTTGCATGCATCAAGTT CCT	AGGTGGTTTCCTTCTCT TGCT	60.1	492	INTERGENIC	--	--	--
Ca1_P2_35235628	Ca1	35235628	TATAATAATAATAATAATAATAA TAATAA/TATAATAATAATAATAATA ATAATAATAATAATAA	GGGATGCGACCTTGTA CTGT	TCCTCTCTTTTGGCAC ATT	59.7	463	INTERGENIC	--	--	--
Ca1_P2_35258820	Ca1	35258820	A/AC	AGCAGAGATCCTAGGG TGGG	CCACCGACACCTCTCA ATT	60.0	870	INTERGENIC	--	--	--
Ca1_P2_35261821	Ca1	35261821	ATT/AT	TGGATTGTCATGGTCT GGAA	AATGGTCTTGAATTTG CCG	59.9	640	INTERGENIC	--	--	--
Ca1_P2_35266220	Ca1	35266220	ATAT/ATATTAT	CGCGGTAGAGTTATTG GAAAA	TGGGGATACGTAGGAG CAAG	60.1	682	INTERGENIC	--	--	--
Ca1_P2_35281570	Ca1	35281570	TC/T	ATGACACGTCATTCGT TCG	GGTTCGAGACATCCAT AATTCA	58.9	733	INTRON	Ca_26099	QI	bHLH
Ca1_P2_35281940	Ca1	35281940	TA/TAA	AAACGTGATCTATACAG TTTCCAAAA	TTCACATCTGGAACAA CGC	59.7	529	INTRON	Ca_26099	QI	bHLH
Ca1_P2_35283797	Ca1	35283797	TGGGGG/TGGGG	GGGTGTGTTTGATAGG AGGG	CTCCCCTCCATCTCCT CTT	59.6	139	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_35284017	Ca1	35284017	ATTT/ATT	GAGATGGAAGGGGAGG AAAG	GCACAAAAGAAAATAC AAGTCCA	59.6	273	INTERGENIC	--	--	--
Ca1_P2_35284253	Ca1	35284253	TT/TTGT	GAGATGGAAGGGGAGG AAAG	TCTGATCAAATATGTGG CAGAAA	59.6	657	INTERGENIC	--	--	--
Ca1_P2_35321165	Ca1	35321165	GTTT/GTTTT	CATCATTCGTTTCAAAT TTGTTG	ACGAAGGTTTGAGACA TCCA	58.1	586	INTRON	Ca_26101	QI	bHLH
Ca1_P2_35325462	Ca1	35325462	CTTT/CTTTT	CACACTCAAGTGCCTC GAAA	AACACGGGTTACGTCC AGTC	59.9	411	INTERGENIC	--	--	--
Ca1_P2_35353239	Ca1	35353239	GAA/GAAA	CCAACAACCTTCCTTCG AGC	AGCCCATTCAGATTTTG TGG	59.9	147	INTERGENIC	--	--	--
Ca1_P2_35540299	Ca1	35540299	AA/AATA	GGGGTGCTCAACTTGT TTGT	GGCCAAAGTAAGGGTG AGAT	60.3	254	INTERGENIC	--	--	--
Ca1_P2_3556309	Ca1	3556309	TTATATATACATATATAT/TTATATA TAT	TGACCTCATGGATACC CACA	AAGGTCGCATCTTCAT CCTG	60.2	371	INTERGENIC	--	--	--
Ca1_P2_35564952	Ca1	35564952	CACAA/CACAACAA	AGCGATGCATGTCTCA AGTG	GCCCTTCTCTTTTCCT GGT	59.7	427	INTERGENIC	--	--	--
Ca1_P2_35585435	Ca1	35585435	ATGTGTGTGTGTGTGTGTGTGT/ATGTGTGTGTGTGTGTGTGTGT	ATGTTGAGGGTCATGC TTCC	GCAAATGAGATGAACA GCGA	60.0	690	INTERGENIC	--	--	--
Ca1_P2_35598879	Ca1	35598879	CTTT/CTT	ATTCCTTCATTCTTAATG CCC	CGGTGCTAGTGACCA ATTT	60.0	949	INTERGENIC	--	--	--
Ca1_P2_35610504	Ca1	35610504	ATGT/ATATATATGTGT	TATTTTGATTTTGGCT CGG	TTTTCTTTCTTTTTC CCC	59.4	261	INTERGENIC	--	--	--
Ca1_P2_35663461	Ca1	35663461	AG/AGG	CACCTTCTCGAGTAGG CCG	TGGAGGTGAACAACTT TCCC	59.9	855	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_37122520	Ca1	37122520	AGG/AG	TGCAATCATTGGTGCTT AGG	AAAAAGCGCCGTAAAA TGAG	59.4	710	INTERGENIC	--	--	--
Ca1_P2_37122699	Ca1	37122699	GTTT/GTT	GGAGGAGCGCAACTTA ATCA	AAAAAGCGCCGTAAAA TGAG	59.4	372	INTERGENIC	--	--	--
Ca1_P2_37122810	Ca1	37122810	TACAAC/TACAACAAC	GGAGGAGCGCAACTTA ATCA	AAAAAGCGCCGTAAAA TGAG	59.4	372	INTERGENIC	--	--	--
Ca1_P2_37125192	Ca1	37125192	GATGGAGATGGTTTGCAATGGAGATG/ GATGGAGATG	AGCGGTTTAGGGTTTA GGGA	CCAAATGTGCATACGA ACCA	60.4	113	INTERGENIC	--	--	--
Ca1_P2_37128515	Ca1	37128515	ATTTTTTT/ATTTT	CAATCCCACAGGTAC GCTT	TTGGTCTCATCAATGAT TGTAAGAA	59.8	568	INTERGENIC	--	--	--
Ca1_P2_37131203	Ca1	37131203	ATTTTT/ATTTT	TTGAAAGGTGCGTAAAT AAAGGA	CAATTGAGAATTTATTT GATGACGA	59.4	898	INTERGENIC	--	--	--
Ca1_P2_37159439	Ca1	37159439	CTTTTTTTTT/CTTTTTTTTT	TCACAACCAATTGCTC TGC	GGGTGCCACCTGAAGA GATA	60.1	126	INTERGENIC	--	--	--
Ca1_P2_37212808	Ca1	37212808	TTCTCTCTCTCTCTCTCT/TTCTCTCTCT CTCTCT	CAACAGCAGGCTGTCA GAAA	AGGGGGTGAGTTTGAA TGTG	59.8	392	INTERGENIC	--	--	--
Ca1_P2_37391477	Ca1	37391477	TTATATATATATATATATATAT/TTATA TATATATATATATATATATAT	CTGTCAATTGAGATGC GACG	GCGATTACGGTACCAC GAGT	60.0	600	INTERGENIC	--	--	--
Ca1_P2_37410251	Ca1	37410251	GAAAAAAAAA/GAAAAAAAAA	TGAATGAGGAGCACGT CTTG	CTGGGCAAGGGGTAT TTTT	60.2	401	INTERGENIC	--	--	--
Ca1_P2_37410363	Ca1	37410363	GAAAAA/GAAAAA	TGAATGAGGAGCACGT CTTG	CTGTTGTTGCCAACGG TTTT	61.0	445	INTERGENIC	--	--	--
Ca1_P2_37412282	Ca1	37412282	CCATG/CCATGCATG	CGTGGATGATGCTTTTC TCA	TGCTTCTCATCTGCTTG GTG	60.1	580	DRR	Ca_21842	R	GRAS

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_37420598	Ca1	37420598	ATTTT/ATTT	GGGAAAAGGAAACCA AAAA	TGAGTGAGGGAGACAA AGGG	60.2	950	INTERGENIC	--	--	--
Ca1_P2_37421082	Ca1	37421082	CCTCACTCACTCACTCACTCAC/CCTCA CTCACTCACTCAC	ACTTGACGGGGACTCC ACTA	ACATGTTCTTGTGCTC GTG	59.8	637	INTERGENIC	--	--	--
Ca1_P2_37424329	Ca1	37424329	CATATATATATATATATATAT/CATAT ATATATATATATAT	AAAAAGTATTGAACAAA CACGCT	TGAAATCCAAATTAAT TGCTGAA	59.9	549	INTERGENIC	--	--	--
Ca1_P2_37424731	Ca1	37424731	ATTTTTT/ATTTTTTT	GCAATTTAATTTGGATT TCATGG	AGTTTGGTTCAATTGTT TCGAT	57.7	104	INTERGENIC	--	--	--
Ca1_P2_37424983	Ca1	37424983	AC/A	GCAATTTAATTTGGATT TCATGG	TCACATCCATCCCGG TACA	60.8	761	INTERGENIC	--	--	--
Ca1_P2_37425133	Ca1	37425133	TTATATATA/TTATATA	GCAATTTAATTTGGATT TCATGG	TCACATCCATCCCGG TACA	60.8	761	INTERGENIC	--	--	--
Ca1_P2_37425153	Ca1	37425153	GCA/GATCA	GCAATTTAATTTGGATT TCATGG	TCACATCCATCCCGG TACA	60.8	761	INTERGENIC	--	--	--
Ca1_P2_37425439	Ca1	37425439	TG/T	TGTACCGTGGATGGAT GTGA	TGACACGTATCAATTTA GGGAGAA	59.9	222	INTERGENIC	--	--	--
Ca1_P2_37425620	Ca1	37425620	ACG/A	TGTACCGTGGATGGAT GTGA	TATGCATCCTCACGGT TTTG	59.5	675	INTERGENIC	--	--	--
Ca1_P2_37425673	Ca1	37425673	ATTTTTTTTT/ATTTTTTTTTTT	TGTACCGTGGATGGAT GTGA	TATGCATCCTCACGGT TTTG	59.5	675	INTERGENIC	--	--	--
Ca1_P2_37426537	Ca1	37426537	ATT/AT	CTTCAAACCGTGAGG ATGC	TCTGAGCTTCTGATGC TTGC	59.4	916	INTERGENIC	--	--	--
Ca1_P2_37433380	Ca1	37433380	CAA/CAACGTAAA	AATAAATTAGTGCAGCA AACCAA	GGCAAAGAGAGGAAAG TGGA	59.4	756	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_37433540	Ca1	37433540	TATAATAGATAATAGATAATA/TATAATA GATAATA	TGAAAAACATCTCTCTA ATAGGCG	ACCACTGCACCAAGGG TAAG	60.0	532	INTERGENIC	--	--	--
Ca1_P2_37450942	Ca1	37450942	GT/G	ACACGCTTATTGGATGC ACA	CAGTGATTTTCGTCTG CCCT	60.3	377	INTERGENIC	--	--	--
Ca1_P2_37489959	Ca1	37489959	AT/ATT	ATTGTCCAGTTTCCTCA CCG	CGATTGGTAAATCGATT GGG	60.1	594	INTERGENIC	--	--	--
Ca1_P2_37490066	Ca1	37490066	A/AATGTAT	ATTGTCCAGTTTCCTCA CCG	TGAACTCTGAGCGTGT GACC	60.0	775	INTERGENIC	--	--	--
Ca1_P2_37501680	Ca1	37501680	TAAAAA/TAAAA	GGGAGGACGACAACGT CTTA	ACCAATCTTGTGCATC CCAT	60.2	369	INTERGENIC	--	--	--
Ca1_P2_37516914	Ca1	37516914	TAAAAA/TAAAA	AGGGAGGACGAAAATG ACCT	ACCAATCTCGTGCATC CAAT	60.3	567	INTERGENIC	--	--	--
Ca1_P2_37597011	Ca1	37597011	GAATTTAAATTTAA/GAATTTAAATTTAA ATTTAA	TGCGTTCACAGTTTTC AGTT	ATTATGCTGATTGATC GCC	60.0	648	INTERGENIC	--	--	--
Ca1_P2_3767709	Ca1	3767709	AATATATATATATATA/AATATATATAT ATATA	AAACCAACCAAAAGGTT CCA	TGGCAGCAAATCAAA TCAAT	59.7	963	INTERGENIC	--	--	--
Ca1_P2_37693180	Ca1	37693180	AATTAT/AAT	TGTGGAACATTCTCTGC GTC	TTCCCGAGAGATTGT CTTCA	59.8	593	DRR	Ca_23533	--	G2-like
Ca1_P2_37698093	Ca1	37698093	CAT/CATAT	CAAGTTTCCAGTACAC CCCA	TCACGTCGTGAGACT ATGG	59.9	709	INTERGENIC	--	--	--
Ca1_P2_37712787	Ca1	37712787	A/ACATGTG	GGTGTGGAGGTGTAA TGGG	CATGTCCCGTATTCGC TTTT	60.0	639	INTERGENIC	--	--	--
Ca1_P2_37716852	Ca1	37716852	T/TG	TGATGTTGTTGTTGTTG TTGGA	GTTTGGGTACACCCC ATTG	59.9	473	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_37724930	Ca1	37724930	CCACACACAC/CCACACAC	ACCCTGTTGCTGCCAA ATAC	GCTCCAATCCCTCAG ATCA	60.2	664	INTRON	Ca_23534	--	--
Ca1_P2_37758491	Ca1	37758491	TA/TAA	TGACGAGGTTCTGAT GATG	AGCGAATGATTTCAAC CACC	59.9	489	INTERGENIC	--	--	--
Ca1_P2_37763281	Ca1	37763281	TGTG/TGTGTATTGTGCGAGTG	GAATTGATAGACCCGC CAAA	AGAACGTCTCATTGGT TGCC	60.1	375	INTERGENIC	--	--	--
Ca1_P2_37771437	Ca1	37771437	CTTTT/CTTTT	CTGTGGCCCGACAAG TATT	TCGTATATGCAGCAAG TGCC	59.9	627	INTERGENIC	--	--	--
Ca1_P2_37779617	Ca1	37779617	AT/ATTATTATTATTATTTT	TCACGAACCAATTTGAG ATG	TGTTCTGTGACCCAGAG ATGA	60.2	515	INTERGENIC	--	--	--
Ca1_P2_37780594	Ca1	37780594	TAAAAAAAA/TAAAAAAAAAAAA	CCGGAAGTCTCTACTGG TTCA	CCACTAGAAACCTGGT TGGA	57.6	501	INTERGENIC	--	--	--
Ca1_P2_37800107	Ca1	37800107	TA/TATTTAAA	TGGGTCCTAAACCGCA ATAC	CAAAATGATGCAACCA TCG	59.9	371	INTERGENIC	--	--	--
Ca1_P2_37803540	Ca1	37803540	TTATATATATATATATATATATATA TATATATATATATATAT/TTATATATATAT ATATATATATATATATATATATATATA T	ATCGATCACATCAACGT CCA	AGCAAATGCGGAAGAA AGAA	60.0	656	INTERGENIC	--	--	--
Ca1_P2_37809250	Ca1	37809250	ACTTTTCCTTTCT/ACTTTTCCT	TGCCTTTGGGATTTTA TCA	TTTTGCATTAATAATGG ATGAA	57.3	579	INTERGENIC	--	--	--
Ca1_P2_3783481	Ca1	3783481	AATA/AA	AATGATGATAATTCATT TGCCA	GCGACTATCCAGGAAA TCCA	60.0	522	INTERGENIC	--	--	--
Ca1_P2_3783626	Ca1	3783626	TATTTGCATTG/TATTTG	TTCAACAATTACCACAAA GATCG	GCGACTATCCAGGAAA TCCA	60.0	433	INTERGENIC	--	--	--
Ca1_P2_37849378	Ca1	37849378	G/GA	CCTAAGGGCCGTAGTA ACCTG	AGGATCCACCAAGCAA ATCA	60.5	154	INTRON	Ca_23538	T	E2F/DP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_37913733	Ca1	37913733	TAAA/TAA	ACGTTGCCACCTATCT CAT	CCTTATGCGGTAATCC CTGA	59.9	563	INTERGENIC	--	--	--
Ca1_P2_37917967	Ca1	37917967	ATATGACAGTTA/ATA	TCCACAAGTTATTCGAC GAAAC	TTCCATTGATCTACGTT AATGTTTG	59.4	558	INTERGENIC	--	--	--
Ca1_P2_37918071	Ca1	37918071	ATTTTTTTTT/ATTTTTTT	TCCACAAGTTATTCGAC GAAAC	AAAATAGGGGACCAAA CCTG	57.9	757	INTERGENIC	--	--	--
Ca1_P2_37926604	Ca1	37926604	TATAATAATAATAAAT/TATAATAATAA TAAT	TGAATGTGACGCTTGA ACCTT	CAAACCTCCGCGATCA AAAT	60.1	685	INTERGENIC	--	--	--
Ca1_P2_37927331	Ca1	37927331	TAAA/TAAATTGTATCAAA	ATTTTGATCGCGGAAGT TTG	TCAATCAACCAGATTTT GCATT	59.5	553	INTERGENIC	--	--	--
Ca1_P2_37927862	Ca1	37927862	G/GTA	TGCAAAATCTGGTTGAT TGAG	TCCAGATCAAAATTG GGTT	59.2	745	INTERGENIC	--	--	--
Ca1_P2_37928039	Ca1	37928039	G/GTTACATT	TCAAAATTGGAATTGTT CAGGA	GAATTGACATTGTTGCA CGG	60.0	675	INTERGENIC	--	--	--
Ca1_P2_37928765	Ca1	37928765	T/TTTTGATG	CCGTGCAACAATGTCAA TTC	TGGTTGCATGTTTGTA CTTGA	59.1	176	INTERGENIC	--	--	--
Ca1_P2_37928853	Ca1	37928853	CT/CTGAAT	CCGTGCAACAATGTCAA TTC	GACCACCATATTAACC GTCACA	59.6	571	INTERGENIC	--	--	--
Ca1_P2_37929646	Ca1	37929646	TAAAAAAA/TAAAAA	TGTGACGGTTAATATGG TGGTC	TTGACTTGTTTGCGG ATTG	59.7	817	INTERGENIC	--	--	--
Ca1_P2_37929753	Ca1	37929753	ATTTTTTTTT/ATTTTTTTTTTT	TGTGACGGTTAATATGG TGGTC	TTGACTTGTTTGCGG ATTG	59.7	817	INTERGENIC	--	--	--
Ca1_P2_37954337	Ca1	37954337	GTTTT/GTTT	TCTTTCTCCGATCCCA TTG	CGACTCCGAACTCAA AATC	59.7	868	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_37954669	Ca1	37954669	TAAAAAATAAAAAAATAAAAA/TAA AAAAATAAAAA	AGAAGGCTACCACTAC GCGA	CGGGAGATACGTAGGA GCAA	60.2	716	INTERGENIC	--	--	--
Ca1_P2_37993308	Ca1	37993308	CAAAAAAAAAAAAA/CAAAAAAAAA	TCATCGCAGGTGTACC ATGT	GGATTGGTAAAGGGCT CACA	59.9	482	INTERGENIC	--	--	--
Ca1_P2_37993665	Ca1	37993665	CAAAAA/CAAAAA	GTGAGCCCTTTACCAAT CCA	CAATTCCCACAGGTAC GCTT	60.0	654	INTERGENIC	--	--	--
Ca1_P2_38024874	Ca1	38024874	TATGAATGAAT/TATGAATGAATGAAT	GCAAGCTCAGTCCAG TTCC	TGCATCAATTATGGCTC CAA	60.0	655	INTRON	Ca_27443	S	--
Ca1_P2_38030335	Ca1	38030335	TTAAAAATAAAATAAAATAAA/TTAAAAAT AAAAATAAAATAAAATAAA	AGCTCGAACATGGTAT CCAA	CTAGCCATCCTCAGCG AGAG	60.3	662	INTERGENIC	--	--	--
Ca1_P2_38060326	Ca1	38060326	CGG/CG	GGTTTGCCGTCTTCT CCA	CTTGTTGCGACGATGA AAAA	59.8	310	INTERGENIC	--	--	--
Ca1_P2_38069381	Ca1	38069381	AT/ATGGGGCTT	GCAATTTTGTCCCCCT ATT	GACAAATAGTCGGGT CGGA	59.9	559	INTERGENIC	--	--	--
Ca1_P2_38070666	Ca1	38070666	T/TA	AACCATTGGGGGAGAA TAGAA	TTGTTAGAACCATTGG GGGA	60.2	362	INTERGENIC	--	--	--
Ca1_P2_38070895	Ca1	38070895	ATGTGTGT/ATGTGT	CTCCCCAATGGTCTA ACA	CACTGGAATCCGTTTC TTTTG	59.6	587	INTERGENIC	--	--	--
Ca1_P2_38071534	Ca1	38071534	TACACACAC/TACACAC	CTCCTCCTCATTCACCC AAC	ACACACCCACTCTCCTT TGC	60.2	189	INTERGENIC	--	--	--
Ca1_P2_38091918	Ca1	38091918	GAAAAAAAAA/GAAAAAAAAA	TATGGCAATTTGGCAT CCT	AAACCCTTTGAATAGAC CCCA	59.7	521	INTERGENIC	--	--	--
Ca1_P2_38110776	Ca1	38110776	AT/ATTTT	GGGAGCATCCATAACA TTGC	GCCATTTCAAACACATC ACG	60.0	188	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_38131605	Ca1	38131605	C/CT	CGTAACTCGTGTGGG TGAA	GAAGCAAGAGGCAACT CCAC	60.0	379	INTERGENIC	--	--	--
Ca1_P2_38141538	Ca1	38141538	GGAA/GGAAGAA	TCATCAAATCCGTAATG CAAA	TGTTTTATAAGCATCAT GTGTCACTC	59.5	166	INTERGENIC	--	--	--
Ca1_P2_38164426	Ca1	38164426	ATTT/ATTTT	TTCGAGAATTCCTGCTC TAA	GCCATGGCATCTATGT TGTG	60.0	815	INTERGENIC	--	--	--
Ca1_P2_38180047	Ca1	38180047	GGTAATA/G	AAACGCAATCCTTGAGT TCG	TCACTACGACCCCAAC ATGA	60.0	844	INTERGENIC	--	--	--
Ca1_P2_38184317	Ca1	38184317	ATTTT/ATTTT	TGACTCGTGATCCTCAC TGC	TTAAGCGTGCTCTCAA CGTG	60.2	572	DRR	Ca_13975	--	--
Ca1_P2_38187305	Ca1	38187305	AT/A	ATCACTCCACCGACTTC CAC	GAGTAGGGCTGTGCAT GGTT	60.1	602	INTERGENIC	--	--	--
Ca1_P2_38193154	Ca1	38193154	TAAAAAAAAA/TAAAAAAAAA	CGAACAACTCACCGG ATCT	CCAATGGAGTCCCAAA AAGA	59.9	724	INTERGENIC	--	--	--
Ca1_P2_38195545	Ca1	38195545	CATA/CATATA	CAGACCAACTGCAAGT CCAA	TCACGAATCCCATGTT TGA	59.9	539	INTRON	Ca_13974	L	C2H2
Ca1_P2_38227247	Ca1	38227247	GT/GTT	CTGAGAATGGCAGCAC AAAA	TTGATGTATTTTGCGCA TTCA	59.0	348	INTERGENIC	--	--	--
Ca1_P2_38227299	Ca1	38227299	CAAAATAAAATAAAATA/CAAAAT AAAAATAAATA	CTGAGAATGGCAGCAC AAAA	TGCTTAGGGAATAAG GCATGT	60.0	770	INTERGENIC	--	--	--
Ca1_P2_38244423	Ca1	38244423	ATTTTT/ATTTTTT	GCGGAAATATTTTGCA GGA	AACCAATTGCATCACC CTTC	59.8	523	INTERGENIC	--	--	--
Ca1_P2_38273940	Ca1	38273940	CAAAAAAAAA/CAAAAAAAAA	TATTTGGGGACCAAAAC TGC	CATGGTTTGAATGCGA GTTG	60.1	637	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_38281902	Ca1	38281902	TTCT/TT	GAAACACGCTCGAAT CCTC	TGGAAGAAAGAACCTT TGCC	59.3	888	INTERGENIC	--	--	--
Ca1_P2_38284193	Ca1	38284193	TC/T	GCCAACACATGGTGAA AGTG	AACAAAGTTTGCAATTG GGC	60.0	939	INTERGENIC	--	--	--
Ca1_P2_38335336	Ca1	38335336	GTTTTT/GTTTTTT	TGCATCTCTAGGCTGC CTTT	ACCTTCTGGCCATGAA TTTG	59.9	852	INTERGENIC	--	--	--
Ca1_P2_38335567	Ca1	38335567	CTATA/CTA	AGCAGGTTGCCAACAT CTTC	CGCGAAACCGTTACCT ACAT	60.0	676	INTRON	Ca_13967	--	--
Ca1_P2_38338321	Ca1	38338321	CAAAA/CAAAAA	TCCTCTCTCATCCCAAC ACC	AATCCCAATTTCGAAAA ACC	60.0	244	DRR	Ca_13967	--	--
Ca1_P2_38349813	Ca1	38349813	A/AC	CGTGGGTTCCAACAAC TTTT	TTTCATGGTTAGCACAC CGA	60.1	674	INTERGENIC	--	--	--
Ca1_P2_38353011	Ca1	38353011	ATT/ATTT	GTGGTGATTGGAGTGT GTCG	CAAATCCCTCCATGT TTG	60.2	710	INTERGENIC	--	--	--
Ca1_P2_38365522	Ca1	38365522	TTATATATATAT/TTATATATATATAT	CAACAATGGAGGAAGG AGGA	TTAAC TGCGCGAATC TTTT	59.9	263	INTERGENIC	--	--	--
Ca1_P2_38476810	Ca1	38476810	TTAT/TTATAT	TTGCAAGTACGTTCTCC AAAA	GTGTTACAGCCCTTC ATCC	60.4	280	INTERGENIC	--	--	--
Ca1_P2_38479463	Ca1	38479463	AATATATATATATATATATATATAT A/AATATATATATATATATATATATATA	AGCGTGAAATGTGACGT CTTG	TTAAAGAGATTCGCAG CGGT	60.0	100	INTERGENIC	--	--	--
Ca1_P2_38487463	Ca1	38487463	ATTTTTTTTT/ATTTTTTTTT	TGCTACCTGCAACCG TGAG	GTCAACTTTAAGGGGG CGTC	60.9	872	DRR	Ca_13962	--	--
Ca1_P2_38495552	Ca1	38495552	AAT/AATAATTATTAT	AACACCTTCCTGATCCT CCC	TGGCGAACTTTTAAGA ATGGA	59.7	659	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_39147028	Ca1	39147028	AT/ATT	AAAATGATCAGGAAATCATGT	ACAACTTCTCATGCTCGAA	59.6	339	DRR	Ca_13942	--	ARF
Ca1_P2_39163701	Ca1	39163701	C/CCTG	AAGTCTGCCACAAGCCACT	GCTTGAAAATGGAAGGACA	60.1	473	INTRON	Ca_13941	--	Trihelix
Ca1_P2_39183702	Ca1	39183702	ATTT/ATTTT	GGGTGCTTTCTATGATGTGC	GGGCTGCTATTGAGCTTTTG	60.0	758	INTERGENIC	--	--	--
Ca1_P2_39220811	Ca1	39220811	T/TCTTA	TGGGAGGCTCTCCAGTTCTA	AGGCACTTGGTTTTCTTCCA	59.7	478	CDS (FRAME SHIFT)	Ca_13939	T	M-type
Ca1_P2_39261977	Ca1	39261977	A/AT	GGTTTGCTGTGAGCCTTAG	AAACACAAGTCCAATCAAAGG	58.2	421	INTERGENIC	--	--	--
Ca1_P2_39265068	Ca1	39265068	GTTTT/GTTTTT	TTGGAAGCTAAGAAGCGAA	ATAATGGCCAAGGAACATGC	59.8	566	INTERGENIC	--	--	--
Ca1_P2_39303782	Ca1	39303782	ATTTT/ATTTT	CCATCCACATTTTCAAGTGATTT	TGAATCGTGAGGGTGTATGA	59.0	533	INTERGENIC	--	--	--
Ca1_P2_39366651	Ca1	39366651	CTT/CTTT	CCTTTGGAGGACGAAATGA	AATGGCCACGAATCTGAAAG	60.1	621	DRR	Ca_13933	--	--
Ca1_P2_39384808	Ca1	39384808	T/TA	GGGCCAAGAAACAACAAAA	TTCCACCAATCAATTAGGCA	59.0	105	INTERGENIC	--	--	--
Ca1_P2_39388747	Ca1	39388747	T/TGG	GAAGGTGAAGCTCCAAATGCAC	TTGTGACCTGTCATGTGGCT	60.2	716	INTERGENIC	--	--	--
Ca1_P2_39392030	Ca1	39392030	ATT/ATTT	AGCTACCCCATGGTAAGCCT	GCACCCATGCACCTTAGTCCT	60.1	729	INTERGENIC	--	--	--
Ca1_P2_39419858	Ca1	39419858	CTTTTTTTTTT/CTTTTTTTTTTTT	TGGGGAAGTTTTGATACAAGG	CTTTGTGCTGCATTTTCG	59.5	688	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_39428398	Ca1	39428398	TAAATCGATTGGGAAATCGATT/TAAAT CGATT	CGGAACCAATTGTTGG ACTT	GTGCCAGTCGATTGCC TAAT	60.1	284	INTERGENIC	--	--	--
Ca1_P2_39442566	Ca1	39442566	A/AT	GCCTCAAGGATCGGAT AACA	GCCAGTGTTCTGCTT CATA	59.9	917	INTRON	Ca_13931	Z	NAC
Ca1_P2_39442792	Ca1	39442792	A/ACT	TGAATGGCATGCAAGA AAAG	GCCAGTGTTCTGCTT CATA	59.9	631	INTRON	Ca_13931	Z	NAC
Ca1_P2_39444043	Ca1	39444043	TAGTTAA/TA	AATGATGGAAAAGCCG AATG	GGAGGGACCTGAAGTC ACAA	60.1	838	INTRON	Ca_13931	Z	NAC
Ca1_P2_39444170	Ca1	39444170	TAAA/TAA	AATGATGGAAAAGCCG AATG	GGAGGGACCTGAAGTC ACAA	60.1	838	INTRON	Ca_13931	Z	NAC
Ca1_P2_39445206	Ca1	39445206	ATTTT/ATTT	TTTACAGGGGTACCTT GGG	TCAAATTGAAGGCGTG TCAG	59.8	448	INTRON	Ca_13931	Z	NAC
Ca1_P2_39524520	Ca1	39524520	GA/G	CTTGGAGTTAGGGATG GCAA	TGAAACAAACGCACCC AATA	60.0	405	INTERGENIC	--	--	--
Ca1_P2_39575023	Ca1	39575023	ATTTTTTTT/ATTTTTTTTTTT	TCAGACCTCCATGAAA GCA	TGACCGTTTTTCTCCTT CGT	59.7	599	INTERGENIC	--	--	--
Ca1_P2_39598601	Ca1	39598601	TC/TCCC	TTTCGTTATTTAAGCTA CAACGG	GCGAAGATGGTGCCAA TAAT	59.9	930	INTERGENIC	--	--	--
Ca1_P2_39609113	Ca1	39609113	AATAT/AAT	ATGGCCTTTTCATTTTCA ACG	TTGTCTCAAGCGTTCAA TTTTT	58.9	725	INTERGENIC	--	--	--
Ca1_P2_39641416	Ca1	39641416	CTCT/CTCTTTCT	TAATTGCCCAATCTGA AGC	TGGAATGGAAGCGGTA CTTC	60.1	537	INTERGENIC	--	--	--
Ca1_P2_39675431	Ca1	39675431	CATATATATATATAT/CATATATATAT ATATATATATATAT	CACCAAAGACAGGACC ACCT	CCTAGGGTTTTTGGTT GGGT	60.1	784	DRR	Ca_13920	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_39733036	Ca1	39733036	CTGAT/C	TGATTGAGAGGGGAGA AAGG	AAACAGACCCCGAATG TCAC	59.8	117	DRR	Ca_13916	R	bZIP
Ca1_P2_39850133	Ca1	39850133	GTTAGTAATCAAAATTA/GTTA	CACAGCACCAGGTTAT CCCT	CTCCTTGTGGAGGGAC CATA	59.9	563	INTERGENIC	--	--	--
Ca1_P2_39871055	Ca1	39871055	TAAA/TAAAA	CATTGGCCACCTTTAG GAAA	TGCATTGCTTCAGTCAT GGT	60.3	329	INTERGENIC	--	--	--
Ca1_P2_39976327	Ca1	39976327	CA/CATA	TTTAAGAGAAGCGTTTG AGCG	CTTTGACTACGTTTCCC CGA	60.1	211	INTERGENIC	--	--	--
Ca1_P2_3999056	Ca1	3999056	ATCTCTCTCTCTCT/ATCTCTCTCTCT CT	CAAGCAGAAGCTACAA GGGG	TGAAGAACCATTTCCAA GCC	60.1	577	INTERGENIC	--	--	--
Ca1_P2_40089909	Ca1	40089909	TGG/TG	AGTTGGGTTTGGTTGC TTTG	CCCGTCAATTGCAGTC TCTT	60.3	390	INTRON	Ca_13902	J	NAC
Ca1_P2_4009762	Ca1	4009762	AT/ATT	CGCACACACTTTCTACG CAT	TTGATCTGGTCAAATAA GCCA	58.2	841	INTERGENIC	--	--	--
Ca1_P2_40142062	Ca1	40142062	AAAAATAAAATAAAATA/AAAAATAAAAT AAAAATAAAATA	GACAGAATTGGAGTGG GGAA	GGTTTGAGAACGATGA CACG	59.1	746	INTERGENIC	--	--	--
Ca1_P2_40224219	Ca1	40224219	TAAAAAAAAA/TAAAAAAAAA	CATTTCATCTGATTGG TGG	TCTTTGCCTCATAGGA GCGT	60.0	664	INTERGENIC	--	--	--
Ca1_P2_40225071	Ca1	40225071	ATTATTT/ATTATTTATTTATTT	GTTGGAAGTGTCCATTG GCT	AAGTCCGTTTCAGGGT TGTG	60.0	355	INTERGENIC	--	--	--
Ca1_P2_4024954	Ca1	4024954	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA/A AATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATA	TGGTTTTGATTGGAAG TCG	GGGTTTGCTCGGAGA TTGA	60.1	361	INTERGENIC	--	--	--
Ca1_P2_40277677	Ca1	40277677	AA/AACA	TTCCCTTTGCATTAGAT GGC	GAATCCATCGGGATGC TCTA	60.0	524	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_40665843	Ca1	40665843	TTATATATATATATATAT/TTATATATA TATATATATATAT	CCACGTCAATTTGACA TACATC	ACCAAGATCCGCTTAC ATGG	60.0	290	INTERGENIC	--	--	--
Ca1_P2_40688107	Ca1	40688107	TGG/TG	CACAACCTGAATCAATCC ACCA	TGAGGGTTTGAAGGA AAGA	59.8	587	INTERGENIC	--	--	--
Ca1_P2_4075360	Ca1	4075360	CTTTTTTTTT/CTTTTTTTTTTT	TTCTTTCACAAATTAGC TTGGATT	CGAATGACTGTCTCG TCCC	60.7	710	INTERGENIC	--	--	--
Ca1_P2_40756087	Ca1	40756087	CAAAAAAAAA/CAAAAAAAAA	AAGCGGCTTATGTGCTT GTT	ACGCTTTGTTGGGTGT AAGG	60.0	506	INTERGENIC	--	--	--
Ca1_P2_40795125	Ca1	40795125	AATATATATATATATATATAT/AATA TATATATATATATATAT	TGAAATCAATTGAGGAC ATTTCG	ACGTAGCGAGCCTCGA ATTA	60.0	547	INTERGENIC	--	--	--
Ca1_P2_40814689	Ca1	40814689	G/GCTT	TGAATGTTTTGTCTTGA AAATCG	CTATCACAGCCCGTA CCGT	60.0	146	INTERGENIC	--	--	--
Ca1_P2_40861492	Ca1	40861492	GTTTTTTTT/GTTTTTTTTTTTTT	ATTTCTAAACCGCAAA CCC	TCCACCCACGATACTG ATGA	59.9	941	INTERGENIC	--	--	--
Ca1_P2_40889769	Ca1	40889769	TTATATA/TTA	GCATCTCTTGATGCCCT TTT	AACATACGCCATACCC AAGC	59.9	289	INTERGENIC	--	--	--
Ca1_P2_40890558	Ca1	40890558	A/AC	CGGATTTGCAAGTGTC GTA	TGGGGTTTAGGATATC ACATCA	59.2	707	INTERGENIC	--	--	--
Ca1_P2_40890662	Ca1	40890662	CAAA/CA	CAAGAAACAAATTGCAA TGGA	TCAAGTTTGGGAGGAA CCAC	59.9	704	INTERGENIC	--	--	--
Ca1_P2_40953274	Ca1	40953274	G/GACT	CTTAACAAATGAGGCG GAGG	TAACCGATTTAGCCAC GGAG	60.1	187	INTERGENIC	--	--	--
Ca1_P2_41043357	Ca1	41043357	AATATATATATATATATATATATAT AT/AATATATATATATATATATATAT ATATATATATAT	TAGTGGCACCCCTACA CCTT	TTTCATTGAAATCCAT CCTC	59.0	604	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P2_4105789	Ca1	4105789	A/AGCACT	AAAAGTTTGCTGAGGA GCCA	AAAGGGCAAGGATGTG TTTG	60.0	163	INTRON	Ca_00493	D	TCP
Ca1_P2_41058981	Ca1	41058981	CTTTTTTTTT/CTTTTTTTTT	GCATGGGAATGGATT CTCT	TGGCTCATACACAGTTT TCTGG	60.2	679	INTERGENIC	--	--	--
Ca1_P2_41076452	Ca1	41076452	T/TAAC	AAATGGAACAGAAGCAA CCG	TGTGCACATGTCTCGA TTGAC	60.8	650	INTERGENIC	--	--	--
Ca1_P2_41103616	Ca1	41103616	T/TGAGAGAATTTA	TTATTAGGACGGACAAC CGC	TTGTTCTGTTGCGTTT AGC	59.9	284	INTERGENIC	--	--	--
Ca1_P2_41103687	Ca1	41103687	TACACACA/TACACA	GGACGGACAACCGCTA TTTA	TTGTTCTGTTGCGTTT AGC	59.9	278	INTERGENIC	--	--	--
Ca1_P2_41167792	Ca1	41167792	AATATATATATATATATATA/AATATAT ATATATATATATA	TTTTGGTCGGTATTCCA ATTT	GGGTCAAATGTATGG TCGG	60.1	802	DRR	Ca_18480	--	--
Ca1_P2_41208187	Ca1	41208187	GATATATATATATATATATA/GATATA TATATATATATATATATATA	CATGTGTGCATTGAAAA TAGGA	GAAAGGAAGCTCGGGC TAGT	60.0	174	DRR	Ca_18484	QR	B3
Ca1_P2_4131582	Ca1	4131582	AAAATAAATAAATAAATAAATAAA/ AAAATAAATAAATAAATAAATAAAT AAATAAATAAATAA	TCCGAATAATCGCATA CCC	CCAGAGAGACAGATGC ACCA	60.0	631	INTERGENIC	--	--	--
Ca1_P2_41503661	Ca1	41503661	CAAAAA/CAAAAAA	TCGATTATGCGTAGGG AAGG	AGCTTTGATTTCTCCAT CGC	59.4	272	DRR	Ca_23123	--	--
Ca1_P2_41503912	Ca1	41503912	TCC/TC	TCGATTATGCGTAGGG AAGG	CTTGGTGTTTTGAAA CTCAAT	58.2	540	INTERGENIC	--	--	--
Ca1_P2_41504479	Ca1	41504479	CTT/CTTT	AAATTGAGTTTCAAAAC CACCAA	TGCTCAGCTACGGTTC CTTT	60.0	883	INTERGENIC	--	--	--
Ca1_P2_4157854	Ca1	4157854	TA/T	GTGGACACGCGTATGA TTTG	TAACAGCGATGCAAT TGAG	59.8	307	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_41639098	Ca1	41639098	GAAAAAAAA/GAAAAAAAAA	ACCCCTATTGATGTCCTC	CAAAAGTCCCTTATTGCTTTG	60.0	592	INTERGENIC	--	--	--
Ca1_P2_4165803	Ca1	4165803	CTATATATATATATATAT/CTATATATATATATAT	CTCTTTGCCCTTTGAATGC	CACAATATTGCCACACAGC	60.0	405	INTERGENIC	--	--	--
Ca1_P2_41683229	Ca1	41683229	AATATATATATATATA/AATATATATATATATA	GCTGAGCACACGATCCTTTT	GGATTTCCTGAAATGCTCCA	60.2	634	INTERGENIC	--	--	--
Ca1_P2_41695402	Ca1	41695402	CTA/CTATA	TACTTCCATGCAAACCA GCA	CCAACTCTGAAATACAA AAGCCA	60.5	486	INTERGENIC	--	--	--
Ca1_P2_41695561	Ca1	41695561	ATTTTTTTTT/ATTTTTTTTTTT	TTCCAAAGTATTGTGGG ACACTT	TTGTTGGAGATAATTGA AGCTGA	58.9	964	INTERGENIC	--	--	--
Ca1_P2_41704419	Ca1	41704419	CATAAAT/CATAAT	GGGGAATTTTCATTT GTGG	TGTTTTGGTTTCAAGG GACA	59.0	311	INTERGENIC	--	--	--
Ca1_P2_41704503	Ca1	41704503	CTTTTTT/CTTTTTT	GGGGAATTTTCATTT GTGG	TGTTTTGGTTTCAAGG GACA	59.0	311	INTERGENIC	--	--	--
Ca1_P2_41705538	Ca1	41705538	AATTAT/AAT	CATCACGTAACATGAC TTACCA	ACATTGCACATCGAAC GAAA	60.1	263	INTERGENIC	--	--	--
Ca1_P2_41705653	Ca1	41705653	ATTTTTTT/ATTTTTTT	CATCACGTAACATGAC TTACCA	TCCCAATAATTTTCCT TTTCG	59.4	723	INTERGENIC	--	--	--
Ca1_P2_41718814	Ca1	41718814	T/TG	GGGTCGAATGTCGATT CTGT	TCATCTCTCAGCCCCA CTCT	59.9	156	INTERGENIC	--	--	--
Ca1_P2_41719424	Ca1	41719424	AATATATATATATATAT/AATATATATATATATATAT	TCCGCTCATCATCACAA AAA	ATTCTTTACAAGCTCTT AAACCTCA	57.1	478	INTERGENIC	--	--	--
Ca1_P2_41748047	Ca1	41748047	CCGTATT/CCGTATTGATT	ATTGGAGGATTGTTGAT GCC	GAAAAATTAAACCCCC GGAA	60.0	303	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_41774189	Ca1	41774189	CAAA/CAA	TCCATTCACTTGTG GGA	GGCACATTCATGTCA GACG	60.1	237	DRR	Ca_22517	G	--
Ca1_P2_41817802	Ca1	41817802	TAT/TATTATTATAAT	TTTTTGTGATGTGGTT CATCC	TCACCTTGCTTATCGTG GTTT	59.6	498	INTERGENIC	--	--	--
Ca1_P2_41863807	Ca1	41863807	GTTTTTTT/GTTTTTTTTT	GGGAGGGTTACACATT GGAG	AAGGGTGCAATCACTA CCTCA	59.6	962	INTERGENIC	--	--	--
Ca1_P2_41864496	Ca1	41864496	GAAAAAAAA/GAAAAAAAAA	TTATGGATGACCCCTTC CAA	AATTACAATGTATGTG GGGGT	57.2	231	INTERGENIC	--	--	--
Ca1_P2_41912357	Ca1	41912357	AATATATATATATATATATAT/AATATA TATATATATATATAT	TATGGTTCAAATTGCGA CGA	TGTTATATTTTGTCTATG TCCTCGG	58.1	689	INTERGENIC	--	--	--
Ca1_P2_419222	Ca1	419222	TAAAAATTGAAAAATTGAAAA/TAAAAAT TGAAAA	TCTGAGCTCGTTCAAAT GGA	GTTGGAAGGGACAAAA GGGT	60.2	593	INTERGENIC	--	--	--
Ca1_P2_41978699	Ca1	41978699	TAAAAAAAA/TAAAAAAAA	GAGAGTCGATGAGCGA CAAC	AATTCTTTTCCACGCAA TGG	59.9	782	INTERGENIC	--	--	--
Ca1_P2_41998443	Ca1	41998443	CG/CGG	CCATTTTCTCACGTGC TTTC	ATCCCTCTATTGGTGG GTCC	60.0	339	INTERGENIC	--	--	--
Ca1_P2_42021612	Ca1	42021612	TAAA/TAAAA	CTCCTTCAGTTTGAGA CACGA	TCGATTATGCGTAGGG AAGG	60.1	442	INTERGENIC	--	--	--
Ca1_P2_42026239	Ca1	42026239	AAACAACGACAACAACGACAAC/AA ACAACGACAACAAC	TCCTTCATATGACCA GCC	TCGTGGTGTGTCAT TGTT	60.0	321	INTERGENIC	--	--	--
Ca1_P2_42026909	Ca1	42026909	AACAACAACGAC/AACAACAACGACAAC AACGAC	GACGACGACAACATGA CGAC	TGTTGTTGCCGTTGTT GTTT	60.1	374	INTERGENIC	--	--	--
Ca1_P2_42081964	Ca1	42081964	AT/ATT	TCAAAATCAAGCAGTGA TTCG	TGCAAAATAATGGCCA AACA	59.9	858	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_4211915	Ca1	4211915	TTATATATATATATATATATA/TTATATAT ATATATATATATATA	ATCTCTCACGCGACGA AGTT	CCAAATCCGTTCCGCT AGTA	60.1	276	INTERGENIC	--	--	--
Ca1_P2_42209181	Ca1	42209181	GAAA/GAAAA	TTTTTCCCCTTATGGT GAG	GCGAGCATGAGAAGTT GTTG	59.6	319	INTERGENIC	--	--	--
Ca1_P2_4233360	Ca1	4233360	TTTAAATTAAATTTAAATT/TTTAAAT TAAATT	TAATGGGCTTCGTGGG TTAG	GTGCAGCACATTCGAG AGAA	60.1	683	DRR	Ca_00504	--	--
Ca1_P2_42363852	Ca1	42363852	GAAAAAAA/GAAAAAAA	TGAGGATGTCCATGTT CTTT	TTGACACAATATCCAGC GTGA	60.1	323	INTERGENIC	--	--	--
Ca1_P2_42374683	Ca1	42374683	ATA/ATATATATTAAATTA	CAGAGAGATGAGAGCC AGGG	AAGTTAAGGAACCGTT GATGC	58.3	302	INTERGENIC	--	--	--
Ca1_P2_42426294	Ca1	42426294	A/AC	CTTCGGGATTCTAACC ACA	TGGGGAGAGGAATTGA TACG	59.9	698	INTERGENIC	--	--	--
Ca1_P2_42432936	Ca1	42432936	AATATATATATATATATATAT/AATATA TATATATATATAT	CAAATTCCTCTTGCTCC ACC	TGAAAGCTGATGAAAT GGTC	57.8	695	INTERGENIC	--	--	--
Ca1_P2_42526018	Ca1	42526018	GAA/GA	TGCTCGACTACAAAAAT CCCA	ATGGATGATGGGTCGA CATT	60.0	507	INTERGENIC	--	--	--
Ca1_P2_42572678	Ca1	42572678	TTATATATATATATATATA/TTATATAT ATATATATATATATA	TTCTCGTATTTCACCC GTC	ACGATGATGACGATGA CGAA	60.1	351	INTERGENIC	--	--	--
Ca1_P2_4260907	Ca1	4260907	A/AC	TTCAGCCTCGTCAGCTT TTT	TGTAATGACACCGTT CATCA	58.9	294	DRR	Ca_00507	--	--
Ca1_P2_42712797	Ca1	42712797	TCCA/T	GCTCGTCGAACCTTTTC AGG	AAAGCATCTCACACAG CACG	60.1	429	INTERGENIC	--	--	--
Ca1_P2_42712903	Ca1	42712903	CGTGT/CGT	AACAACAATTTCCCTTT GCG	TCTCCAGCAAAAGTCG TGTG	60.0	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_4359134	Ca1	4359134	AATATATATATATATATATAT/AATATA TATATATATATATATAT	GTTGGGGTTTGTCTA CCTA	GGGCAAGCCCAACCTA TTTA	61.2	379	INTERGENIC	--	--	--
Ca1_P2_4360786	Ca1	4360786	TTA/TATCGTA	CGTCTGGTATCCGTCAT GTG	TTGACTTTGTAAGTTGG AGTTTATTCA	59.6	492	INTERGENIC	--	--	--
Ca1_P2_43638401	Ca1	43638401	A/ATATGTC	CGCTTCATGTGTGTG CTTT	ACCCCTCCTAAGTGGG TTGA	60.7	857	INTERGENIC	--	--	--
Ca1_P2_43704336	Ca1	43704336	T/TGACA	GGCCACTAAAAAGTGT CCCA	CCTTCTCCTGTACGCG AGTC	60.0	358	INTERGENIC	--	--	--
Ca1_P2_43781549	Ca1	43781549	CG/CGTGGTGGTTAG	ATCGGTGAACGAGGAT CAAG	CTTTCCTTCCGGTGAA CAA	60.1	747	INTRON	Ca_13549	--	--
Ca1_P2_43834719	Ca1	43834719	CTTATTATTATTATTATTATTATTAT TATTAT/CTTATTATTATTATTATTAT TATTATTAT	AACCCCTACCTTGCCCA CTT	AAAGGCCCTCGTCATG TTTA	59.6	867	INTERGENIC	--	--	--
Ca1_P2_43867975	Ca1	43867975	AATATATATATATATATATATATA/A ATATATATATATATATATATATA	TTGCTGGCATAAGTGAA TCG	CCGTGAATTTTCATGG AATAAA	58.8	711	INTERGENIC	--	--	--
Ca1_P2_44045336	Ca1	44045336	CAAAAAAAAA/CAAAAAAAAA	GAAGTGTGGGAACAAC ACGA	AAGTGAACCAATGTT TGGC	59.8	474	INTERGENIC	--	--	--
Ca1_P2_44093089	Ca1	44093089	G/GAA	AAAGAGCCAAGAGCCA AACA	TATTTTGAGCCAGT GGTG	60.9	522	DRR	Ca_13529	S	--
Ca1_P2_44103543	Ca1	44103543	CTATTATTATTATTATTATTATT/CTA TTATTATTATTATTATTATTATT	GCCACATTTATTCAATC GCA	GACCAAGTAGGAAGTCG CTGG	59.9	904	INTERGENIC	--	--	--
Ca1_P2_44103725	Ca1	44103725	TAA/TA	TTTTCCAATCATACGAA TCATTTTT	GACCAAGTAGGAAGTCG CTGG	59.9	667	INTERGENIC	--	--	--
Ca1_P2_44103753	Ca1	44103753	T/TC	TTTTCCAATCATACGAA TCATTTTT	GACCAAGTAGGAAGTCG CTGG	59.9	667	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_44172001	Ca1	44172001	GTTTT/GTTTTT	ACCTATGCCCACTGAT GAGG	GCAATTGCCAATGACG ACTA	59.7	750	INTERGENIC	--	--	--
Ca1_P2_44201341	Ca1	44201341	TAAAAAAAAA/TAAAAAAAAA	CAACGCATCAAGCTATT CCA	TATGCATGCGGACAAG AGTC	59.8	695	INTERGENIC	--	--	--
Ca1_P2_44247311	Ca1	44247311	GTTTTTTTTT/GTTTTTTTTT	TTCTCCAGACTCTAGCC CGA	AGCTTCTCAGTAGGGG GCTC	60.0	592	INTERGENIC	--	--	--
Ca1_P2_44325935	Ca1	44325935	TAA/TA	TCTAGGTGTACACATCG CCG	AACCCAATAGTGGTGG TGGA	60.1	297	INTERGENIC	--	--	--
Ca1_P2_44351850	Ca1	44351850	TTATATATATATATATA/TTATATATATAT ATATATA	TGAAATTCGGAAGAACC AGG	CGCATTCCCTTCACCT CTAA	60.2	111	INTERGENIC	--	--	--
Ca1_P2_44376568	Ca1	44376568	C/CCAGAAA	CAGGGAACACGAAATG GAGT	TGACATTTGCCATCAAA GGA	60.0	757	INTERGENIC	--	--	--
Ca1_P2_44442119	Ca1	44442119	GACTTCTTTATTAACCA/GA	ATGGCATGTGGTTTTT GTTT	GTCGCACCGTAATTAT GCCT	60.0	433	DRR	Ca_23499	--	--
Ca1_P2_4444544	Ca1	4444544	AATATATATATATATATATA/AATATAT ATATATATA	AATCGATTGGCTGAAAT CCA	GACATTAAACAGCGCC CATT	60.0	663	INTERGENIC	--	--	--
Ca1_P2_44467058	Ca1	44467058	T/TG	ATGCAGCTCAAAACAG CCT	GGTTCACCAAAAGATG GCTA	59.9	537	INTERGENIC	--	--	--
Ca1_P2_44467119	Ca1	44467119	GTT/GTTT	ATGCAGCTCAAAACAG CCT	GGTTCACCAAAAGATG GCTA	59.9	537	INTERGENIC	--	--	--
Ca1_P2_44589434	Ca1	44589434	TA/TATAAAACA	TTGGTTTATTTGGGTG GGA	AATAATGGCGTTTCGGA TTGA	60.3	797	INTERGENIC	--	--	--
Ca1_P2_44592980	Ca1	44592980	TAATGA/TAATGAATGA	TATTTGGGGTTATCGA GCG	TTCCTGGTGGGATTCA CATT	60.2	437	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_45033030	Ca1	45033030	ATTTTTTTT/ATTTTTTTTT	TTTCCCATGCAGAGT AGG	TAAACCAGCCACTAAG GCGT	59.8	894	INTERGENIC	--	--	--
Ca1_P2_45057964	Ca1	45057964	CAAA/CAA	AAACTAGATTATGGCCT GCG	TGCTCGCAATTAACA TGC	59.8	426	INTERGENIC	--	--	--
Ca1_P2_45058076	Ca1	45058076	TAAAAA/TAAAAAA	AAACTAGATTATGGCCT GCG	TGCTCGCAATTAACA TGC	59.8	426	INTERGENIC	--	--	--
Ca1_P2_45082109	Ca1	45082109	CATATATATATATATATATATATAT ATAT/CATATATATATATATATATATAT ATATATATATATATATATATAT	GTGGCAGCTTCACTTG TTCA	CTCGTCGAATTCGGGT ATGT	60.0	899	INTERGENIC	--	--	--
Ca1_P2_45104438	Ca1	45104438	TTAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA TAATAATAATAA/TTAATAATAATAATAAT AATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA	TTTCAGGCGATTTTCGT ACC	AAGTGGGAACGTTGA CTTG	60.0	744	INTERGENIC	--	--	--
Ca1_P2_45231841	Ca1	45231841	T/TATTGTGGCAG	TGCTATCAATTGTGCTC CCA	TTCATTGATCGGGGT TAAC	59.9	619	INTERGENIC	--	--	--
Ca1_P2_45232358	Ca1	45232358	T/TAGCAATAATG	GTTAAGCCCCGATCAAT GAA	CATCCCTCTTTAACC CAT	60.0	515	INTERGENIC	--	--	--
Ca1_P2_45243785	Ca1	45243785	TA/TAGACA	TGTGCCAAGGTTTCAG AACA	CTTTATTGCAAGACCC CGA	60.1	605	DRR	Ca_26020	--	--
Ca1_P2_45246034	Ca1	45246034	C/CGTCTTGTT	CGATTCGCTTTTAGCA TCC	CAATTGCGATATTATGG GGG	60.0	253	INTERGENIC	--	--	--
Ca1_P2_45253870	Ca1	45253870	TA/T	TGCCAATAAGGCAATGT GAA	TGGATTAGGAGCGTGA AAACA	60.6	478	INTERGENIC	--	--	--
Ca1_P2_45339273	Ca1	45339273	TA/TAA	TGATTGGGAAATCGATT GGT	TTGATCCTTGACGTCA CTCG	60.0	566	DRR	Ca_24431	--	--
Ca1_P2_45354235	Ca1	45354235	AATATATATATATATATATATATAT AT/AATATATATATATATATATATATAT ATATATATAT	TGACTTGACTCTTGTC GCA	CAAAGTGTGGGCTC CTGT	60.1	596	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_45392704	Ca1	45392704	ATTT/ATTTT	GGGGGCTCTTCATTTT CTC	CACAGTTTCATCGCTC CTCA	60.0	476	INTERGENIC	--	--	--
Ca1_P2_45394591	Ca1	45394591	CAAAAAAAAA/CAAAAAAAAA	GGCCCTGATCCAGAA CATA	TGGTTCCTCTGTCTTC GTG	59.9	847	INTERGENIC	--	--	--
Ca1_P2_45441724	Ca1	45441724	CAAAAAAAAA/CAAAAAAAAA	GCCCTGAGATGAGAGT CAGG	CTGCTGTAAACCCCG TTTT	60.0	459	INTERGENIC	--	--	--
Ca1_P2_4547442	Ca1	4547442	TA/TAGAGAGA	TCGAACACCAACGC TATC	CATTTTCCCAACCAAC AAC	60.1	356	INTERGENIC	--	--	--
Ca1_P2_45497100	Ca1	45497100	CTTTTTTTTT/CTTTTTTTTTTTT	AGTATAAGTGGGGCCG TGTG	TGGATTGTGCCAATTT TCA	60.1	237	INTERGENIC	--	--	--
Ca1_P2_45512409	Ca1	45512409	AAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAAT A/AAATAATAATAATAATAATAA TAATAATAATAATAATAATAATA ATAATAATAATA	TCTCAATTCTGCAACGC ATC	GCTTAGCACCGCTTTT CATC	60.0	881	INTERGENIC	--	--	--
Ca1_P2_4551372	Ca1	4551372	GTGAATTT/GT	AACCACGACTAATTGT CTCA	AGTGTTCACGTGGCT GTTG	59.8	187	INTERGENIC	--	--	--
Ca1_P2_45566205	Ca1	45566205	GT/GTT	ATTTACGACGGACAA GCTG	AAGAGGATGAGCAACG CACT	60.0	635	DRR	Ca_24438	--	--
Ca1_P2_45609121	Ca1	45609121	C/CT	TCGCGTGAGAAATAAT CCC	CGAACCTCGGTAAC AAAA	60.0	295	INTERGENIC	--	--	--
Ca1_P2_45635524	Ca1	45635524	AATATATATATATATATATATAT AT/AATATATATATATATATATAT ATATATAT	ATGTTTTGGATTTTGGC TCG	GGAGAAGGAGGGAGA AATGG	60.0	433	INTERGENIC	--	--	--
Ca1_P2_45737919	Ca1	45737919	TAAAAAAAA/AAAAAAAA	TGAGCATGGCTAAGTT GCAT	TGAGTGTGTTGATCG ACTGG	59.7	391	INTERGENIC	--	--	--
Ca1_P2_45749239	Ca1	45749239	GAAAAAAAA/GAAAAAAAA	TTGTGCGCTTGACTGAT GTT	GTTTTGGCGTTGTTT CACT	60.0	857	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_46526676	Ca1	46526676	TAAA/TAAA	TTAAATTCCGAGGCGA AAA	ACATGGTTGTGGTGGT GATG	60.1	698	INTERGENIC	--	--	--
Ca1_P2_46528558	Ca1	46528558	CT/CTT	TTAAATTCCTCCTCG GCT	AACTCTGGGAACCTC CTGT	60.0	398	INTERGENIC	--	--	--
Ca1_P2_46528763	Ca1	46528763	G/GC	TTAAATTCCTCCTCG GCT	GGGGAACATCCCGT TATT	59.9	865	INTERGENIC	--	--	--
Ca1_P2_46530950	Ca1	46530950	CAAAATGAAAATTGAAAATT/CAAAATGA AAATT	ATTTGAGAATGTTCCGG CAA	GTCTGCGGATAATTC GCTT	59.3	665	DRR	Ca_21551	M	--
Ca1_P2_46531041	Ca1	46531041	T/TG	GCGAAAATAATGTTGAT GCAGA	GTCTGCGGATAATTC GCTT	59.3	139	DRR	Ca_21551	M	--
Ca1_P2_46539303	Ca1	46539303	TTCAAATCTTCATCAAATCTTC/TTCAA TCTTC	TCAAGCCAATCTTCCCA AAC	TCTGATGACAAAAGGG GGAG	60.0	757	INTERGENIC	--	--	--
Ca1_P2_46539360	Ca1	46539360	CAA/CAAAA	TCCCAACAGCCTGATA ACC	CTGATGACAAAAGGG GAGA	60.0	744	INTERGENIC	--	--	--
Ca1_P2_46598729	Ca1	46598729	GATATATATATAT/GATATATATATATAT	TGATTTGTTAGCTTGTG GCAA	TGGAAGCATGATCCTC AACA	60.2	477	INTERGENIC	--	--	--
Ca1_P2_46779104	Ca1	46779104	AATATATATATATAT/AATATATATATA TATATAT	TGCCAACCCACATCAC TAA	GCAGCTACGGACTCGT TTTC	60.0	617	INTRON	Ca_25114	--	C2H2
Ca1_P2_46797747	Ca1	46797747	CCCTAAACCTGAAATCCTAAACCTGAA A/CCCTAAACCTGAAATCCTAAACCTGA AATCCTAAACCTGAAA	AAACCCGAAACGCTTAA CCT	AGGGTTTCTGGTGTAG GGCT	60.0	385	INTERGENIC	--	--	--
Ca1_P2_46831943	Ca1	46831943	CTTTT/CTTT	GTGGTTGGTTTGAAG AGGT	AACTGGGTGAGAGCCT GAGA	60.0	725	INTRON	Ca_25116	U	--
Ca1_P2_46856347	Ca1	46856347	GCT/GCTGAACT	ATGCAATCCGATAAGCA ACC	ACGATTTAGAAGAGG CGCA	60.0	980	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_47883205	Ca1	47883205	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	GTCGGCAAACATATG CCTT	ACCGCTTAATCGTGAC CAAC	60.0	629	INTERGENIC	--	--	--
Ca1_P2_47906772	Ca1	47906772	AATATATATATATATATATAT/AATATA TATATATATATATATAT	CAACTTGGGTTTTGGTT TCC	AATGGCTGAGACAGCT ACCC	59.3	520	INTERGENIC	--	--	--
Ca1_P2_47913934	Ca1	47913934	CTTTA/CTTTATTTA	ATACCCAGGGACGGTT TTTC	ATGTACGTGGCTTTGC ATGA	60.1	383	DRR	Ca_12886	O	E2F/DP
Ca1_P2_47916750	Ca1	47916750	ATT/ATTTAGGTTT	GTTGGTGATGCCACTG AATG	GAGAGAAAGGCAAGTG TGGG	59.8	979	DRR	Ca_12885	O	M-type
Ca1_P2_47920789	Ca1	47920789	TTTATTATTATTATTATTATTATTATT ATTATT/TTTATTATTATTATTATTATT TATTATTATTATTATTATT	AGTTGTTTCATCGCAACA TCG	CAACTTCATTCGTTTTG GCA	59.7	629	INTERGENIC	--	--	--
Ca1_P2_47945221	Ca1	47945221	TCAAGCCA/TCA	AGGACATGCGCAAAAG ATGG	GTCATGTATGCATTGG GCAG	60.0	226	DRR	Ca_12882	R	--
Ca1_P2_48010052	Ca1	48010052	TTATATATATATATATATATATATA/TT ATATATATATATATATATATATATATA	TGCTCACGTGCTTTTCC ATC	TTTTTCACGAACTTCTC CGC	60.4	677	INTERGENIC	--	--	--
Ca1_P2_48064288	Ca1	48064288	TTATATATATATATATATATATATA/TT ATATATATATATATATATA	TGGGTGATAGATGAG AGGC	TCTGAATAGGTTTGGT CGGC	60.1	404	INTERGENIC	--	--	--
Ca1_P2_48091761	Ca1	48091761	TAAAAAAA/TAAAAAAA	TCTGGAGATGGGACCT CTTG	CCTAATCGGAGGAAGT TGTT	59.0	700	INTERGENIC	--	--	--
Ca1_P2_48099930	Ca1	48099930	TAAAAAAA/TAAAAAAA	ACAAACGCCAATGTTGA TGA	GGTAACAACCGATTCC CCTT	60.1	244	INTERGENIC	--	--	--
Ca1_P2_48114146	Ca1	48114146	TTATATATATATATATATATATATA/TTA TATATATATATATATATATAT	TGATTGTTGTTGGGCC ACTA	TTTGTCTCCATTTTGC TTTTG	59.3	807	INTERGENIC	--	--	--
Ca1_P2_48172069	Ca1	48172069	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA TAATAATA	TAAATGGCAGGTAAAG GCGA	AGACTTTGCTGCCACC TCAT	59.9	315	DRR	Ca_12862	R	WRKY

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_48210401	Ca1	48210401	ATATATATATATT/A	TGACATTGCCGGTGAA ATAA	CACTGTGTTGTGTGTG CTGC	60.0	489	INTERGENIC	--	--	--
Ca1_P2_48236817	Ca1	48236817	TAA/TA	TGGGTGTTGCCATATA TCA	TTTGGATCCATTTCA TGATT	58.3	626	INTERGENIC	--	--	--
Ca1_P2_48261489	Ca1	48261489	TAAAAA/TAAAAA	GGCAACATGGTGAAGA GACA	TCTTCTTTATGGACCA CCC	59.1	611	INTERGENIC	--	--	--
Ca1_P2_4900100	Ca1	4900100	TATCAAT/TATCAATCAAT	TCTTTGCAGCATGCTTT TTG	TTTCTGAAGCGACCAA TTCC	60.2	561	DRR	Ca_00575	--	--
Ca1_P2_4900555	Ca1	4900555	AGAAGTAGACTCTGAAGTA/AGAAGTA	GGAATTGGTCGCTTCA GAAA	TCCATAAGCTGATCCC CAAG	60.0	428	DRR	Ca_00576	R	M-type
Ca1_P2_4907874	Ca1	4907874	AGGGAAANNNNNNNGGGAAA/AGG GAAA	CGTGGGAGAGAAAAAG CAAG	GTTTGAAGCATCACAA GCGA	60.0	592	CDS (FRAME SHIFT)	Ca_00577	T	M-type
Ca1_P2_49600	Ca1	49600	CTT/CT	TGGGTTCAAATTTCTCG ACC	GAACCATATTGCCACC CATC	60.0	916	INTERGENIC	--	--	--
Ca1_P2_5002157	Ca1	5002157	AATATATATATATATATATATAT/AATATA TATATATATATATATATATAT	AAAGGGACGTGTATCG TTGG	TTGGCGGCTTCGTATA ATTG	60.1	488	INTERGENIC	--	--	--
Ca1_P2_5040464	Ca1	5040464	ACC/AC	CAAAATGCTCGCAATGA GAA	GAACCCCATGTGGT TGAT	59.6	635	INTERGENIC	--	--	--
Ca1_P2_5106336	Ca1	5106336	CT/CTCTAT	CGAGTGATTGCTTCAT TGG	TGTTACGCATTGTTG GGAA	60.0	651	INTERGENIC	--	--	--
Ca1_P2_5132478	Ca1	5132478	GT/GATCCCGCTCATTCT	GAGTCCGATCCACCGT AGAA	AGTTCCAGCTTGCTTC CAAA	60.0	722	INTERGENIC	--	--	--
Ca1_P2_5189106	Ca1	5189106	TTAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/TTAAT AATAATAATAATAATAATAATAATAA TAATAATAATAATAA	TGGTGGCTACCACATG AAGA	GGAGAACGTTAAGGCA GCAG	60.0	716	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_5254524	Ca1	5254524	CATTCAATTCATTATT/CATTCAAT T	AATTCACCCAAACGACC AAC	ATAATTGGTTGGAGCC CACA	60.2	521	INTERGENIC	--	--	--
Ca1_P2_5255796	Ca1	5255796	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATT ATTATTA	CCGTTGAAAACGTGGA TCTT	GTGTGTCGGTGCTTTT TGAA	59.7	990	INTERGENIC	--	--	--
Ca1_P2_5273611	Ca1	5273611	TTATATATATATATATATATAT/TT TATATATATATATATATATATAT AT	TGCATTAAATTTGAAAA CGTCAA	TGTTTGCCACGGTTGT TAAA	60.0	593	INTERGENIC	--	--	--
Ca1_P2_5341655	Ca1	5341655	TTATATATATATATATATATATAT/ TATATATATATATATATATATAT	GGAAGGTTATCTCCAC ACGAA	CATCGGTAACCATGTG CATC	59.8	562	INTERGENIC	--	--	--
Ca1_P2_5376097	Ca1	5376097	ATGGTGGTG/ATGGTG	AAAAGATTAGTGGCTG CCGA	TTTGTGGTGGTCAAAG TCCA	60.0	219	INTERGENIC	--	--	--
Ca1_P2_5403862	Ca1	5403862	C/CTTTATTATT	ACGGTTGACTAATTGTG CCA	TCGCATCCCTACGATA CGAT	60.5	629	DRR	Ca_00627	--	--
Ca1_P2_5421383	Ca1	5421383	AAA/AAATAA	GCTGGGTTTCAGGTTT GAGA	CAGGGTGGCTCTTGCT AAAC	59.9	579	INTERGENIC	--	--	--
Ca1_P2_5423307	Ca1	5423307	CTTTT/CTTTT	CGGGGTAGTTTGTAT TCCC	GGTGACGCCTTTAATT TGC	59.6	640	INTERGENIC	--	--	--
Ca1_P2_5425033	Ca1	5425033	TTTTATT/TTTTATTATTATT	TCACGGTGAAAGTCT GTGC	AAATCCCAATAAGCAAG GCA	59.5	427	INTERGENIC	--	--	--
Ca1_P2_5433441	Ca1	5433441	TC/T	TCGGGATTGTGTTT ACCA	GGGCCCTATGCCTTT TATG	60.6	511	INTERGENIC	--	--	--
Ca1_P2_5441585	Ca1	5441585	TGACTCCAGA/TGA	TGGATGAATTTGGTTG GATTT	ACTTGAATTCATGCA GGC	60.1	688	DRR	Ca_00629	G	--
Ca1_P2_5445910	Ca1	5445910	GTAATAATAATAA/GTAATAATAA A	GAACGCAATTAGGTCA GGGA	CACAAGGCAACACAAC GATT	59.6	364	DRR	Ca_00630	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_5447363	Ca1	5447363	AAGAGAATGAGAGA/AAGAGA	AACAATTTGGGGTCATT ATTGC	ATTTTGATTGGGTAGC GCAG	60.1	580	DRR	Ca_00630	--	--
Ca1_P2_5464246	Ca1	5464246	T/TC	TGGTAAATGGCCATGA GGAT	CCCTCAACACACTCAT GTGG	60.0	468	INTRON	Ca_00631	--	--
Ca1_P2_5482579	Ca1	5482579	TAAA/TAAAA	ACAAATCCGGATCGAAA CAC	GATTTGCTGCCACTCC TCTT	59.4	929	DRR	Ca_00633	--	S1Fa-like
Ca1_P2_5484796	Ca1	5484796	TAA/TAAA	CGCGCGTTGTGTTTATA AGT	TTACCAAGATTGCCCC TCTG	60.1	444	INTERGENIC	--	--	--
Ca1_P2_5488076	Ca1	5488076	ATGTGT/ATGTGTGT	ATCCCATAGTTCCCTC CAC	ATGGCCTCCACTTTGA TTTG	59.9	300	INTRON	Ca_00634	--	--
Ca1_P2_5500920	Ca1	5500920	CTAT/CTATAACGTCATAT	GGAAGGGAATCGATGA GAAA	TATTCATTGGTTGGGG GAAA	60.0	456	INTERGENIC	--	--	--
Ca1_P2_5501358	Ca1	5501358	CAA/CA	TTTCCCCAACCAATGA ATA	CTTGCTTTGTGCCATG AAGA	60.0	523	INTERGENIC	--	--	--
Ca1_P2_5521185	Ca1	5521185	ATTTTT/ATTTTTT	TCGGGAACATCTATCCA ATCT	GTGCCACCGTTATGAT GCTA	59.6	138	INTERGENIC	--	--	--
Ca1_P2_5529079	Ca1	5529079	ATTTTTTTTT/ATTTTTT	AGCCCGTGAGCATACA GTTC	ATCCATCCCAACTCA AGC	59.9	599	INTERGENIC	--	--	--
Ca1_P2_5531171	Ca1	5531171	AATATATATATATATATATA/AATAT ATATATATATATATA	TGCTTCTCTTGCTTTT TCC	CCAAACTTCCCACATTG GAG	60.3	265	INTERGENIC	--	--	--
Ca1_P2_5600652	Ca1	5600652	AGG/A	TTGGAATTGTGCCAATG TGT	TCAATATGGGTCCACT GTGC	59.4	269	DRR	Ca_00644	--	ERF
Ca1_P2_5611256	Ca1	5611256	ATTTTTTTTT/ATTTTTTTT	TCTCAGAACCGACACT GTTCA	TGAATTCAGGTGAGCG TGAG	60.0	886	INTRON	Ca_00645	--	G2-like

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_6130097	Ca1	6130097	T/TG	GAAATAATTAACGCCG CAA	CGTGTGGGTCTGTGAT GTTC	60.0	456	INTERGENIC	--	--	--
Ca1_P2_6137600	Ca1	6137600	T/TC	TTCATAGAAGGCGAC GGTT	CATTCCGGAGCCAGT AAAA	60.1	412	INTERGENIC	--	--	--
Ca1_P2_6142050	Ca1	6142050	T/TTAA	AAGATTCAACCTCCCCA ACC	TTGGATTAGGGTGAGG AACG	59.9	416	INTERGENIC	--	--	--
Ca1_P2_6156071	Ca1	6156071	AACACAC/AACAC	TTCGTGAAAGCTTCCGT CTT	TTTAACCGCTGGTTTTA CCG	60.0	315	DRR	Ca_00700	G	--
Ca1_P2_6156406	Ca1	6156406	TTA/TTATA	TTGGCAAAAATGCGATA ACA	TCCATCAACCAAAATGA ACA	57.4	847	DRR	Ca_00700	G	--
Ca1_P2_6156764	Ca1	6156764	AACGT/AACGTACGTA	AAGGGAGTGGGATTTT TGTTTT	TGGTCTCAATGACAC TCCA	60.1	836	DRR	Ca_00700	G	--
Ca1_P2_6158170	Ca1	6158170	ATTTT/ATTT	TGGTTTGTCATTCCGGT CAT	ATGTCTCATTGCTC CCC	59.9	359	INTERGENIC	--	--	--
Ca1_P2_6174612	Ca1	6174612	TTAT/TTATAT	CCTCTCATCCACATCCA TCC	GATATCCATCGGCTTA CGACA	59.9	538	INTERGENIC	--	--	--
Ca1_P2_6176716	Ca1	6176716	GGAAT/G	GCACATAGATAGGTGC CTGC	CGGGCTGAACATTAC CACC	59.5	162	INTERGENIC	--	--	--
Ca1_P2_6176982	Ca1	6176982	A/AAT	GGTGGTAATAGTTCAG CCCG	AATCTTGCCAATGTT TGT	57.1	564	INTERGENIC	--	--	--
Ca1_P2_6202713	Ca1	6202713	CTTTTT/CTTTTTT	CGCTTCCTTCTTCACAC ACA	AAAAGGCAATACATCA ATCAA	58.5	640	INTERGENIC	--	--	--
Ca1_P2_6203281	Ca1	6203281	GTTTTTTTTT/GTTTTTTTTT	CTCCTTGAGTTTGAGA CACGA	TCGATTATGCGTAGGG AAGG	60.1	453	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_6204822	Ca1	6204822	AAGA/AA	TGGTTTGGTTGCATC ATT	TCGAAATTTGTGTCCA AAAGA	59.6	543	DRR	Ca_07880	T	--
Ca1_P2_6205233	Ca1	6205233	CAAAAAAAAA/CAAAAAAAAA	GGGTATTGGATAAAAT TTCAAAAA	TGAAATTAAGGGACG GGTTT	59.7	604	DRR	Ca_07880	T	--
Ca1_P2_6206568	Ca1	6206568	CTTTTT/CTTTTTTTT	TTATGCTTCAACCAGT GCG	TGTCGGATAAGTGTGA TATATTCG	58.1	747	INTERGENIC	--	--	--
Ca1_P2_6212978	Ca1	6212978	AATATATATAT/AATATATATATAT	GTGCGCAGTACAATCT CCA	CAACCGCTCCCAATA GAAA	60.1	573	INTERGENIC	--	--	--
Ca1_P2_6219100	Ca1	6219100	TTACGGTAT/TT	TGGGAAACTTGTCCA TGAG	TTGATCTCCACATCACC AAGA	59.1	587	INTERGENIC	--	--	--
Ca1_P2_6219483	Ca1	6219483	TTTGTGTGTGTGTG/TTTGTGTGTG G	CTTGGTGATGTGGAGA TCAAA	TGGAGTTATGATATTTG TGCCA	58.0	543	INTERGENIC	--	--	--
Ca1_P2_6245829	Ca1	6245829	TAAAAAAAA/AAAAAAAA	TCATATCCCGCACTTG TGA	GCAAGTGGTTGAGTGC TTGA	60.0	500	INTERGENIC	--	--	--
Ca1_P2_6259182	Ca1	6259182	AATGGTCATGGTCATGGTCA/AATGGTC ATGGTCA	TGATGATTTGCTCTTC CCC	GTCCACTCCACCGATC AACT	60.0	575	INTRON	Ca_07885	R	bHLH
Ca1_P2_6259902	Ca1	6259902	AAAATAAATA/AAAATAAATAAATA	AGTTGATCGGTGGAGT GGAC	AAGCGGGAGGTCTTGA GTTC	60.8	621	DRR	Ca_07885	R	bHLH
Ca1_P2_6267078	Ca1	6267078	GAAA/GA	TTTCTTGCACTGGTTG TGC	TGGGTCCCTCATTGTA CTCC	59.8	560	INTERGENIC	--	--	--
Ca1_P2_6267684	Ca1	6267684	GT/GTTT	GGAGTACAATGAGGGA CCCA	GCCGCGGTATTATTC TACA	60.0	384	INTERGENIC	--	--	--
Ca1_P2_6269792	Ca1	6269792	GAAGAAAAAGAAAAAG/AAAGA AAAAAGAAAAAGAAAAAG	AACCACTATTATGGCG GTGC	CAGGAATCTCTGCCAC ACAA	59.8	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_6288427	Ca1	6288427	TA/TAA	TGGCTTCTGATAGATT CGA	CCAAGCCATCTAACCT GGAA	60.1	591	INTERGENIC	--	--	--
Ca1_P2_6293780	Ca1	6293780	TAAA/TAAAA	ACACACTGATCGATGAT CCC	TATCTTTTTGGTGGGC CAAG	59.9	716	INTERGENIC	--	--	--
Ca1_P2_6298845	Ca1	6298845	T/TG	GAGGCAAAATTGGCTC TTGT	TAATTGACGACGACGA CGAG	59.9	124	DRR	Ca_07890	--	--
Ca1_P2_6299112	Ca1	6299112	TGTGCATCTCATAAG/TG	CTCGTCGTCGTCGTCA ATTA	TGAAAGCTCATTTTTCG TATGTTG	60.5	439	DRR	Ca_07890	--	--
Ca1_P2_6299712	Ca1	6299712	T/TGTTG	CAACATACGAAAAATGA GCTTTCA	GTGACATCAAGCCGGA TTCT	60.1	895	DRR	Ca_07890	--	--
Ca1_P2_6301080	Ca1	6301080	ATTTTTTT/ATTTTTTTTTT	TGCCAGTTTATGGTCAA CCTC	CACAATCCACAATTGA CGC	60.0	850	INTERGENIC	--	--	--
Ca1_P2_6303467	Ca1	6303467	CTGTGTG/CTGTG	GGTGTGGCCTAAAGCA AGAG	GGTGACATGAGCAAT GAAT	59.5	573	DRR	Ca_07891	--	--
Ca1_P2_6311323	Ca1	6311323	T/TCACGA	CGGAGAACCAATCACT CACA	GTTGAGCCGAGGCAAC TATG	60.8	601	INTERGENIC	--	--	--
Ca1_P2_6314613	Ca1	6314613	CAAA/CAA	CACAAAATTAAGCA CGTGAA	GCGACATACGAAACGA GGAT	60.1	592	INTERGENIC	--	--	--
Ca1_P2_6317430	Ca1	6317430	TTAAAG/TTAAAGCCATAAATAATAAG	GCTGAGCATGTTGAA CAAA	AAGATCCCCCATGAA ACTC	60.1	606	INTRON	Ca_07892	B	MYB_related
Ca1_P2_6326554	Ca1	6326554	ATCACT/ATCACTCACT	CAAGATGAAACCCGCTT TGT	TTTGTTCACATTCCTG CAAA	59.2	566	INTERGENIC	--	--	--
Ca1_P2_6337132	Ca1	6337132	AAA/AAATAA	TCGGCCACATTATTGT TTT	ATAAATCCCAAGTG CCCA	60.2	258	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_6338411	Ca1	6338411	AAATTAA/AAA	CAACGTTGATTGGGTC AAAA	CCCTTCATACACGGAC CATC	60.2	662	INTERGENIC	--	--	--
Ca1_P2_6342773	Ca1	6342773	TG/T	AGGGTCATGGGTGTCA CAAT	AGCACATCCACCTTCC ATTC	59.9	693	INTERGENIC	--	--	--
Ca1_P2_6365021	Ca1	6365021	CT/CTT	TACCGCACCACATTAC CTA	CGAGTTTATTTGCTTG GGA	60.2	280	INTERGENIC	--	--	--
Ca1_P2_6375372	Ca1	6375372	GTATATATATATA/GTATATATATATATA	GGCAATTGAGGGCTT ATCA	ACGGTTTATGCACTCC AAGC	60.1	483	INTERGENIC	--	--	--
Ca1_P2_6383460	Ca1	6383460	ATT/ATTT	TACCGACATCGTTGTT CCA	TTGACAACGAATGAAG CAGC	60.0	600	INTERGENIC	--	--	--
Ca1_P2_6400773	Ca1	6400773	TCAAACCAAAC/TCAAACCAAACCAAAC	TGGATAATTTTCGGAT TCAAGA	AATTGAGGGACGCTT GGTG	60.0	444	INTERGENIC	--	--	--
Ca1_P2_6404378	Ca1	6404378	ATTTTTTTT/ATTTTTTTT	AATTGCATTTATGTCC GCC	TGTTGCAGGTTCTGAG ATCG	60.0	858	INTERGENIC	--	--	--
Ca1_P2_6415075	Ca1	6415075	GTAATAATAATAATAAT/GTAATAAT AATAATAATAATAATAAT	TCCCTCCTTTTCTCCCT TGT	CCCTCGTTACATGTGC CTTT	60.0	971	INTRON	Ca_07905	P	MIKC
Ca1_P2_6415669	Ca1	6415669	CTATTATTAT/CTATTATTATTAT	AAAGGCATGTAAAG AGGG	CATGTGGATGTGGGT TTCT	60.6	589	INTRON	Ca_07905	P	MIKC
Ca1_P2_6425270	Ca1	6425270	GTT/GTTT	TCTTCTCTGGCAACGT TCT	AGCCACCGTTGATGAA AATC	59.9	479	INTERGENIC	--	--	--
Ca1_P2_6430790	Ca1	6430790	GTAAT/GT	CCACCTCTGCCACCAA CTAT	ATCGGTCGTATTTTGAA CCG	59.8	689	INTERGENIC	--	--	--
Ca1_P2_6436385	Ca1	6436385	GTACTGTGTTTACTTGT/GTACTTGT	ATCCAACTCCCTCTT GCC	TCGAAAGGAGGCAAAA TCAA	60.7	409	INTRON	Ca_07907	T	C3H

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_6443801	Ca1	6443801	TAAA/TAA	CTCCTTACACTTCTCG CCG	GCCAACACTTTTGCA CCAT	60.9	387	DRR	Ca_07908	K	Trihelix
Ca1_P2_6453816	Ca1	6453816	AT/ATT	GGTCTTGCTGACCTTG AAGC	CACGTAAAATCTCTAA CGATGA	57.6	644	DRR	Ca_07909	--	Trihelix
Ca1_P2_6460044	Ca1	6460044	GAAAAAAAA/GAAAAAAAA	AGCTTTCTCAAGGCAC GGTA	GAATGGCCTTCTCTCA ACAA	60.1	742	INTERGENIC	--	--	--
Ca1_P2_6463116	Ca1	6463116	TAAAAAAAA/TAAAAA	AACCATGAGTGCATAAC GCC	TCATAACAAATGCTTT CTTCAACA	60.1	332	INTERGENIC	--	--	--
Ca1_P2_6463783	Ca1	6463783	TGATTATAGATTATAAATTATAGATTAT GATTATAGATTATAGATTATAAATTATA GATTA	TGCTTATTTGAATGGC CTAA	TGTGGGTAGACATTC AGGCT	59.6	166	INTERGENIC	--	--	--
Ca1_P2_6467793	Ca1	6467793	GGAG/GGAGAG	AAAGGGCAAGATTGT CCAC	AAGGGATAATGTGTT CCCC	59.9	197	DRR	Ca_07910	S	--
Ca1_P2_6479424	Ca1	6479424	AATA/AA	CAGGAGATTGAAAGTG GCGT	GGCAAGCAAGTGCAC AAAA	59.9	540	INTERGENIC	--	--	--
Ca1_P2_6481070	Ca1	6481070	TA/T	TTTCACCCCACTTAAG CCC	AATGGGATTGTGGAT CGTA	60.0	433	INTRON	Ca_07911	D	B3
Ca1_P2_6489856	Ca1	6489856	AAAGAGCAAGAGCAAGAGCAAGAGCAA GAGCA/AAAGAGCAAGAGCAAGAGCAA GAGCA	CCTGGTTGGCTGATGA AAGT	CTCCGTTAGTGCTG GAAC	59.7	513	CDS (large-effect mutations)	Ca_07911	D	B3
Ca1_P2_6523042	Ca1	6523042	GAACAAACA/GAACA	GGAGCAGTTGTTCCCA AAAA	CGAGGAAGAAGCGGAT ATTG	59.8	444	DRR	Ca_07917	I	Trihelix
Ca1_P2_6534234	Ca1	6534234	TATAAATAA/TATAA	AAATTTGAGGGGCACA ACTG	TACAACTTTCTGGGC CGAC	60.1	669	INTERGENIC	--	--	--
Ca1_P2_6534439	Ca1	6534439	CA/CAA	AAATTTGAGGGGCACA ACTG	TACAACTTTCTGGGC CGAC	60.1	669	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_6534633	Ca1	6534633	A/AC	TTACTGGGCCACGTTT CAA	TGGTTCCAAAGGAAA GCAT	59.5	328	INTERGENIC	--	--	--
Ca1_P2_6535430	Ca1	6535430	GTTATAGTTTTATAGTT/GTTATAGTT	GCGATGATCGATGACA CTCTT	CAAAGTCGAGTACAC CGCC	60.7	236	INTERGENIC	--	--	--
Ca1_P2_6535745	Ca1	6535745	TAAAAAAA/TAAAAA	CACTCAATGGTGGCAC ACTC	TCTTTTCATATTCGAC GATGC	59.2	702	INTERGENIC	--	--	--
Ca1_P2_6543436	Ca1	6543436	AAA/AAATAATAA	GTTTGACATGATCGTCG TGG	TATGGTAATCCCTCAC CCCA	60.0	655	INTERGENIC	--	--	--
Ca1_P2_6543932	Ca1	6543932	A/AGAAGAAGAGAGAG	TGGGGTGAGGGATTAC CATA	AGCATGAGAGACAGGT GCAA	59.6	492	INTERGENIC	--	--	--
Ca1_P2_6559705	Ca1	6559705	CATATATATATATATATA/CATATATA TATATATATATATA	GGGTCAAAACCCTTGG AAAT	TCCTCGTGTTCACTTTC GC	60.0	910	INTERGENIC	--	--	--
Ca1_P2_6593836	Ca1	6593836	TT/TTATAT	AAGTGGGTGTGCTGCTA CCTC	CGTTCTTCTTCTCCAC ATTCC	60.1	590	DRR	Ca_07923	R	--
Ca1_P2_6697194	Ca1	6697194	TTTATTTTTAAATGAAC/T	TTAAAAGTGGGGCAAT CTGG	TGTTAGCATTTGACAAA AAGTAATAGC	59.3	793	DRR	Ca_07933	--	--
Ca1_P2_6712717	Ca1	6712717	ATTTTTT/ATTTTT	ACAAGGAACCTTCCCC TTT	TTGTCCGAATAAACCTA TTTTTCA	59.0	923	DRR	Ca_07935	R	Nin-like
Ca1_P2_6806099	Ca1	6806099	CA/C	TCATGCCTTCAAATCC ACA	ATGCGTGCTTCAAAAC TCAA	59.5	970	DRR	Ca_07947	S	--
Ca1_P2_6965841	Ca1	6965841	CTTTTTT/CTTTTTT	GTTTTCGTTCTCTCCTC CCC	TGTCATCAGGGAAACC ACAA	59.9	759	INTERGENIC	--	--	--
Ca1_P2_6999458	Ca1	6999458	TTATATATATATATATATATAT/TTA TATATATATATATATATATATAT	AACAACGGCTTTCATTG ACTTT	TTTTCTGAAACAGGC AGT	57.5	795	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_7014540	Ca1	7014540	CTATTATTATTATTATTATTATTATT ATT/CTATTATTATTATTATTATTAT TATTATTATTA	CGGTAAGTCCACCAC ATCT	GACCGCAAATGTAATT AGCCT	59.5	639	INTERGENIC	--	--	--
Ca1_P2_7215414	Ca1	7215414	AA/AACA	AACCCCAACTACAAG GTCC	CAATTTGACAAGCCCC CTAA	59.9	639	INTERGENIC	--	--	--
Ca1_P2_7215436	Ca1	7215436	GAAAAAAAA/GAAAAAAAAAAAA	AACCCCAACTACAAG GTCC	CAATTTGACAAGCCCC CTAA	59.9	639	INTERGENIC	--	--	--
Ca1_P2_7274484	Ca1	7274484	TAAAAAAAA/TAAAAAAAAAAAA	TTTTGAAGTCGTTACG CTG	CCCTAACACACCACAC ATGC	59.9	613	INTERGENIC	--	--	--
Ca1_P2_7423449	Ca1	7423449	CTTTTTTTTT/CTTTTTTTTTT	CCATTTGGTTGCTTGGT TTT	TTTTGCTTATATGTTTG GTTCTTGA	59.2	118	INTERGENIC	--	--	--
Ca1_P2_7582813	Ca1	7582813	CATATATATATATATATATATATAT ATATATATATATAT/CATATATATATAT ATATATATATATATATATATATATATA T	CTCCAGTCGATGAGATT CAAA	TGTTGAAATTCATTCA TTAGCA	59.5	769	INTERGENIC	--	--	--
Ca1_P2_7600007	Ca1	7600007	CAAAAAAAAA/CAAAAAAAAAAAAA	ATCAAACGGTTGGTGA AAGC	CGAACCGGTTTCAAAC ACTT	60.0	815	INTRON	Ca_08014	--	HD-ZIP
Ca1_P2_7634571	Ca1	7634571	GT/GTT	AAAGTGAATTGCTCAAT TTCGTC	AATTGACACGTGAAGA TTTGTTT	57.7	777	INTERGENIC	--	--	--
Ca1_P2_7634633	Ca1	7634633	ATTTTTTTT/ATTTTTTTTTT	TCCAGCACAAATACCTT TTTACC	TGAATTCGCGTTGTTT GTGT	60.2	666	INTERGENIC	--	--	--
Ca1_P2_7634819	Ca1	7634819	AA/AAGAAAGA	TCCAGCACAAATACCTT TTTACC	TGAATTCGCGTTGTTT GTGT	60.2	666	INTERGENIC	--	--	--
Ca1_P2_7675315	Ca1	7675315	AA/AAGA	TGGTATTGAATTTTATG GATGTTTG	TCGGATTAACTTGGG TCTCA	59.6	505	INTERGENIC	--	--	--
Ca1_P2_7675331	Ca1	7675331	GAAA/GAA	TGGTATTGAATTTTATG GATGTTTG	TCGGATTAACTTGGG TCTCA	59.6	505	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_7677905	Ca1	7677905	CTATTATTATTATTATTATT/CTATTA TTATTATTATTATTATTATT	ATCGGAATCAAACCACT TCG	TGAGCCGGAATATTGA GATTG	60.0	567	INTERGENIC	--	--	--
Ca1_P2_7678204	Ca1	7678204	C/CATTT	TCACGCACTTCATACCA ATCA	CATGAGCAATCACGGT TTTG	60.1	776	INTERGENIC	--	--	--
Ca1_P2_7687191	Ca1	7687191	AC/A	CACGACACAAAATTCA CTTATGA	GGATGGACTTCATGCT TCCT	59.1	369	INTERGENIC	--	--	--
Ca1_P2_7688348	Ca1	7688348	AAAA/AAAAAGAAAA	AAGCCAAAATAAAGG CTCAAGA	AGCACAAACAGGGATT ACGG	60.0	895	INTERGENIC	--	--	--
Ca1_P2_7706750	Ca1	7706750	AAACAACAACAA/AAACAACAA	TTTGGTGTCGGTTTGAC AAT	AAATTTCCAGACACATG CCC	59.8	685	INTERGENIC	--	--	--
Ca1_P2_7711941	Ca1	7711941	AGTT/A	CGCATCAGCCAACTACT CAA	GCCTATGACGAAGCTT CCAA	60.4	314	DRR	Ca_08023	K	bHLH
Ca1_P2_7727269	Ca1	7727269	T/TC	GAAAGCAAATCTTCAT CCAA	CGCGTGAATAGCGACA ATAA	59.9	690	INTERGENIC	--	--	--
Ca1_P2_7775058	Ca1	7775058	C/CCTTAAT	AGCCCAACCCTTGACC TAAT	GCACGGAACAACATG TGAC	60.0	838	INTERGENIC	--	--	--
Ca1_P2_7777758	Ca1	7777758	GATATATATATATATATATATATAT ATATAT/GATATATATATATATATATAT ATATAT	TTCCATGACGATTGAC GAG	CGTCGCACGGAATAA TGTA	59.6	552	INTERGENIC	--	--	--
Ca1_P2_7778630	Ca1	7778630	CTTT/C	CCACACACATCAACCAC CAC	GGGCGATTGACTTGAG ACAT	60.1	444	INTERGENIC	--	--	--
Ca1_P2_7783469	Ca1	7783469	CGACCTGA/CGA	ACAAAATGCTGAAATTG CCA	CTGTTGTTTTGCCTCA ACG	59.4	334	INTERGENIC	--	--	--
Ca1_P2_7788046	Ca1	7788046	T/TCAA	ATCCAAAATACATTGCG CTT	TGAATTGGCGATGAAT TTGA	60.0	482	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca1_P2_7789078	Ca1	7789078	TAAAAAAAAAAAAA/TAAAAAAAAA	AGGGAAGAAGCACGAT CTTT	AGATGTTAACCCGCGT TTTG	60.0	728	INTERGENIC	--	--	--
Ca1_P2_7789677	Ca1	7789677	ATTTT/ATTT	CAAAACGCGGTTAAC ATCT	TGAAGGAGGAGATT GGTG	60.0	779	INTERGENIC	--	--	--
Ca1_P2_7790700	Ca1	7790700	AAAAAAACTGCAAA	TCCATAATGTCAAGTT TGAGCC	ACATCCACAGCACTTG CATC	59.7	949	INTERGENIC	--	--	--
Ca1_P2_7790927	Ca1	7790927	TAAGAG/T	AATGTGCGCATTTTCATG TTC	TGCAACAAGAGTGAGC CAAG	60.2	642	INTERGENIC	--	--	--
Ca1_P2_7802950	Ca1	7802950	CAA/CAAA	TTGCTGTTTTGTGAGAG TTATCC	ACCTCGCAACAGGTCC ATAC	60.0	278	INTERGENIC	--	--	--
Ca1_P2_7810637	Ca1	7810637	G/GAA	AACGATTGGTTGAGAC CCAG	ACCTTGCTCTATCTG GCCG	60.1	505	DRR	Ca_08031	--	FAR1
Ca1_P2_7813090	Ca1	7813090	GTT/GTTT	ACCCATTCCGCATACCA ATA	CAC TTGCTGAGGTGCA AAAA	60.0	580	INTRON	Ca_08032	--	--
Ca1_P2_7820020	Ca1	7820020	CTTTTTTT/CTTTT	AGGTATAGCTCTTGCC GGGT	CAGACACTGCGCGATT CTTA	60.2	501	INTRON	Ca_08033	G	FAR1
Ca1_P2_7824017	Ca1	7824017	AT/ATT	AAGAATGGTGGACACT TGCC	ACCCATGTGGCTACTG GAAG	60.0	433	INTERGENIC	--	--	--
Ca1_P2_7884700	Ca1	7884700	CAAAAA/CAAA	TTCACTCCCAGGAAAA CAC	TCCAATTGAGGAGATC CCAG	60.0	438	INTRON	Ca_08037	I	bHLH
Ca1_P2_7895366	Ca1	7895366	GAAA/GAA	TTGCCACAAGCTAAAA GCT	TGGTCAGTTTGGCCTA TTCC	59.9	514	DRR	Ca_08038	--	--
Ca1_P2_7902635	Ca1	7902635	TAAAA/TA	CGCGCCTATTTATGCA TTT	GCCTTCAAAATCAATT GCC	59.5	611	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_7913956	Ca1	7913956	GTGACTTGTTGAC/GTGAC	ACACTTGCAAAATGAG GGG	TGTGTGTGGACCAAGA ATTGA	60.0	696	INTERGENIC	--	--	--
Ca1_P2_7923910	Ca1	7923910	TATTGTG/TATTGTGATAAATTGTG	AATGGTGTCTTCGAAG GGTG	CTACTCACACCAACC CCGT	59.9	553	INTRON	Ca_08042	--	HB-other
Ca1_P2_7928927	Ca1	7928927	TAAATAAA/TAA	CCCTTTATTTCATGGA GGA	TACGATTGAGCTTGC GATA	59.4	684	INTERGENIC	--	--	--
Ca1_P2_7945191	Ca1	7945191	AACA/AA	TTTTGTGGGCAAATTGG AGT	AGGTACTCATTGCCAC CAGG	60.0	593	INTRON	Ca_08044	QI	B3
Ca1_P2_7947587	Ca1	7947587	AC/ACC	TCTTCCTCCAATTCCA ATCA	TTTTTATTCTCGTGGGA GTGAG	58.4	578	INTERGENIC	--	--	--
Ca1_P2_7948210	Ca1	7948210	TTATATATATATATATAT/TTATATATA TATATATAT	CTCACTCCCACGAGAAT AAAAA	TGGAAGAGGAGAGATG CAAAA	59.9	661	DRR	Ca_08045	QI	B3
Ca1_P2_7954074	Ca1	7954074	TAAAAAAAA/TAAAAAAAA	TGACATGGGACAGTGA CACC	AAAATGAAAGTTCCGA GGGG	60.3	705	INTRON	Ca_08045	QI	B3
Ca1_P2_7973178	Ca1	7973178	AGTT/AGTTGTT	GAGCTATTGAGCTTGG TGCC	GAGCTTCTGGGTGTAA AGCG	60.0	591	INTRON	Ca_08047	U	MYB
Ca1_P2_7990610	Ca1	7990610	AATATATATATA/AATATATA	AGTTGGCCATGGATGA TTGT	GCAATGTGTTGTCAAT GGG	59.8	349	INTRON	Ca_08049	--	WRKY
Ca1_P2_7995324	Ca1	7995324	ATAGTAGT/ATAGTAGTAGT	CGGATTGTTTCGATAT GGG	AAGGGATTTTATTAC AAAACAA	58.1	527	INTERGENIC	--	--	--
Ca1_P2_8000857	Ca1	8000857	ATGT/AT	CGCCATCTTCACGTCA CTTA	TCCAACCCAAATTTCAA ACA	58.8	699	INTERGENIC	--	--	--
Ca1_P2_8006710	Ca1	8006710	TG/TGG	TCTTCCCTCCTTCCTTG GAT	TAACACAAGTAGTCGC CCCC	60.0	748	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_8008581	Ca1	8008581	TG/T	ATAACAGCGCCCAAAAGTA	CGATAGAGGTACCACATTATGC	60.8	782	DRR	Ca_08050	R	MYB
Ca1_P2_8028400	Ca1	8028400	TTA/TTATATA	TTCGTAAGTACCCACCGTC	GCACATGAGCCATTGACAT	59.5	776	INTERGENIC	--	--	--
Ca1_P2_8035534	Ca1	8035534	T/TTA	CAAATGCAATGCAATGACC	AGGCATCTTTTCAGGTTCCC	60.4	782	INTRON	Ca_08051	M	FAR1
Ca1_P2_8041662	Ca1	8041662	TAAC/TAACATTAAAC	CCCTTCATTGGAGATGTCC	TTGGGGACACTAAGAGGTGG	60.0	866	INTERGENIC	--	--	--
Ca1_P2_8101006	Ca1	8101006	GT/GTT	CCTCACCCGTGCATTCTAT	GGCGGAGACAAAGAGTCAAG	60.0	587	DRR	Ca_08056	C	--
Ca1_P2_8105908	Ca1	8105908	TTTGATTGATTGA/TTTGATTGA	TCGTTGATTGATTCTCAAGAAAA	TGGGTGGAATATGTGTCITTA	57.1	528	INTERGENIC	--	--	--
Ca1_P2_8116795	Ca1	8116795	AAG/A	CCAAAAGCCCAAAAGTACCA	CAATCGAACGAGACGAGTCA	60.0	979	INTERGENIC	--	--	--
Ca1_P2_8125888	Ca1	8125888	G/GACATATAAAA	TGTTGGGTTACGAGGGAGTC	TTGCGGGTTTTTAACCTGAG	60.1	526	INTERGENIC	--	--	--
Ca1_P2_8126149	Ca1	8126149	TAAAAAAA/TAAAA	TCAAAATTTGCCACGTCCA	AATTTACAAACACGGCGACC	59.9	478	INTERGENIC	--	--	--
Ca1_P2_8127338	Ca1	8127338	CTT/CTTT	CCCTCCTTCCAGAAACCTT	AATCCTGCAGTGAAACACCC	60.0	708	INTERGENIC	--	--	--
Ca1_P2_8248772	Ca1	8248772	ATTTTTTTTT/ATTTTTTTTTT	TGCAACATGAATTGAAGGA	ATAGTCGGGAATGCAACCTG	60.0	486	INTERGENIC	--	--	--
Ca1_P2_8270887	Ca1	8270887	T/TG	GCCGAATAAAACCTCAACAA	ATGAAGGAGGAGGGGAGAAA	60.0	561	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_831015	Ca1	831015	T/TCTCTTATAAATGA	GCCGGATTAAATATAA TCCACA	TGACCTAATAAGCCTG TTTGTTT	57.1	595	DRR	Ca_00101	--	--
Ca1_P2_8327656	Ca1	8327656	A/ATATT	AATAGCTCCCGCAAGTT TGA	CATGACATCTTTCAATC CAATCA	59.8	425	INTERGENIC	--	--	--
Ca1_P2_8329444	Ca1	8329444	TAAAAAAAAA/TAAAAAAAAA	CAAAAGCGATAGTGCC AACA	GGTTTCCCAAGGCCAT ATTG	60.5	399	INTERGENIC	--	--	--
Ca1_P2_8372194	Ca1	8372194	CAATAATAATAATAATAATAATA ATAA/CAATAATAATAATAATAATA TAATAATAATAA	AAACGCGTTAAATTA GGAAAA	GGGGAGAAAGAGTGCA AAAA	59.3	893	INTERGENIC	--	--	--
Ca1_P2_8403563	Ca1	8403563	TTAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA/TTA ATAATAATAATAATAATAATAATA AATAATAATAATA	CCCCTAAAAATTAGTCG AACTCC	GAGTCTTTGTCCCCAG CAAG	59.8	474	INTRON	Ca_08076	--	--
Ca1_P2_8415420	Ca1	8415420	AG/A	ATGGGTGAAACGAGCA ACTC	TTTTCTTTTGCATCAT CTTTG	59.2	910	INTERGENIC	--	--	--
Ca1_P2_8430467	Ca1	8430467	TT/TTATTATTATTAT	AGGTCATGGGCTGGAT GTAG	ACCCTTTCACTGCGCT CTTA	60.0	612	INTERGENIC	--	--	--
Ca1_P2_8434947	Ca1	8434947	G/GTT	TGGCTTTTCTGGGTG ATAG	CCTTGCCACACATTGA TGAC	60.0	799	INTERGENIC	--	--	--
Ca1_P2_84627	Ca1	84627	TTAATAATAATAATAATAATAAT AA/TTAATAATAATAATAATAATAAT AATAATAA	TCACAAATGGTTGGTG TGG	GTGGGAACGTTAAGCC AAAA	60.0	657	INTERGENIC	--	--	--
Ca1_P2_8522654	Ca1	8522654	AATAATA/AA	TGCCACGACCAATATG AAA	CCACCGATTTCATTGT TTT	59.9	718	INTRON	Ca_08089	--	NAC
Ca1_P2_8576194	Ca1	8576194	TTATATATATATATATATATATAT TAT/TTATATATATATATATATATAT ATAT	TCCCATCATGCCTTATT CTTG	AAAATCAGAGGGAGAG ACCAAA	59.2	571	INTERGENIC	--	--	--
Ca1_P2_8596087	Ca1	8596087	ATTTTTTT/ATTTTTT	GGGCTGTTTATGGTTG GTTTT	CCCAGGGAGAGTTTTT CTTC	60.0	655	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_8621700	Ca1	8621700	TTATATATATATATATATAT/TTATATA TATATATATATATATATATAT	TGAACCTCATCTTCCC ACA	CACCAAATTACAAGTC GCCA	59.6	459	INTERGENIC	--	--	--
Ca1_P2_876057	Ca1	876057	AATATATATATATATATATA/AATATAT ATATATATATATA	GGTAGCCAGCAATGCA AGAT	GAATGGAACCATCACA TCCC	60.0	818	INTERGENIC	--	--	--
Ca1_P2_8830262	Ca1	8830262	TTATATATATATATATATATATA/TT ATATATATATATATATATATA	GCTACCTTAGCCTCTCC ATGC	GGAATGCCATAGAAAC ACCAA	59.8	811	INTERGENIC	--	--	--
Ca1_P2_8848542	Ca1	8848542	TTATATATATATATATATATAT/TTA TATATATATATATATAT	CGCCCCACCGATAAT CATA	CAAGTGAAACCGGTGT GAAA	59.6	875	INTERGENIC	--	--	--
Ca1_P2_8875092	Ca1	8875092	CATATATATATATATATATATATAT ATAT/CATATATATATATATATATATAT ATATATATATATATATATAT	TGGCGTGAGAAAAAGA AAAA	CAACAGTGTCAATTCCA GCC	59.1	620	INTERGENIC	--	--	--
Ca1_P2_8882846	Ca1	8882846	CATATATATATATATATATATATA/CA TATATATATATATATATATATATA	GCGCACGATGGTTAAT TTTT	TTTTCCACTCAATTCCC TGC	60.1	621	DRR	Ca_02920	U	--
Ca1_P2_8909387	Ca1	8909387	T/TCC	AGGCAAAAGGTTTTTG GGTT	GTGAGCGTGAAAGTGG TTTT	60.2	806	DRR	Ca_02914	--	--
Ca1_P2_8952246	Ca1	8952246	ATATTATTATTATTATTATTATTATT ATTATTATTATT/ATATTATTATTATTATT ATTATTATTATTATTATTATT	CGTTTTTCATCAATCAA CGC	ATAAACCCCTGCACCA AATG	59.7	872	INTERGENIC	--	--	--
Ca1_P2_8968123	Ca1	8968123	AT/A	CAAGCTCCCGAATCAAA CAC	CACAAAACCGAAAAGG GAGA	60.1	305	INTERGENIC	--	--	--
Ca1_P2_8992280	Ca1	8992280	TAAAAAAA/TAAAAAAA	TGCAAGAACCATTGAGT TAGGTT	AGGTGCAAGTTCAAAT TGGG	60.0	654	DRR	Ca_02903	--	--
Ca1_P2_9233850	Ca1	9233850	GTTTTTTTTTTTT/GTTTTTTTTTT	TGAGTTCTTTGAATTT GCGTG	GTTGCGTCTAGCAACT TTCTG	57.9	637	INTERGENIC	--	--	--
Ca1_P2_928963	Ca1	928963	AAATAATAATAAT/AAATAATAATAA T	CACCGTCACAAGCTTCT TCA	ATGAGGGAATGCAAC TTGG	59.9	333	INTRON	Ca_00116	--	B3

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca1_P2_9297941	Ca1	9297941	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATA TATATATATATATATA	TTTTCTTTCTTCGTT ACTTTTC	TTTTTCATGGCATGTG AGAGA	58.3	732	INTERGENIC	--	--	--
Ca1_P2_9314844	Ca1	9314844	TAAAAAA/TAAAAAAA	TTCAATTTGTAAATCA ATCCGA	TTTTGTCTTCCATGGA GCC	60.1	768	INTERGENIC	--	--	--
Ca1_P2_9511687	Ca1	9511687	GA/GAAA	CAACCCGCTTATGTCG TTT	TGATGCTACAAATGGC CAAA	60.1	510	INTRON	Ca_02846	QR	B3
Ca1_P2_953140	Ca1	953140	GATATATATATATATATATATAT/G ATATATATATATATATATATATATA T	GTCCATTTCTCGGCTC AAA	TCCCTAAACACCACTCA CCC	59.8	636	DRR	Ca_00118	E	--
Ca1_P2_9554397	Ca1	9554397	ATTTTTTT/ATTTTTTTT	GAAATGCAGGAAGCCA TGAT	GGGAATTGAAGATGGG ATGA	59.7	771	INTRON	Ca_02842	R	--
Ca1_P2_9561666	Ca1	9561666	CTT/CTTCTATTATTATTATT	ACCATTACGGGTTC CATT	CTAACGCCTTTGTGG TGGT	60.0	502	INTERGENIC	--	--	--
Ca1_P2_9686293	Ca1	9686293	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT	TCAAATGCTTTAATGGC TCAGA	TTTTAGTTTGAAGACC TTTGTC	57.3	446	INTERGENIC	--	--	--
Ca1_P2_9867132	Ca1	9867132	AAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA	GGGTCTATGTTGTCTT GATGC	CAGGGCAAAATGAAC TTTAATAGA	59.9	482	INTERGENIC	--	--	--
Ca1_P2_9871519	Ca1	9871519	ATT/A	CTTAGTCCACGTGCAAA CGA	AAAGTGGGGCCAATA TCTA	59.6	600	INTERGENIC	--	--	--
Ca1_P2_9874160	Ca1	9874160	GTTTTTT/GTT	TGCAGCATTCAACACAA TCA	TTCGGGGAAAAGGGT AGTT	59.8	493	DRR	Ca_02802	G	--
Ca1_P2_9944669	Ca1	9944669	TTAATAATAATAATAATAAT/TTAATAA TAAAT	GTACCGTGCATCCCTT CACT	GTACCGTGCACCTTCT ACCA	59.8	963	INTERGENIC	--	--	--
Ca1_P2_9945105	Ca1	9945105	CAAAAAAAAA/CAAAAAAAAA	CGAGCATTACGTTTCG GAAG	CTTTGGGCCATTGTC TTTA	59.9	319	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_1000852	Ca2	1000852	ATTTTTTTTTTT/ATTTTTTTTTTT	TGTTGAACGTGGAGT TTGT	TATCCCAGCTCTGGAT CACC	60.0	716	INTERGENIC	--	--	--
Ca2_P2_10013835	Ca2	10013835	ATTTTTTTTT/ATTTTTTTTT	TACTCACCCAAATCCGC TTC	TAGACCCTCATCCTCAT CCG	60.0	393	INTERGENIC	--	--	--
Ca2_P2_10032701	Ca2	10032701	AATATATATATATATA/AATATATATAT A	TTCTTCAGAGAAAAGAG TGGTTTTT	CCGTGTTTACGCTCTG TTGA	59.9	392	INTERGENIC	--	--	--
Ca2_P2_10095157	Ca2	10095157	TTATATATATATATATATATATATATA TATA/TTATATATATATATATATATATA TATATATATA	TAGCAACACACATCCC GAAA	TTGTTTGGCAGTGGAT TGAA	60.1	864	DRR	Ca_20378	S	--
Ca2_P2_10097433	Ca2	10097433	CG/C	GCTAAATTCGTCTTCGA CGC	CATTCAAATGGCAATG CAAC	59.9	139	DRR	Ca_20377	J	--
Ca2_P2_10175437	Ca2	10175437	TTGTGT/TTGT	TGGAACACAACGCCAA AATA	CCCCTTTGTCAATTAAG GCA	59.9	630	DRR	Ca_20376	--	--
Ca2_P2_10183002	Ca2	10183002	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TTGACGGACCAACCTTT TTC	TTCGATTGGACTTGTG TCGT	59.1	583	INTERGENIC	--	--	--
Ca2_P2_10187103	Ca2	10187103	AATATATATATATATATATATA/AATAT ATATATATATATATATATATATA	AAGGCGAGAACAAGCC ATTA	CCTGAATATCGGCGT TATC	60.4	314	INTERGENIC	--	--	--
Ca2_P2_10207704	Ca2	10207704	AAGAGAGAGAGAGAGAGAG/AAGAG AGAGAGAGAGAGAGAGAG	TGATTGATGGGAAAGG TTCA	CCATCACCTCATAAGTT TCAACA	59.0	411	INTERGENIC	--	--	--
Ca2_P2_10240968	Ca2	10240968	AATATATATATATATATATATA/AATAT ATATATATATA	AAGATGCGACCATGTG TTGA	GGTTTGTGTTGGCAC TTCT	60.0	450	DRR	Ca_17599	--	--
Ca2_P2_1024227	Ca2	1024227	CAATAAATAAATAAATAAATAAATA AATAAATAAAT/CAATAAATAAATAAATA AATAAATAAATAAATAAATAAATAA AT	TTGTCAAAGGGTCTGT CTTG	TGACTGCCGCACATTT AGAG	60.0	411	INTERGENIC	--	--	--
Ca2_P2_10284789	Ca2	10284789	CTGTG/CTG	GGTGACAAATGCAGGT GTTG	AGAATTTGTTGGGTTG GCTG	60.0	662	DRR	Ca_17594	R	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TfS
Ca2_P2_10315365	Ca2	10315365	ATTTTTTTTTTTTT/ATTTTTTTTTTT TTTTT	AATTCCTTGATCCG CAC	TCCGGTACACAACCTTT CCC	59.8	324	INTERGENIC	--	--	--
Ca2_P2_1040699	Ca2	1040699	CTAGATAGATA/CTAGATA	TTTCTCGAGCTTCCAAT GGT	TGATTCCATGAAAATTG CGA	60.0	351	INTRON	Ca_17010	A	C3H
Ca2_P2_1047594	Ca2	1047594	CAGAAGAAGAAGAAG/CAGAAGAAGAA G	AAATCTCCTCTTGCCAC ACG	GGTCGCTGAAGAGAAA GTG	60.1	364	CDS (large-effect mutations)	Ca_17010	A	C3H
Ca2_P2_10498057	Ca2	10498057	CTTTTTTTTTT/CTTTTTTTTTTTT	TGACCAAATCGGAAAG AAAAA	AGGGAATGAGAGCAAT GACG	60.2	454	INTERGENIC	--	--	--
Ca2_P2_10567636	Ca2	10567636	CTCTCTCTCTCTCTT/CTCTCTCTCTT CTCTCTCT	TACCCACACCCCTCAAA TGT	TGATGATTGATGGGGA TTGA	59.7	241	INTERGENIC	--	--	--
Ca2_P2_10611337	Ca2	10611337	ATT/ATTT	ATGGAACCTTGAGTT GGC	GCCAGATGTGTTTGCA AGTG	60.3	804	INTRON	Ca_17572	--	SBP
Ca2_P2_10612588	Ca2	10612588	CAAA/CA	AACATTCTACCCCTCG TCC	TGCTGCTGCTGGAAT TATG	60.0	508	INTRON	Ca_17572	--	SBP
Ca2_P2_10658848	Ca2	10658848	GTTTTTTTTT/GTTTTTTTTT	TCAAGATGGTGAGGGT TGGT	TGTTGTTGTTGAGGT GAAAA	59.1	351	INTERGENIC	--	--	--
Ca2_P2_1074408	Ca2	1074408	TTTTATTATTATT/TTTTATTATTAT TTATT	CCTCCTCGGTCTCTTCT CCT	AAATTGAGTTCAAAC CACCAA	59.8	397	INTERGENIC	--	--	--
Ca2_P2_1075762	Ca2	1075762	ATTTTTTTTTT/ATTTTTTTTTT	TTAGGCCGCGACAATA ATTG	CTGTACTCAGTCAGG CTGC	59.6	707	INTERGENIC	--	--	--
Ca2_P2_10778432	Ca2	10778432	TTTTCTTTT/TTTTT	TTTCGACGATTGAACAA TGTA	TGCGGTGCATAAGAAA AGTG	59.9	757	INTERGENIC	--	--	--
Ca2_P2_10779124	Ca2	10779124	TTA/TTACATA	CACTTTTCTTATGCACC GCA	GCAGCGAGTAGGAGAA ATGC	60.1	663	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_10789942	Ca2	10789942	ATTTTTTT/ATTTTTTTT	TTGAATCTGCACCCAA TGA	GTGGCTTCATAAGGCA GAGG	59.8	888	INTERGENIC	--	--	--
Ca2_P2_10853311	Ca2	10853311	ATTTTTTTTT/ATTTTTTTTT	CAACTCAACCCCTAAAC CGA	TGAGAAATTTTCCGCT GCT	60.0	261	INTERGENIC	--	--	--
Ca2_P2_10913431	Ca2	10913431	GAAAAAAAAA/GAAAAAAAAA	TGCATAATCGATTGGCA CAT	TCACTTACCGATTCCA GCCT	59.7	838	DRR	Ca_17557	--	--
Ca2_P2_10928556	Ca2	10928556	ATTTTTTTTT/ATTTTTTTTT	CATCCGTGGTCCCTTAA CTT	GCTAAATTACATTCGTG GTCCC	59.7	370	INTERGENIC	--	--	--
Ca2_P2_11082192	Ca2	11082192	CTATATATATATATATAT/CTATATATA TATATATATATATATATATAT	AAGTTCCAGGAGAGTG GCAA	CCGGGTGTCCAAAATC TCTA	59.9	942	INTERGENIC	--	--	--
Ca2_P2_11085781	Ca2	11085781	AATATATATATATATATATATATATAT ATATATTTATATATATAT/AAATATATAT ATATATATATATATATATATATATT TATATATATATAT	TTTGGTTTTGAACTCGG AGG	CACCGTAGTGTGGTGG TGAG	60.1	660	INTERGENIC	--	--	--
Ca2_P2_1110782	Ca2	1110782	TA/T	TTGAAAAACCCGAATCG AAC	TTGTCATCAGTGGCT GCTC	60.0	586	INTRON	Ca_20673	--	--
Ca2_P2_11136560	Ca2	11136560	GAAAAAAAAA/GAAAAAAAAA	TGACCAATGGAAAAAG GGAG	TGAAAATTTGGGGTG TTACAA	59.2	300	INTERGENIC	--	--	--
Ca2_P2_11157229	Ca2	11157229	AC/A	ATTCGGCATACTTCACC TGC	TCCTACTTCACCGTTCC ACC	60.0	673	INTERGENIC	--	--	--
Ca2_P2_11169617	Ca2	11169617	GTTATTATTATTATTATTATTAT/GTT ATTATTATTATTATTATTAT	CTGGCCTCATCTATTGG GAA	TTTTCAATATTTTCC CTCCA	57.7	537	INTRON	Ca_17548	--	C2H2
Ca2_P2_11220118	Ca2	11220118	ANNNNNNNNN/ANNNNNNNN	TTGCACTTGGTTTGACT CCA	CTCTCAACCCTCTCGTT TGC	60.0	939	INTERGENIC	--	--	--
Ca2_P2_11226197	Ca2	11226197	GATATATATATATATATATA/GATATA TATATATATATATATATA	CGCGATCAAAACAAAC GTA	CCAACATGGCATGAGT TGAC	60.0	757	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_11240445	Ca2	11240445	ATTTTT/ATTTTTT	TCGACCGAATCAACAA TGA	ACGTTTCCTCACGTTT CAC	60.0	622	INTERGENIC	--	--	--
Ca2_P2_1147777	Ca2	1147777	CAATTTCAAAAATTTCAAA/CAATTTCA AAA	AAAGCCTTGGTCTTGG ACA	TGCATGGAATGCATCA TCTT	60.0	774	INTERGENIC	--	--	--
Ca2_P2_11546825	Ca2	11546825	ATTTTTTTTT/ATTTTTTTTTT	CACCCAGCCGTAAAC AGAT	CCCCCTTGTCACAAC CTAA	59.8	574	INTERGENIC	--	--	--
Ca2_P2_11623009	Ca2	11623009	TATTTGCATTTCATTTCATTTCAT/T ATTTGCATTTCATTTCAT	GCCCAAGTCCCAAAG AGAT	AAAAGAGTGGGACACA ACGC	60.2	169	INTERGENIC	--	--	--
Ca2_P2_11625278	Ca2	11625278	AATATATATATATATATATATATAT A/AATATATATATATATATATATATAT TATATA	GTTTAGCGCTCCTCCAT CAT	CTGCCCGTAAAAATCTT CCA	60.1	839	INTERGENIC	--	--	--
Ca2_P2_11648268	Ca2	11648268	AATATATATATATATATATA/AATATAT ATATATATATATATATATA	TGAGTGCAAGCCTAGT GTGG	TGCACGAAAAC TGAC TCTG	60.0	521	INTERGENIC	--	--	--
Ca2_P2_11711787	Ca2	11711787	ATATTATTATTATTATTATTATTATT ATTATTA/ATATTATTATTATTATTAT TATTATTATTATTATTA	TTCAAATGCTGGTTT GGTC	TGAAAGAAGCGCGTA AAAC	60.4	596	INTERGENIC	--	--	--
Ca2_P2_11716435	Ca2	11716435	TTATATATATATATATATATATATAT/T TATATATATATATATATATATATATAT ATAT	CACAGTCCGCATGTG CTAT	TGCACTGACAGGAAA TCAA	60.2	857	INTERGENIC	--	--	--
Ca2_P2_12040246	Ca2	12040246	TTATATATATATATATAT/TTATATATA TATATAT	TGTCAATCCATTATAA TTTCTTTCAA	CAGCTTTTGGTTGAT GTGG	59.2	490	INTERGENIC	--	--	--
Ca2_P2_12040519	Ca2	12040519	ATT/AT	CCACATCAACAAAAAG CTG	GTGAGGTGGCATTGCA GAGT	60.3	665	INTERGENIC	--	--	--
Ca2_P2_12048675	Ca2	12048675	AATAATTTATAATTTATA/AATAATTTATA	CAACATGCTGATGTG GACC	CCATTGGTAAATGGCT AACAA	57.6	278	INTERGENIC	--	--	--
Ca2_P2_12146761	Ca2	12146761	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATAT ATATATATATAT	TGCACTCACTCCAACAA ACA	AAGTCTGGCCTACGGC CTAT	60.1	828	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_12222534	Ca2	12222534	T/TC	GATTGTTCTGACCTCC CCT	TTGTTGACGTTGGTT TTGA	60.0	784	INTERGENIC	--	--	--
Ca2_P2_12307967	Ca2	12307967	GAAA/GAAAA	TGTCTTTGGTCCCTGCA AAT	TCAAACCCCATTTTG TGT	60.1	755	INTERGENIC	--	--	--
Ca2_P2_1233900	Ca2	1233900	C/CG	CGTTTTTGAAGCCATT TGT	CTGCCATAAAGGCTGC AGAT	60.4	830	INTERGENIC	--	--	--
Ca2_P2_12360564	Ca2	12360564	TAAAAAAAAA/TAAAAAAAAA	TGCACTCACACAACA AATC	CCTCTTCACTTTTGG AGGG	60.1	155	INTERGENIC	--	--	--
Ca2_P2_12384702	Ca2	12384702	TAAA/TAAA	CCTACGTATCTCTGGT GCG	TTAATCGTTCGCTTGT GAG	60.0	649	INTERGENIC	--	--	--
Ca2_P2_12553140	Ca2	12553140	ATTTTTTTTT/ATTTTTTTTT	CCCCCTCAACCTTTCA TAC	ATCCAAATTCAATGCAT CCC	59.6	811	INTERGENIC	--	--	--
Ca2_P2_12707442	Ca2	12707442	GAATTTCAATTTCAAT/GAATTTCAATTT CAATTTCAAT	AGCAGCTGACCGAGCA TATT	GGATGGGTGATTGAAA ATCG	60.1	902	INTRON	Ca_18086	R	--
Ca2_P2_12755246	Ca2	12755246	AATATATATATATATATATATATATATATATAT ATATATATAT/ATATATATATATATATATATATAT ATATATATATATATATATATATATATATATATAT	AAAATTGAACGGGTAC GAT	AAATGTCCCCCATGAT GTTT	59.5	696	INTERGENIC	--	--	--
Ca2_P2_1293074	Ca2	1293074	CTTTTTTT/CTTTTTTT	AAAAAGTGAAAAATGT TTGGCA	CATTGATGAGTGGTGC TTTCG	60.3	674	INTERGENIC	--	--	--
Ca2_P2_12933106	Ca2	12933106	A/AT	AGGTTGAAAGAGCC CACT	ATCGGTTGGTTGGTGA AATG	60.6	834	INTERGENIC	--	--	--
Ca2_P2_12933331	Ca2	12933331	TTATATATATATATATATATATATATATATATAT TATATATATATATATATATATATATATATATAT AT	TGGAGTTTGGTCTCCA TATTT	AGGACATGCAATGGG TTAG	59.8	618	INTERGENIC	--	--	--
Ca2_P2_12933573	Ca2	12933573	CACCAACCAACC/CACCAACC	TCATTGACAAGGAAAGA ACATGA	CGAATTGTTTTGGGA TTTG	60.2	413	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_12934202	Ca2	12934202	AAA/AAACAA	AGAAAGCAAGCAAATCC CAA	TTCCAACACCTCACGAT TCA	60.1	488	INTERGENIC	--	--	--
Ca2_P2_12934976	Ca2	12934976	TATCAATC/TATC	TGCCTCAAAATCTGGT GTG	CTGCTCCAACTGATC ACGA	60.0	516	INTERGENIC	--	--	--
Ca2_P2_12937651	Ca2	12937651	ATTTT/ATTTT	GATTGCTTCTCTATG CCG	GTTTGGCGTTGGTTT CACT	60.0	353	INTERGENIC	--	--	--
Ca2_P2_12939688	Ca2	12939688	AATATATA/AATATA	TTTTGGTGTGAGGGT GTCA	TTAATCAAAGCGGCAA AAGAA	59.8	564	INTERGENIC	--	--	--
Ca2_P2_12941200	Ca2	12941200	CAAAA/CAAA	TGTGCTTCTTCTGATT TTGG	GGCCAAAGACGGATAT GGTA	59.8	888	INTERGENIC	--	--	--
Ca2_P2_12941800	Ca2	12941800	T/TA	CATATCCGTCCTTGGCC ATT	CCTTGAACAATTTGGG CAGT	60.0	643	INTERGENIC	--	--	--
Ca2_P2_12947970	Ca2	12947970	G/GT	TGCTTTTATGAGCATT CGGG	CGACTTCAAATCCCTTC GAG	59.8	777	INTERGENIC	--	--	--
Ca2_P2_12949902	Ca2	12949902	CTAAAAGAAATAAAAGAAATAA/CTAAAA GAAATAA	CCTTCGATTCCCCATT TCT	TCATGATGGAATTACG GCA	59.9	484	INTERGENIC	--	--	--
Ca2_P2_12952557	Ca2	12952557	ACATATCATATCA/ACATATCA	AAAGCATTTTATCCGCA CCA	TTTTTCATCTCACTCTC TCCCA	58.9	787	INTERGENIC	--	--	--
Ca2_P2_12952944	Ca2	12952944	TGTCATGATT/TGTCATGATTGTAGTCA TGATT	TGGGAGAGAGTGAGAT GAAAAA	ACGGATGTCTAATCCG TTGG	59.8	308	INTERGENIC	--	--	--
Ca2_P2_13148618	Ca2	13148618	G/GGAAT	CTTTCTCCATCCCAACA GGA	TTTTGGAGTCATGCTAC CCC	59.9	776	INTERGENIC	--	--	--
Ca2_P2_13247575	Ca2	13247575	ATTTTTTTT/ATTTTTTT	TGAAAAGCTAAATGCAT GGAA	TCATGACCATGGACCC ACTA	59.8	937	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_13334478	Ca2	13334478	GTTTTTTTTTTT/GTTTTTTTTTTT	TTTAAATCGCTGCACAG CAC	TTTTCCGACTTGGTCC TTT	58.7	805	INTERGENIC	--	--	--
Ca2_P2_1350612	Ca2	1350612	TAAAA/TAAAA	GCGTTGTAAGTATTG CGA	ATCAAACGGGTTTAAG TGCG	60.0	272	INTERGENIC	--	--	--
Ca2_P2_13622321	Ca2	13622321	TTATATATATATATATATATATATAT TATATATATATATATATATATATAT AT	TTGCTTTTGTAGCA CATCTCA	GAAGTCACTAAGCAC TTGCC	59.3	491	INTERGENIC	--	--	--
Ca2_P2_13639596	Ca2	13639596	TAATTAATAAAAT/TAAT	AAGCCAGCCGCATGTA AATA	TTCACCTCCTCTGCATC TTTCA	60.0	788	INTERGENIC	--	--	--
Ca2_P2_13808036	Ca2	13808036	GTTTT/GTTT	AAAGGGAATGGGAAC ACAA	TCCTACGTATCCCCAG ATGC	59.9	688	INTERGENIC	--	--	--
Ca2_P2_13853423	Ca2	13853423	CAAAAAA/CAAAAAA	CATTGCCAGTATGCCA CATC	AAGGTCACAAAGAGC CTCC	60.6	529	INTERGENIC	--	--	--
Ca2_P2_13858331	Ca2	13858331	AATTATTATTATTATTATTATTATTA TTATTATTAT/AATTATTATTATTATT ATTATTATTATTAT	TGAAACCAAGTTGGTGC TGAA	GATTTATAAGCGAGCG TTGC	59.8	812	INTERGENIC	--	--	--
Ca2_P2_13955227	Ca2	13955227	ACCCC/ACCCC	GCTCCACCACCACTT GTTT	TGAGCTCTTGTGTGG TTGG	59.9	719	INTERGENIC	--	--	--
Ca2_P2_13956600	Ca2	13956600	AATTATTATT/AATTATTATTATT	TGAAATTTGTGATTAG TTGCTTAAAA	AAACAAGTTGGTGGTG GAGC	60.0	686	INTERGENIC	--	--	--
Ca2_P2_13957739	Ca2	13957739	TGG/TG	ATTATCCCCACCCAC TAC	TTTCAAAACGGTGGT GTGA	60.0	755	INTERGENIC	--	--	--
Ca2_P2_13957974	Ca2	13957974	A/AG	TTAGCCATTGTGCGTAG CTG	GTGGGATAGTAGTGG GGGT	59.9	218	INTERGENIC	--	--	--
Ca2_P2_13959549	Ca2	13959549	ATTTTTTTTT/ATTTTTTTTTT	TGAAATTTGTGATTAG TTGCTTAAAA	CATAGATCCCCACCC AATG	60.0	752	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_13983591	Ca2	13983591	ATTTTTTTTT/ATTTTTTTTT	ACACGAGCGGAGAA TAAA	TGCAATTGTGTCATT TGT	59.8	893	INTERGENIC	--	--	--
Ca2_P2_13995550	Ca2	13995550	CAT/CATAT	TATTGCTTTGTTCCGT GGG	TGTGTGCACATGCCAA GATA	59.7	734	CDS (FRAME SHIFT)	Ca_11631	GE	HB-other
Ca2_P2_14086143	Ca2	14086143	C/CT	GCTTCTGATGGTGAC TTGA	TGGCCTAAAGCAAGCT CCTA	60.1	371	INTERGENIC	--	--	--
Ca2_P2_14117374	Ca2	14117374	AATATATATATATATATATATATAT/ AATATATATATATATATATATATAT ATATATAT	ACCTACGGATGTTAGC CGTG	GGTCCATGCAAAATCA TTCA	59.3	768	INTERGENIC	--	--	--
Ca2_P2_14192522	Ca2	14192522	GAAAAAAAA/GAAAAAAAA	TACAAATGGATGCGGT TGA	CCCTCTGCAATGTCGG TAAT	60.0	755	INTERGENIC	--	--	--
Ca2_P2_14200236	Ca2	14200236	A/AT	GCGCTGTAAATGTGC AAAA	TCGGCTATATGATTGTC CCA	58.9	258	DRR	Ca_11619	--	Trihelix
Ca2_P2_1481432	Ca2	1481432	AAATAATAATAATAATAATA/AAATA ATAATAATAATAATAATA	TTGGTTTCAAGAAGGAT GGC	TTGAAATGTTGATGTGT TGGG	59.3	750	INTERGENIC	--	--	--
Ca2_P2_15151368	Ca2	15151368	CTAATAA/CTAATAATAA	TCTCCATGTCCGTTACC TCC	TCCTGAAGATGAGATG CGTG	59.9	873	INTRON	Ca_18572	S	SAP
Ca2_P2_15255186	Ca2	15255186	ATTTTT/ATTTTT	TGGATGCAGTGGAGCT AATG	GGCGGTCACAAATG AGTT	60.0	611	INTERGENIC	--	--	--
Ca2_P2_15278206	Ca2	15278206	TTATATATATATATATATATATATATA TATATATATATAT/TTATATATATATAT ATATATATATATATATATATATATAT	ATAACGTGGCAAGGAG CAAC	GACGAAGCTCCTTTTA GGGG	60.2	680	INTERGENIC	--	--	--
Ca2_P2_15280624	Ca2	15280624	AATATATATATATATATATATATATAT ATATATA/AATATATATATATATATATA TATATATATATATATATA	AGAGGCAGAAATGGTG GTGT	AAGATTTTAGCGGATTC TACGTG	58.9	659	INTERGENIC	--	--	--
Ca2_P2_15339865	Ca2	15339865	TAAAA/TAAAA	TGGCTTTTATTTGGAT ACACG	CCAGTTTTGGGTCCT TTTT	58.1	421	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_15691178	Ca2	15691178	TTATATATATATATATATATAT/TTA TATATATATATATATATATATAT	GACTGTCCAAATTTGG GGG	TTTTTGGCATCAAGTTG TCTTTT	60.0	581	DRR	Ca_18540	--	--
Ca2_P2_15700651	Ca2	15700651	ATTTTTTTTTT/ATTTTTTTTTT	GTGACTCCACATGAC CCCT	CCAATGCATTCCATTCA ACA	60.3	743	INTERGENIC	--	--	--
Ca2_P2_15722479	Ca2	15722479	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	TCCATTGAGTTGCGAC GATA	CGCCTTCTCCTTTCTTC CTT	60.0	195	INTERGENIC	--	--	--
Ca2_P2_16203896	Ca2	16203896	GTATATATATATATATATATATAT/GT ATATATATATATATATATATAT	GTGCCAGTCGATTGCC TTAA	CCTCCTACTCCCGACA TTGA	60.1	491	INTERGENIC	--	--	--
Ca2_P2_16296988	Ca2	16296988	TAAAAAAAAA/TAAAAAAAAA	GAGGGAGGTGTGTAGT CCCA	CGTGTGTGTATCCTC CGTT	60.0	623	INTERGENIC	--	--	--
Ca2_P2_16309679	Ca2	16309679	TACTC/T	GCGTTGCTCAGTTGAAT GAA	CTCAACTCACGACCAC CAGA	59.9	596	INTERGENIC	--	--	--
Ca2_P2_16375278	Ca2	16375278	AT/ATATATTT	TTTTTCCATTTTTCGT TTTTC	TTTCGATTGAGCTTG GCTT	60.0	591	INTERGENIC	--	--	--
Ca2_P2_1640062	Ca2	1640062	ATTTTTTTTT/ATTTTTT	AGATCATGTGCAAAAG GGG	AGTAACCGTGAGGGAA CGTG	60.0	509	INTERGENIC	--	--	--
Ca2_P2_16496636	Ca2	16496636	GTCAAAC/GTCAAACAAAAGGACTATT CAAAC	TATGGACTTTGTGGTG GCAA	TTGGCACGTACTCCCA TACA	60.0	441	INTERGENIC	--	--	--
Ca2_P2_16695716	Ca2	16695716	CTAATAATAATAATAATAATAATAAT AATAATA/CTAATAATAATAATAATA ATAATAATAATA	ATTTTGCCAAATTCACC GTC	CCAGCAGTAACGTGTG TGGA	59.8	449	INTERGENIC	--	--	--
Ca2_P2_16712405	Ca2	16712405	CATATATATATATATATATAT/CATAT ATATATATATATATAT	AAATTGCGACACCACAA AAA	TGTTTAATTCGGCAAG CACA	60.3	607	INTERGENIC	--	--	--
Ca2_P2_16841574	Ca2	16841574	TTATATATATATATATATATATAT/TTA TATATATATATATATATATATAT	GCCATTAAATTTTCCTTC ATTCG	CCTCAAAGGAATGTCA AACCA	60.0	529	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_16921710	Ca2	16921710	TTTATTATTATTATTATTATTATT ATTATTATTATTAT/TTTATTATTATT ATTATTATTATTATTATTATTAT	TGCTTGTGCCTAACAC GAC	CCGACAAAACATGATG GTCA	60.4	502	DRR	Ca_24772	--	NAC
Ca2_P2_16958740	Ca2	16958740	TG/T	GCCACCCTTAGGAGGA AAAG	GGTCGAAGTATTTGTT CCACG	59.5	872	INTERGENIC	--	--	--
Ca2_P2_16998327	Ca2	16998327	ACTCT/ACT	TCATGCCGAACAAAAAT TCA	CAAGGGTGTGCAAGAG GTTT	60.1	345	INTERGENIC	--	--	--
Ca2_P2_17046294	Ca2	17046294	AA/AAAATTTA	CTATTCATCCACGAAT GCC	TCCATGGAGGATATTTA TGCG	58.8	523	DRR	Ca_24768	--	G2-like
Ca2_P2_17061321	Ca2	17061321	TAATATATA/TAATATATAAATATATA	TTTGGCTCGGAAGCTTT TTA	AGGAAGAGTGGAGTTG CGAA	60.0	498	INTERGENIC	--	--	--
Ca2_P2_17061679	Ca2	17061679	T/TCCA	TTCGCAACTCCACTCTT CCT	CGGTAAAAATCTCTGC TCGC	60.0	190	INTERGENIC	--	--	--
Ca2_P2_17196393	Ca2	17196393	CTTTTTTTT/CTTTTTTT	CCGAGTGGAGCTCCTT ATTG	ACTTGCAATCGTCTCAA GGC	60.4	382	INTERGENIC	--	--	--
Ca2_P2_1728113	Ca2	1728113	AATTATTATTATTATTATTATTATTA TTATTATT/AATTATTATTATTATTAT TATTATTATTATT	GAAAAGACACACATATT TGGCA	GTTTGTGTGGTTGCA GTGG	60.0	491	INTERGENIC	--	--	--
Ca2_P2_17333975	Ca2	17333975	GCAACAACAACAACAACA/GCAACA ACAACAACAACAACAACA	TACTCCGACTCCGAAG AAGC	TGCAGCAACCCTCTAT TGTG	59.9	382	DRR	Ca_16008	--	--
Ca2_P2_17491578	Ca2	17491578	CATATATATATATATATATATATA/ CATATATATATATATATATATATA	AGTTGGTCCCTAGAA CCGT	CGGTGAATCCTTTACG GAGA	60.1	541	INTERGENIC	--	--	--
Ca2_P2_17512742	Ca2	17512742	GTATATATATATATATATATATATA TATATATAT/GTATATATATATATATAT ATATATAT	AGCTTATTCTGGCTCCC ACA	GTGGCCCTTCATCAAA AAGA	60.1	680	DRR	Ca_16004	R	Nin-like
Ca2_P2_17551687	Ca2	17551687	G/GC	ATGTGGTTGATAAGGC CTCG	AGCAAATGCAATGCTC TGAA	59.6	398	CDS (FRAME SHIFT)	Ca_16000	OE	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_18394672	Ca2	18394672	CTCTGCTT/CTCTGCTTCTGCTTC	TAGTGATGGGAGCTGC AGTG	TGGTCCATCCAGACTC AGTG	59.7	483	INTERGENIC	--	--	--
Ca2_P2_18523267	Ca2	18523267	TAAAAA/TTAAAAA	CAACATGCCACCACAA AAG	GGAGGCAACCCACAAG TAGA	60.1	304	INTERGENIC	--	--	--
Ca2_P2_18547380	Ca2	18547380	ATTTTTTTT/ATTTTTTTT	TCGGGCCTAAAAACA CAAC	ATGGAAGCGGAAAAAC AAGA	59.7	678	INTRON	Ca_15969	--	--
Ca2_P2_18584340	Ca2	18584340	GAAAAAAAA/GAAAAAAAA	ATGTACCTCGCCTCAT TTG	TCTCTGGCAACCGTTC TTCT	60.0	257	INTERGENIC	--	--	--
Ca2_P2_18610007	Ca2	18610007	TAA/TAACAA	TTGATCCCTTATTTCT GCG	TTATTTACCGTCGTGT CCA	60.0	492	INTERGENIC	--	--	--
Ca2_P2_186251	Ca2	186251	ATATTATTATTATTATTATTATT ATTATTATTATTAT/ATATTATTATTAT TTATTATTATTATTATTATTATT AT	GATGCACTTAGGGGCA ATTT	TGGATCAAGCCAAACC TTTC	60.1	610	INTERGENIC	--	--	--
Ca2_P2_18764616	Ca2	18764616	GAATAATAATAATAATAATA/GAATA ATAATAATAATAATA	ATTTGCCTCCCTCAACC TTT	TGCTTCATGGGTGCA TTGT	60.0	841	INTERGENIC	--	--	--
Ca2_P2_1879905	Ca2	1879905	CAAAAAA/CAAAAAA	AACATCTCTAGCGTGT CCA	CACACCACTCCCTTG TCTT	60.0	711	DRR	Ca_12598	YU	--
Ca2_P2_18833380	Ca2	18833380	TAAAAAAAAA/TAAAAAAAAA	TCGAAAAATCCCTTGAA AAAGA	GGACCTATCAAGTGAG CTTGTG	58.9	551	INTERGENIC	--	--	--
Ca2_P2_18870465	Ca2	18870465	GAAAAAAAA/GAAAAAAAA	TTGCTCCGATTCTATC TTCA	TTGATCCTGCCATCTTG TCA	60.2	766	INTERGENIC	--	--	--
Ca2_P2_18905246	Ca2	18905246	GTTTTTTTTT/GTTTTTTTTT	TGTGAGCTCAATTATTG GAACAG	TACTCAACCAACCCG TCAA	60.0	595	INTERGENIC	--	--	--
Ca2_P2_19008979	Ca2	19008979	TAAAAA/TAAAAA	GGCTATATCTCCCATG CAA	GCAAGAAACGAGGAAA GAAGG	60.4	663	INTRON	Ca_15954	--	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_19081800	Ca2	19081800	ATTT/ATT	TCACGGGTCAGCACAA TTTA	CGATTGTTGGATGG AGTC	58.9	152	INTERGENIC	--	--	--
Ca2_P2_19154584	Ca2	19154584	ATTTTTTT/ATTTTTTTTT	TCACTGCAAATTCGTG GAT	CGTGCATAATCAACATC AGTCA	59.6	385	INTERGENIC	--	--	--
Ca2_P2_1919646	Ca2	1919646	TC/TCTCC	TTGAAGCGATGTGGTT GAAG	CCAAAACAACATATGCC CGTT	59.9	339	INTERGENIC	--	--	--
Ca2_P2_19207562	Ca2	19207562	TAAAAAA/TAAAAAAA	ACAAACCAAAACCAAC CAA	TTTCACCGACCCAAAC AAAT	60.2	663	INTERGENIC	--	--	--
Ca2_P2_19219016	Ca2	19219016	ATTTT/ATTT	CCCGTGAGATCCTCCT AACA	TGAATCTACGGCTTTCT GGG	60.2	498	INTERGENIC	--	--	--
Ca2_P2_19276814	Ca2	19276814	ATTTTTT/ATTTTTTT	TTTTCACATGTGCTCGT TTACC	CAATAGCAAGACATTG CCCA	59.7	810	INTERGENIC	--	--	--
Ca2_P2_19363197	Ca2	19363197	A/ACTT	GCAGCGAAACTTAGAG ACGG	ACCGAGTGTGGAATC AAGG	60.3	606	INTERGENIC	--	--	--
Ca2_P2_19387244	Ca2	19387244	TTATATATATATATAT/TTATATATATA TATATATAT	CGACATTGTAGCACCC CTTT	TTTAGATCCCTTGAC GACC	60.1	191	INTERGENIC	--	--	--
Ca2_P2_19513567	Ca2	19513567	TG/T	GCCCTGAGTCAATAC CAAA	ATCGCCAACATTCAAC AAA	59.0	615	INTERGENIC	--	--	--
Ca2_P2_19517696	Ca2	19517696	AAAGAA/AAA	CCCAAATCACCTAATT GTGAA	TGTAAAGCTGCATCG GACA	60.4	213	INTERGENIC	--	--	--
Ca2_P2_19594396	Ca2	19594396	ATT/ATTTAATCTCTT	GATGCAATTTTAGAGGA GAAGCA	TTTTTGGCCTTTGAGA GGAA	59.8	221	DRR	Ca_24535	--	--
Ca2_P2_19705772	Ca2	19705772	GAAAA/GAAAAA	TATTTTGGATTTTGGCT CGG	AGGAAGAGTGGAGTTG CGAA	60.0	475	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_19791685	Ca2	19791685	C/CG	TAGGCCATTTTCGTCCT CAC	AATCCAATGACACAAC GCA	60.0	392	INTERGENIC	--	--	--
Ca2_P2_19976429	Ca2	19976429	TATATATATATAT/TATATATATATATA TACATATATATATAT	ATGTTTTGGATTTTGGC TCG	AGGAAGAGTGGAGTTG CGAA	60.0	526	INTERGENIC	--	--	--
Ca2_P2_20086670	Ca2	20086670	GAAAAAAAA/GAAAAAAAAA	GCTGGCTGACATCTTC ACAA	GAATGGGAACCCCTTT GGTT	60.0	710	INTERGENIC	--	--	--
Ca2_P2_20166723	Ca2	20166723	TTATATATATATATATATATAT/TTATA TATATATATATATATATATATATAT	CAAATGCCGTCAACAAC ATC	GCAAATGCTCCCTAA TTGA	60.0	541	INTERGENIC	--	--	--
Ca2_P2_20196984	Ca2	20196984	AAATAA/AAAATAATAA	GTTTGGGGTGGTGATT CTCA	TCCTAGAACATGCATCA CGC	59.8	345	INTERGENIC	--	--	--
Ca2_P2_203232350	Ca2	203232350	TNNNNNNNNN/TNNNNNNNNN	TTACGTATCTCTCGGTG CGA	AACGTCAACTTCGACC CTTG	60.1	541	INTERGENIC	--	--	--
Ca2_P2_20275069	Ca2	20275069	CATATATATATATATATATATATATAT ATATATATATA/CATATATATATATATA TATATATATATA	GAGTATAACCACGCCG GAAA	GTTCCCCAGTTGCTTG TGTT	60.0	625	INTERGENIC	--	--	--
Ca2_P2_20280019	Ca2	20280019	TAAAAAAAAA/TAAAAAAAAA	GCAAGGTTTGACAGTG AGCA	CATCGACAACCAATCC ACAG	60.0	554	INTERGENIC	--	--	--
Ca2_P2_20321211	Ca2	20321211	GTTTTTTTT/GTTTTTTT	TCCAACAATCAACATA GACATGA	CCGCAAGTAAATCCGG TAAA	60.0	786	INTERGENIC	--	--	--
Ca2_P2_20353586	Ca2	20353586	T/TG	TCTCCCTCCTCCTCA TTT	CATTAAGAGGTTCCCC CTCC	59.8	844	INTERGENIC	--	--	--
Ca2_P2_20380428	Ca2	20380428	CTATATATATATATATAT/CTATATATA TATATATAT	CTTTCCCATCAACAAC TGG	CTAAGCCCGATAACGG ATGA	60.1	538	INTERGENIC	--	--	--
Ca2_P2_20451589	Ca2	20451589	CAAAA/CA	ACCAAATTGACTCGGT GCTC	TGTGGGATGACCTTT TTGT	60.2	460	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_20474785	Ca2	20474785	GAAAA/GAAAAA	ATACTGGCTCGGAGGC TTTT	CGTAGCGTGGTAGTGA GCAA	60.1	614	INTERGENIC	--	--	--
Ca2_P2_20490707	Ca2	20490707	T/TCAAAACATTA	AGTAGACCCACCGATG TTGC	TTTCAGAGCTTGCGGA TTTT	60.0	437	INTERGENIC	--	--	--
Ca2_P2_20586221	Ca2	20586221	A/AC	ATTCCAAACCAAAACCC TCC	TAAATCGTGTGACCC GTGA	60.0	197	INTERGENIC	--	--	--
Ca2_P2_20588077	Ca2	20588077	ATTTTTTTTTTT/ATTTTTTTTTT	CCGAGCCAAAATCCAAA ATA	CTCCCCCTTTTGTATGA TGA	59.9	814	INTERGENIC	--	--	--
Ca2_P2_20647114	Ca2	20647114	AATATATATATATATATATAT/AATATATA TATATATATATATAT	ATCACTCGCACACAAA CCA	TTGGAAGGAGCCCTTA CCTT	60.1	920	INTERGENIC	--	--	--
Ca2_P2_20687157	Ca2	20687157	ATT/ATTT	GATTGGTCGGTTGACT CGTT	AAGCATTCCCCTCTGC ATTC	60.0	253	INTERGENIC	--	--	--
Ca2_P2_20745579	Ca2	20745579	TC/TCC	CTCGTGCAAAATCACGA GTCT	TTGTGTTTTGGTTGTGA CCG	60.4	323	INTERGENIC	--	--	--
Ca2_P2_20761850	Ca2	20761850	CATA/CATATA	AAAATCCAACATCTCC CCC	ACTCCTCCACAAGCCT CTGA	60.0	939	DRR	Ca_23762	--	--
Ca2_P2_20970910	Ca2	20970910	ATTCCTCTT/ACTT	AACAAAGGAACAAAATG GCG	AGGGACAAGGGCAAG AAAT	59.9	853	INTERGENIC	--	--	--
Ca2_P2_21088001	Ca2	21088001	TA/TAAAGCATCA	AGAACGATGACACGTT GGGT	CTTGTGCCAAAAGCA GCC	60.0	812	INTERGENIC	--	--	--
Ca2_P2_21308559	Ca2	21308559	CTTTTCCTTTGTTCTTTTTCCTT/CTTT TCCTTTGTTCTTTTTCCTTTGTTCTTT TTCCTT	TTTCGAAGCAACGAGG AAGT	TTGGTATTGAACTCG AGGC	60.1	474	INTERGENIC	--	--	--
Ca2_P2_21312312	Ca2	21312312	GTTTTT/GTTTTTTTT	TATCAGAGTTCTCCCCA CCG	AGAAACCACAACGCAA CACA	60.2	356	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_21314611	Ca2	21314611	AG/AGG	CAAACCCCTTCAAGGTG CAT	GCACTGCCCAAGAAT TTTA	60.1	443	INTERGENIC	--	--	--
Ca2_P2_21553694	Ca2	21553694	TTTATTATTATTATTATTATTATT ATTATTATTATT/TTTATTATTATTAT TATTATTATTATTATTATTATTAT TTATTATT	TGTGCTCTCAATTGTGC TCC	AATTACCCGCATGTTG AAGC	60.0	792	INTERGENIC	--	--	--
Ca2_P2_21596317	Ca2	21596317	TTTATTATTATTATTATTATTATT ATT/TTTATTATTATTATTATTATTAT TATTATTATT	AATCCCTCCCTTCGTCA CTT	TCCCTTTCTACAAGCGT TCA	58.5	210	INTERGENIC	--	--	--
Ca2_P2_21672716	Ca2	21672716	ATT/AT	TGATGCCGTGCCATAA ATAG	TAACCTTGCCTTTGGG TGAG	60.1	595	INTERGENIC	--	--	--
Ca2_P2_2168744	Ca2	2168744	TTTTT/TTTTTT	AGCTTGCCAACCTCTG GGTA	GTAAACCGTAGGGGG CATT	60.1	928	INTERGENIC	--	--	--
Ca2_P2_2169056	Ca2	2169056	C/CG	AACCTCTCCAAGAGGAT CGG	GGAGAGTGAAACGGAT GGAA	60.1	648	INTERGENIC	--	--	--
Ca2_P2_2169072	Ca2	2169072	TTCTCTCTC/TTCTCTCTCTC	AACCTCTCCAAGAGGAT CGG	GGAGAGTGAAACGGAT GGAA	60.1	648	INTERGENIC	--	--	--
Ca2_P2_2169184	Ca2	2169184	GTTTT/GTTT	TCTCAGGTTTCAACTT CCC	GTCTGATGGAGGAGGC AGAG	59.9	447	INTERGENIC	--	--	--
Ca2_P2_21699071	Ca2	21699071	AAATAATAATAATAATAATAA/AAAT AATAATAATAATAATAATAATAA	GGCCTAGGCAAAATTA GGG	AGGTTGCCCTTTCAGG TTTT	60.0	210	INTERGENIC	--	--	--
Ca2_P2_21717164	Ca2	21717164	TA/T	GGTAGAGGCAGGCCAT ATCA	GATTTGTGAGGGATTT TTCAGC	60.0	841	INTERGENIC	--	--	--
Ca2_P2_21735219	Ca2	21735219	AATATATATATATATATATATATAT ATATATATATATATAT/AAATATATAT ATATATATATATATATATATATATA TATAT	GCACACAAAATCAAAAC ACACA	TCCAAAGGCTTGAGCT TGAT	60.0	418	INTERGENIC	--	--	--
Ca2_P2_21757860	Ca2	21757860	CTTTT/CTTT	TTGACCGAAGAAAAAT GGG	CCGAAATGAGTCCCAT CTGT	59.9	569	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_2235889	Ca2	2235889	TTATTA/TTATTACTATTA	TCTTGCACAACCTATT CGG	AAAAAGCAAAGAAATTG TCAGAA	57.3	330	INTERGENIC	--	--	--
Ca2_P2_22483232	Ca2	22483232	ATAATTAAT/ATAAT	CGTGCCACTTTTCTCTA GGC	AGATCATGTGCAAAAA GGGG	59.9	369	INTERGENIC	--	--	--
Ca2_P2_22489205	Ca2	22489205	CTTTT/CTTT	GATCAGATCTGGCAGC AACA	AAGTGATTTTGGCCTG AGGA	59.7	401	INTERGENIC	--	--	--
Ca2_P2_22527944	Ca2	22527944	TAAAAAA/TAAAAAAA	TGCTCCCTCATTCTTCC ATT	ATCTTGAGCCCCCTGA TCTT	60.0	713	INTERGENIC	--	--	--
Ca2_P2_22650634	Ca2	22650634	TG/T	GAGAGGAGGGTTCCCA GAGT	GTGCATCTCCATCTTT GGT	59.9	550	DRR	Ca_14991	--	--
Ca2_P2_22652275	Ca2	22652275	TAATCGATAGACAAATCGAT/TAATCGA T	CGGAGCAAATCGATTA GGAA	GCACTGGACGTAACCC AGAT	60.0	500	INTERGENIC	--	--	--
Ca2_P2_2278595	Ca2	2278595	CTATTTATTAT/CTATTTAT	GTTTGGAAAATGTTGCA TCG	GCAACCATCAGGCCAA TAAA	60.8	718	INTERGENIC	--	--	--
Ca2_P2_228183	Ca2	228183	GTTTTTTTTT/GTTTTTTTTT	TTCGAAACGTTGGATGA ATG	GCAACCATCTGACCAA GTGA	59.7	418	INTERGENIC	--	--	--
Ca2_P2_22825489	Ca2	22825489	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA/A TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTA	TTGGTAATTCAGGACGA GGC	ACGAGGTAACGAAATG GCAG	60.1	828	DRR	Ca_14985	O	GeBP
Ca2_P2_22846943	Ca2	22846943	ATTTTTTTTT/ATTTTTTTTTT	GTTTCCAACTCTCGG TTGA	GCACGTGGCTAGGGT ATGT	60.0	569	DRR	Ca_14984	--	--
Ca2_P2_22890617	Ca2	22890617	TTATATATATATATATATATAT/TTATA TATATATATATATATATATAT	GCCACCCTTGTGAGAG TTTC	CACGAGTCCGATAAGG GTGT	60.0	554	INTERGENIC	--	--	--
Ca2_P2_23029103	Ca2	23029103	TATA/TATAGTAATA	GGTTCCTGTTGTGGCT TTTT	TGCTCATGTGTTGGAA GTGC	60.9	586	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca2_P2_23050911	Ca2	23050911	AATG/AATGGTCTATTGGCTTATG	TATGGGGATCGGAAT CAAA	ACAATCGAAATTTTAGG CCG	59.1	907	INTERGENIC	--	--	--
Ca2_P2_23058191	Ca2	23058191	GTTTTTTTTTTT/GTTTTTTTTTTTTT	GAAACTGTGTCACGAG GCAA	AGAGCCGTCCAGAAAA ATCA	59.8	121	INTERGENIC	--	--	--
Ca2_P2_23183113	Ca2	23183113	TAAAAA/TAAAAAA	TGGATACATATGCCGT CAA	ACCGTGGACCACCTTT GATA	60.2	565	DRR	Ca_14971	--	--
Ca2_P2_23193293	Ca2	23193293	GTT/GTTT	CCACAAATGCTCATCGT GAC	TTTGCAGCCACAAAAG ACAG	60.0	561	INTERGENIC	--	--	--
Ca2_P2_23193466	Ca2	23193466	TA/T	CCACAAATGCTCATCGT GAC	TTTGCAGCCACAAAAG ACAG	60.0	561	INTERGENIC	--	--	--
Ca2_P2_23243854	Ca2	23243854	AAATAATAATAATAATAATAATA ATAAT/AAATAATAATAATAATA ATAATAATAATAAT	TTTCATGATAATTTTG AGGGA	CGGCTTTACACCACCT GTTT	60.0	252	INTERGENIC	--	--	--
Ca2_P2_23294259	Ca2	23294259	GGATGCA/G	TCTAACACTCCCCCTCA AGC	TTTGTCTCAGATGCACT GGC	60.0	342	INTRON	Ca_14967	S	ERF
Ca2_P2_23365942	Ca2	23365942	TAAAAA/TAAAAA	GAGCTGTGCTTGGCA ATCA	TCTCTGGCAACCGTTC TTCT	60.0	597	INTERGENIC	--	--	--
Ca2_P2_23401826	Ca2	23401826	AT/ATTT	TTCGTAATCGATTGCA GTG	TTTTCTCAAACCCAAA AGC	60.1	920	INTERGENIC	--	--	--
Ca2_P2_23408235	Ca2	23408235	AATATATATATATATATATAT/AA TATATATATATATATATATAT	GGTAGGAATTGGGTG GGTG	AGGAAGAGTGGAGTTG CGAA	60.0	710	INTERGENIC	--	--	--
Ca2_P2_23409125	Ca2	23409125	T/TA	CGATTTGTGTCCTTGT TTG	AGATTCCCCCTTCTTAA CGC	59.6	335	INTERGENIC	--	--	--
Ca2_P2_2344236	Ca2	2344236	ACATTCATTCATTCATTC/ACATTCATTC ATTCATTCATTCATTCATTC	GAAGGATAGGTCGCAT TGGA	TGCAGCTGTGATGTTG TTCA	60.0	384	INTRON	Ca_12544	S	BBR-BPC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_23472039	Ca2	23472039	CTTTATTTATTTATTTATTTATTTA TTTATTTAT/CTTTATTTATTTATTTT ATTTATTTATTTATTTATTTATTTAT	TTTTGCTAACCACACC CTC	TGACCACGTGTTTTG GGTA	59.9	434	INTRON	Ca_14958	--	--
Ca2_P2_23495114	Ca2	23495114	ATTTTT/ATTTTT	GCTCCCATGAGCACT AGAA	AGGCTCTCAATGCCAA CCTA	59.8	710	INTERGENIC	--	--	--
Ca2_P2_23496145	Ca2	23496145	TTATATATATATATATAT/TTATATATA TATATATATAT	GTTTTGTAGTGCCCC AAAG	CTTTCAAACGGCGAC TTTC	59.9	557	INTERGENIC	--	--	--
Ca2_P2_23509535	Ca2	23509535	AAAACTTAAACTTAAACTTA/AAAAA CTTAAACTTA	CCCTCTGAATTTTGT TTTCC	CCCACCCCTCGACTA AAGA	60.1	542	INTERGENIC	--	--	--
Ca2_P2_2354894	Ca2	2354894	ATT/ATTT	CCTTCCCAGATCCTTA ACC	TGTAGTGGGTAATTTG AGCCG	60.0	866	INTERGENIC	--	--	--
Ca2_P2_2373367	Ca2	2373367	AATATATATATATATATATA/AATAT ATATATATATATATATATATATATA	AAAATTGTCAGGTTTAC CGC	GGTGGTGATTTGGTGC TCTT	60.0	896	DRR	Ca_12541	R	DBB
Ca2_P2_23792320	Ca2	23792320	GGAGTAAGAGAGTAA/GGAGTAAGAGA GTAAGAGAGTAA	TCAGAAATCCCTGATCCC AAG	GCAACCAGGAGGCAAG TCTA	60.4	490	INTERGENIC	--	--	--
Ca2_P2_23820380	Ca2	23820380	TTATATATATATATAT/TTATATATATATA TATAT	GTGCTCTCGTCAAACG AACA	AAGCGCTGTAAATGGT GCAT	60.7	716	DRR	Ca_14945	--	--
Ca2_P2_2382639	Ca2	2382639	T/TCATA	TTGGAAATGCCAGAGG TATTAGA	TGTGATTTGGTTTCGC AAAG	59.7	658	DRR	Ca_12540	R	--
Ca2_P2_23829520	Ca2	23829520	GTT/GT	AAATGGTTTGCCCATCA AAA	CTTGCCTTTCCTCACCT CAG	60.0	791	DRR	Ca_14944	T	YABBY
Ca2_P2_23838319	Ca2	23838319	GTTTTTTTTTTTT/GTTTTTTTTTTTT	CAACAATCTCTCCCGCT CTC	TGGCGACTAGGAGGTT TTGA	60.8	665	INTERGENIC	--	--	--
Ca2_P2_23849485	Ca2	23849485	A/ATATAT	TTGTGTGTGGGAAGAA CCAA	AGACACCCAAGAGAT GTGG	60.0	521	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_23851284	Ca2	23851284	GATATATATATATATATATATATATA/ GATATATATATATATATATATATATA A	TGCCTTCATCATGTGGT TGT	ATGGCAATTTCTCAGG ATGG	59.9	501	INTERGENIC	--	--	--
Ca2_P2_23932608	Ca2	23932608	TAAATTAATGAATAAAATTAAT/TAAAT TAAT	AAGGCATCCAATCAAAG CAC	CTCAAGATTTTAGCGC CGTC	60.0	460	INTERGENIC	--	--	--
Ca2_P2_23946313	Ca2	23946313	ACA/ACAGCTGCCA	GAGCCAAACACTGCAT CAGA	GGTAGCGGCTTGTGCT AGTT	59.5	662	INTERGENIC	--	--	--
Ca2_P2_23986096	Ca2	23986096	TTATATATATATATATATA/TTATATAT ATATATATATATATA	CAAAATTTTCAAAACAA ACCCG	GCACGACAAACACCTC AAAA	59.7	574	INTERGENIC	--	--	--
Ca2_P2_23989802	Ca2	23989802	AAAAACAAAACAAA/AAAAACAAAACAA AACAAAA	AATTCGTTGAGCCGGT CTAGT	AGCACGGGGAGTATGA GAAA	59.7	421	INTERGENIC	--	--	--
Ca2_P2_23990182	Ca2	23990182	AAAAACAAAACAAA/AAAAACAAAACAA AACAAAA	TCTCATACTCCCCGTGC TTT	ATCCCCTACACCAGAT GCAC	59.8	565	INTERGENIC	--	--	--
Ca2_P2_24102909	Ca2	24102909	GT/GTT	TGGGGGATCCAAGTTA AAAA	GAAACTCTCCGGCAT TCAA	60.2	428	CDS (FRAME SHIFT)	Ca_21670	S	--
Ca2_P2_24157441	Ca2	24157441	ATTTTTTT/ATTTTTTTT	CAATATTCCGAGGAG ACGA	CTTCAGCATGCACCCC TAAT	60.1	727	INTERGENIC	--	--	--
Ca2_P2_24190689	Ca2	24190689	ATTT/ATTTT	AACACTTTCATCCAATA AAAATTGA	TTGTTGAAAATAATCGC GTGAC	60.0	526	INTERGENIC	--	--	--
Ca2_P2_24251584	Ca2	24251584	ACCCCC/ACCCCCC	GATTGCTTTCTGGGTG GAAA	TGATCAACCCTTGGTG TGAA	59.9	652	INTERGENIC	--	--	--
Ca2_P2_24251932	Ca2	24251932	A/AC	GATCCTCAAATCGACCT CCA	GCACAGTGAAGCTTT GCCA	60.1	410	INTERGENIC	--	--	--
Ca2_P2_24252139	Ca2	24252139	TAA/TAAGAAA	GATCCTCAAATCGACCT CCA	TGTCAACATTGGTCTC CAAA	59.9	465	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
Ca2_P2_24319865	Ca2	24319865	GAAAAAAAA/GAAAAAAAAA	CCGAGCCAAAATCCAA ATA	ACCGACATCTGGCTGA GTCT	59.9	972	INTERGENIC	--	--	--	
Ca2_P2_24393200	Ca2	24393200	G/GAAGATA	TCCTAGAACATGCATCA CGC	TACCCCTTGCTAGCCC CTTT	60.1	505	INTERGENIC	--	--	--	
Ca2_P2_24475160	Ca2	24475160	AATATATATATATATATATATA/AAT ATATATATATATATATA	TTCATGCCTCGTAAGCT TCAT	TGGTGACCACGCTCAT ATTT	59.0	460	INTERGENIC	--	--	--	
Ca2_P2_24538889	Ca2	24538889	ATATTATTATTATTATTATTATTAT/A TATTATTATTATTATTATTATTATTA TTATTAT	GGAGGACATGCAAATG AGGT	GTGGTTTGACGGCTAT GGAT	60.0	829	INTERGENIC	--	--	--	
Ca2_P2_24563119	Ca2	24563119	TCCCC/TCCC	CCATCTACTGCCCTTG GAAA	GATCCAGGCAAGGTCA ATGT	59.9	260	INTERGENIC	--	--	--	
Ca2_P2_24571099	Ca2	24571099	TA/T	CGGTAGGTGGTAAAA GAGCA	CCGCATCGTTAAAAATC TCA	58.8	469	INTERGENIC	--	--	--	
Ca2_P2_24597881	Ca2	24597881	T/TTGGAGATCATC	TTATTGGGCCTGTCAA AAC	ATGGCGTTTACCCAAG ACTG	60.0	564	INTERGENIC	--	--	--	
Ca2_P2_24650875	Ca2	24650875	TATAATAATAATAATAATAATAATA TAATAATAATAATAAT/TATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATAATAAT	TGTTGTTCCATACCTT CCC	ATGAGGTCCGACTTAA CATCA	57.1	413	INTERGENIC	--	--	--	
Ca2_P2_24660741	Ca2	24660741	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA TAATAATAATAATA	CTTCGAAGGCCTACAC CAAA	TTGGTGAAACCCCTA AACG	59.8	569	INTERGENIC	--	--	--	
Ca2_P2_24943252	Ca2	24943252	CTTT/CTT	AACCCCTCCAAGAAC GACT	AGGGCCCCACTAACT CTTA	60.0	680	INTERGENIC	--	--	--	
Ca2_P2_24948166	Ca2	24948166	CTTTTT/CTTTT	GGTGAGACTTTCGAGG GCTA	GGCATTGAACGTTTTT ACAA	59.6	295	INTERGENIC	--	--	--	
Ca2_P2_25072393	Ca2	25072393	CTATATATATATATATATATATATA TAT/CTATATATATATATATATATAT ATAT	GAAGGAAGGAGGTCGG ATTT	GGAGTTGCAGGCAGAA AAAG	60.0	561	DRR	Ca_14240	R	MYB	

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_25135786	Ca2	25135786	GTT/GTTT	GGAAGCTGACTTTTG GCAT	TGGCTTGATTCTTTG CTT	59.8	160	INTERGENIC	--	--	--
Ca2_P2_25171520	Ca2	25171520	TCAACAA/TCAA	GGAATGAGCTGAATG GGAA	CCAGAGGGGATGTTGA GAAA	60.0	551	INTRON	Ca_14250	T	M-type
Ca2_P2_25228216	Ca2	25228216	T/TTGG	TGTCCTTTTCAAACCC ATC	ACAAGCAAAACCTCAC CACC	60.0	351	CDS (large-effect mutations)	Ca_14254	R	--
Ca2_P2_25241576	Ca2	25241576	GATATATATATATA/GATATATATATA TATATATA	TATTTTGATTTTGGCT CGG	AAATGGAGGAAGGAGG GAGA	60.0	433	INTERGENIC	--	--	--
Ca2_P2_25352886	Ca2	25352886	ATTTTTTTTT/ATTTTTTTTTT	AAAGAGACATGACAT AACTCCTC	ATGGGGGATGGACCTA GAAC	60.0	685	DRR	Ca_14268	--	--
Ca2_P2_25411955	Ca2	25411955	TAATTATAAA/TAATTATAAAATTATAAA ATAAGTGG	CAAAATCATTACTCACC ATAAGTGG	TCACATCAGCCAAAA GCTG	60.0	405	INTERGENIC	--	--	--
Ca2_P2_25427657	Ca2	25427657	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATAT ATAT	TGTTGTTGAAGATGAAA TATTGGC	TTGGCGTAGTGAAGT TGACA	59.4	723	INTERGENIC	--	--	--
Ca2_P2_25449852	Ca2	25449852	CGTAGATA/CGTAGATAAAATAGTAGAT A	TATTTACCGACGGACAA GCC	TCGCATGGCTATGAAA AGTG	59.8	522	DRR	Ca_14275	K	G2-like
Ca2_P2_25460200	Ca2	25460200	TTATATATATATATATATATATATATA TATATATAT/TTATATATATATATATATAT ATATATATATATATATATATATAT	AAAGCGTTGGCTTTTTC TGA	GTGCAACTTCATCCCC ACTT	60.0	774	INTRON	Ca_14276	Q	GeBP
Ca2_P2_2546989	Ca2	2546989	AT/ATCATAGTTT	CCCGTCGATCAAAAGA AAAA	TTGAATTGCTTCCAGT GTCC	60.1	705	INTRON	Ca_10592	R	--
Ca2_P2_25529098	Ca2	25529098	A/ATC	CCATTGAATTTACCGAC GAAA	TTTACCGGGATTCTGC AAAG	60.1	663	INTERGENIC	--	--	--
Ca2_P2_25529864	Ca2	25529864	GTTTTTT/GTTTTTTTTT	AGCAGCCCAAGCAAGA CTTA	TCATGCCGATTGATAG AGGTT	59.5	553	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_25530031	Ca2	25530031	A/ATACCCTTG	AGCAGCCCAAGCAAG CTTA	ATCCGACCGTTGAAGA TTTG	59.9	724	INTERGENIC	--	--	--
Ca2_P2_25535050	Ca2	25535050	CTTTTTTTT/CTTCTTTTTTTTTTTTTT	CCAGATTGAACTGGG GAAA	AATCAAGTGGGTTCTGA GTGG	60.0	551	DRR	Ca_14283	R	MYB
Ca2_P2_25554310	Ca2	25554310	TTGTGTGTGTGTGT/TTGTGTGTGTGT	ATGCGGCAGGTATGAG AACA	ATATCAACGCCCTTTTG CAT	59.4	473	INTERGENIC	--	--	--
Ca2_P2_25593755	Ca2	25593755	TTATATATATATATATATATATATATAT/T TATATATATATATATATATATATATATAT ATATAT	AACCCGTTTTGATTGAG TGC	TGCGAAATTAGGCTTC CATC	60.2	466	INTERGENIC	--	--	--
Ca2_P2_25619256	Ca2	25619256	CTTTTTT/CTTTTTTTT	TTGAGAGACCAAAAGT TCCAAA	AAGTGACTATTTCTCTG GTCCCT	59.6	829	INTERGENIC	--	--	--
Ca2_P2_25642637	Ca2	25642637	TAAAAAAAA/TAAAAAAAA	AGTAGCCACTCCCAAC AAGG	TGGTTGTTCCGATCCT TCTC	60.1	651	INTERGENIC	--	--	--
Ca2_P2_25733189	Ca2	25733189	TAAAAAA/TAAAAAA	CTCAGAAAGCGGATCA AAGG	CTCAACCAACCACCCA CTCT	60.0	477	INTERGENIC	--	--	--
Ca2_P2_25767704	Ca2	25767704	GAAGTTAAGTT/GAAGTT	ATGAATTTGGCATCCA ACC	CGTGGACAAAAGATCGT GATG	60.1	654	INTRON	Ca_14294	G	NAC
Ca2_P2_25806540	Ca2	25806540	TAAAAAAAAAAAA/TAAAAAAAAAAAA	AATGTGATTGAGGAGTT GCG	TCTATGCGTAGCCACA ATGG	59.7	871	INTERGENIC	--	--	--
Ca2_P2_25911445	Ca2	25911445	GAAAAAAAA/GAAAAAAAA	TTTCCCGACTTGGTCCT TTA	TGCGCTTAAAGACAGG GAGT	60.0	417	INTERGENIC	--	--	--
Ca2_P2_2610952	Ca2	2610952	CATATATATATATATATATATATATATAT ATATAT/CATATATATATATATATATATAT ATATAT	TACCCTCGCTCCTGTC GTAT	GGGAATCGGTTTTGAG TGAA	59.9	392	INTERGENIC	--	--	--
Ca2_P2_26109919	Ca2	26109919	CTATATATATATATATATATATATATATA TATATATA/CTATATATATATATATATATA TATATATATATATATATATA	TTGTGCCTATTGTTGTG GGA	CAACCACTACTCCACG CTCA	59.9	573	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_26111863	Ca2	26111863	AATATATATATATATATATATAT/ATA TATATATATATATATATATATAT	ATGCGTACATCAAGG TGGT	GGCTCATATATTTGCAT TCACG	59.5	560	INTERGENIC	--	--	--
Ca2_P2_2624920	Ca2	2624920	CGGCTGGCT/CGGCT	GGCCAAGTTGCTGAAG GATA	CGCTAAGAGGCCGTTA TCAA	60.4	610	INTRON	Ca_10586	--	--
Ca2_P2_263972	Ca2	263972	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TTGGGATTAAAAACCA TTCC	TGCACGTTCTTCTCCTC CTT	60.0	467	INTERGENIC	--	--	--
Ca2_P2_26492795	Ca2	26492795	GAAAAAAAAAAAA/GAAAAAAAAAAAA	TGACGACATCAACCAAC CAC	GTTGAATTATTGGCGG GAAA	59.8	538	INTRON	Ca_17249	Q	GeBP
Ca2_P2_26504194	Ca2	26504194	AGG/AG	CCGACGTCCAGTCAGA ATTT	GGATTGGAGTTGGTTG GATG	60.2	319	INTERGENIC	--	--	--
Ca2_P2_26504489	Ca2	26504489	CAA/CAAAA	CCGACGTCCAGTCAGA ATTT	CTCAATTGGACACCGT TCCT	60.0	772	INTERGENIC	--	--	--
Ca2_P2_2671437	Ca2	2671437	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TAATTCAGCCAAGGAAG CCA	GGAAAACGCAAAAGGA ATCA	60.1	235	INTERGENIC	--	--	--
Ca2_P2_26811414	Ca2	26811414	TAAAAAAA/TAAAAAAA	GGGCTTGTTTGATTGT GTTTT	GGCTCCATTCTTTGCT CTTG	60.0	584	INTERGENIC	--	--	--
Ca2_P2_26830567	Ca2	26830567	AAAATATAATA/AAAATATAATATAAA TA	TCGTAGGGAATCACTC CAAA	GACCTTGCATCTCTTG AGCC	60.0	543	DRR	Ca_17273	--	WRKY
Ca2_P2_2692293	Ca2	2692293	ATTTTTTTT/ATTTTTTTT	AAAGGTGATGAAGCAG ATTTTGA	TGGTGCCTCTCTTCT CTAATCG	59.9	478	INTERGENIC	--	--	--
Ca2_P2_2703935	Ca2	2703935	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CCCAGCCATAGTTTGG AAAA	TTCACCCAGTTGGTGT TCAA	60.0	656	INTRON	Ca_10573	Q	B3
Ca2_P2_27068285	Ca2	27068285	TCC/TCCC	CGTGCTGAATTTTGGT GAGA	TTGGTTTCATGACCTG CATC	59.5	713	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_27153936	Ca2	27153936	TTATATATATATATATATATAT/TTATA TATATATATATATATAT	TCCAACTAGGTGGCA ACAA	TTGCCCACTCATTTCT TTC	60.1	478	INTERGENIC	--	--	--
Ca2_P2_27401550	Ca2	27401550	TAAAAAAAAA/TAAAAAAAAA	GCCGTTGGGTTTGTG TAGA	CCAATCACCTCCAGT CACC	60.4	678	INTERGENIC	--	--	--
Ca2_P2_27432353	Ca2	27432353	G/GT	TCATGATGGTAACCG ACCT	CATCAACCCACACAC AACC	59.7	319	INTERGENIC	--	--	--
Ca2_P2_27436271	Ca2	27436271	CAAA/CAA	TCCTACGTATCTTTGA TGCGA	CGTGCCCAATCTCTCA ATCT	60.2	382	INTERGENIC	--	--	--
Ca2_P2_27468383	Ca2	27468383	TTATATATATATATATATATATATA TATATATATAT/TTATATATATATATAT ATATATATATATATAT	TTAACCGAGAAAAATA CGCA	ATTGCAAGTCAACATG GGA	59.0	670	INTERGENIC	--	--	--
Ca2_P2_2749945	Ca2	2749945	CTTT/CTT	ATATGGATTGATGCCCC AAA	TTGCATTTTTCAGAGG GAGG	60.2	580	INTRON	Ca_10569	GMO	E2F/DP
Ca2_P2_27560889	Ca2	27560889	TTCCCTCCTATCCCTC/TTCCCTC	GGTGCAATTTGGGAACC TTTA	CTGCAGCATCCCTACA CTCA	60.0	767	INTERGENIC	--	--	--
Ca2_P2_27614728	Ca2	27614728	AAATAATAATAATAATAATAATAATA ATAATAATAATAATGCTAATAATAATAAT AATAATTGTAATAATAATAATAATAAA CAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATGC TATAATAATAATAATAATAATAATAATA	CGCGCGAGCCATAATC TAGT	CGACGCCAATCTGCTT ATTT	60.2	625	INTERGENIC	--	--	--
Ca2_P2_27692325	Ca2	27692325	TG/T	AGACAAAACGTTCAAGT TGTCG	TCTTTAATTGCATGCGC AAA	60.3	762	DRR	Ca_15671	--	ERF
Ca2_P2_27804750	Ca2	27804750	TCC/TC	CAGGAACTCTGCCTTT TCG	TAGCAGCTGTATGGTG CAGG	60.0	137	INTERGENIC	--	--	--
Ca2_P2_2794197	Ca2	2794197	ACTCTCTCTCTCTCTCTCTCTCTCTC /ACTCTCTCTCTCTCTCTCTCTCTCTC CTC	GACACCCCTTCACCTCA AAA	CGAGTTCTATTGCCTCT CGC	60.1	680	INTRON	Ca_10562	B	WRKY
Ca2_P2_27944905	Ca2	27944905	AATATATATATATATATATATATATAT ATATATATATATATATATATAT/AAAT ATATATATATATATATATATATATATA TATATATATATATATATATATATATAT	TTGACCCAATCTTGGTG GAT	ATTGCCTTATGCCTTG GTTG	60.0	600	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_2798707	Ca2	2798707	TAAAAATAAAAAA/TAAAAATAAAAA AAATAAAAAA	CAGCACGTGAAGAAC AAAA	TTTGCTCGCTCTCTC CTC	60.0	444	INTRON	Ca_10562	B	WRKY
Ca2_P2_27989435	Ca2	27989435	CAAAAAAAAA/CAAAAAAAAA	CCACGCTTCCTTTGTC AAT	TCAAGCCAAATCTGAAT GTCC	60.1	451	INTERGENIC	--	--	--
Ca2_P2_28009782	Ca2	28009782	TTATATATATATATATAT/TTATATATA TATATATATAT	TGGCAATGGTACTG GAGA	GGAAGTCCGAATTGC AATG	60.4	206	INTERGENIC	--	--	--
Ca2_P2_28118930	Ca2	28118930	TAAAAAAAA/TAAAAAAAA	ACTGTGGTGGGATTGA CCAT	AACGAGAGAGGTTGGA GGGT	60.1	688	DRR	Ca_14391	M	HB-other
Ca2_P2_28157707	Ca2	28157707	GATATATATATATATATATATATATAT ATATAT/GATATATATATATATATATAT ATAT	TGCAGTGCAGTTAGTTC AGACC	AAGCACGACCAATCCT CAAC	60.1	741	DRR	Ca_14385	O	MYB_related
Ca2_P2_28157957	Ca2	28157957	TTATATATATATATATATAT/TTATA TATATATATATATATATATATAT	GCATGGACATTCAAAA TGAGA	CCATGTCTAAGTGGA GGGT	60.0	583	DRR	Ca_14385	O	MYB_related
Ca2_P2_28171942	Ca2	28171942	ANNNNNNNNN/ANNNNNN	TTAACGGCAATTTGCA CAC	CGGACACATTGCCTT TATT	59.8	386	INTERGENIC	--	--	--
Ca2_P2_28235432	Ca2	28235432	AATATATATATATATATATA/AATATAT ATATATATATATATATA	TCCAAATAGCGACTTCC CAC	GCTGCATGTTCTTATG CTCG	59.6	849	INTERGENIC	--	--	--
Ca2_P2_28464989	Ca2	28464989	AAAA/AAAAATAAA	TCATCGCAGGTGTACC ATGT	AACATTGCACCGGTTT GATT	60.2	414	INTERGENIC	--	--	--
Ca2_P2_28465098	Ca2	28465098	CAAAAAAAAA/CAAAAAAAAAAAAA	TCATCGCAGGTGTACC ATGT	AACATTGCACCGGTTT GATT	60.2	414	INTERGENIC	--	--	--
Ca2_P2_28465231	Ca2	28465231	CAAAA/CAAAA	TCATCGCAGGTGTACC ATGT	GGTATCAGAGCCACC ATGT	59.8	908	INTERGENIC	--	--	--
Ca2_P2_28465336	Ca2	28465336	AAT/A	AAGAGAGGTCACTTTG GCGA	GCAATCCACAGGTA TGCT	60.0	886	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_28465620	Ca2	28465620	A/AT	AGCTCCATTGCAAAAC ACC	GCAATCCCACAGTA TGCT	60.0	553	INTERGENIC	--	--	--
Ca2_P2_28562582	Ca2	28562582	ATT/ATTGGTGGGAGTCTCTT	GGTGTGGGATATGTT CTGG	GTGACCACTGGTATTC GGCT	60.0	600	INTERGENIC	--	--	--
Ca2_P2_285679	Ca2	285679	AAATAATAATAATAATAATAATA ATAATAATAACTAATAATAATAAT AATAA/AAATAATAATAATAATA ATAATAATAATAATAATAATAAT AATAATAATAATA	AAACGACTCACACCG AAAC	GCCATTGATTCATTTCT TCG	58.2	614	INTERGENIC	--	--	--
Ca2_P2_28569036	Ca2	28569036	TGG/TGGG	TCTCCAAATGATTGGA GGC	GACTGGACGTAACCCA CGTT	59.9	913	INTERGENIC	--	--	--
Ca2_P2_28569281	Ca2	28569281	T/TC	CATCTGTAATGATCGCG CAC	GACTGGACGTAACCCA CGTT	59.9	503	INTERGENIC	--	--	--
Ca2_P2_28573863	Ca2	28573863	AATATATATATATATATAT/AAATATA TATATATATAT	GTAGCACGTTTTTGGG CATT	CAGGATTTAAAGAAATA ATTGGTGC	60.4	707	INTERGENIC	--	--	--
Ca2_P2_28583450	Ca2	28583450	A/AT	GGCTTCGGTGAAGTGG TAAA	TGATTCTGGAGCGACA CAAG	60.0	370	INTERGENIC	--	--	--
Ca2_P2_28595017	Ca2	28595017	TATAATAATAATAATAATAATAA TAATAATAA/TATAATAATAATAATA ATAATAATAATAATAATAATAA	AATAGGCCAGGCCAGA CTTT	ACGGACATGATCAATC ACCA	59.8	912	INTERGENIC	--	--	--
Ca2_P2_28614815	Ca2	28614815	AATATATATATATATA/AAATATATAT ATATATATA	ATTCCACATCCACCAAG GAA	GCAGTGCAGCAACAGA AAAA	60.2	441	INTERGENIC	--	--	--
Ca2_P2_28617666	Ca2	28617666	TTTTATTTATTTATTT/TTTTATTTAT TTATTTATTTATTTATTT	ATCGACTCCGAACCTCA AAA	CCACGGTCTTAGAGC CATT	59.2	621	INTERGENIC	--	--	--
Ca2_P2_28644589	Ca2	28644589	ATTTTTTTTT/ATTTTTTTTTTT	AAATGCCAGAACCATTG TGA	TTTGAAGGAGCAGAAG TCGG	60.5	463	INTERGENIC	--	--	--
Ca2_P2_286502	Ca2	286502	TAAAAAA/TAAAAAA	AATAGGCTGCCACAAG AGGA	TGGACACGACGGTGAA ATAA	60.0	610	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_28723461	Ca2	28723461	GTTTAGGTT/GGTATTAGGTT	GCATGATGCATGTTGA GCTT	GAAAGCGCTGTAAAG GTGC	60.0	811	DRR	Ca_14359	R	--
Ca2_P2_28723746	Ca2	28723746	AAACACACA/AA	AAAAAGCGCTGTTTCATT TCAA	AAAAAGCCTCCACCAA AGGT	60.0	511	DRR	Ca_14359	R	--
Ca2_P2_28765007	Ca2	28765007	TC/T	CTTCATTTTTCAAAGGC GGA	ACCACTTGTGGAACAC CTCA	59.0	398	INTERGENIC	--	--	--
Ca2_P2_28930173	Ca2	28930173	GTTATTATTATTATTATTATTAT TATTATTATTATT/GTTATTATTATTATTA TTATTATTATTATTATT	TGCCTTCAGCTTTTGCT TTT	TGAATGCTGCACATTT GGAT	60.1	685	DRR	Ca_14345	--	--
Ca2_P2_29089904	Ca2	29089904	CTAAATTTTTAAATTTT/CTAAATTTTTT AAATTTTTTAAATTTT	TCATAAATCACCCCTC CTTT	TGGTGAAACAATTCAAA CGC	59.6	644	INTERGENIC	--	--	--
Ca2_P2_29220253	Ca2	29220253	GATATATATATATATATATATA/GATA TATATATATATATATATATATATA	AGGCATGGTGTGGAG TCAT	CTAGTTCGTAACCGT GCGT	60.2	253	INTERGENIC	--	--	--
Ca2_P2_29220546	Ca2	29220546	GATAATAATAATAATAATAATAATAA TAAT/GATAATAATAATAATAATAAAT AATAATAATAAT	CACGTGTCAAACCTTGC CAAT	GTAACCGTTGGAGCAC CACT	60.0	534	INTERGENIC	--	--	--
Ca2_P2_29226326	Ca2	29226326	GC/GCC	AATTAAAGAACGCGG GAAC	AACAACCATGACCAAG AGGC	60.0	917	INTERGENIC	--	--	--
Ca2_P2_29238503	Ca2	29238503	A/AGTT	TGTGGAACACCAACGA ATGT	ACCTCCCGCTAATGTC AATG	60.0	746	DRR	Ca_14317	--	--
Ca2_P2_29238544	Ca2	29238544	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAAA/AAATAA TAATAATAATAATAATAATAATAATA ATAATAA	TGTGGAACACCAACGA ATGT	ACCTCCCGCTAATGTC AATG	60.0	746	DRR	Ca_14317	--	--
Ca2_P2_29239999	Ca2	29239999	AATT/AT	GGCTGCTGATCCTGTT CTTC	CTGACGGACGGACTCA TTTT	60.1	482	INTERGENIC	--	--	--
Ca2_P2_29240150	Ca2	29240150	TC/TCACC	CTTAGAGCATCTCCAAC GGC	GAAGCATCGTTCCTTC CTGA	60.3	134	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_29240273	Ca2	29240273	ATTTTTTTT/ATTTTTTT	CTTAGAGCATCTCCAAG GGC	CAACGGTGAACCAAT ATGGG	60.2	671	INTERGENIC	--	--	--
Ca2_P2_29240382	Ca2	29240382	TCCC/TCC	CTTAGAGCATCTCCAAG GGC	CCTTGCACTATCATTTT CGGA	60.1	803	INTERGENIC	--	--	--
Ca2_P2_29240881	Ca2	29240881	G/GGAC	CCATATTGAGTTCACCG TTGG	TGTCCTTGTCCCTTG CACT	60.7	187	INTERGENIC	--	--	--
Ca2_P2_29252004	Ca2	29252004	GTT/GT	TCAAAGGTGCACTCTTG CTATT	TGGCTCCGGAAGAC TAAA	59.8	502	INTERGENIC	--	--	--
Ca2_P2_29253047	Ca2	29253047	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT T/TTTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATT ATTATT	GACACCCAAATATAGT TCAACGA	CCCGGTATAGGGTCT CACT	60.2	583	INTERGENIC	--	--	--
Ca2_P2_29256743	Ca2	29256743	TTCCACAA/T	TCAGACTCGAGGTCTTT TTCC	CCAAATTTTGAGTTG GGAG	59.5	332	INTERGENIC	--	--	--
Ca2_P2_29257012	Ca2	29257012	TA/T	ACCTTCCCAACAAACCT ACA	AAATAAAAGGGTGGG ATCG	60.0	714	INTERGENIC	--	--	--
Ca2_P2_29270627	Ca2	29270627	TCACAC/TCAC	TGGTTTTCCATTGCA TGTT	AGTATCGTTGCGTGCA CTGT	59.4	513	INTERGENIC	--	--	--
Ca2_P2_29285559	Ca2	29285559	GC/GCC	TCCATCAACAGCAAAAC AGC	AGGACAATCGGAAATC AACG	59.9	211	INTERGENIC	--	--	--
Ca2_P2_29339791	Ca2	29339791	CAAA/CAAAA	CCACAGCCCTACCTGA ACAT	CCCAAGGTATGCAGT GATT	59.8	502	DRR	Ca_25183	TZ	--
Ca2_P2_29417303	Ca2	29417303	TACA/TAACA	CCCAGAAATCGATTAG GCAA	TCAACGTTCTTTTGGT TCA	60.1	522	INTERGENIC	--	--	--
Ca2_P2_29427514	Ca2	29427514	GAAAA/GAAAAA	TTCAAACCCCTTTCTT GTG	TGGAAATCGTTTGTCT TGA	59.3	735	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_29444244	Ca2	29444244	ATTTT/ATTTT	AAATCCGACTGTCTAAC CCG	TTTTCTCTCCAATT GTCCA	59.2	826	INTERGENIC	--	--	--
Ca2_P2_29445927	Ca2	29445927	AACCCGAACCC/AACCCGAACCCACCC GAACCC	TGTCTAACCCGTCTAAC CCG	CCCTACCTAGGGGTGG ACAT	60.1	138	INTERGENIC	--	--	--
Ca2_P2_29482178	Ca2	29482178	CAAAAAAAAAAAAAAAAA/CAAAAAAAAA AAAAAA	AGGACAAAGGCAAGCA AGAA	CAGAACACGGGATCAC AATG	60.0	407	INTERGENIC	--	--	--
Ca2_P2_29483509	Ca2	29483509	CTATATATATATATATATATATA/CTAT ATATATATATATATATATATATA	TCAGGTGACCATTGTAT TTGGA	GGAAATTTGAGGCGTT CAGA	60.2	272	INTERGENIC	--	--	--
Ca2_P2_29511065	Ca2	29511065	AAGAGAGAGAGAGAGAGAGAGAGAGA GAGAGAGA/AAGAGAGAGAGAGAGAGA GAGAGAGAGAGAGAGAGAGAGAGAGA GAGA	GGTTAGGCCACCTGCA CTTA	CTGAGATGCAAAACG CAAA	60.0	623	DRR	Ca_16135	--	--
Ca2_P2_29534597	Ca2	29534597	ATTTTTTT/ATTTTTTT	AGAGTCGCTCCCAAGC ATTA	GGAGTGGTTGACGTTG GATT	59.8	472	INTERGENIC	--	--	--
Ca2_P2_2960458	Ca2	2960458	GAAA/GAA	TATGGGTGGAAGTCAG GGAG	CAAGCACCTTGAAAGC ATGA	60.0	832	INTRON	Ca_10547	O	--
Ca2_P2_29608982	Ca2	29608982	TAAAAAA/TAAAAAA	TTTGCCACAACAAAAC GTG	TGAAATTTCCCTACGAT GCC	59.9	504	INTERGENIC	--	--	--
Ca2_P2_29666169	Ca2	29666169	ATTTTTT/ATTTTTTT	TGATGGATTGATGTTG TTGG	TTTCACCTCAACGCC TAGT	59.7	571	INTERGENIC	--	--	--
Ca2_P2_29677109	Ca2	29677109	ATTTTTT/ATTTTTTT	TGCAACGAGTTAAGTG CCAA	CAAATTTAACGACCAGA TGTGTG	59.4	362	INTERGENIC	--	--	--
Ca2_P2_29739972	Ca2	29739972	GA/GACA	GGGCGCAGTCTTGATA GAAG	TGAGCCTAAGAGTCTG GGGA	59.9	249	INTERGENIC	--	--	--
Ca2_P2_2974815	Ca2	2974815	ATATT/AT	ATCTACGAAGACGTGG TGGG	GGTCCTTTCCAAGTCG TGAA	60.1	237	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_2975267	Ca2	2975267	GAAAAAAAA/GAAAAAAAA	TTCACGACTTGGAAAG GACC	TGATCGCCATTGATTG AGAA	60.2	750	INTERGENIC	--	--	--
Ca2_P2_2977761	Ca2	2977761	A/ACTT	CAACTTGCCAAACAGCT TCA	TGGTGAAGGATAGTA CGACA	59.2	620	INTERGENIC	--	--	--
Ca2_P2_2978014	Ca2	2978014	CTAT/CTATAT	TTGCTGTAATTGTTGCA CATGA	CCTCCCCAACTTGTAAT TTCTG	59.9	542	INTERGENIC	--	--	--
Ca2_P2_2981462	Ca2	2981462	TCACCA/TCACCACCA	CATTGTGTTAAAGAATG ATGGAAGAA	ATTTTAGTGGGCCAT GTGT	59.2	372	INTERGENIC	--	--	--
Ca2_P2_29829940	Ca2	29829940	TT/TTTCGAAAAAAT	CTTTTCGTCGGAGTTTG TCC	TCGTCCTCTGGTTTCT CGT	59.8	476	INTERGENIC	--	--	--
Ca2_P2_2984317	Ca2	2984317	AT/ATT	GCTCACAACAGCAAAAA CCA	TCTCTTTCTTAGACCGG AGCA	59.2	443	INTERGENIC	--	--	--
Ca2_P2_2984359	Ca2	2984359	CTTTTTTTTTTT/CTTTTTTTTTT	GCTCACAACAGCAAAAA CCA	TCTCTTTCTTAGACCGG AGCA	59.2	443	INTERGENIC	--	--	--
Ca2_P2_2984403	Ca2	2984403	GAT/GATATAT	GCTCACAACAGCAAAAA CCA	TCTCTTTCTTAGACCGG AGCA	59.2	443	INTERGENIC	--	--	--
Ca2_P2_2984949	Ca2	2984949	AG/A	TGCTCCGGTCTAAGAA AGAGA	GGGAAATTGTTGAGG GAAT	60.0	786	INTERGENIC	--	--	--
Ca2_P2_2985774	Ca2	2985774	ATGT/AT	GTGAAGCTGTATGGCC CAAT	AGATCTGGTCGGGAA AAGT	59.9	540	INTERGENIC	--	--	--
Ca2_P2_2987297	Ca2	2987297	ATT/ATTGTT	GCCAAATGATTCGGTT GCTA	GCAAATGGAGCTTTGA AACA	58.9	262	INTERGENIC	--	--	--
Ca2_P2_2987500	Ca2	2987500	TAAAAAAAA/TAAAAAAAAA	GCCAAATGATTCGGTT GCTA	GCCGACCATGGAGTAA TTGT	59.8	700	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_2987706	Ca2	2987706	TAAAAAAAA/TAAAAAAAAA	TGTTTCAAAGCTCCATT TGC	GCCGACCATGGAGTAA TTGT	59.8	458	INTERGENIC	--	--	--
Ca2_P2_29887425	Ca2	29887425	AATATATATATATATATATATATA/A ATATATATATATATATATATATATA	TTCGTTTGAAAACCTC AGCAA	TACGACCTACCGAAGC AACA	59.3	708	INTERGENIC	--	--	--
Ca2_P2_29892926	Ca2	29892926	CAAAAAAAAA/CAAAAAAAAA	CAAAAAGGTCATTTTCAG CGA	TTGAATTCGAGAATTG GGC	60.0	689	INTERGENIC	--	--	--
Ca2_P2_2996172	Ca2	2996172	ATTT/ATT	TTCTAAGGACCAACGCA ACA	GTATGATCGATTATGC GCGA	59.7	434	INTERGENIC	--	--	--
Ca2_P2_29962779	Ca2	29962779	G/GC	AGCCAACGGACCACTA ACAC	TTCCGTCATTCTTCTCG TCT	60.0	237	INTERGENIC	--	--	--
Ca2_P2_29962875	Ca2	29962875	CAAGAAGAAGAAGAAGAAGAA/CA AGAAGAAGAAGAAGAA	TGGAAGCCATGATTAG GAGG	TCTCCCATTCGTTGTTG ATG	59.5	182	INTERGENIC	--	--	--
Ca2_P2_29963169	Ca2	29963169	TGG/TGGG	TGGAAGCCATGATTAG GAGG	TGGAATCAGAGAGGGA CGTT	59.7	876	INTERGENIC	--	--	--
Ca2_P2_29996298	Ca2	29996298	CAAAAA/CAAAAAA	CCACGAATCTCTGTG GATG	GCTTTAGTGAGGAGGG GAGA	58.5	681	DRR	Ca_16090	--	--
Ca2_P2_3000644	Ca2	3000644	ATTTTT/ATTTT	TGATTCAATTGTGAAGT TTTAATGTG	GGAGAAACATCACGTT GACC	58.0	949	INTERGENIC	--	--	--
Ca2_P2_3001687	Ca2	3001687	CAAA/CAAAAA	TTCCAATTTTCGGCAAC TTC	GCTGATGAAGGAGAGG AACG	60.0	915	INTERGENIC	--	--	--
Ca2_P2_3003019	Ca2	3003019	GTTTTTT/GTTTTTTTT	AGGCAGACCCAAAAGA CAAA	GAGGGCTAATTAAACT TGACCAAA	59.9	230	INTERGENIC	--	--	--
Ca2_P2_3003272	Ca2	3003272	CTTT/CTT	AGGCAGACCCAAAAGA CAAA	GGAAATGCAGAAGCA AATCA	60.2	696	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30174020	Ca2	30174020	CTT/CTTT	TTATCCCCGCATATTGG ACT	AGTCCTTGGGACCGAA AAGT	60.0	227	INTERGENIC	--	--	--
Ca2_P2_30174230	Ca2	30174230	ATTT/ATTTCTTTTTTTTT	ACTTTTCGGTCCCAAG GACT	AAATTCTGTATGGTGAT GGTTGG	60.0	157	INTERGENIC	--	--	--
Ca2_P2_3022835	Ca2	3022835	TTAA/TTAATAA	CCCGACTCGAAAGTTT CTCA	AAAATTGACACGGCTT CGTC	60.1	544	INTERGENIC	--	--	--
Ca2_P2_3023942	Ca2	3023942	GAAAAAA/GAAAAAA	TGTTGATGTCATCGCCA ACT	CCTCCTGTTATCCTAT GCCA	59.1	513	INTERGENIC	--	--	--
Ca2_P2_30243585	Ca2	30243585	CTT/CT	TTCCTACTCCACATTT TAACGA	GCCTGTATCCAGCCAT TTGT	60.0	467	INTERGENIC	--	--	--
Ca2_P2_3024878	Ca2	3024878	ATTTTTTTT/ATTTTTTTTTT	CTGGTTTTCAAACGCG CTAC	CGGGGTCGGTATTATT TTGA	59.7	799	INTERGENIC	--	--	--
Ca2_P2_3025182	Ca2	3025182	CTATATATATAT/CTATATATATATAT	TCAGCCGACTTAACAAC GAA	CGGGGTCGGTATTATT TTGA	59.7	413	INTERGENIC	--	--	--
Ca2_P2_3025547	Ca2	3025547	GAAAAAAAA/GAAAAAAAA	TCAAATAATACCGACG CCG	AAAAACGAGGCGATGA CAAT	59.6	589	INTERGENIC	--	--	--
Ca2_P2_3028297	Ca2	3028297	TAAAA/TAAAA	TCAGTTAATCCCAACT GCAAA	ATGCACCAAGTCAAC TGAG	59.9	565	INTERGENIC	--	--	--
Ca2_P2_3029449	Ca2	3029449	TTTAATAATTATT/TTTAATAATTATAAT AATTATT	ACCGCTCTATTAAAGG CGAG	TCCATCGCAATTGAATA ATGA	59.0	765	INTERGENIC	--	--	--
Ca2_P2_3030942	Ca2	3030942	CAAGA/C	TTTTCATTTTCTCCCT CCCT	TCCATCGCAATTGAATA ATGA	59.0	592	INTERGENIC	--	--	--
Ca2_P2_3031259	Ca2	3031259	ATTTTT/ATTTTTT	TCAATTGCGATGGATAG AGAAA	AATTGGTGACCGATT GCGT	60.3	647	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_3032104	Ca2	3032104	AT/ATAATT	TTGGATACGCAATCGG TACA	ATGCACTTGCAAGACC TTTT	57.5	440	INTERGENIC	--	--	--
Ca2_P2_3032802	Ca2	3032802	ATT/ATTTCTTTT	AACGCAACAAGCTCCAA AAG	TGCATGACTGAGCATT GGAT	60.2	417	INTERGENIC	--	--	--
Ca2_P2_3033081	Ca2	3033081	TA/TAA	AACGCAACAAGCTCCAA AAG	CGTTAGGCCTTATCCT AGCC	58.0	902	INTERGENIC	--	--	--
Ca2_P2_3033174	Ca2	3033174	CTTTTTT/CTTTTTT	GATCCAATGCTCAGTCA TGC	GCACCATCATTTGACC CTTC	60.3	619	INTERGENIC	--	--	--
Ca2_P2_3033295	Ca2	3033295	CAAAAAAAAA/CAAAAAAAAA	GATCCAATGCTCAGTCA TGC	GCACCATCATTTGACC CTTC	60.3	619	INTERGENIC	--	--	--
Ca2_P2_3033478	Ca2	3033478	CAAAAAAAAA/CAAAAAA	GATCCAATGCTCAGTCA TGC	CCTCCATTCTGGTCA ATGT	59.8	927	INTERGENIC	--	--	--
Ca2_P2_30335425	Ca2	30335425	CTT/CTTT	AAAGGTCGACAAGGTG AACG	GGTTGGCTACAGGGAT CAAA	59.9	696	INTRON	Ca_12519	J	--
Ca2_P2_30341034	Ca2	30341034	TAA/TAAA	TGTCTTATCTGAAGTC AAACTCG	ATTTGGTCAACCAACC AAAA	60.1	537	INTERGENIC	--	--	--
Ca2_P2_30342769	Ca2	30342769	ATTTTTT/ATTTTTTTTT	TGCCTAATTTTGACTTC CCC	TCTCTAATCTGCTACGC ATCCA	60.0	439	INTERGENIC	--	--	--
Ca2_P2_30342844	Ca2	30342844	ATTTT/ATTT	TGCCTAATTTTGACTTC CCC	TCTCTAATCTGCTACGC ATCCA	60.0	439	INTERGENIC	--	--	--
Ca2_P2_30342955	Ca2	30342955	TAAA/TAAAA	TGCCTAATTTTGACTTC CCC	TCTCTAATCTGCTACGC ATCCA	60.0	439	INTERGENIC	--	--	--
Ca2_P2_30343145	Ca2	30343145	TAAA/TAA	TGGATGCGTAGCAGAT TAGAGA	CGTCACTTGGTCACTT GGTG	60.2	581	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca2_P2_30343224	Ca2	30343224	CT/CTT	TGGATGCGTAGCAGAT TAGAGA	CGTCACTTGGTCACTT GGTG	60.2	581	INTERGENIC	--	--	--
Ca2_P2_30343408	Ca2	30343408	TTAATAAA/T	TGGATGCGTAGCAGAT TAGAGA	CGTCACTTGGTCACTT GGTG	60.2	581	INTERGENIC	--	--	--
Ca2_P2_30343585	Ca2	30343585	CACCAAGTGACCAAGTGAC/CACCAAG TGAC	CAATCAATAATTTTGAC GTCGG	CATTTCACGGGGCTCT TAAA	60.1	658	INTERGENIC	--	--	--
Ca2_P2_30344848	Ca2	30344848	TAAAAAAAAAAAAA/TAAAAAAAAA	TTCATACTTGGTTGGG GACC	GGATGATTTCGCCAA CTTA	59.9	408	INTERGENIC	--	--	--
Ca2_P2_30345200	Ca2	30345200	TG/T	TAAGTTGGGCGAAATC ATCC	TGGGGTGGGTGTTTAG AAAA	60.2	524	INTERGENIC	--	--	--
Ca2_P2_30345472	Ca2	30345472	C/CG	TAAGTTGGGCGAAATC ATCC	CCCATTTTGAAGAGTC CGAA	60.0	603	INTERGENIC	--	--	--
Ca2_P2_30346932	Ca2	30346932	A/ACAT	GCGGTATCTTCTGTG TCGT	GGTCCAACCTCGGAAT ACCA	59.8	853	INTRON	Ca_12518	GE	bZIP
Ca2_P2_30347185	Ca2	30347185	A/AC	TCATCAATTGTCGGTGA TGG	AGTTAACAACCGCGAT TTGG	60.0	732	INTRON	Ca_12518	GE	bZIP
Ca2_P2_30347838	Ca2	30347838	T/TG	TGGTATTCCGAAGTTG GACC	CAACAAATGGAAGCT CGGT	60.1	793	INTRON	Ca_12518	GE	bZIP
Ca2_P2_30352008	Ca2	30352008	T/TG	TTTTAACCGAACCGAAC TGG	TAAGAAGCAATTGAAG CGCA	59.7	572	INTERGENIC	--	--	--
Ca2_P2_30355244	Ca2	30355244	CAAAAAAAAA/CAAAAAAAAA	TGTAATTGGGTTCTTT CGC	TCATTGAAGAAATTGCA AATAATAA	57.2	648	DRR	Ca_12517	--	ERF
Ca2_P2_30359195	Ca2	30359195	GC/GCC	TCACAAGGTTCCCTCTC CAG	AATTGGATTTTCCCCC ATC	59.8	171	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30359357	Ca2	30359357	A/ATTC	TCACAAGGTTCCCTCTC CAG	TCCTTCATCTTCAACCA AAACA	59.6	401	INTERGENIC	--	--	--
Ca2_P2_30361475	Ca2	30361475	TATC/TATCGATC	TCCGCTAATAGTGGCA GATAAA	ACCAATTTGTGAAAGCT GGC	60.1	617	INTERGENIC	--	--	--
Ca2_P2_30361673	Ca2	30361673	CAAA/CAA	TCCGCTAATAGTGGCA GATAAA	ACCAATTTGTGAAAGCT GGC	60.1	617	INTERGENIC	--	--	--
Ca2_P2_30362499	Ca2	30362499	CAAA/CAAAA	TCCTTAGACGTTTACGG CCT	CATGCCATTTACCATTT CCC	60.0	502	INTERGENIC	--	--	--
Ca2_P2_3036254	Ca2	3036254	CTAT/CTATAT	TTCGGAGTCGGATAAT GGAC	CACCATATTTCCCCCTC AAA	59.6	555	INTERGENIC	--	--	--
Ca2_P2_30364268	Ca2	30364268	CTTTTGAA/C	GCAGCAAGTTGTGACA AGGA	AAAAATATTGCCACAAG GCG	60.0	575	DRR	Ca_12516	--	--
Ca2_P2_30364332	Ca2	30364332	GAAAAAAAAAAAA/GAAAAAAAAA	GCAGCAAGTTGTGACA AGGA	AAAAATATTGCCACAAG GCG	60.0	575	DRR	Ca_12516	--	--
Ca2_P2_30365777	Ca2	30365777	TTTGTGTT/TTTGT	TGCCATTGTCATTTTGC CTA	GGTGGCAGACCAGAAT TTGT	60.0	278	INTRON	Ca_12515	Q	--
Ca2_P2_30368280	Ca2	30368280	ATTTTT/ATTTTTTT	TAAAATAAACGCGCCA GGT	GCAATTGCAAGCATTG TGTT	59.7	688	DRR	Ca_12515	Q	--
Ca2_P2_30369374	Ca2	30369374	TAAAA/TAAAAA	TGTACTTCTCCGATTC CAAA	TGAATGACGACGACGG TAAA	60.1	632	DRR	Ca_12515	Q	--
Ca2_P2_30369585	Ca2	30369585	TAAAA/TAAA	TTCCCGAACCAAGTTA GTG	TATTAGGAAATCGTG CCGC	60.1	553	INTERGENIC	--	--	--
Ca2_P2_30371355	Ca2	30371355	TAAA/TAAAA	ACCTTGCTGCTTCATT GCT	GAATTGGGTTTCCAAA GGGT	60.0	806	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30373739	Ca2	30373739	TAAAAAAAAA/TAAAAAAAAA	CGGGAATGAAAAGTGG AAGA	CCAGGGGCAAAACAA GTAA	60.0	518	DRR	Ca_12514	S	--
Ca2_P2_30375213	Ca2	30375213	TAAAAAA/TAAAAAA	AATTGAATCAACCCCT TCC	GGTTTGAGCTAATGT CGTGC	59.8	737	DRR	Ca_12514	S	--
Ca2_P2_30375265	Ca2	30375265	CT/C	AACCCCTTCCTTTTGT GTC	TTGATTTTGGGGTGG CTAA	60.3	963	DRR	Ca_12514	S	--
Ca2_P2_30375925	Ca2	30375925	GTTT/GTT	TAGCCACCCCAAAATG AAA	AAGAGGGTGAAAGAAA GGGTG	59.6	288	INTERGENIC	--	--	--
Ca2_P2_30378672	Ca2	30378672	CTTTTTTTTT/CTTTTTTTTT	ATCTTGAGCAGCCAGG TCAT	CTGCCTATATTCTGGC CCAA	60.1	252	DRR	Ca_12513	O	MYB
Ca2_P2_30379917	Ca2	30379917	TTATATATATA/TATATATATATA	AAGCGTGAGGTAGCCA AGTG	TGCTCGCAAGCAAGAA AGTA	59.9	493	INTERGENIC	--	--	--
Ca2_P2_30380142	Ca2	30380142	CTTT/CTTTTT	AAGCGTGAGGTAGCCA AGTG	TGCTCGCAAGCAAGAA AGTA	59.9	493	INTERGENIC	--	--	--
Ca2_P2_3038248	Ca2	3038248	GAAAAAA/GAAAAAA	ACTTGCACTTTGGAGTG CCT	CCCTTGTGCCTTATGG TTTG	60.4	784	INTERGENIC	--	--	--
Ca2_P2_30383976	Ca2	30383976	T/TC	TGGCAAGCCATCACTC ATAA	TTCTCCGATTAAACCGT TTG	59.9	706	INTERGENIC	--	--	--
Ca2_P2_3038524	Ca2	3038524	CA/CATGA	AACCAAAGGATGAATT GAGAGA	CCCTTGTGCCTTATGG TTTG	60.4	269	INTERGENIC	--	--	--
Ca2_P2_30385483	Ca2	30385483	ATTT/ATTTCTTTT	TGATTTGGCCCAACAC CTAT	ACAGAAAATGTCGTCC CTGC	60.1	744	INTERGENIC	--	--	--
Ca2_P2_30385637	Ca2	30385637	TTAATA/TTAATAATA	TTGACGGTCCTTTGTAT TTGC	ACAGAAAATGTCGTCC CTGC	60.1	384	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30387130	Ca2	30387130	ATTTTTTT/ATTTTTTTT	TAACCGCACTGATGCC AATA	CAGCAGCATATGTTGA CACG	58.9	640	DRR	Ca_12512	R	--
Ca2_P2_30387330	Ca2	30387330	TTA/TTATTAATA	TAACCGCACTGATGCC AATA	CACTTGCTGGTCCAAG ATCA	59.8	814	DRR	Ca_12512	R	--
Ca2_P2_30387634	Ca2	30387634	GATCA/GATCATCA	TGGTCCACCACACTAA GCAA	TGCTGTTGAACATCCA GCTC	60.0	649	DRR	Ca_12512	R	--
Ca2_P2_30388874	Ca2	30388874	AT/ATGGGT	TGCCTTCTTCGTCCTCC ATT	CCCAACTGGAAGTCC TTGA	60.1	623	INTRON	Ca_12512	R	--
Ca2_P2_30389928	Ca2	30389928	GAAAAAAAAA/GAAAAAAAAAAAAA	CGACAAGCTGAGCTTTC CTCC	CCACCAACACTTTTCT GCC	60.5	586	INTRON	Ca_12512	R	--
Ca2_P2_30391104	Ca2	30391104	AT/ATT	TTGCATTCTCAAGGCTC AGA	TTTTGGGAGTGCTTGG TTTC	60.1	461	INTRON	Ca_12512	R	--
Ca2_P2_30394924	Ca2	30394924	CATATA/CATATATATA	GAGAGAGGGGCAAGGT CAC	AGGCTTTTGTGTGTGT GGG	60.0	392	INTERGENIC	--	--	--
Ca2_P2_30395203	Ca2	30395203	CATATATATA/CATATATATATA	CCCAACAACAACAAAG CCT	AAACCAGCATGACAAA AGCA	59.3	289	INTERGENIC	--	--	--
Ca2_P2_30395506	Ca2	30395506	TTCGAT/TT	CCCAACAACAACAAAG CCT	CCAAATGAAACAATCGA GGAA	59.9	780	INTERGENIC	--	--	--
Ca2_P2_30395881	Ca2	30395881	AATA/AATATA	TGCTTTTGTCACTGCTG TTT	GCGCGTTCATAAAGTT CGTA	59.0	702	INTERGENIC	--	--	--
Ca2_P2_30400839	Ca2	30400839	ATTT/ATT	TGGTGGTTGTTTGTC GTTA	CCAAAAACCTTTGTGA TGC	60.3	514	INTERGENIC	--	--	--
Ca2_P2_30401762	Ca2	30401762	TAAAAAA/TAAAAAAA	GGTCGAGTTTGCAATG ATGA	TGACCACAAGTTGCCA AAAA	60.1	761	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca2_P2_30408247	Ca2	30408247	AA/AAATATGTTA	TCCCTATTGGCTGAAG GTG	GCTGTCCGAGGTGGT ATGT	60.0	490	INTRON	Ca_12511	--	--
Ca2_P2_30410480	Ca2	30410480	TAGGAG/TAGGAGGAG	CGCAAAACATTTGTTTA TCCTA	TAAGGGGACGTCGAAA GTTG	60.1	884	INTERGENIC	--	--	--
Ca2_P2_30414684	Ca2	30414684	T/TTAA	AACATATTCTGGCAGAC CCAC	ACTTGTGTGTTAAACG GGGC	59.9	611	INTRON	Ca_12510	--	--
Ca2_P2_30415101	Ca2	30415101	CCTCTCTCTCTCTC/CCTCTCTCTCTCTC	GCCCCGTTTAACACACA AGT	TTTACAGCCCCCTGTT TTG	60.0	399	INTRON	Ca_12510	--	--
Ca2_P2_30415294	Ca2	30415294	ATTTTTTTT/ATTTTTTTTT	CAAAACAGGGGGCTGT AAAA	AATCTTCAACGGGTG TTGC	60.0	506	INTRON	Ca_12510	--	--
Ca2_P2_30415621	Ca2	30415621	CTTTTTTTT/CTTTTTTTTT	CAAAACAGGGGGCTGT AAAA	AATCTTCAACGGGTG TTGC	60.0	506	INTRON	Ca_12510	--	--
Ca2_P2_30419368	Ca2	30419368	TTCATCAT/TTCAT	GTTGCAATCATCACCAC ACC	TGAGTGTTCTTGGTGA TTTGG	58.6	568	DRR	Ca_12509	C	M-type
Ca2_P2_3042033	Ca2	3042033	TTTTGTTTGCTT/TTT	TGCCAAATCATGCGTTT TTA	CTCTGATGCGAAGGTT GACA	60.0	100	INTRON	Ca_10543	--	--
Ca2_P2_30423136	Ca2	30423136	CTATATATATATATATATATATA/CTAT ATATATATATATATATATATATATATA	CACCATGGCCTAGCAT TTTC	TCCCCATTGAATCCCA TAA	60.0	303	INTRON	Ca_12509	C	M-type
Ca2_P2_3042791	Ca2	3042791	G/GT	GCAAAGGGGAGGTATG TTGA	ACCGCAGAGAAAGCTG AAAA	60.1	415	INTRON	Ca_10543	--	--
Ca2_P2_30433045	Ca2	30433045	AT/A	ATGAATCAAACGAACAC CGA	TTACAGTTAAGGGCCA ACCG	60.0	778	INTERGENIC	--	--	--
Ca2_P2_30433778	Ca2	30433778	TA/TAA	CGGTTGGCCCTTAAC GTAA	TCCTCAAACCAAAATG GTC	59.8	674	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30434159	Ca2	30434159	AATTAATTATATTAATTATTAAT/AATT AATTATATTAAT	TATCCCAAACGCAAGTC ACA	TGGTCTTGACAATCTTG CACA	60.3	909	INTERGENIC	--	--	--
Ca2_P2_30439226	Ca2	30439226	GTAATT/GT	CGAGAGATCAAACTGT CGAA	ATGGAGAATTCAGCCC AACA	60.5	664	INTERGENIC	--	--	--
Ca2_P2_30439297	Ca2	30439297	AGGG/AG	CCAAGTTCAACTCAT ATGCC	ATGGAGAATTCAGCCC AACA	60.5	406	INTERGENIC	--	--	--
Ca2_P2_3044354	Ca2	3044354	AT/A	TTGACGACTTGC GTTG AAG	GGGACCATGAAACAA TCCA	60.6	874	INTRON	Ca_10543	--	--
Ca2_P2_30445916	Ca2	30445916	TAAAAA/TAAAAA	CAAAATATATCGATCG CAACAA	AATTGAAAGCTGCATT GGCT	59.9	406	INTERGENIC	--	--	--
Ca2_P2_30447321	Ca2	30447321	TAAAAA/TAAAAA	CTTTGTCTTCTCGGCC TTG	AGCTTTCCAACCCCTTT TGT	60.0	155	INTERGENIC	--	--	--
Ca2_P2_30447611	Ca2	30447611	A/AT	CTTTGTCTTCTCGGCC TTG	CGTGCTCATCTCCATT GTTG	60.3	891	INTERGENIC	--	--	--
Ca2_P2_30447804	Ca2	30447804	TTG/TTGTG	AACAAAAGGGTTGGA AAGC	ATCTCCTCAGCATTGTC GCT	60.0	809	INTERGENIC	--	--	--
Ca2_P2_30449164	Ca2	30449164	TAAAAA/TAAAAA	TGTTGCAAGAGAAAGA ACTTCA	TGACGGTGGCAATCGA TATT	61.3	557	DRR	Ca_12507	--	--
Ca2_P2_30456719	Ca2	30456719	TAAAAA/TAAAAA	TTCCTGATTCCGATCTC ACC	CATACCTGGGGATGC AAAG	60.3	601	DRR	Ca_12504	--	WOX
Ca2_P2_30457303	Ca2	30457303	A/AT	TGCATCCCCAAGGTAT GACT	CCACCATTAGATTGTC GGTT	59.8	649	DRR	Ca_12504	--	WOX
Ca2_P2_30457888	Ca2	30457888	GAAAAA/GAAAAA	CATCTCACCAAGTCCTG CAA	CGTGAAAGTGT TTTGG AATCAA	60.0	180	INTRON	Ca_12504	--	WOX

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30461396	Ca2	30461396	CTTTTTT/CTTTTTTTT	AAAAGAAGTGGTTGC CGC	AAAACGATGCTTATCC GTGAA	59.6	929	INTERGENIC	--	--	--
Ca2_P2_30461477	Ca2	30461477	A/AC	CGTTTACAAATAATG AACACATCG	AAAACGATGCTTATCC GTGAA	59.6	407	INTERGENIC	--	--	--
Ca2_P2_30462203	Ca2	30462203	GTTTT/GTTTT	TTCACGGATAAGCATC GTTTT	GGATAACCGCAGCTT TTTA	60.1	478	INTERGENIC	--	--	--
Ca2_P2_30464291	Ca2	30464291	CA/CAA	CCACCTCCCAACAAAC ACT	GGGTGCATGGCTTCTA CATT	60.0	792	INTERGENIC	--	--	--
Ca2_P2_30465481	Ca2	30465481	TAAAAA/TAAAA	ACAGTCAACATTCCGT CCA	GCAGTCAACGCGAC AATA	59.9	918	DRR	Ca_12503	J	--
Ca2_P2_3047152	Ca2	3047152	CTTT/CTTTT	TGAAATTTAACGGCCT TCA	GTGAAAAACTGGACC CTCA	59.9	643	INTRON	Ca_10543	--	--
Ca2_P2_3047767	Ca2	3047767	TGG/TGGG	TGAGGTCCAGTTTTTC CAC	AACCAAGTTGCCCAA AAA	60.3	266	DRR	Ca_10543	--	--
Ca2_P2_30480817	Ca2	30480817	TAAA/TAAAA	CTGCGTCCATTCAAG AAT	ATGTGTCTTTGGGAGC CAAC	60.0	880	INTRON	Ca_12502	G	--
Ca2_P2_30481523	Ca2	30481523	TTTAAAAAT/TTTAAAAATATGTAAA AAAT	GTTGGCTCCCAAGAC ACAT	TCGATTTTCATTAAAGT GTTGGA	58.7	631	INTERGENIC	--	--	--
Ca2_P2_30481983	Ca2	30481983	ATATTATTT/ATATTATTTAAATTATTAT T	TCAATGCATGGAATA ATCTCT	TGGTCCTCATCCATCA AACA	59.9	401	INTERGENIC	--	--	--
Ca2_P2_30484697	Ca2	30484697	TGTAGTA/TGTA	ACATGAGACGTCAT GCAA	CGAAAAATCAAAATAAC ATCGC	58.7	386	INTERGENIC	--	--	--
Ca2_P2_30484794	Ca2	30484794	ATTTTTT/ATTTTTTTTT	ACATGAGACGTCAT GCAA	CGAAAAATCAAAATAAC ATCGC	58.7	386	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30487680	Ca2	30487680	TCGAAAAGG/T	CGGTCTCCCAATTTT GTT	AAATTTTGGTGGCGAC TTCA	60.5	451	INTERGENIC	--	--	--
Ca2_P2_30489361	Ca2	30489361	TTAT/TT	TGCAAGTTTGATGGA GTGC	TAGAACCCCAATTTGT CCG	59.8	363	INTERGENIC	--	--	--
Ca2_P2_30489892	Ca2	30489892	GTTTTTTTTTTT/GTTTTTTT	CGGACAAAATTGGGT TCTA	CCCAATGCAATTTTC CAA	60.7	558	INTERGENIC	--	--	--
Ca2_P2_30490349	Ca2	30490349	T/TTA	GGAAAAATGCATTGG GAA	GTTGGCTTACACATTG GGCT	60.0	578	INTERGENIC	--	--	--
Ca2_P2_30490798	Ca2	30490798	AA/AACA	AGCCCAATGTGTAAGC CAAC	AAGCTTTTGCAATGG GAGA	59.8	410	INTERGENIC	--	--	--
Ca2_P2_30494831	Ca2	30494831	GAAAAAAAA/GAAAAAAAAA	TGAGAACGCCCATGTC AATA	TCTCTGGCAACGGTC TTCT	60.0	404	INTERGENIC	--	--	--
Ca2_P2_30504150	Ca2	30504150	TG/T	TGCGATTGCGGCTAATT ACT	GGTGAGACTTTGATCG GATTG	59.5	625	INTERGENIC	--	--	--
Ca2_P2_30505914	Ca2	30505914	ATTTTTTTTT/ATTTTTTTTTT	TTTAACGCTTCTCGCGT TTT	CGTGCTCCATAGTTCC CAAC	60.5	730	INTRON	Ca_12501	GMW	--
Ca2_P2_30510478	Ca2	30510478	TAAA/TAAA	ACTCCCTTGTAAAGT GCT	ATTGACAAAGCGTGTG CAAG	59.9	524	DRR	Ca_12501	GMW	--
Ca2_P2_3051243	Ca2	3051243	ATT/AT	TTTACGACTCGGTTTTC CCA	CCGATTTTGATTTTCTC GGA	60.0	363	INTERGENIC	--	--	--
Ca2_P2_30514265	Ca2	30514265	AAGA/AA	CACCAATCACCCACAA TCA	ATGGGCTGGTATATCA TGCG	59.5	972	INTERGENIC	--	--	--
Ca2_P2_30514306	Ca2	30514306	ATTTTTTTTT/ATTTTTTTT	TGTGAAGTGAATGCTTC CAA	AACTTTCAAATGCATG GGC	59.9	598	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30521356	Ca2	30521356	TTC/TTCGCTC	TAACAATTCCTCCGCC AAG	GCAGCCGTCTATGCTA TTCA	59.0	361	INTERGENIC	--	--	--
Ca2_P2_30522267	Ca2	30522267	AATTAT/AAT	GAACAGTGGCAATTCAT CCA	TTTTGGTGCCAAATTCT TCTC	59.2	556	INTERGENIC	--	--	--
Ca2_P2_30523404	Ca2	30523404	AAGTTTAGTTT/AAGTTTAGTTTAGTTT	TCATCGTTTGCAAGGTT TTG	CGGAAGAGGCTACTGG AGAG	59.2	794	INTERGENIC	--	--	--
Ca2_P2_30524430	Ca2	30524430	GCGAG/GCGAGCGAG	TGGAACGATCCAATGAA ACA	AAGCCCAAGCAGCAT CTAA	60.0	632	INTERGENIC	--	--	--
Ca2_P2_30526615	Ca2	30526615	TTATATATATA/TTATATATA	GCTGAATTTTGTAAAA ACTACCACA	AATTCCGACCGACCTA ATCC	60.2	712	INTERGENIC	--	--	--
Ca2_P2_30527100	Ca2	30527100	TAAAAAAAA/TAAAAAAAA	CTCGTGAAGGATTAGG TCGG	TTGCAACGCATCTCAAT CTC	60.0	353	INTERGENIC	--	--	--
Ca2_P2_30527508	Ca2	30527508	TAAAAAAAA/TAAAAAAAA	TTGAGATGCGTTGCAAT AGG	CGTGCCACTTCTTCCT TTC	59.9	681	INTERGENIC	--	--	--
Ca2_P2_30537225	Ca2	30537225	TAAAA/TAAAA	GTACAACGATAGATGC CGCC	GTAGCTGCAGTTGCTA CCCC	59.9	512	DRR	Ca_12497	J	--
Ca2_P2_30550219	Ca2	30550219	TCC/TC	TTTCTTATTCTCGGTG GCG	TGCATTGATCAAGCT CAAC	60.0	640	INTERGENIC	--	--	--
Ca2_P2_30550405	Ca2	30550405	CTATATA/CTATA	TTTCTTATTCTCGGTG GCG	TGCATTGATCAAGCT CAAC	60.0	640	INTERGENIC	--	--	--
Ca2_P2_30551575	Ca2	30551575	ATCTC/ATC	GTGTGTGCTCTGCCCC TAGT	TTTCCAGGAAGATTCC AACG	60.0	806	INTERGENIC	--	--	--
Ca2_P2_30553379	Ca2	30553379	GAAAA/GAAAA	TTTTTATGAGGCGTGGA AGG	CCATGAACACGCCAAA CATA	60.4	874	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30555764	Ca2	30555764	AAG/AAGACACGTGTAG	AAAACATAACCTTTTGC CCG	TCACTCCAAGCTTCCC AAAT	59.7	257	INTERGENIC	--	--	--
Ca2_P2_30558242	Ca2	30558242	CTATATAT/CTATATATAT	TGAAGAAGCAAAATGAA TGGG	TGATTGCCTCGACATT GCTA	60.4	823	INTERGENIC	--	--	--
Ca2_P2_30558299	Ca2	30558299	TAAAAAAAA/TAAAAAAAAA	TGAAGAAGCAAAATGAA TGGG	TGATTGCCTCGACATT GCTA	60.4	823	INTERGENIC	--	--	--
Ca2_P2_30558600	Ca2	30558600	CTAT/CTATATAT	GATGCATACAAAATGCA CCCC	GGATTGATGAAGTGGT TGGG	60.2	254	INTERGENIC	--	--	--
Ca2_P2_30565181	Ca2	30565181	CTTTTT/CTTTTTT	TGGTCCCCTCAACCAC TAAG	TGTCTCTGTTTGGTTG CAAAA	59.4	708	INTERGENIC	--	--	--
Ca2_P2_30565683	Ca2	30565683	GAAAAAAAA/GAAAAAAAA	TGCAACCAACAGAGA CAAAA	CCGAATGTTACAACCA ATTCTC	59.8	376	INTERGENIC	--	--	--
Ca2_P2_30567133	Ca2	30567133	TAAAAAAAA/TAAAAA	AAATTACCGCAACAATT GGC	GAAGCGCAACTAAACC AAGC	60.0	539	INTERGENIC	--	--	--
Ca2_P2_30568142	Ca2	30568142	AT/ATGT	CTTGTTTGTGCGAGTC GCTA	GGTCATACCAAGGCCA AGAA	59.9	453	INTRON	Ca_12495	E	--
Ca2_P2_30569147	Ca2	30569147	TCCCC/TCCCC	GAAATGTGGTCACTC GGG	CCGTCCAATTTCTCTT GGA	60.0	875	INTRON	Ca_12495	E	--
Ca2_P2_30573602	Ca2	30573602	CGGG/CGGGG	TGGCTCATGACCCCTTT ATC	GGCCCCTTTTCATTTTC ATT	60.1	709	DRR	Ca_12495	E	--
Ca2_P2_30574328	Ca2	30574328	TAAAA/TAAAAA	CCATTGAGGAGTGGAG AACTTT	CTTGTTGTGCCAAT GCAA	60.6	783	INTERGENIC	--	--	--
Ca2_P2_30575054	Ca2	30575054	AT/A	TGCAGCAACAATTATCC AGC	GACACACACCTCGTTT GCAT	59.6	858	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30575439	Ca2	30575439	ATCT/ATCTCT	GTTGATTATGTTTG GCG	ATCCAAAGCAGCATCC ATTC	60.0	862	INTERGENIC	--	--	--
Ca2_P2_30580411	Ca2	30580411	TAAAAAAA/TAAAAAAA	ACATGCATCAACAACG GAAA	TGCATTTTGAGGTTTCA CCA	60.1	408	INTRON	Ca_12493	--	--
Ca2_P2_30593141	Ca2	30593141	CTAT/CTATAT	TTCCTTGGCTAAGACG GATG	GAACACGTGGTTTGAT TTTTGA	59.9	389	INTERGENIC	--	--	--
Ca2_P2_30622722	Ca2	30622722	A/ACCGTAATCC	CTTGGTCAGAATCAGC GAGC	CACGTTGACCCTTTTG TCA	59.6	380	INTRON	Ca_12490	R	--
Ca2_P2_30623473	Ca2	30623473	TAAA/TGAAAAA	TGACAAAAAGGGTCAA CGTG	CCGCAATCAATTTAGC GAAT	60.1	686	INTERGENIC	--	--	--
Ca2_P2_30623593	Ca2	30623593	TTATGTTTTAT/TTATGTTTTATATGTTTT AT	AGTAGAGCCCGACAAG ATGC	CCGCAATCAATTTAGC GAAT	60.1	483	INTERGENIC	--	--	--
Ca2_P2_30624454	Ca2	30624454	C/CT	TCATGAATGCAACGTG GTTT	TTTTGCTGTTGTTTTA CGTCAT	58.8	646	INTERGENIC	--	--	--
Ca2_P2_30624742	Ca2	30624742	GTTTTTT/GTTTTTTT	TTGCTTGCAACAAAA CTTC	TGAACATTATCACAA AAAGAG	59.1	837	INTERGENIC	--	--	--
Ca2_P2_30624786	Ca2	30624786	ATAATTAAT/ATAATTAATTAAT	TGAACGTATAAGTGCGT CAAAAA	TGAACATTATCACAA AAAGAG	59.1	701	INTERGENIC	--	--	--
Ca2_P2_30626028	Ca2	30626028	AC/A	TTGTCAATTTGATCATT GATTCG	GGTGGTTTGTAACAAC AGCAAA	59.9	515	INTERGENIC	--	--	--
Ca2_P2_30630152	Ca2	30630152	A/AG	CCAAAACTAGGGAGA AGAGCA	TGAAATCGAGACTTTAC GGTTG	59.3	763	INTERGENIC	--	--	--
Ca2_P2_30630331	Ca2	30630331	GTTTATTTATTTAT/GTTTATTTATTTAT TAT	TGCGTGATCATTTTCA ACTCA	GGAGATCCAATAGATG GCGA	60.0	841	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30632787	Ca2	30632787	TAAAAA/TAAAAAA	CCAACAATGCTCACACA TCC	ATCTTGCAACCACCA CACC	60.8	783	INTERGENIC	--	--	--
Ca2_P2_30639636	Ca2	30639636	AG/A	TTCATCCAACCTTGC AAGT	TCTCAAACTCGTCCTCA CCC	60.2	882	INTERGENIC	--	--	--
Ca2_P2_30641972	Ca2	30641972	GTATA/GTA	TGGGAGAGAAAAAGATG TTGGA	AAAATTGTCGGCAACT GCAC	61.1	774	INTERGENIC	--	--	--
Ca2_P2_30642500	Ca2	30642500	GAAAAA/GAAAAA	TGCAGTTGCCGACAATT TTAT	TCCTCGGTAACCAAC AAGC	60.1	128	INTERGENIC	--	--	--
Ca2_P2_30645883	Ca2	30645883	TAAAAA/TAAAAA	TGCTGGGTTGATGGAT GTAA	TGCATGCATGGATCCC TAA	61.0	816	INTERGENIC	--	--	--
Ca2_P2_30647034	Ca2	30647034	CAT/CATAT	TTGACGTACCAACCAT TGA	CCCTCACTTAAGCCCA CAAA	60.1	443	INTERGENIC	--	--	--
Ca2_P2_30652935	Ca2	30652935	TAA/TA	TTTCTTCAATCTTAATG GTTTTTGG	CATTGACCAAGGAAA GTTCA	60.1	432	INTERGENIC	--	--	--
Ca2_P2_30664626	Ca2	30664626	GTTTTTT/GTTTTTTT	AAAGTGACAACCCAGAA CCG	CTAAACCCGAACCAT GAGA	59.9	728	INTRON	Ca_12489	QI	bHLH
Ca2_P2_30664649	Ca2	30664649	CTTTTTTT/CTTTTTTTT	AAAGTGACAACCCAGAA CCG	CTAAACCCGAACCAT GAGA	59.9	728	INTRON	Ca_12489	QI	bHLH
Ca2_P2_30665443	Ca2	30665443	ATTTTTTT/ATTTTTTT	TCATGGTGACCGTAA TCTG	CTACTGCCTTGGATC CTTTT	57.5	403	INTRON	Ca_12489	QI	bHLH
Ca2_P2_30665911	Ca2	30665911	ATTTTTTT/ATTTTTTTT	AAAAGGAATCCAAGC AGTAG	TCCATTACCATCATACG CCA	59.8	788	INTRON	Ca_12489	QI	bHLH
Ca2_P2_30668742	Ca2	30668742	TAAAAA/TAAAAA	TGTGGTGTGGTCTCCT TTCA	TATTTCAAATTTCCGCC GAC	59.9	197	INTRON	Ca_12489	QI	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30670677	Ca2	30670677	CTATATAT/CTAT	CCGTGTTTCTTCACCGT TTT	TCTTTGGCACCTCATT TTC	60.1	435	DRR	Ca_12489	QI	bHLH
Ca2_P2_30671540	Ca2	30671540	TAAAAA/TAAAAA	TTCGATTGATGGTTAAG AGACA	ATAACGTGTTGGATCA GCCC	59.8	697	DRR	Ca_12489	QI	bHLH
Ca2_P2_30672058	Ca2	30672058	ATTTT/ATT	GGGCTGATCCAACACG TTAT	CCATGGGAAACGTTGG TAAC	60.1	396	DRR	Ca_12489	QI	bHLH
Ca2_P2_30672151	Ca2	30672151	TGGGG/TGGG	GGGCTGATCCAACACG TTAT	CCATGGGAAACGTTGG TAAC	60.1	396	DRR	Ca_12489	QI	bHLH
Ca2_P2_30675995	Ca2	30675995	A/AC	TTAAGTGGGTGCGCT TTTT	AAGAACTGGACGTTG GTGG	60.0	536	INTERGENIC	--	--	--
Ca2_P2_30676386	Ca2	30676386	GAAAAAAAAA/GAAAAAAAAA	ATCCACCAACGTCCAA GTTC	CCTTGGTATGACCCTA ATTCCTT	59.6	532	INTERGENIC	--	--	--
Ca2_P2_30676782	Ca2	30676782	ACTAGC/ACTAGCTAGC	GCTCCAGCAAAATAGA AATGG	TCATCAATCAAACACT TACGCAGA	60.2	504	INTERGENIC	--	--	--
Ca2_P2_30678202	Ca2	30678202	TA/T	AGCTAATTGTGGCGA AAAA	TGGAAAAGGTTTGGG TTTG	59.8	922	INTERGENIC	--	--	--
Ca2_P2_30678362	Ca2	30678362	TTC/T	AGCATGGAGAGAGGGG AAGT	TGGAAAAGGTTTGGG TTTG	59.8	433	INTERGENIC	--	--	--
Ca2_P2_30678630	Ca2	30678630	CTTTT/CTTT	AGCATGGAGAGAGGGG AAGT	CTCACGCATCTCCAAA CTCA	60.0	782	INTERGENIC	--	--	--
Ca2_P2_30678822	Ca2	30678822	ATT/ATTTTT	CAAAACCAAAACCTTTT CCA	CTCACGCATCTCCAAA CTCA	60.0	369	INTERGENIC	--	--	--
Ca2_P2_30690091	Ca2	30690091	CT/CTTT	GCGGTGTTTGTGGG TAGT	GGAGCACACAGATGCG AATA	59.8	335	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca2_P2_30690274	Ca2	30690274	A/AT	TTAGGGGAACGTGAA TTGG	CGGTCATACTGCACAC ACAA	59.2	444	INTERGENIC	--	--	--
Ca2_P2_30690304	Ca2	30690304	ACC/AC	GCGGTGTTTGTGGG TAGT	TGTACATTCAAATCAA CAAAATTCA	59.7	825	INTERGENIC	--	--	--
Ca2_P2_30690585	Ca2	30690585	AAATAATAATAATAAA/AAATAATAAT AATAATAATAATAATAA	TATTCGCATCTGTGTGC TCC	CGTGGTTGAGTAGATG TGCC	59.2	670	INTERGENIC	--	--	--
Ca2_P2_30690967	Ca2	30690967	CAAAAAAAAA/CAAAAAAAAA	GGCACATCTACTCAACC ACG	GGAATTGTGTGATAAAT TGCTTGA	60.2	580	INTERGENIC	--	--	--
Ca2_P2_30694795	Ca2	30694795	TTATATATATATATATATATAT/TTA TATATATATATATAT	CACGTGTCAAACCTGC CAAT	CACCTGCCTTGACCATT GACT	60.2	984	DRR	Ca_12487	KLB	YABBY
Ca2_P2_30695617	Ca2	30695617	CTTTTTTTTT/CTTTTTTTTTT	CCCATGCATATCAGTT TTG	ACGCAGGGCCATGATA CTAC	60.0	361	DRR	Ca_12487	KLB	YABBY
Ca2_P2_30700575	Ca2	30700575	CAAGTAAG/CAAG	CGCTAAAGGCACCTCA AAAG	GCAGCTTTCTGTTAGT GGGC	60.0	583	INTRON	Ca_12487	KLB	YABBY
Ca2_P2_30700832	Ca2	30700832	ATCCAAGTCCAAGTC/ATCCAAGTC	GCCCACTAACAGAAAG CTGC	GCAGAATCCAGGGCAG ATAA	60.2	460	INTRON	Ca_12487	KLB	YABBY
Ca2_P2_30701503	Ca2	30701503	T/TAATC	TTATCTGCCCTGGATTC TGC	TTGGAAGAGGCCAAAT ATGC	60.0	753	INTRON	Ca_12487	KLB	YABBY
Ca2_P2_30701983	Ca2	30701983	TCCC/TCC	GCATATTTGCCCTCTC CAA	TGACCCTTGCCAAAGA AATC	60.1	223	CDS (FRAME SHIFT)	Ca_12487	KLB	YABBY
Ca2_P2_30702625	Ca2	30702625	GAAAAA/GAAAAAA	CTTCGCCATCAATGAC AC	AATCTCTTCAATCCCC GTT	59.8	566	INTRON	Ca_12487	KLB	YABBY
Ca2_P2_30702934	Ca2	30702934	ATTTTTTTTT/ATTTTTTTTT	AACGGGGGATTGAAGA GATT	GCAAATTCTGCGGGTG TTAT	60.0	508	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30702988	Ca2	30702988	TT/TTTTAT	AACGGGGGATTGAAGA GATT	GCAAATTCTGCGGGT TTAT	60.0	508	INTERGENIC	--	--	--
Ca2_P2_30703095	Ca2	30703095	TT/TTATAAACT	AACGGGGGATTGAAGA GATT	CGCATACATACGGTGA TTGC	60.0	882	INTERGENIC	--	--	--
Ca2_P2_30703181	Ca2	30703181	TAAAAAA/TAAAAAA	AACGGGGGATTGAAGA GATT	CGCATACATACGGTGA TTGC	60.0	882	INTERGENIC	--	--	--
Ca2_P2_30704814	Ca2	30704814	CAA/CAAA	AAATTCAGTGCAACGCA CAT	CCCACTTTGGATAACAA TTCC	58.3	445	INTERGENIC	--	--	--
Ca2_P2_30705130	Ca2	30705130	CTTTTTTT/CTTTTTT	GCAATTCAGTACACAA CGTGC	CAAGAAAGGAAAATGT GGCA	58.7	239	INTERGENIC	--	--	--
Ca2_P2_30710524	Ca2	30710524	ATCTCTCTCTCT/ATCTCTCTCTCT	GGACCATAAAGTTGGC AAGG	TCATCGCCACATGCAG TATT	60.1	767	DRR	Ca_12486	T	--
Ca2_P2_30710563	Ca2	30710563	TA/T	GGACCATAAAGTTGGC AAGG	TCATCGCCACATGCAG TATT	60.1	767	DRR	Ca_12486	T	--
Ca2_P2_30719829	Ca2	30719829	A/AT	CAACGGACAAGAAAATC TCACA	TCACAAATTAACGGCC ACAA	60.0	804	INTERGENIC	--	--	--
Ca2_P2_30720315	Ca2	30720315	TATTA/T	TTGTGGCCGTTAATTG TGA	GTTGATGTTATCAAATA AACAATTTCA	57.7	344	INTERGENIC	--	--	--
Ca2_P2_30720521	Ca2	30720521	CAAAAAA/CAAAAAA	TTGTGGCCGTTAATTG TGA	CGAGTTTCTTTTCCCG TCA	60.2	787	INTERGENIC	--	--	--
Ca2_P2_30720601	Ca2	30720601	TAAAAA/TAAAAAA	TTGTGGCCGTTAATTG TGA	TTGTTGGGATGCGGT TAAA	60.0	917	INTERGENIC	--	--	--
Ca2_P2_30730862	Ca2	30730862	TAAAAATATAATGAGTAAAAAATATA ATGAGTAAAAAATATA/TAAAAAATATA ATGAGTAAAAAATATA	ATGGGCATGAAAGAAA ATGG	TAGAGCTGTCAAAACG GGCT	60.0	335	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30731584	Ca2	30731584	C/CG	TATACTCATGCTTGCGG TGC	CCCACCATTGGGATAC ACTC	60.1	758	INTERGENIC	--	--	--
Ca2_P2_30732861	Ca2	30732861	A/AG	TCACAGAAGGGGTTTT GGTC	AAAATTGTGAACGGAG ACCG	60.0	394	INTRON	Ca_12484	T	RAV
Ca2_P2_30737308	Ca2	30737308	TAAAAAAAA/TAAAAAAAAA	TTTGGCCATGGTCTTGG ATT	TCAAGAAAATTGCCAAC CCT	59.5	618	DRR	Ca_12484	T	RAV
Ca2_P2_30737463	Ca2	30737463	TAAAAA/TAAAAA	TTTGGCCATGGTCTTGG ATT	TGGGCCCTCATGATAT TGAT	60.1	720	DRR	Ca_12484	T	RAV
Ca2_P2_30766209	Ca2	30766209	CAAAAAAAAA/CAAAAAAAAA	TGTCGTGCGAGAAAA TGAG	GTTGCTTTCGGATAGC TTGC	60.0	770	DRR	Ca_12479	K	ERF
Ca2_P2_30773455	Ca2	30773455	GAAAAAAAA/GAAAAAAAA	TGACTCCATCCACTTAT CCCA	CCCATGAGTTTATGTTG GGG	60.0	158	INTERGENIC	--	--	--
Ca2_P2_30774109	Ca2	30774109	CT/CTT	TCGATCAATTGGCATAA CCA	TCATCAACGCAAACT GACTG	59.9	310	INTERGENIC	--	--	--
Ca2_P2_30776002	Ca2	30776002	CATAAGTATAAGTAT/CATAAGTATAAGT ATAAGTAT	GACTCAAAGCCACTAA GGCAA	CTTTTGGTGACAAAC ACTCT	57.9	131	INTERGENIC	--	--	--
Ca2_P2_30778514	Ca2	30778514	AG/A	AAATTGGTGCATGTGTG ATTG	CTTGAATTCGCTTCTT GGG	59.8	767	INTERGENIC	--	--	--
Ca2_P2_30783813	Ca2	30783813	CTTTTTTT/CTTTTTTT	AAGGACATGGTACCAC CAGC	TGTGAACATGCCGAT TAACTGA	59.7	710	INTERGENIC	--	--	--
Ca2_P2_30788694	Ca2	30788694	TTTTATTATTATT/TTTTATTATTATT TTATT	TCTATCCTCACCACTC AAGC	TGCATGTCAAGTTGGA TTCAT	59.0	774	INTERGENIC	--	--	--
Ca2_P2_30790808	Ca2	30790808	GAAAAAAAA/GAAAAAAAA	CACTCAGGGGATGAAT GTACG	CGAAGTTTGACATGA GCTG	59.4	480	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30794649	Ca2	30794649	TAAAAAAAA/TAAAAAAAA	TGATTCTCGACTGAAA CATGAG	TTGCATTCTACTGGAG ACGTT	60.7	641	INTERGENIC	--	--	--
Ca2_P2_30795227	Ca2	30795227	TTTATTATTA/TTTATTATTATTA	ACGTCTCCAGTGAAAT GCAA	AGCCTTGATGTTGTTT GCG	59.9	506	INTERGENIC	--	--	--
Ca2_P2_30795438	Ca2	30795438	TAAA/TAA	GCAAACAACATCAAGG CTCA	TGAAAATAGTTTTGGT CCCTG	58.2	558	INTERGENIC	--	--	--
Ca2_P2_30795526	Ca2	30795526	TTAATATAATAT/TTAATAT	GCAAACAACATCAAGG CTCA	TGAAAATAGTTTTGGT CCCTG	58.2	558	INTERGENIC	--	--	--
Ca2_P2_30795679	Ca2	30795679	GAAAAA/GAAAAA	GCAAACAACATCAAGG CTCA	TGAAAATAGTTTTGGT CCCTG	58.2	558	INTERGENIC	--	--	--
Ca2_P2_30795952	Ca2	30795952	CAAAAAAA/CAAAAAAA	CAGGGACCAAAACTAT TTTCA	CCAAGCCCATTTGGAC TCTA	60.1	522	INTERGENIC	--	--	--
Ca2_P2_30796973	Ca2	30796973	CAAA/CAAAA	CGTGTCCCTGATATTTT GCC	GGGACAGTTTGTGTTG TGCC	60.4	108	INTERGENIC	--	--	--
Ca2_P2_30799488	Ca2	30799488	TATAAT/TAT	TCGATTTACCCAGGAG CATC	TGAATTGGAAGGATTG AGCA	59.2	561	DRR	Ca_12478	R	MYB
Ca2_P2_30799752	Ca2	30799752	T/TGAC	CCATGAAGTTGAAGGC AAGA	TCTCTGGTGGGAAGGT TCAG	60.2	556	DRR	Ca_12478	R	MYB
Ca2_P2_30803822	Ca2	30803822	TAAAAAAAAA/TAAAAAAAAA	CGGATTCCGTATGGATT GAT	GGTTCATCAAATCTCG TGTTTC	59.9	723	INTRON	Ca_12478	R	MYB
Ca2_P2_30804787	Ca2	30804787	GAGAGAGAGA/GAGAGAGAGAAAGAGA GAGA	TGCTGAATTGGATAGA GGGG	AGACAGAGACATTGTT TGGCTT	58.0	247	INTERGENIC	--	--	--
Ca2_P2_30805135	Ca2	30805135	CATTAATTA/CATTA	CCTCATGGTGTGTGATT TGC	GCGAAAGCAAAATAGA GTGGA	59.5	880	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30805765	Ca2	30805765	TAAAAAAAA/TAAAAAAAAA	TCCACTCTATTTGCTT TCGC	TCTTTGACCCACCAA AAC	59.8	667	INTERGENIC	--	--	--
Ca2_P2_30808989	Ca2	30808989	ATTTTT/ATTTTT	TTCTGAATCAGTGCCCT TCC	TGGGTAGGAGAGCCTC ATGT	59.7	392	INTERGENIC	--	--	--
Ca2_P2_30809026	Ca2	30809026	ATTTTTTT/ATTTTTTT	TTCTGAATCAGTGCCCT TCC	TGGGTAGGAGAGCCTC ATGT	59.7	392	INTERGENIC	--	--	--
Ca2_P2_30809205	Ca2	30809205	AG/AGG	ACATGAGGCTCTCCTA CCCA	TGTTACCAACAAAAT GACAAA	60.3	592	INTERGENIC	--	--	--
Ca2_P2_30820733	Ca2	30820733	ATGCAATGTCTTT/AT	TTGCCACGTGTTATCCA AAA	TTACAGCTGCCACAT ATCC	59.7	530	DRR	Ca_12476	--	--
Ca2_P2_30826487	Ca2	30826487	TAAA/TAA	TTCCAGCATCCTGTCTAT AACC	ACGGAGTGACCAGGAA ACAC	60.0	640	INTERGENIC	--	--	--
Ca2_P2_30843280	Ca2	30843280	AAATTAA/AAA	CCACAATCATTGGGAA GTGA	TGGATGAATAGGGGAT TGCT	59.3	305	INTERGENIC	--	--	--
Ca2_P2_30844033	Ca2	30844033	T/TAA	TTTTCCACATGTTCCCT TCA	TTTCATCTAACGCAGTC GTGG	59.9	686	INTERGENIC	--	--	--
Ca2_P2_30844075	Ca2	30844075	ATTTTTTT/ATTTTTTT	TCATCAAAGGTCATAGG AGGG	TTTCATCTAACGCAGTC GTGG	59.9	646	INTERGENIC	--	--	--
Ca2_P2_30844365	Ca2	30844365	TTATATATATATATA/TTATATATAT A	CCACGACTGCGTTAGA TGAA	CAGAATCAGCAGCAA ACAT	59.9	372	INTERGENIC	--	--	--
Ca2_P2_30846096	Ca2	30846096	GAAAA/GAAAAA	CCTTTGCGAACTTGAA ACC	TCCTCCCTCTTGAGG TTTA	59.8	815	INTERGENIC	--	--	--
Ca2_P2_30848508	Ca2	30848508	TTGATAAT/TTGATAATAATGATAAT	TTGAAGGACCAAAATCA TGAAC	CATACAACGCAAGCTA GGCA	60.0	533	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30860320	Ca2	30860320	TAA/TAA	TGAACAAAAGTTGG GTGA	TGCTCAACTTTGACCC ATTG	59.7	487	INTERGENIC	--	--	--
Ca2_P2_30860644	Ca2	30860644	CAAA/CA	TGGGTCAAAGTTGAGC ATGA	CACCTTTGGAAGAGC TGGA	60.4	557	INTERGENIC	--	--	--
Ca2_P2_30860811	Ca2	30860811	CTTT/CTT	TGGGTCAAAGTTGAGC ATGA	CACCTTTGGAAGAGC TGGA	60.4	557	INTERGENIC	--	--	--
Ca2_P2_30865173	Ca2	30865173	GAAAAAAA/GAAAAAA	GCTGAGGGATTTCGAA AGTAA	ATAATACCCCTCAGGG TGGA	60.0	576	INTERGENIC	--	--	--
Ca2_P2_30871113	Ca2	30871113	TGGG/TGG	CAGCAGAACCTGACGA TGAA	GTTTGCCCTTGCAAAA AAGC	60.0	827	INTRON	Ca_12473	U	--
Ca2_P2_30871455	Ca2	30871455	A/AG	ATTTGTCTTTTGGCGGT GAG	GTTTGCCCTTGCAAAA AAGC	60.0	340	INTRON	Ca_12473	U	--
Ca2_P2_30872234	Ca2	30872234	CAT/CATAT	CAAAAGCACACAAGC CAGA	AATTTAAAGAAAGGCC GGGA	59.9	268	INTRON	Ca_12473	U	--
Ca2_P2_30876227	Ca2	30876227	AT/ATTT	GCAGCCAATTTTCTTG AGC	CAAAGCAGCATTGAG ACAA	60.0	678	INTRON	Ca_12473	U	--
Ca2_P2_30880301	Ca2	30880301	C/CTTGT	GCAATTTTAAAGTTCGCG CAT	CAACGGTCTCTGGTGG TTTT	60.0	126	INTRON	Ca_12473	U	--
Ca2_P2_30883523	Ca2	30883523	TGCG/TG	CACATCAACAGGGCAA AATG	GTGTGTGCAATCTCTG GCAT	59.7	682	INTRON	Ca_12473	U	--
Ca2_P2_30887300	Ca2	30887300	TTAATAA/TTAATAATAA	TCAAGGGAGGATTACA TGGG	TATTAGAATCCGTGCG ATGC	58.7	250	INTERGENIC	--	--	--
Ca2_P2_30887613	Ca2	30887613	AT/A	TCAAGGGAGGATTACA TGGG	AAAGGGAAGTTGCAT CACG	60.1	826	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_3088792	Ca2	3088792	TATTTT/TATTTTACATTTTA	AGACATCCATTCAAGG GCAC	ACCGGATGATAGAGCA TACAA	57.2	950	INTERGENIC	--	--	--
Ca2_P2_30888121	Ca2	30888121	TAAAAA/TAAAAAA	TTAAGGGAAGGTCGTG ATGC	GGGCTAGTGGCAGTCT TCAG	60.0	232	INTERGENIC	--	--	--
Ca2_P2_30888708	Ca2	30888708	TG/T	CTGAAGACTGCCACTA GCCC	AATGGGAGCCAATGAA GATG	59.9	892	INTERGENIC	--	--	--
Ca2_P2_30888970	Ca2	30888970	ATCTTT/AT	CAGTCCATAGGCCATT TGAA	GCAGGCTGAGTTCAGG TAGG	60.0	567	INTERGENIC	--	--	--
Ca2_P2_30890128	Ca2	30890128	AAAATAAATAAATAAA/AAAATAAA TAAATAAA	GATGATGTAATGGGA GCCAA	CATTTGTTGAATGTTGC CCA	60.4	697	INTERGENIC	--	--	--
Ca2_P2_30890182	Ca2	30890182	AAA/AAAGAA	GATGATGTAATGGGA GCCAA	GGAATTGATCCACAAC TCGG	60.3	958	INTERGENIC	--	--	--
Ca2_P2_30890429	Ca2	30890429	A/ACGAC	TGGGCAACATTCAACAA ATG	GCGGTGAGACTCGAAA AGAG	60.1	321	INTERGENIC	--	--	--
Ca2_P2_30890896	Ca2	30890896	ATTTTT/ATTTTTT	CTCTTTTCGAGTCTCAC CGC	ATGCCATGACGTGAAC AAAA	60.0	566	INTERGENIC	--	--	--
Ca2_P2_30892153	Ca2	30892153	A/ATGTAC	AGGATGGGTTTCTGTG TTGC	CTAAGGGGCAAAAGCG TACA	60.3	617	INTRON	Ca_12472	--	--
Ca2_P2_30892524	Ca2	30892524	GTTT/GTT	AGTGCTTGTTTGTG GAAA	TAAACAAAATGACGCCA CCA	60.0	342	INTRON	Ca_12472	--	--
Ca2_P2_30896118	Ca2	30896118	ATT/AT	TGCCAAAAAGAAAAGG AATG	TGTTAAAGCCAAAACC CCA	60.3	742	DRR	Ca_12472	--	--
Ca2_P2_30899363	Ca2	30899363	ATTTT/ATTT	GAATTGGAAATGGCAG CCTA	TTGCACAAGCTGGATA CTCG	60.0	459	INTRON	Ca_12471	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_30901376	Ca2	30901376	CTTT/CTTTTTCTTTTT	TCATTGGTGTTCACGG GAT	TGCAGTGCTTCATTCT CAG	60.1	323	DRR	Ca_12470	DO	--
Ca2_P2_30901717	Ca2	30901717	TG/T	TCATTGGTGTTCACGG GAT	TAGCCTTTTGCAATATG GGG	59.9	886	DRR	Ca_12470	DO	--
Ca2_P2_3090420	Ca2	3090420	CCTCTCTCTCTCTCTCTCTCTC/C CTCTCTCTCTCTCTCTCTCTCTC	TACAAGCACTCTCTCCG GCT	TTTCCATGCCAAAAGT CTC	60.1	257	INTERGENIC	--	--	--
Ca2_P2_30904965	Ca2	30904965	CTATAT/CTAT	TTGGACCCACCTATAT TGC	GCCTGATTGAGCACTT TCCT	59.4	419	INTRON	Ca_12470	DO	--
Ca2_P2_3090922	Ca2	3090922	TA/T	GAGACTTTTGGGCATG GAAA	TGGTCAGTCAAATTCTC CGA	59.2	368	INTRON	Ca_10541	T	HD-ZIP
Ca2_P2_30912621	Ca2	30912621	T/TCCAC	GCACACGTGCAAAACA AAAC	TTGGCCCAAGATAGCA GATT	59.7	515	INTRON	Ca_12470	DO	--
Ca2_P2_30912940	Ca2	30912940	TGGG/TGGGG	GATGCCTCTGCTTCTGT TCC	CAATGAGCTTGGGGAC AAAT	59.9	381	INTRON	Ca_12470	DO	--
Ca2_P2_30916172	Ca2	30916172	TCC/TCCC	TGAATTGCCACAGGTCT TGA	TAAAGAGTGGCACCCC TCAC	60.1	411	INTRON	Ca_12470	DO	--
Ca2_P2_30945167	Ca2	30945167	GT/GTCT	GACCATGGAATCGGAC AAGT	CTTCTGCATCCCCTTG TGT	60.1	684	INTRON	Ca_12469	U	bHLH
Ca2_P2_3096067	Ca2	3096067	CAAGTAA/CAA	AAAGACCACACCAAG CATC	TCGGCGGATACTTTTA AACAA	59.6	622	DRR	Ca_10541	T	HD-ZIP
Ca2_P2_3096143	Ca2	3096143	ATT/AT	AAAGACCACACCAAG CATC	CTTTATCTTCATTTCGG CGG	59.7	635	DRR	Ca_10541	T	HD-ZIP
Ca2_P2_30963140	Ca2	30963140	GT/G	TAAGCCCATTTGAATGC TCC	CACAATTGCCTACACC ATCG	60.0	780	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_3096490	Ca2	3096490	ATTTT/ATTTT	TGGTTTTCCTTAAACAT GCAA	CTTTATCTTCATTTCGG CGG	59.7	134	DRR	Ca_10541	T	HD-ZIP
Ca2_P2_30968434	Ca2	30968434	ATT/ATTT	TTCTTGATCGGGTAGG TTCG	ATTTTGCTCCCGTCTCC TTT	60.1	507	INTERGENIC	--	--	--
Ca2_P2_30983014	Ca2	30983014	AGTGT/AGT	ACAAAATGGGATGGAT GGAA	TAATCCCAAGGCGATG CTAC	60.1	517	INTERGENIC	--	--	--
Ca2_P2_3098929	Ca2	3098929	TTTTCTT/TTT	CAAATGCTTCACGAAAG GGT	AGCCACAAAACCACAA CACA	60.0	361	INTERGENIC	--	--	--
Ca2_P2_30992771	Ca2	30992771	ACCC/ACC	TGACCGATTCAACCACT CCT	CCCGAGTTCCAAATGA CAAC	60.4	333	INTERGENIC	--	--	--
Ca2_P2_3099296	Ca2	3099296	CACATGACATG/CACATGACATGACATG	GTTGTGGTTTTGTGGC TGTG	CCAATGCTTGACCCAT CTTT	59.9	649	INTERGENIC	--	--	--
Ca2_P2_3099476	Ca2	3099476	ATTT/ATTTT	GTTGTGGTTTTGTGGC TGTG	CCAATGCTTGACCCAT CTTT	59.9	649	INTERGENIC	--	--	--
Ca2_P2_30997225	Ca2	30997225	A/AT	TCACCCTCGTATCCACA ACA	ATGTGGCCATTGACAA GTGA	60.0	245	DRR	Ca_12465	--	ERF
Ca2_P2_30998171	Ca2	30998171	ATGTTGTTGTTGTTGTT/ATGTTGTTGT TGTT	ACGCAGCGTAAGGAAG AAAA	CACCTCCACAGCAATC CCTT	60.1	818	CDS (large-effect mutations)	Ca_12465	--	ERF
Ca2_P2_3100168	Ca2	3100168	AGTGT/AGT	AAAGATGGGTCAAGCA TTGG	CGGTTTGTAGAAGCG AAAAA	59.4	823	INTRON	Ca_10540	C	--
Ca2_P2_31003034	Ca2	31003034	TTAAT/TTAATAAT	CGACATATTATTGGGA CAAACAT	GCAATACTTCCTCTTTG GCG	59.8	368	INTERGENIC	--	--	--
Ca2_P2_31003144	Ca2	31003144	TA/TAGA	CGACATATTATTGGGA CAAACAT	GCAATACTTCCTCTTTG GCG	59.8	368	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31013894	Ca2	31013894	TAAAAAAAA/TAAAAAAAAA	GTGGTAGAGGAAGGC ACAA	TCATGGATTGTGGT TGCT	60.0	615	INTERGENIC	--	--	--
Ca2_P2_31017880	Ca2	31017880	A/ATTG	TCCTTGATGCTAAGTT GCC	GACCCATCTCCAATG CCCT	60.3	584	DRR	Ca_12462	R	G2-like
Ca2_P2_31029004	Ca2	31029004	TAAAAAAAA/TAAAAAAAAA	AAGAAACAATTCCTTTG TTTTCAA	TCCTCCCTCCAATTC CTC	60.4	570	DRR	Ca_12461	--	LBD
Ca2_P2_31029414	Ca2	31029414	CG/C	GGAAATTTGGAGGGAG GAGA	CCATATGATGTTCCGC AGTG	59.9	461	DRR	Ca_12461	--	LBD
Ca2_P2_31030970	Ca2	31030970	AAACAA/AAACAACAA	AGTCGCTCCAACATGA GCTT	TGCCCCAAATGGAACA CTAT	60.2	277	INTRON	Ca_12461	--	LBD
Ca2_P2_31039004	Ca2	31039004	AT/A	TCGAGTTTCCATCCTCT CTGA	GGTTGAGTTGAGGGGA TCAA	59.9	476	INTERGENIC	--	--	--
Ca2_P2_31040581	Ca2	31040581	CTTTTTTT/CTTTTTTTT	CCGGACTTACGGTGAA GAAA	GTTAAGGAACCGCCGA TGTA	60.0	567	INTERGENIC	--	--	--
Ca2_P2_31041300	Ca2	31041300	GGAA/GGAAGAAGAA	TACATCGGCGGTTCCCT AAC	GGCTAAATTACATCTGT GGTCCTT	59.8	553	INTERGENIC	--	--	--
Ca2_P2_3104148	Ca2	3104148	TAAAAAA/TAAAAAAA	GGAAACGCCGAGACAT ACAT	GCACAACCTTTTTGGC GTAT	60.0	360	DRR	Ca_10539	P	WOX
Ca2_P2_31041815	Ca2	31041815	TAAAA/TAA	AAGGACCACAGATGTA ATTTAGCC	ATATCAAGTGGGGAT GCAA	60.2	965	INTERGENIC	--	--	--
Ca2_P2_31047686	Ca2	31047686	CTATTAACAATATTACAAT/CTATTAAC AAT	AACTTTGAATCATCAC CGC	ATCAAAGAGGTGATT GGCG	60.1	577	INTERGENIC	--	--	--
Ca2_P2_31049093	Ca2	31049093	GTTT/GTT	CTTTGGGCCAAGGGAT TTAT	CTTTGAGGCATGGCCA TATT	59.9	412	DRR	Ca_12459	D	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31051310	Ca2	31051310	A/AC	CCAAACGGCCACTAAT GTCT	TTCTTGTGGAGACAGG ACCC	60.1	195	INTRON	Ca_12459	D	--
Ca2_P2_31051512	Ca2	31051512	GTATATATATATATAT/GTATATATATAT ATATATATATAT	CCAAACGGCCACTAAT GTCT	CTGCATTTTCCATCCCA AGT	59.9	614	INTRON	Ca_12459	D	--
Ca2_P2_3106218	Ca2	3106218	TTAA/T	CCAGGAGCTGGCTCAT TAAC	TGGGGGATGGAGTAGA AGTG	59.9	372	INTRON	Ca_10539	P	WOX
Ca2_P2_31066601	Ca2	31066601	TTGTGTGTGTGTGTGTGTGT/TTGTG TGTGTGTGTGTGTGT	GATTCGTGAGACCGTT GGAT	AAGACATGTCCATAAC GAACCA	59.4	640	INTRON	Ca_12458	M	--
Ca2_P2_31067008	Ca2	31067008	ACTAGAGCTAGAG/ACTAGAG	TTTGTGTGTGTGTGTGT GTGTG	AAGGGCACATGACCTT CAAC	60.0	733	INTRON	Ca_12458	M	--
Ca2_P2_31071398	Ca2	31071398	T/TTTA	GCGGTTTCATTTTCTTC TCG	CGACTATATGTATCCG CCCG	60.3	197	INTERGENIC	--	--	--
Ca2_P2_31080419	Ca2	31080419	AAAAAATA/AAAAAATATGAAAAATA	GACTTCGGGAAAAGGA AAGG	ATGCTTTGGGTTTTCAC TGG	60.0	601	INTERGENIC	--	--	--
Ca2_P2_3108123	Ca2	3108123	TAAAAAA/TAAAAAA	GCATCGTCATCGAGCA ACTA	ATCCCTTCCATTTTCCC ATC	60.0	773	INTRON	Ca_10539	P	WOX
Ca2_P2_31084768	Ca2	31084768	AAAA/AAAAATAA	TTGGCAACAAGTCAAA TGG	AATGATGCAACAAGGT TCCC	59.8	866	DRR	Ca_12455	--	--
Ca2_P2_31085057	Ca2	31085057	T/TTAAA	CACCAACATAACAATG TCGAA	ACCACAAATGGAGAAG GTGC	60.0	942	DRR	Ca_12455	--	--
Ca2_P2_31088737	Ca2	31088737	GTTTTTTT/GTTTTTTT	GGACCGACAAGACCTA TCCA	TCATAAAGCAGGCGGA AGTT	59.8	628	INTRON	Ca_12454	J	--
Ca2_P2_31090173	Ca2	31090173	TTAAT/TTAATAAT	TCACTATTGGCAAGGG AACC	AGATTGCTTCTTGCAAC CGT	59.9	565	DRR	Ca_12453	P	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31099158	Ca2	31099158	ACTCTC/ACTC	TGCTGGCCAATCTAGC ATAA	GGATGTTGTAGTGC CACG	60.0	554	DRR	Ca_12452	F	--
Ca2_P2_31105226	Ca2	31105226	CTTTTTTTTTTTTT/CTTTTTTTTTTT	AACACACCAACCTCTT CCG	CAGCATTTTCTCATTCTCCG	59.8	759	INTERGENIC	--	--	--
Ca2_P2_31105310	Ca2	31105310	G/GGTAAATTTAAAT	CCACCCATGGCTTATGT CTC	CAGCATTTTCTCATTCTCCG	59.8	331	INTERGENIC	--	--	--
Ca2_P2_31105800	Ca2	31105800	AT/AATCTTTTTCTGT	CGGAGAATGAGAAAA TGCTG	TTTTTCCCGCTTAAAT GTAGC	59.7	782	INTERGENIC	--	--	--
Ca2_P2_31105983	Ca2	31105983	TAAAAA/TAAAAAA	TGTGGATTATCACCACT CCAA	TTTTTCCCGCTTAAAT GTAGC	59.7	557	INTERGENIC	--	--	--
Ca2_P2_31106191	Ca2	31106191	ATTTTTTTT/ATTTTTTT	TGTGGATTATCACCACT CCAA	GGGCAATGTGCTCACT TTTA	58.8	950	INTERGENIC	--	--	--
Ca2_P2_31106302	Ca2	31106302	GT/GTATA	GCTACATTTTAAGCGG GAAAA	GGGCAATGTGCTCACT TTTA	58.8	415	INTERGENIC	--	--	--
Ca2_P2_31106498	Ca2	31106498	CAAAAA/CAAAAA	GCTACATTTTAAGCGG GAAAA	AATATATGCCAGGCGC CGGT	60.4	763	INTERGENIC	--	--	--
Ca2_P2_31107340	Ca2	31107340	TAAAAA/TAAAAAA	ATAGATTGCCGCTGAG TTGG	GTGGCAATTTGGTCTC CCTA	59.9	126	INTERGENIC	--	--	--
Ca2_P2_31108593	Ca2	31108593	ATTTT/ATTTTTT	TCCAACCAAGTGCAAT CCA	TGCTAGATTGCCAGC ATAA	59.4	792	INTERGENIC	--	--	--
Ca2_P2_3111346	Ca2	3111346	TA/TAA	TGGCAAAGCAATTAACA TTCC	CATAGGCAGCTCTACC CCAA	60.2	390	INTRON	Ca_10538	--	--
Ca2_P2_31114173	Ca2	31114173	TA/TAAA	ATCACAAATGGCAACCT TCC	TGTTTTGGCCACCAGG TAAT	60.2	559	INTRON	Ca_12451	F	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca2_P2_31115561	Ca2	31115561	ATTT/ATTTT	CGGTGTGCTTGATTG GCTA	TCATGGTCGCATTTC ATTA	59.9	360	INTERGENIC	--	--	--
Ca2_P2_31117267	Ca2	31117267	TTATAT/TTATATAT	TGGGTTTTTCATGTCAT GCT	ATGGTCGCTGTGGATA AAGG	60.0	248	INTERGENIC	--	--	--
Ca2_P2_31118846	Ca2	31118846	ATATTATTATTATTAT/ATATTATTAT TATTAT	AACGCCAAGTCAAGAC GAGT	AAGTATGTTGCATTGC GATTTTT	59.9	352	INTERGENIC	--	--	--
Ca2_P2_31125141	Ca2	31125141	TTCT/TT	TCTCTCCGCTCGCCAT TTT	CCACATTGGGTATTTTT GGG	59.9	581	INTERGENIC	--	--	--
Ca2_P2_31125327	Ca2	31125327	TTTTTATGTTTTAT/TTTTTATGTTTTATG TTTTATGTTTTAT	TCTCTCCGCTCGCCAT TTT	CCACATTGGGTATTTTT GGG	59.9	581	INTERGENIC	--	--	--
Ca2_P2_31125648	Ca2	31125648	CTTT/CTT	CCACTTCCCAAAAATAC CCA	ACCGGGAGAACGAAGT TTTT	60.0	593	INTERGENIC	--	--	--
Ca2_P2_31127493	Ca2	31127493	TT/TTGAT	TGGGTGGAAATTCTCC ATGT	TGCTCACTGCATCTGC TCTT	59.9	880	INTRON	Ca_12450	--	LBD
Ca2_P2_31128616	Ca2	31128616	TAAAAAAAA/TAAAAAAAAA	TCTTAGACCATGGCCCT CAC	TGGCCTCAAATTACGA TCAA	59.1	726	DRR	Ca_12450	--	LBD
Ca2_P2_31131673	Ca2	31131673	GAATAATAA/GAATAATAATAA	TTTGGACAGCAAGAAG ATGG	CATGCAAGAAATGCAA GGAA	59.8	473	INTERGENIC	--	--	--
Ca2_P2_31133111	Ca2	31133111	CAA/CAAA	GGTGATCAACACATC GTCG	TTAGGTGGAGAGGGTG AGGA	59.6	807	INTERGENIC	--	--	--
Ca2_P2_3113326	Ca2	3113326	AACCTATACTT/AACCTATACTTATACTT	ATTTGTTCTGGCCAC TTT	AGCTTGATGCTGCAAT TCCT	60.0	535	INTRON	Ca_10538	--	--
Ca2_P2_31138425	Ca2	31138425	AA/AATA	TGATGAGACGTTGGTC AAACA	TTTCCTCTTGTTACCC TCC	59.1	464	INTRON	Ca_12449	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31160544	Ca2	31160544	T/TGG	AGTTTGAGAGGAAACA CGCA	TTTGAACGTCACTTTA TGATCG	59.2	426	INTERGENIC	--	--	--
Ca2_P2_31160632	Ca2	31160632	ATTTTTTTTTT/ATTTTTT	AGTTTGAGAGGAAACA CGCA	TTTGAACGTCACTTTA TGATCG	59.2	426	INTERGENIC	--	--	--
Ca2_P2_31163345	Ca2	31163345	CTGAAATGAAATG/CTGAAATGAAATGA AATG	CACGAGTTTGTCAACTC CTCC	ATTTCGTCGTGATTTCG CATT	60.5	495	INTERGENIC	--	--	--
Ca2_P2_31165144	Ca2	31165144	TTCTTTAATTCTCTT/TTCTTTAATTCTC TTTAATTCTCTT	CTGAAGATGGTGATTG AACCAA	TTGGGCCTATCTGAAA ATGG	59.9	141	DRR	Ca_12446	--	ERF
Ca2_P2_31165732	Ca2	31165732	C/CTT	AAGTTGCAGTCAAGGC CAAC	CTCTGTGGCCACTTTT GTCA	59.9	397	DRR	Ca_12446	--	ERF
Ca2_P2_31169525	Ca2	31169525	AATA/AATATATA	CAAACCTTTTTTGACGGA ACA	GCACATGCGTCTTTTAA GTTTG	59.8	506	INTERGENIC	--	--	--
Ca2_P2_31170607	Ca2	31170607	GT/G	GATTGGGCAAGGGAAA CTTA	TGGGCCCTATAAAATG GTGA	60.1	436	INTERGENIC	--	--	--
Ca2_P2_31170706	Ca2	31170706	TA/TATATACA	GATTGGGCAAGGGAAA CTTA	TCGGATATGCGAATGC AATA	60.0	617	INTERGENIC	--	--	--
Ca2_P2_31172482	Ca2	31172482	TATTTAAT/TAT	CCTTGAATAAAATATG GGGCA	TCAATAACTTTTAACAG TCCGACAA	59.2	526	INTERGENIC	--	--	--
Ca2_P2_31172925	Ca2	31172925	AATATATATATA/AATATATATATATA	TTGTCGGACTGTTAAA GTTATTGA	TAGTGC GCGACATTTT ATGC	59.9	265	INTERGENIC	--	--	--
Ca2_P2_31175907	Ca2	31175907	T/TG	TCAGCTGAATGCAATCT CTTGT	TCCACGAGGAATATTT GGAA	58.0	581	INTERGENIC	--	--	--
Ca2_P2_31177108	Ca2	31177108	ATT/ATTT	TCCAATTTGATATCGGT CTCTTG	AAACATAAAACAACGTG AGACAAA	57.9	970	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31178815	Ca2	31178815	CTTTTTTTTT/CTTTTTTT	TGTAACAAAAAGGGAG GAAAAA	ACGCAGATGCCAAAGT TGTA	59.3	691	INTERGENIC	--	--	--
Ca2_P2_31180716	Ca2	31180716	TAA/TAAA	GGCCAATTGCTAAGTG GATG	GCTTTGATTCTTGCAAT GTCC	59.7	364	INTERGENIC	--	--	--
Ca2_P2_31189040	Ca2	31189040	GATCA/GATCATCA	CAATAGGGTTTGCATCC CAC	TTCATGGTTGAGAGCC ACTG	59.8	532	INTRON	Ca_12445	Q	--
Ca2_P2_3118907	Ca2	3118907	TAAAA/TAAAAAAA	TGCACCAGAATGCCTT GTTA	TGGCCTTCACATTTCAA ACA	60.1	752	INTRON	Ca_10537	--	AP2
Ca2_P2_31189468	Ca2	31189468	ATAAT/ATAATTAAT	CAGCCCATCTGTTCT GATT	ATGACAATTTCCAGG TCCA	60.2	403	INTRON	Ca_12445	Q	--
Ca2_P2_31190112	Ca2	31190112	GAAAAA/GAAAAAAA	CTTCCAAAGTTGGACCT GGA	CTACCGGGTGCAACAA CTTT	60.0	745	INTRON	Ca_12445	Q	--
Ca2_P2_31190584	Ca2	31190584	TAAAAAAAAAAAAA/TAAAAAAAAA	AAAGTTGTTGCACCCG GTAG	CCAATTGCGGACACT TTTT	60.0	631	INTRON	Ca_12445	Q	--
Ca2_P2_31191888	Ca2	31191888	TATTTA/T	CGTAGTGCTCTACCC ACAA	CCAAGCGTTAGCTTCC ATGT	60.3	743	INTERGENIC	--	--	--
Ca2_P2_31195552	Ca2	31195552	TAAAAAAAAAAAAA/TAAAAAAAAA	CTGGTCGTCCATCTCAA CCT	ATTGGTGGTGTGCAAA TTCA	59.8	695	INTERGENIC	--	--	--
Ca2_P2_31195882	Ca2	31195882	GTT/GTTT	TGTTCAATGACGCATT GTTT	ATTGGTGGTGTGCAAA TTCA	59.8	248	INTERGENIC	--	--	--
Ca2_P2_31203736	Ca2	31203736	CTTTTTTT/CTTTTTTT	GACTAGTTGGGTTCCG CTCA	TTTTATGTTCTTGCTC CCG	60.1	697	DRR	Ca_12444	U	--
Ca2_P2_31210081	Ca2	31210081	CTTAATTTA/CTTTA	ACAATGCCGTTTATTCT CCG	TTTTGTTGGTAAGAAAA ACTAATTCAA	58.8	599	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_3121485	Ca2	3121485	TAAA/TAA	TTCTTATGCTTGGACG GGC	CTAGAGGCTCCCCACA TTCA	60.2	286	DRR	Ca_10536	--	--
Ca2_P2_31232054	Ca2	31232054	CATCTATTTAAT/CATCTATTTAATCTAT TTAAT	AGGCAACAAGGAAGAA GTCG	CTTTGACGCATCTTGAT GACA	59.9	474	INTERGENIC	--	--	--
Ca2_P2_31232370	Ca2	31232370	ATAT/A	TGTCATCAAGATGCGTC AAAG	TCATTCTTCCATCAGC GGT	60.3	527	INTERGENIC	--	--	--
Ca2_P2_31232642	Ca2	31232642	GTTAATTAATTA/GTTAATTA	TGTCATCAAGATGCGTC AAAG	CCATTGTGATGTTGGT GGAA	60.2	830	INTERGENIC	--	--	--
Ca2_P2_3123340	Ca2	3123340	ACC/AC	CCCAAGGTTGAAAAGC ACAT	TGCTTCTGTCACCACC AAAC	59.7	534	INTRON	Ca_10536	--	--
Ca2_P2_31233960	Ca2	31233960	AG/A	GGGTGGAAATCATGGT GAAC	TTGGTTGGAAGGAATG GAAG	59.9	436	INTRON	Ca_12440	--	--
Ca2_P2_31240228	Ca2	31240228	TCAA/T	CTGCCCCCACTATTTCT CAA	GAAACACTTGGCATGT TAAGGA	59.1	479	INTERGENIC	--	--	--
Ca2_P2_31242575	Ca2	31242575	TAC/T	GGGAGTTCACCATTTTG TGG	TTGGGTGTGTACAGGT TCTAGC	59.2	496	INTERGENIC	--	--	--
Ca2_P2_31244339	Ca2	31244339	AGG/AG	CAAGACTCAGGGTGGG TTGT	AAATCCATTGGGAAT GCAG	59.8	547	INTRON	Ca_12439	--	C3H
Ca2_P2_31245171	Ca2	31245171	AAAGGCAA/AAAGGCAAGGCAA	GGGCAATCATATTGGC ACTT	AGGAGCTGTGCTACT CCCA	60.0	597	INTRON	Ca_12439	--	C3H
Ca2_P2_3124790	Ca2	3124790	ATT/A	GGGAAAATGTGGAAGC AAAA	CTTCAAGGTACCCCTC TCCC	59.9	348	INTERGENIC	--	--	--
Ca2_P2_3125216	Ca2	3125216	GAAAAAA/GAAAAAAA	AGGGAGAGGGGTACCT TGAA	CCCTTCTTTCTCCTCC ACC	60.0	288	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_3126083	Ca2	3126083	CTATATATAT/CTATATATATAT	AACGATTCCATGACTAA TTTGAA	TTGAACGGTTTAAATGT GGCT	59.5	518	INTERGENIC	--	--	--
Ca2_P2_3126150	Ca2	3126150	ATT/AT	AACGATTCCATGACTAA TTTGAA	TTGAACGGTTTAAATGT GGCT	59.5	518	INTERGENIC	--	--	--
Ca2_P2_3128127	Ca2	3128127	AATTA/AA	GAAGCGCAAAAGTTCC TTAAA	TGCTCTCCATTCCAAG CACA	60.2	615	INTERGENIC	--	--	--
Ca2_P2_31286944	Ca2	31286944	A/ATAATG	TGGTATATTTGCACGGA CCA	AAATGCGAGTCTAAGA GGATGC	59.9	330	INTERGENIC	--	--	--
Ca2_P2_31294019	Ca2	31294019	AG/AGAGG	AGACCGTCGGTTTCAAT GAC	AAAAATCTTTAACAAGC GGGT	57.0	494	INTERGENIC	--	--	--
Ca2_P2_31298498	Ca2	31298498	CAAAAAAAAA/CAAAAAAAAA	TCGCATCACCATTCTCA CAT	ATCGTTGACACCTCTG CTCA	59.4	972	INTERGENIC	--	--	--
Ca2_P2_31299649	Ca2	31299649	TAAAAAAAA/TAAAAAAAA	GCTGCAATGGAAATGC ATAA	GCGAATTCACAATCC CACT	59.9	972	INTERGENIC	--	--	--
Ca2_P2_31300005	Ca2	31300005	A/AG	CATTCCAATGTGCAACC TCT	GCGAATTCACAATCC CACT	59.9	535	INTERGENIC	--	--	--
Ca2_P2_3130104	Ca2	3130104	TTCTAATTTCTAAT/TTCTAATTTCTAATT TCTAAT	TTGTTTTCTTTAACCA AGCTCG	GAATGAACGGGATCCT GAGA	60.0	838	INTERGENIC	--	--	--
Ca2_P2_31302251	Ca2	31302251	AT/A	TCTCACCAACCAACCA ACA	GCAACGTCACTACTGA AGAA	59.9	746	DRR	Ca_12435	--	--
Ca2_P2_31303509	Ca2	31303509	T/TAA	AAGAAAAGGCGAGTGC AAGA	TTTGACAATGGAATGG AACG	59.4	933	INTERGENIC	--	--	--
Ca2_P2_31304211	Ca2	31304211	C/CCT	CCCACCATTTACGTTAT GCC	GAGCGTTTCCCATTTG TGTT	60.0	232	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31310762	Ca2	31310762	TAATAATAA/TAATAATAAAAAATAATA	CGCATGAAACATGAAAT GCT	TCATGCCAGCTTCAAC CATA	60.2	461	INTERGENIC	--	--	--
Ca2_P2_31310921	Ca2	31310921	GTGTATGT/GTGTA	CGCATGAAACATGAAAT GCT	TCATGCCAGCTTCAAC CATA	60.2	461	INTERGENIC	--	--	--
Ca2_P2_31311015	Ca2	31311015	T/TA	CGCATGAAACATGAAAT GCT	TCATGCCAGCTTCAAC CATA	60.2	461	INTERGENIC	--	--	--
Ca2_P2_31312308	Ca2	31312308	ATTTTTTTT/ATTTTTTTTTT	GTTGCATGTGCATTCGT CTC	TGCATGACAGCATGAG CATA	60.0	843	INTERGENIC	--	--	--
Ca2_P2_31316288	Ca2	31316288	AG/A	GGTGACATTCGGGAGT CTGT	CGAGTTGCGCGGTAGA AT	60.0	931	INTERGENIC	--	--	--
Ca2_P2_31316352	Ca2	31316352	GAAAAAA/GAAAAAAA	AGGCACACGAATGA ATTG	TGGGTTTGATATGTC TTTGA	59.0	647	DRR	Ca_12431	U	--
Ca2_P2_31316763	Ca2	31316763	TTATA/TTA	TGCATGCTTAGATGGA CAATG	CTTGGCCATAAGTTTG CCAT	60.0	879	DRR	Ca_12431	U	--
Ca2_P2_31317319	Ca2	31317319	AACT/A	ATGGCAAACCTTATGGC CAAG	ACCAAAATTGGAAAGT CGCA	60.5	664	DRR	Ca_12431	U	--
Ca2_P2_31317559	Ca2	31317559	GTT/GTTT	ATGGCAAACCTTATGGC CAAG	GAGTGGGTTGTTGTT TGGT	59.7	831	DRR	Ca_12431	U	--
Ca2_P2_31317661	Ca2	31317661	T/TC	TTGAGCAAAAGTGGA ATGA	GAGTGGGTTGTTGTT TGGT	59.7	614	DRR	Ca_12431	U	--
Ca2_P2_3133849	Ca2	3133849	T/TG	ATATCCGTTGGACACG CTTC	CTGCTCAATCGTTGG TGAA	59.8	328	INTERGENIC	--	--	--
Ca2_P2_31335738	Ca2	31335738	A/AAAT	ATATAAACGACGCACCA CCC	CGACTGAAACGAATAA AAAGTGAA	59.7	381	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31342497	Ca2	31342497	AATATATATATATATA/AATATATATATATATATATA	GACGTGGTCTTACAAC CATTTTT	TGTGTGACAGTTGGA TTGG	60.4	597	INTERGENIC	--	--	--
Ca2_P2_31345875	Ca2	31345875	CT/C	GGGACAAAATTATAGCA CTGGC	TTCGTCAAAACAGATGA CACG	59.7	551	DRR	Ca_12427	R	--
Ca2_P2_31346609	Ca2	31346609	TAAAAAA/TAAAAAA	CGTGTCACTCTGTTTGA CGAA	TTGGCACATTATCACCT TGC	59.5	333	DRR	Ca_12428	E	--
Ca2_P2_31352669	Ca2	31352669	CTTTT/CTTT	CCCTTGCTGTGGATGG TAGT	TCCAAAATCTGCAAGA GGCT	60.0	569	INTERGENIC	--	--	--
Ca2_P2_31352863	Ca2	31352863	TTG/T	CCCTTGCTGTGGATGG TAGT	TCCAAAATCTGCAAGA GGCT	60.0	569	INTERGENIC	--	--	--
Ca2_P2_31355084	Ca2	31355084	AT/ATT	GCATGGAAAAATGAAG GCAT	GAATGCATTGCTCATT GGA	59.6	674	INTERGENIC	--	--	--
Ca2_P2_31355163	Ca2	31355163	TT/TTAT	GCATGGAAAAATGAAG GCAT	GAATGCATTGCTCATT GGA	59.6	674	INTERGENIC	--	--	--
Ca2_P2_31355232	Ca2	31355232	CTTTTTTTT/CTTTT	GCATGGAAAAATGAAG GCAT	TCCAGAGGGGCAAAAA CTTA	59.7	899	INTERGENIC	--	--	--
Ca2_P2_31361796	Ca2	31361796	CA/CAA	GAGGAGTGTGATGACG AGCA	CGTGAATTTTCGTTAG CCA	58.8	796	INTERGENIC	--	--	--
Ca2_P2_31362383	Ca2	31362383	TAAAAAAA/TAAAAAA	TGGCTAACGAAAAATC ACG	TTGCGAGAGAGCAAAA CTCA	59.9	514	INTERGENIC	--	--	--
Ca2_P2_31363352	Ca2	31363352	TGTAT/TGTATGATGTGGTAT	TGGATAAATACTGGCA GGCA	GTTCCACGATGTCGAT GATG	59.9	556	INTERGENIC	--	--	--
Ca2_P2_31364749	Ca2	31364749	TATTA/TATTAATTA	AAGCATTGTGCTCGAG GAAT	TGGTCAAATCTGCCG TAAA	59.2	846	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31365275	Ca2	31365275	CTATATA/CTATA	TTTACGGCAGAATTGA CCA	TGGCTTTTCCCTACTT CCA	59.7	361	INTERGENIC	--	--	--
Ca2_P2_31365474	Ca2	31365474	CT/C	TTTACGGCAGAATTGA CCA	TGGCTTTTCCCTACTT CCA	59.7	361	INTERGENIC	--	--	--
Ca2_P2_31367352	Ca2	31367352	AT/ATT	ATTGTAATGCGGTTCCG AAG	CTCCACACGTGCCATC ATAC	60.0	485	INTERGENIC	--	--	--
Ca2_P2_31367430	Ca2	31367430	TA/TAGGCAA	ATTGTAATGCGGTTCCG AAG	CTCCACACGTGCCATC ATAC	60.0	485	INTERGENIC	--	--	--
Ca2_P2_31367840	Ca2	31367840	CTATA/CTA	GTATGATGGCAGTGT GGAG	CCTTCCCTTCCCTTGA AAA	60.4	399	INTERGENIC	--	--	--
Ca2_P2_31368405	Ca2	31368405	ATTT/ATTTT	TTTTCAAGGAAAGGG AAGG	CCGTTCATTATCGGA GAGA	60.0	797	INTERGENIC	--	--	--
Ca2_P2_31368994	Ca2	31368994	AT/ATTAGT	TCTCTCCGATAATGGAA CGG	CCCTCCGCTCGAATCT ATATC	60.0	658	INTERGENIC	--	--	--
Ca2_P2_31372461	Ca2	31372461	ATTTTTTT/ATTTTTTTTT	GCACAAGCTGTGAAAC AAGC	TGGCGGGTTACTACTT GGTC	60.0	538	DRR	Ca_12425	--	bHLH
Ca2_P2_31381351	Ca2	31381351	AGTATTTTCATT/AGTATTTTCATTGTATT CATT	TTCATTTAGGCAGCCT CTT	TCAGAGATGTGGCACT GAGG	60.0	816	INTRON	Ca_12423	--	--
Ca2_P2_31386815	Ca2	31386815	TAAA/TAA	CAGTCGAATCCGCCAT ATCT	TTGGAATCGCATTTTT CTC	60.0	587	INTRON	Ca_12422	--	MYB_related
Ca2_P2_31388110	Ca2	31388110	TAAA/TAAA	TCAGGGGACAATAACTT GGC	TCCATTTACCCACTAGA CCCA	59.3	919	DRR	Ca_12422	--	MYB_related
Ca2_P2_31388227	Ca2	31388227	TAAA/TAAAAA	CATCAGTCCCCTCACT GGAT	TCCATTTACCCACTAGA CCCA	59.3	707	DRR	Ca_12422	--	MYB_related

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31388368	Ca2	31388368	TTT/TTTTCTT	CATCAGTCCCCTCACT GGAT	CGAAACAGTCCCGAA AGAA	60.2	866	DRR	Ca_12422	--	MYB_related
Ca2_P2_31388637	Ca2	31388637	CTTTT/CTTT	TGGGTCTAGTGGGTAA ATGGA	CGAAACAGTCCCGAA AGAA	60.2	180	DRR	Ca_12422	--	MYB_related
Ca2_P2_31392467	Ca2	31392467	TAAAAAAAA/TAAAAAAAA	ATGTTCCGGCTATTCGA GTG	CTTCAAATGCAGGGA CGTT	60.1	708	INTERGENIC	--	--	--
Ca2_P2_31407170	Ca2	31407170	GAAAAAAAA/GAAAAAAAA	TGGAACCCAGCCGTAT AAAG	TCTTGCTCAAGGGTCA TTCA	59.4	223	INTRON	Ca_12421	--	ERF
Ca2_P2_31407415	Ca2	31407415	AG/A	CCCTTGAGCAAGAGAC TTGG	TCTTTTGCTCTTGATT CCGAAC	59.8	199	INTRON	Ca_12421	--	ERF
Ca2_P2_31408666	Ca2	31408666	TATATATCAAA/TATATATCAAATATATC AAA	TCCCAATCTTCTTCCC AAG	TGAGTGTACGACCCA TGAT	60.0	708	INTERGENIC	--	--	--
Ca2_P2_31410939	Ca2	31410939	CAAAA/CAAA	CGTTCGGAATGGGTAG AAAA	GGTGCAATGAAATGCC TCTT	60.1	536	DRR	Ca_12420	--	LBD
Ca2_P2_31419374	Ca2	31419374	TTCT/TT	GGCTTCCATTTTGGGT TTT	TCCATTACATGGGTG TGTC	60.2	202	INTERGENIC	--	--	--
Ca2_P2_31419525	Ca2	31419525	T/TGG	GGCTTCCATTTTGGGT TTT	ATTCCAATGTGGAAG ACAA	57.8	258	INTERGENIC	--	--	--
Ca2_P2_31423587	Ca2	31423587	ATTTTTTTTT/ATTTTTTTTTTT	TTATTCCCCTTCCCCAA AAC	CTTTGCAAAACCAATCA CCC	60.3	432	INTERGENIC	--	--	--
Ca2_P2_31423787	Ca2	31423787	GTTTTTTT/GTTTTTTT	TTATTCCCCTTCCCCAA AAC	TCCAAAAATCCTTGGG AATG	59.7	800	INTERGENIC	--	--	--
Ca2_P2_31439958	Ca2	31439958	GAAAAAAAA/GAAAAAAAA	CAAATGTCAAGGTGAAA ATCCA	TGCTCCTTATGCCAACT CCT	59.8	492	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31441363	Ca2	31441363	A/AAT	GGGTTTTCGGCCTTCT AAA	GCTAAACAAGTGTGC CGAA	59.0	470	INTERGENIC	--	--	--
Ca2_P2_31446059	Ca2	31446059	A/AT	GGCATAAGTCTGGCCT ACGA	CAGAGGCCTATGTCCT GACC	59.7	624	INTERGENIC	--	--	--
Ca2_P2_31448144	Ca2	31448144	TAAAAAAAA/TAAAAAAAAA	TTATTGTGGATTGCGT GAA	TTGTGCGATGGAATATT TGG	59.4	875	INTERGENIC	--	--	--
Ca2_P2_31449619	Ca2	31449619	GAAAAAAAAAAAA/GAAAAAAAAA	TATGGACCGGAATGG ATGT	TCGTAGGATCGATTGG GAAG	60.0	559	INTERGENIC	--	--	--
Ca2_P2_31450111	Ca2	31450111	TCC/TC	TTCCCAATCGATCCTAC GAG	ATTGTGGAGAATCTGC AGGG	60.1	313	INTERGENIC	--	--	--
Ca2_P2_31453758	Ca2	31453758	CACGTTGAT/CACGTTGATACGTTGAT	GTGCATTCTCGGTGTT CCTT	CAATCGTCAATTGTGAT GGC	59.9	501	INTERGENIC	--	--	--
Ca2_P2_31456735	Ca2	31456735	ATTTTT/ATTTTTT	AGCGCGCAATATGTCT ACCT	CCACTCTAGCTCGGTC CTTG	60.0	300	DRR	Ca_12418	--	Trihelix
Ca2_P2_3145944	Ca2	3145944	TTCT/TT	TCGAACCTCGCTTTGTT GTG	GCATTGCTGTGTGAAA ATGC	60.3	907	INTERGENIC	--	--	--
Ca2_P2_31459966	Ca2	31459966	GTAATAATAATAATAA/GTAATAATA ATAATAATAATAATAA	TGTTGGGGTTTGAGG ATAA	CCTATGCCTACGACAT GCCT	60.1	519	INTERGENIC	--	--	--
Ca2_P2_3146125	Ca2	3146125	TAAAA/TAAA	TCGATTACGGGAATT CAAG	GCATTGCTGTGTGAAA ATGC	60.3	543	INTERGENIC	--	--	--
Ca2_P2_31511966	Ca2	31511966	T/TAATATATA	CAATTGAGTTGCGAGC AGAG	GCGACAGGAAGAAG ATGG	60.0	276	INTERGENIC	--	--	--
Ca2_P2_31534378	Ca2	31534378	CG/CGG	AGGAAAGCAACGTGAA CAGC	CCAAGACAGGCAAGA AAGC	60.0	519	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31534854	Ca2	31534854	TT/TTCT	GCTTCTTTGCCTGCT TGG	ACTTTGTCCACTGCCA AACC	60.0	331	INTERGENIC	--	--	--
Ca2_P2_3153753	Ca2	3153753	TATTAA/T	AGATGCGAGGGTGGAC ATAG	TCCAAGTTTTGAGGCT AGTGG	59.4	660	INTERGENIC	--	--	--
Ca2_P2_3154111	Ca2	3154111	A/AT	TTCGTCCTGTCATCCAA AAT	TTTGACGGTGAAAAAG TGATATG	59.0	975	INTERGENIC	--	--	--
Ca2_P2_31545554	Ca2	31545554	TC/T	AGAGGGACTAGCTACC CCGA	TGAGTGAAGCGAAATT ATTCCA	59.7	709	INTERGENIC	--	--	--
Ca2_P2_31550288	Ca2	31550288	CTTTTT/CTTTTTT	ACAAATATCCCATCCCA CGA	TGCACGTAAAATTGCC TAAAA	58.4	721	INTERGENIC	--	--	--
Ca2_P2_31552083	Ca2	31552083	A/AT	AATTTTCAATCGCGTC TCG	TCACCCAACTCAACCT GAGA	59.2	928	INTERGENIC	--	--	--
Ca2_P2_31556890	Ca2	31556890	TTGGCCTGGCCTGGCCT/TTGGCCTGG CCTGGCCTGGCCT	TTAAATAGGCTTCCAGG CCA	GACCTTGAGGTATTC GGGT	60.2	207	INTERGENIC	--	--	--
Ca2_P2_31559832	Ca2	31559832	CTATATATATATA/CTATATATATATATA	TTGCTCCAAATTGATCA CGA	TTGGACCAATTTGTG GCTT	60.3	678	INTERGENIC	--	--	--
Ca2_P2_31562756	Ca2	31562756	ACC/ACCC	CACTTAGGAATCCCCA CCA	AGCTTGAAACCCCTGA CCCT	60.1	476	INTERGENIC	--	--	--
Ca2_P2_3156648	Ca2	3156648	GTCT/GTCTCT	GGTCAGAACAAAGGGT TGGA	GTTTGTCCCTTCTAG GCCC	59.9	488	INTERGENIC	--	--	--
Ca2_P2_3158645	Ca2	3158645	AT/ATT	TTGCGACCCTATTTCCA AAC	TTCTTCATGCAACTTTT GCG	60.0	619	INTERGENIC	--	--	--
Ca2_P2_3158875	Ca2	3158875	GTATTATTATTATTAT/GTATTATTAT TATTATTATTAT	CGCAAAAGTTGCATGAA GAA	TCTAAGAAATTTGCCCC AATG	59.1	295	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_3159298	Ca2	3159298	ATTTTTTTT/ATTTTTTTT	CGCAAAAGTTGCATGAA GAA	TGCAGGACGGTCTAAC AATG	59.7	600	INTERGENIC	--	--	--
Ca2_P2_31593028	Ca2	31593028	AAACTTCAACTTCAACT/AAACTTCAACT	TCCTTCTGCCTCATTCT GCT	AGAAGCAGTTGCTGCA TTGA	59.7	535	DRR	Ca_17855	U	bHLH
Ca2_P2_31593870	Ca2	31593870	CAAAAA/CAAAAA	GCAGCAACTGCTTCTT GATG	CAATCGGTTTCGTTGT GATG	60.0	748	INTRON	Ca_17855	U	bHLH
Ca2_P2_31597025	Ca2	31597025	AATATATATATATATATATATATATAT ATATATATATAT/ATATATATATATATAT ATATATATATATATATATATAT	TCCTGTCCTTTGATCGG TTC	GCGCAACATGCAAGAA GTTA	60.0	251	INTERGENIC	--	--	--
Ca2_P2_31602924	Ca2	31602924	TATAATAATAAAT/TATAATAAAT	GGAAGCTCAGCAGCGGA ATAG	TCCACACGCGTATGTG TTTT	60.0	404	INTRON	Ca_17854	--	SAP
Ca2_P2_31613310	Ca2	31613310	GAAAAAAAA/GAAAAAAAA	TACTGGCAATCTCAAC CCC	TGAAAACACATCAACG GGA	59.9	557	INTERGENIC	--	--	--
Ca2_P2_31614676	Ca2	31614676	ATTTTTTTT/ATTTTTTTT	TGCAAATTTAGATTAG GGAGGA	TTGCATGGATGTAGTT GGGA	59.9	286	INTERGENIC	--	--	--
Ca2_P2_31616756	Ca2	31616756	AATATATATATAT/ATATATATATAT	GGCCCTCTTTTCTCGA ACT	GAAGCCCTATTTCAT GTGGT	60.2	524	INTERGENIC	--	--	--
Ca2_P2_3161786	Ca2	3161786	TTCTCTCTC/TTCTCTCTC	GCATTGCATGCATGTGT TTT	CGTGCGCAGTGTGAT GAAT	60.8	342	INTRON	Ca_10531	S	--
Ca2_P2_31619110	Ca2	31619110	AT/ATT	AAGACTCCCTCTCCTCT GGC	ACACCATCTGGCATT CTCC	59.9	667	INTERGENIC	--	--	--
Ca2_P2_3162145	Ca2	3162145	CAAAAA/CAAAAA	CTCTTGCTTCTCTCTCC CCC	GGCCTTCTGTGAGAAG CATT	59.4	788	INTRON	Ca_10531	S	--
Ca2_P2_31622713	Ca2	31622713	ATTT/ATTTT	TGGATCCAATAGCTTTC CTCA	GGACCTGGTGTAATT TGGA	59.6	976	DRR	Ca_17853	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31624008	Ca2	31624008	GATTAATTAATTAATTA/GATTAATTAAT TA	AAAGGGCACCACCTTT GTTG	TTGACATGTGATTGTAC TTTTTAATTG	58.6	645	INTERGENIC	--	--	--
Ca2_P2_31634009	Ca2	31634009	CAAA/CAA	GGGTGAAGGTGAAGAA GTGC	TTGGGCTTGATAAAAG TGGG	59.9	524	DRR	Ca_17852	--	--
Ca2_P2_31635582	Ca2	31635582	TAAAAAA/TAAAAAA	TTTCCATCTTCGTCTCA AATTAGT	TGAGAGATTTAATTTGG TCTTTGAA	58.4	527	INTRON	Ca_17852	--	--
Ca2_P2_31635915	Ca2	31635915	TCC/TCCC	AAAATATTTCCATCTTC GTCTCAAA	TCGACCATCTCATGAT GGAA	60.0	848	INTRON	Ca_17852	--	--
Ca2_P2_31637112	Ca2	31637112	TAA/TA	GGGGTGTGTGATGTGTC CTTT	GTGCCACAACAAGAAA ACCC	60.4	596	INTERGENIC	--	--	--
Ca2_P2_31648369	Ca2	31648369	AATAT/AATATCTCATATAT	TTCACGTTGGAACCTTG TTG	ACCCGTTGGAAGATGA AATG	59.8	897	INTERGENIC	--	--	--
Ca2_P2_31657254	Ca2	31657254	CTTTTTTTT/CTTTTTTTTT	GAACGTGGAAGAACTTC CATCA	GTTGGGAGGGTTCACT TCTG	59.5	570	INTERGENIC	--	--	--
Ca2_P2_3166305	Ca2	3166305	CTT/CTTT	CATGTTTTCAGCCCAAC AAA	TGTCGGGTATAAAGAT TGGTCA	59.3	190	INTERGENIC	--	--	--
Ca2_P2_3166543	Ca2	3166543	T/TA	CATGTTTTCAGCCCAAC AAA	TTCCGCACATCAACA CAAT	60.0	849	INTERGENIC	--	--	--
Ca2_P2_31670858	Ca2	31670858	CGTCGCTGTCGCTGTCGCTGTCGCTG/ CGTCGCTGTCGCTG	ACCGCCACCATTGTAG TCTC	CCGAGCCATCAAAAGA TGAT	60.0	434	CDS (large-effect mutations)	Ca_17848	--	--
Ca2_P2_31677553	Ca2	31677553	GAAAAAAA/GAAAAA	TTGAAAAGGCATCTTGC ACA	GCGCTATAAAGACGC GCTA	60.6	688	INTERGENIC	--	--	--
Ca2_P2_31677730	Ca2	31677730	TAAAAA/TAAAAA	TTGAAAAGGCATCTTGC ACA	GAGGGCGCTTCAGTTT ACAG	60.0	859	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31678452	Ca2	31678452	AAAAACAAATTTAA/AAAAACAAATTTAA AACAAATTTAA	CTGTAAACTGAAGCGC CCTC	TGGAAACCAAGGTCCA AGTC	59.9	560	INTERGENIC	--	--	--
Ca2_P2_31678680	Ca2	31678680	TC/T	GGAGCGCTTTAAACAC AAGC	TGGAAACCAAGGTCCA AGTC	59.9	517	INTERGENIC	--	--	--
Ca2_P2_3169411	Ca2	3169411	TTCT/TACTCT	TTGTCGGTTTAAACTTG TGTGC	TGACATCGATATGTATG GACTCG	59.9	536	INTERGENIC	--	--	--
Ca2_P2_31694754	Ca2	31694754	A/AAT	GCTTTTCATAAGAAGCG TTGTAA	AATTGAGCTTGTGTATG TGGA	58.2	305	INTERGENIC	--	--	--
Ca2_P2_3169671	Ca2	3169671	ATTTTTTT/ATTTTTTT	TTGTCGGTTTAAACTTG TGTGC	TTTTCCAAGGGATTTC ACTCT	59.1	892	INTERGENIC	--	--	--
Ca2_P2_31697056	Ca2	31697056	TTTT/TTTTTATTT	GTGTGCAGGTAAGGCT GACA	ATTGGCATTGGGTTG GATA	60.0	759	INTERGENIC	--	--	--
Ca2_P2_31697285	Ca2	31697285	TCC/TCCCC	TGCATTGGTAAAAGTGT GCC	ATTGGCATTGGGTTG GATA	60.0	380	INTERGENIC	--	--	--
Ca2_P2_31698036	Ca2	31698036	AATTATT/AATTATTATTATT	AAAATGGAAGGGCTTG GAGT	GGAAGGTTGAAAGAAG AGGGA	59.7	195	INTERGENIC	--	--	--
Ca2_P2_31713656	Ca2	31713656	TAAG/TAAGAAG	TCGGTTTCTCCTTCACC ATC	TTGTCAAACACGCAATC CAT	60.0	595	INTERGENIC	--	--	--
Ca2_P2_31713823	Ca2	31713823	TAAAAA/TAAAAA	TCGGTTTCTCCTTCACC ATC	TTGTCAAACACGCAATC CAT	60.0	595	INTERGENIC	--	--	--
Ca2_P2_31728640	Ca2	31728640	AT/ATT	GGAGGGTATAAATGAA GCAGCA	AACTTGGCGCAAAACA AAAG	60.3	486	INTERGENIC	--	--	--
Ca2_P2_31728994	Ca2	31728994	AATTTATATTTATATTTA/AATTTATATTT A	GCTATTCACCGAAAGG GACA	AACTTGGCGCAAAACA AAAG	60.3	429	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31736227	Ca2	31736227	T/TA	ACGTGAATCGTTGTG CCA	CCGGAAAAGGTTTGT ACAT	59.8	381	DRR	Ca_17845	--	--
Ca2_P2_31743852	Ca2	31743852	TAAAAAAA/TAAAAAAA	GAGGGCGCTTCAGTTT ACAG	TGTCTCGTTGCACCCC TAAT	60.5	695	DRR	Ca_17844	--	--
Ca2_P2_31745106	Ca2	31745106	TCTTCGTCTCCGTCACCTTCGTCTCCG TCACC/TCTTCGTCTCCGTCACCTTCGT CTCCGTCACCTTCGTCTCCGTCACC	TGTGTTCTCAACCTTG TCA	ATTGGCATTGGGTG GTTA	60.1	580	CDS (large-effect mutations)	Ca_17844	--	--
Ca2_P2_31746177	Ca2	31746177	AATAT/AATATAT	CGAGTTGTAAATTGG CTTCC	GGGGATGTGTATAAA GGGGA	59.9	914	INTERGENIC	--	--	--
Ca2_P2_31780888	Ca2	31780888	CTTTTTTTTT/CTTTTTTTTTT	TATTCCATGGCCAATTG TGA	CCCCCAACAGCTGATT AGAA	60.1	879	INTERGENIC	--	--	--
Ca2_P2_31781012	Ca2	31781012	TAAAAAAA/TAAAAAAA	CATGTTTGCCTTTTGA TCA	CCCCCAACAGCTGATT AGAA	60.1	805	INTERGENIC	--	--	--
Ca2_P2_31794099	Ca2	31794099	TAA/TAAA	TGTGTACGTGTGCATG GAAG	ATCCTTGGCCTTTTGG CTAT	59.9	247	INTRON	Ca_17840	--	--
Ca2_P2_31794560	Ca2	31794560	AATATA/AATA	ATAGCCAAAAGGCCAA GGAT	TGCTGCTTCATTCATA GCC	59.0	753	INTERGENIC	--	--	--
Ca2_P2_31794610	Ca2	31794610	GAAAAA/GAAAAAAA	ATAGCCAAAAGGCCAA GGAT	CTGGTCTGCACTTTCA GCG	59.6	804	INTERGENIC	--	--	--
Ca2_P2_31795221	Ca2	31795221	T/TC	CGCTGAAAGTGACAGA CCAG	TTCTTGCTTAGAACG TTTCTTG	60.0	627	INTERGENIC	--	--	--
Ca2_P2_31797437	Ca2	31797437	TAA/TA	ACAAAATCAAAACGCG GAA	CATTTGGTGCAAAATT GAA	59.4	108	INTERGENIC	--	--	--
Ca2_P2_31797941	Ca2	31797941	CATATATATATATATATATA/CATATA TATATATATATATATA	TTTGCCACCAATGTT CTG	AAAAACGCAACACCA CTCC	60.0	579	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca2_P2_31799043	Ca2	31799043	CTTTTTT/CTTTTTTT	AAATGTCAACGTGGCG TACA	GGTCCGTAAACGAGTT GTCC	59.5	320	INTERGENIC	--	--	--
Ca2_P2_31799253	Ca2	31799253	TAAAAA/TAAAAA	AAATGTCAACGTGGCG TACA	GCACGAGGATTGCTAT GTGA	59.8	832	INTERGENIC	--	--	--
Ca2_P2_31799508	Ca2	31799508	TATAATA/TATA	GACAACTCGTTTACGG ACCC	GCACGAGGATTGCTAT GTGA	59.8	531	INTERGENIC	--	--	--
Ca2_P2_31805812	Ca2	31805812	CATTATT/CATT	GTTACGCGCAAGATGT TTGA	AAGGCTGCAGCAATTT TCAT	59.9	344	INTERGENIC	--	--	--
Ca2_P2_31814386	Ca2	31814386	CAAAAAA/CAAAAAA	GGAGGCAACAACAAGG AGAG	CCATCTTTCAAGCCAAC TCC	59.7	685	INTRON	Ca_17839	--	--
Ca2_P2_31814697	Ca2	31814697	GAA/GCTGATAA	GGAGGCAACAACAAGG AGAG	GACGAGTTGCCATCCA TCTT	60.1	698	INTRON	Ca_17839	--	--
Ca2_P2_31828138	Ca2	31828138	AA/AACGGAAGTATAGCGTA	TTCGATTGGTGGACAT GAGA	GAAAGGTCATCCATT GTGG	60.2	892	INTRON	Ca_17836	--	MYB_related
Ca2_P2_31828278	Ca2	31828278	ATTGTT/ATTGTTGTT	AAAAATCGCCATTGTTT TGG	AAAAATAGGGAATCCG GTGC	60.2	510	INTRON	Ca_17836	--	MYB_related
Ca2_P2_31828392	Ca2	31828392	CTTTTTT/CTTTTTT	AAAAATCGCCATTGTTT TGG	AAAAATAGGGAATCCG GTGC	60.2	510	INTRON	Ca_17836	--	MYB_related
Ca2_P2_31828525	Ca2	31828525	A/AG	AAAAATCGCCATTGTTT TGG	AAAAATAGGGAATCCG GTGC	60.2	510	INTRON	Ca_17836	--	MYB_related
Ca2_P2_3183388	Ca2	3183388	ATTT/ATTTT	CTAGAAGAACCACGCC GAAG	TGGCTGTCTCTAACCT CCAGA	60.0	588	INTRON	Ca_10528	T	HD-ZIP
Ca2_P2_31834171	Ca2	31834171	CGG/CGGG	TCACGCTCTGAGCTTCT CAA	CGTATCGTTTAGCGGT CGTT	60.2	882	INTRON	Ca_17835	V	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31838256	Ca2	31838256	GTGCGGTG/GTGCGGTGGAATATGCG GTG	ACTTGACGATGGTTTT GGC	CTAACGCGAAACCA ACAT	60.0	393	DRR	Ca_17834	--	--
Ca2_P2_31842704	Ca2	31842704	ATTTTT/ATTTTT	GCAGTATCTGAAACAA CGACAA	TTTTTCGGGGTTTGA CAAC	59.8	661	INTERGENIC	--	--	--
Ca2_P2_3184404	Ca2	3184404	AAAA/AAAAATAA	TGCATATCCTTGTTG CCA	CTTCCATGGGCTGTGA GAAT	60.1	486	INTRON	Ca_10528	T	HD-ZIP
Ca2_P2_31846061	Ca2	31846061	TTTATTATTATTATTATTATTATT ATTATT/TTTATTATTATTATTATTAT TATTATTATTATTATT	GATTGGAGCACCATCC TCTC	TTTCGAGACAAACGTT CAACC	60.1	805	INTERGENIC	--	--	--
Ca2_P2_31846722	Ca2	31846722	GAA/GAAGAAATTA	TGGTTGGTTAGCCAAG TTTTG	GACAAGATCAGATGCA GCCA	60.0	472	INTERGENIC	--	--	--
Ca2_P2_31849042	Ca2	31849042	AAACAAATGAAC/AAAC	GACAAAATGGCACC ACTT	TCCTTGATCTTTTCCAT GGTATT	58.9	526	DRR	Ca_17833	--	--
Ca2_P2_31849105	Ca2	31849105	CTTTTT/CTTTTTTTTT	GACAAAATGGCACC ACTT	GAGATGCCACCTCTTG GTGT	60.1	709	DRR	Ca_17833	--	--
Ca2_P2_31851053	Ca2	31851053	CACCTCTACTTCTAC/CACCTCTAC	ATCCCTCTCTCTCAATG GCA	TCCATAGGTCCCACTG AACC	59.8	201	INTERGENIC	--	--	--
Ca2_P2_31851416	Ca2	31851416	A/AG	AAAATTGGCCCCAAC TAC	GAAGCAAGCATGCGAA TTTA	59.1	775	INTERGENIC	--	--	--
Ca2_P2_3185239	Ca2	3185239	AAGA/AA	GATGTTGGAGGGCACC TAGA	GTGAAGGAGGTTTGG AACA	59.9	661	INTRON	Ca_10528	T	HD-ZIP
Ca2_P2_31853436	Ca2	31853436	CTTTTT/CTTTTT	GGCCGATGCTAAATC AGTT	TTTAGGTGGGCTACG GTTG	60.0	503	INTERGENIC	--	--	--
Ca2_P2_31853745	Ca2	31853745	ATTT/ATTATTTTT	CAACCGTAGCCACCT AAAA	AATGCGCAAGAAAGT TTGG	60.2	610	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31853792	Ca2	31853792	AA/AAGA	CAACCGTAGCCACCT AAAA	AATGCGCAAAGAAAGT TTGG	60.2	610	INTERGENIC	--	--	--
Ca2_P2_3185412	Ca2	3185412	TT/TTGT	CTTCAGCCTGCACAAAT GAC	GTGAAGGAGGGTTTGG AACA	59.9	634	INTRON	Ca_10528	T	HD-ZIP
Ca2_P2_31854609	Ca2	31854609	ATTTTAAAT/A	GTGTTCCGCCTGATTTC ATT	TCAAGGAGAAAACACA ACCAAA	59.6	349	INTERGENIC	--	--	--
Ca2_P2_31857740	Ca2	31857740	TAAA/TAA	CAAACCTGTTACACTGA GAGTGCAT	CATGCTTTCTCTACCAC CTCAA	59.4	630	INTERGENIC	--	--	--
Ca2_P2_3185815	Ca2	3185815	GA/G	TGTTCCAAACCTCCTT CAC	CTTTGTGGAGACAAGA GCCC	59.8	360	INTRON	Ca_10528	T	HD-ZIP
Ca2_P2_31859055	Ca2	31859055	C/CCGGCTT	TCTCCCAAATTTGAAA AACA	AAATGAACCAAGCCAG ACTTTC	59.6	407	INTERGENIC	--	--	--
Ca2_P2_31861522	Ca2	31861522	ATTTT/ATTT	TTGCAAAATGCTTGAGA GAAAA	ATGGCCTATGCCAATG AAAC	59.8	459	INTERGENIC	--	--	--
Ca2_P2_31871335	Ca2	31871335	CTATATATATATA/CTATATATATA	ATGGGTCAAAATGGGT GTGT	AGGCTGATTCAAACCC TGTG	60.1	290	INTRON	Ca_17832	--	FAR1
Ca2_P2_31871724	Ca2	31871724	GTATATATATATATATA/GTATATATA TATATATATATA	CACAGGGTTTGAATCA GCCT	AAGCACAACTTGGTGG AAGG	60.1	554	DRR	Ca_17832	--	FAR1
Ca2_P2_3188198	Ca2	3188198	TTAAT/TT	GAGGGATGCATTTTCT GAGC	AAGTGACTTTCGTGAG ACGGA	59.9	313	INTERGENIC	--	--	--
Ca2_P2_31882952	Ca2	31882952	CTTTATTTATTTAT/CTTTATTTATTTAT TAT	TTTCTGGTGGGATCAG CTCT	GACATCCTGCGCCAGT TATT	60.1	591	INTRON	Ca_17830	D	LBD
Ca2_P2_31883010	Ca2	31883010	AAGAG/AAG	TTTCTGGTGGGATCAG CTCT	GACATCCTGCGCCAGT TATT	60.1	591	INTRON	Ca_17830	D	LBD

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFS
Ca2_P2_31883642	Ca2	31883642	TAA/TAAA	AATAACTGGCGCAGGA TGTC	TAAAGATGGCACCAGG AAGG	60.1	632	INTRON	Ca_17830	D	LBD
Ca2_P2_31884266	Ca2	31884266	GATAT/GAT	TAGCGCCAAGATTTC GCTT	TGAAGGAAGCAAAAGT GGCT	60.0	506	INTRON	Ca_17830	D	LBD
Ca2_P2_3189167	Ca2	3189167	A/AATT	GAAGTTTACGGATCTCC GGTC	TCTCTTCCCCAAAAATT CAGA	58.7	652	INTERGENIC	--	--	--
Ca2_P2_31892669	Ca2	31892669	GAAAAAA/GAAAAAAA	TTTTGGTCTGTGAATCT GCG	TTCTACCCAAGAAAAACA TGCG	60.1	781	INTERGENIC	--	--	--
Ca2_P2_31892832	Ca2	31892832	TC/T	CATTGGTCGGTCAAAA GAAA	TTCTACCCAAGAAAAACA TGCG	60.1	473	INTERGENIC	--	--	--
Ca2_P2_31892912	Ca2	31892912	GAAAAAA/GAAAAAAA	CATTGGTCGGTCAAAA GAAA	TTCTACCCAAGAAAAACA TGCG	60.1	473	DRR	Ca_17828	I	C3H
Ca2_P2_31893581	Ca2	31893581	ATTTTTTTT/ATTTTTTT	CCTTCCCTTAAGTGGG GGTA	TTTATATTGGTCGGT CGGA	60.1	308	DRR	Ca_17828	I	C3H
Ca2_P2_3189476	Ca2	3189476	GTTAAAA/GTTAAAAATTAAAA	TGTGTAGTGTTCGAATT TTTGC	CGGGGGATGTAGAATC TTTG	59.4	498	INTERGENIC	--	--	--
Ca2_P2_31896861	Ca2	31896861	GAAAAAA/GAAAAAAA	TGCAACCAATGTTCCCT ACA	CTTAGAAGAGTGCATC CGCC	60.0	326	INTRON	Ca_17828	I	C3H
Ca2_P2_31901464	Ca2	31901464	TAA/TAAA	TTCCAACACAGACCCG TCC	TGGAAGCTGGTACACA ACCA	60.2	689	INTERGENIC	--	--	--
Ca2_P2_31901515	Ca2	31901515	TAA/TAAA	TCCGAAGCACACAGA ATTA	TGGAAGCTGGTACACA ACCA	60.2	566	INTERGENIC	--	--	--
Ca2_P2_31902363	Ca2	31902363	GCATGT/GCATGTTACATGT	AGGCTCATTTTCCTCCG ACT	CCAACCACTACGACTC ACCA	59.6	536	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31902708	Ca2	31902708	TACTGA/TACTGACTGA	TGGTGAGTCGTAGTGG TTGG	CTGGTAAGAAGGGGTG ACCA	60.0	268	DRR	Ca_17827	--	C3H
Ca2_P2_31903942	Ca2	31903942	GGTAT/GGTATTAGTAT	CATCAGTCTTTGGGGC AAGT	AAAGGCTTTGGTGGTT TTCA	59.6	445	DRR	Ca_17827	--	C3H
Ca2_P2_31905149	Ca2	31905149	CTAATTAAT/CTAAT	AATAAGGTGGTTTGGG GGAG	GGTATTCGTTGCGTCA TG TG	60.0	450	INTRON	Ca_17827	--	C3H
Ca2_P2_31905190	Ca2	31905190	ATTTT/ATTTT	AATAAGGTGGTTTGGG GGAG	GGTATTCGTTGCGTCA TG TG	60.0	450	INTRON	Ca_17827	--	C3H
Ca2_P2_31905735	Ca2	31905735	CTACTATACT/CTACTATACTATACT CT	TTCCAACGGTGAAAACA ACA	CGATATAGGGTTGGTT TGCG	60.3	207	DRR	Ca_17826	O	--
Ca2_P2_31905894	Ca2	31905894	GAAAAA/GAAAAA	CACATGACGCAACGAA TACC	TTTGAAGGCCACGATT TATTT	58.6	512	DRR	Ca_17826	O	--
Ca2_P2_31905921	Ca2	31905921	TAAAAA/TAAAAA	CACATGACGCAACGAA TACC	TGATAGTATTTGAAGG CCACGA	59.6	520	DRR	Ca_17826	O	--
Ca2_P2_31907449	Ca2	31907449	CTT/CTTT	CGGTGACGGAGTTCAA GATT	CTGACCGTCCAAAGGA GGTA	60.1	531	INTRON	Ca_17826	O	--
Ca2_P2_31912393	Ca2	31912393	TTATCTA/TTATCTATCTA	TGAGAAATCTCCATCCC CAG	CGCATCCTTGACAACT CTGA	60.0	650	INTRON	Ca_17826	O	--
Ca2_P2_31916232	Ca2	31916232	C/CG	TTTGCCCAAGAACAAGA ACC	AAAAGGGGAACCCTT TGTG	60.2	463	DRR	Ca_17825	O	--
Ca2_P2_31920016	Ca2	31920016	AATTATAATCAATTAT/AATTATAATCAA TTATTATAATCAATTAT	TTCAGAAGAAGGAAACA GCACA	GATCCACAAAATTGGTT TTTCA	58.8	877	INTERGENIC	--	--	--
Ca2_P2_31921460	Ca2	31921460	TA/TAA	GGAAAGTCAAACCTCTTA AATGGGA	TCTGTATCGCATGGTT GCTT	59.3	533	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31922902	Ca2	31922902	CATA/CATATATA	AAAGGTGTTGGGATTG TCATT	GCTTGTTATGGCTTGA TCACC	59.6	394	INTERGENIC	--	--	--
Ca2_P2_31924149	Ca2	31924149	TAA/TA	TGCAAGCATTCTTCGTT CTG	TCGGTATCGATTCCAA CCAT	60.2	515	INTERGENIC	--	--	--
Ca2_P2_31924611	Ca2	31924611	ATAATTTTGCT/AT	TACCTTGC GTTGGAT GTT	GAAGGTTAGGGAGGCT GGTC	60.1	523	INTERGENIC	--	--	--
Ca2_P2_31925279	Ca2	31925279	GTTTTTTTTT/GTTTTTTTTT	GACCAGCCTCCCTAAC CTTC	TGTTGCCGATAGACCA TGAA	60.1	538	INTERGENIC	--	--	--
Ca2_P2_31926359	Ca2	31926359	CTTTTTTTTTTTTT/CTTTTTTTTTTT	GTGGGAGATGCAATCC AAGT	TTGCTGAGTTTCGTTTG GTT	58.4	848	DRR	Ca_17824	--	ERF
Ca2_P2_31930201	Ca2	31930201	AATTATTATTATTATTGTTATTATTATA/ AATTATTATTATTATTGTTATTATTATA TTA	CGACCTCCCAAGGAT TTTT	TGTCGTTATGAGGAATT TACCG	59.0	444	INTERGENIC	--	--	--
Ca2_P2_31931300	Ca2	31931300	T/TAA	TCGTAACGCAAATTTTC CAA	TCCATCTCCAATTTGT TTTCA	59.4	377	INTERGENIC	--	--	--
Ca2_P2_31937123	Ca2	31937123	T/TG	TTGAACCCAAGACTTTG TAATGAA	GGTTAAAGACGTAACA AGAAAAACG	59.6	614	INTERGENIC	--	--	--
Ca2_P2_31937481	Ca2	31937481	TTTC/T	AATGCCATATTGGATT TGTTAC	TCCGATCGTTCAAATTT TCC	59.9	661	INTERGENIC	--	--	--
Ca2_P2_31939044	Ca2	31939044	ATTTTTTTT/ATTTTTTTT	ATCACCATTGCAAAGCAA CGA	TGTAATCACGGTTTGG GTTTT	59.2	586	DRR	Ca_17823	R	C3H
Ca2_P2_31939650	Ca2	31939650	CAAAAAAAAA/CAAAAAAAAAA	GACCCCAAGAGAGAAA AGGG	TTTTGGCCATTCCTCAG AAC	60.1	482	DRR	Ca_17823	R	C3H
Ca2_P2_31943060	Ca2	31943060	TTTGT/TT	AGGCAGAGATTGAGCC GTAA	TATGCTTGATCGCACAT GGT	60.1	494	INTRON	Ca_17823	R	C3H

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_31944652	Ca2	31944652	T/TC	TCCACGTGGCAACTCA AATA	TGAAATTTGGAGTCGT ACCCT	58.6	834	INTERGENIC	--	--	--
Ca2_P2_31945382	Ca2	31945382	AAT/A	AGGGTACGACTCCAAA TTTCA	TTCTTTTAGCCTTCCAT GTG	57.8	600	INTERGENIC	--	--	--
Ca2_P2_31945753	Ca2	31945753	TAT/TATTTAAT	CACATGGAAGGCTAAA GGAA	TTGAGTACCAAGGCAT TGACC	60.0	614	INTERGENIC	--	--	--
Ca2_P2_31945989	Ca2	31945989	ATTTTTTTTT/ATTTTTTT	CACATGGAAGGCTAAA GGAA	CCACAAGTGTGGATGA CAGG	60.0	838	INTERGENIC	--	--	--
Ca2_P2_31950497	Ca2	31950497	CTTT/CTTTT	AACAAAAGGCCATAGC CAA	CACTAGCGTGCAGTT TATCTG	60.1	821	INTERGENIC	--	--	--
Ca2_P2_31950818	Ca2	31950818	GTTATAC/GTTATACGAAATAAATTATA C	CCAATTAATAAGTTAGC GGGTGA	TGTGTGAGGAGGACAA CAAAA	59.2	870	INTERGENIC	--	--	--
Ca2_P2_31958606	Ca2	31958606	AT/ATGTT	ACGTTGTCGGACATTCA TCA	TTGCAACTGACTTGAAT CCG	59.8	606	INTERGENIC	--	--	--
Ca2_P2_31963928	Ca2	31963928	GTAATT/GTAATTACTT	CCTCGAGAAACCCAGC TAGA	GCATTCATGAGTTTGC CCTT	60.1	187	INTERGENIC	--	--	--
Ca2_P2_31964265	Ca2	31964265	TG/T	AAGGGCAAACATCATGA ATGC	GGTGTGACAAAGGAAA CGTG	59.0	674	INTERGENIC	--	--	--
Ca2_P2_31964495	Ca2	31964495	G/GA	AAGGGCAAACATCATGA ATGC	TTGATGGTCACCTTTGT TGC	59.5	792	INTERGENIC	--	--	--
Ca2_P2_31973893	Ca2	31973893	TGTTTCTACAGCTACAACAGTTTCTACA GCTACAACA/TGTTTCTACAGCTACAAC A	TTTCAAAGACCGAGTTG GAGA	TGTCCATTCAAATACG GCA	59.9	327	INTERGENIC	--	--	--
Ca2_P2_31979574	Ca2	31979574	ACC/A	TATGGGGAATAGGTGG TGGA	GGGGAAGGGAAATTTG AGAG	59.9	323	DRR	Ca_17820	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca2_P2_31981326	Ca2	31981326	AT/ATTT	ACGTTGTGTGGACAAT GAGG	TCCGGAGGGTTTTCT ACCT	59.9	353	INTERGENIC	--	--	--
Ca2_P2_31991643	Ca2	31991643	ATTTTTTTTT/ATTTTTTTTTTTT	TGGTCAATGAAATTC GGT	GGTTGTGTGTTTCCAT CCC	60.1	230	INTERGENIC	--	--	--
Ca2_P2_3199733	Ca2	3199733	T/TATGG	GAGCATGTGTTGGTGA ATGG	TCACCGGAGGTTAGAT CTCG	60.2	309	INTERGENIC	--	--	--
Ca2_P2_3199849	Ca2	3199849	TT/TTATTATTAGT	GAGCATGTGTTGGTGA ATGG	TCACCGGAGGTTAGAT CTCG	60.2	309	INTERGENIC	--	--	--
Ca2_P2_3199930	Ca2	3199930	TCCGG/TCCGGCCGG	GAGCATGTGTTGGTGA ATGG	AATTTTATTTGAGACAC GTGAA	57.9	691	INTERGENIC	--	--	--
Ca2_P2_32000117	Ca2	32000117	TC/T	TAAGTTGGGATTGAGC CACA	TCAATGAAGGTGCATT GGT	59.0	596	INTERGENIC	--	--	--
Ca2_P2_3200285	Ca2	3200285	TCA/T	CGAGATCTAACCTCCG GTGA	TTGATGCATGCTGCTA CAAAT	59.3	811	DRR	Ca_10527	K	HD-ZIP
Ca2_P2_3200442	Ca2	3200442	CAT/CATAT	GGAGTTGAATTAGCCT CTTTATCC	TTGATGCATGCTGCTA CAAAT	59.3	503	DRR	Ca_10527	K	HD-ZIP
Ca2_P2_3200504	Ca2	3200504	AA/AAAAAGATA	CATTTCCTGATTTAGA TTATGC	AATTGAAGGAAACATT GCCA	59.4	511	DRR	Ca_10527	K	HD-ZIP
Ca2_P2_3200632	Ca2	3200632	CAATT/CAATTAATT	AAGGAGTATCAACCAA ACAGAGG	AATTGAAGGAAACATT GCCA	59.4	423	DRR	Ca_10527	K	HD-ZIP
Ca2_P2_32008641	Ca2	32008641	GAATTAATTT/GAATTAATTTATAAA TTAATTTT	TTTTGTTTCAGAGACG TTTTG	CACCAACGCAACTTGA CATC	60.2	731	INTERGENIC	--	--	--
Ca2_P2_3201185	Ca2	3201185	ATTTTTTTTT/ATTTTTTTTTT	TTTGCAATGTTTCCT TCA	GAGTGGGGTTGGAG GTAGT	60.2	405	DRR	Ca_10527	K	HD-ZIP

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_3201946	Ca2	3201946	ATTTTTT/ATTTTTTT	ATGATTCCAAAGCACCA ACA	GGGATTGCTTTGAAA TGGA	59.9	908	DRR	Ca_10527	K	HD-ZIP
Ca2_P2_32024632	Ca2	32024632	AC/ACC	GCATCAAACCAACCTTA ATCG	CACATCACTCGCTCAAT GCT	60.0	516	INTERGENIC	--	--	--
Ca2_P2_3203039	Ca2	3203039	AT/A	TGGATTCTGACACTGC CAC	ATGCTCTTCCCTGTCTC CAA	59.8	348	INTRON	Ca_10527	K	HD-ZIP
Ca2_P2_32034535	Ca2	32034535	AATATATA/AATATATATATATATA	CGGTGTTGAAGATGGG AAAT	GCACTTTTGAAGGCTG AAGG	60.0	874	INTRON	Ca_17818	R	--
Ca2_P2_3204387	Ca2	3204387	T/TATATATA	AAAGTGCACCACTAC CACC	ACTCCTTCCCTTCCTT CCA	60.0	502	INTRON	Ca_10527	K	HD-ZIP
Ca2_P2_32046007	Ca2	32046007	AATAACATTATAACATTAT/AATAACATT AT	CAATTGGCGGACATTAA AAA	AGAATGTGTCTCGTGC GTTG	59.9	803	INTERGENIC	--	--	--
Ca2_P2_32048288	Ca2	32048288	AC/A	CCAAATCGAACTCTCTC CTCA	CGTGATGCACCGATAA ATTG	60.0	634	DRR	Ca_17817	R	--
Ca2_P2_32054569	Ca2	32054569	CATCATTAT/CATCATTATCATTAT	TGATGACATGTCGTAAT GGGA	GGGCATTCAAATTTTC TATCG	59.8	809	INTERGENIC	--	--	--
Ca2_P2_3205849	Ca2	3205849	TC/T	ATTGTGGAGACATAACC GCC	ACATCGAGACGTACGG GAAA	60.5	284	INTERGENIC	--	--	--
Ca2_P2_32060578	Ca2	32060578	CATATATAT/CATATAT	TTGACGCTGAAAATCCA TCA	CCATCTCGTTCCATTG AGG	60.5	498	INTRON	Ca_17816	R	--
Ca2_P2_32061716	Ca2	32061716	A/AG	GGTTCTGCCTTGCAAA GAT	TGCCATTCTTGTGCTT CTG	60.0	640	INTRON	Ca_17816	R	--
Ca2_P2_32080788	Ca2	32080788	TAAAAAAAAAAAAA/TAAAAAAAAA	TGTGCATTAAAGATGCT CTTGG	AAGCGTTGAAACCACT GTGA	59.3	441	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_32081128	Ca2	32081128	GTTT/GTT	TCAGCTGGTGCAAAC AAAG	CCCTTCATCTCTACTCA CCTGG	60.1	226	INTERGENIC	--	--	--
Ca2_P2_32088009	Ca2	32088009	TTAATAATAATAATAATAATAATA/TT AATAATAATAATAATAATAATAATA	TCAGCAAGCAAGCATT TGG	ATGGGGAACGTTGACA GAAG	60.0	605	INTERGENIC	--	--	--
Ca2_P2_32095647	Ca2	32095647	T/TCACACGTGAC	TTGCTTAAACCACATGT TTTCATA	GCCATAAACGTTGCA AGCA	59.7	623	INTERGENIC	--	--	--
Ca2_P2_32102387	Ca2	32102387	TAAA/TAAAAAAA	TTCCAAACGGAATCCAT CAT	TGTGGTCTTCCTTTGG CACT	60.7	308	INTERGENIC	--	--	--
Ca2_P2_32109642	Ca2	32109642	TGAG/TGAGAG	TGGTTGCCTCCTTAGTT TGG	GTTTGCTTCTTGAAGG GTGC	59.9	504	INTERGENIC	--	--	--
Ca2_P2_32112721	Ca2	32112721	T/TAAA	TTGCTTTCTATGCCA CCC	TAAAGGACATGTGCAA ACGC	59.7	508	INTERGENIC	--	--	--
Ca2_P2_32117375	Ca2	32117375	CGG/CTGAGGAAGG	GGACGTGGGTAACATA AACCAT	TTCTAGAGGCGAGTAA GTAGAAAAA	59.1	644	INTERGENIC	--	--	--
Ca2_P2_32127033	Ca2	32127033	TGC/TGCGC	TGCAAGTTGTGATGGG TTGT	TGCTGTCTGCACGG AGTC	60.0	650	INTRON	Ca_17812	O	--
Ca2_P2_32130215	Ca2	32130215	ATTGAA/ATTGAATTTGAATTTGAA	CCGGGTCAGTTTCCTT CTTT	ACTCCACCACTTCCAA TGC	60.0	388	INTRON	Ca_17811	J	--
Ca2_P2_32137242	Ca2	32137242	ATT/ATTT	GTGTGAAAGTCTCTGC CTGT	CCCCTGCTACTCCTCT GACA	60.4	390	INTRON	Ca_17809	J	--
Ca2_P2_32145004	Ca2	32145004	TA/TACA	GGCCTTCAAAATTCAT GAGA	TGGATACCTAGCACCT TAGCAA	58.9	598	INTRON	Ca_17808	--	G2-like
Ca2_P2_32146442	Ca2	32146442	AT/ATT	ATTCACGCGCACTTAG ATG	CACTGTCACAGAGATA AGATGCAA	59.4	807	INTRON	Ca_17808	--	G2-like

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFS
Ca2_P2_32154593	Ca2	32154593	GGT/GGTTATATGT	ATTCGAAAAAGGCATT TGA	GAAGCTTGGCTTTGGT TGTC	59.9	691	INTERGENIC	--	--	--
Ca2_P2_32161753	Ca2	32161753	TCCCC/TCCC	AGGCCATTAAGCATGA CACC	TTCTTGAACCCCTGCA TACC	59.9	867	INTERGENIC	--	--	--
Ca2_P2_32161954	Ca2	32161954	ATTTT/ATT	GTCCCCAGACTTGGCT GTAA	AAACATTTGCGGTTTCT TGG	60.0	638	INTERGENIC	--	--	--
Ca2_P2_32163428	Ca2	32163428	CATA/CATATATATATA	TCAAAGAGACATGATT TGCCA	GGTCAATCAGCTGTGA GCAA	60.0	415	INTERGENIC	--	--	--
Ca2_P2_32168741	Ca2	32168741	ATA/ATAGTAAATTA	CCTGGCCATTGTTCCCT AGA	AAATGAGTAGATGGTG CAACGA	59.6	687	INTERGENIC	--	--	--
Ca2_P2_32173774	Ca2	32173774	TC/T	ATGTTTTGATTGGGGCT TTG	TAAATCAGCCCTTTGG TGG	59.9	631	DRR	Ca_17806	--	WRKY
Ca2_P2_32179090	Ca2	32179090	TATTATAAAATAAATTATAAAATAA/TATT ATAAAATAA	CGACATTATGAGTGAT TAGGTGG	CAACAATTTCTCATGCT CGC	59.4	292	INTERGENIC	--	--	--
Ca2_P2_32182829	Ca2	32182829	GATATATATATATATATATATATATATATAT ATATATATA/GATATATATATATATATATAT ATATATATATATATA	TGAAATTCTGAATGGTG GGAG	TGACTAACCTTTGTGCG GTCG	59.9	886	INTERGENIC	--	--	--
Ca2_P2_32203826	Ca2	32203826	GATATATATATATATATATATA/GATA TATATATATATATATATA	GGGCAATTCCTGCAATT TTA	GATGCACCGAATAAGG AAGC	59.7	390	INTRON	Ca_10295	--	G2-like
Ca2_P2_32209131	Ca2	32209131	T/TG	GCAAAGATAGACACCA CCCC	AACATTCCCATGGAA CAAA	60.0	577	INTERGENIC	--	--	--
Ca2_P2_32209334	Ca2	32209334	CTATATATA/CTATA	TCCATGGGAATGGTTTT GAT	TTGAAGAGGAAGTTTT GGCA	58.5	342	INTERGENIC	--	--	--
Ca2_P2_32209671	Ca2	32209671	TC/TCC	TCCATGGGAATGGTTTT GAT	TTTGTAGTGCACCAAT GTCAA	59.1	899	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_32210099	Ca2	32210099	CA/CAATA	TCAGCTTCAATTATCTC CAACAA	TCGGCGACAAAAATCA CATA	60.1	644	INTERGENIC	--	--	--
Ca2_P2_32210241	Ca2	32210241	TA/T	TGACATTGGTGCACT AAAAA	CCACGTCATCTTCTTT GGT	60.0	505	INTERGENIC	--	--	--
Ca2_P2_32211970	Ca2	32211970	A/AG	ATGGAATTCTGAATGGT GGG	AAAACCACAAATGGG GTCA	60.1	763	INTERGENIC	--	--	--
Ca2_P2_32213171	Ca2	32213171	GTGAT/GTGATGAT	CAACATGACAAGGACTT TCCAA	TTACCGGTATCGCAAG GAAC	60.0	529	INTERGENIC	--	--	--
Ca2_P2_32213424	Ca2	32213424	CAAA/CAAAA	AGGGATAGATAACGGC ACGA	AAGGCCCTGCTAGAAT GATG	59.3	504	INTERGENIC	--	--	--
Ca2_P2_32234513	Ca2	32234513	AAAATTTGA/AAAATTTGAATTAAATTTG A	TCGCATCCGTATTGTT TTT	TAACCCGGTTTATCCAA TCG	59.7	778	INTERGENIC	--	--	--
Ca2_P2_32236823	Ca2	32236823	TATTTGA/TATTTGAATTTGA	TTCGGGTTAAACAAAGT GCC	CCCCAGCATCAAGAAA AAGA	60.2	482	INTRON	Ca_10293	--	--
Ca2_P2_32240359	Ca2	32240359	TAAGAAA/TAA	GGCGTCTTAAGCAAGG TGTC	CTGAGGGTGACGTCTC ACAA	59.9	525	DRR	Ca_10293	--	--
Ca2_P2_32241009	Ca2	32241009	GAAAAAAAAAAAA/GAAAAAAAAA	TGAGACGTCACCTCA GTTG	GAGGCCAAAGTGCCAA TATG	59.4	568	DRR	Ca_10293	--	--
Ca2_P2_32241156	Ca2	32241156	TA/TAA	TTCATCGAATAACGAGA TGGG	TGCTTGCCAATTCATGT CTC	59.8	711	DRR	Ca_10293	--	--
Ca2_P2_32241234	Ca2	32241234	AATATATATATATAT/AATATATATATA TAT	CATATTGGACCTTTGGC CTC	TGCTTGCCAATTCATGT CTC	59.8	434	DRR	Ca_10293	--	--
Ca2_P2_32243132	Ca2	32243132	TCAA/TCAACAA	TCTGAGGGGATTCGTT ATGC	TCCATAACTCTTGCCAA CCC	59.9	524	CDS (large-effect mutations)	Ca_10292	--	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca2_P2_32244010	Ca2	32244010	GTTTT/GTTTT	CCTTGGTCATTGTGCTG	CGGAAAAACATGAAGG GAAA	59.9	397	DRR	Ca_10292	--	bHLH
Ca2_P2_32245556	Ca2	32245556	TTAAGTGGGTAAT/TT	GCCAAAATTAACATTG GAAACA	CATGCAATCTTTTGTCTG GTTT	60.0	298	DRR	Ca_10292	--	bHLH
Ca2_P2_32245950	Ca2	32245950	TA/TAGA	AACCGACAAAAGATTGC ATGT	GCAGTTGCACAAGGTG GTAA	59.8	586	INTERGENIC	--	--	--
Ca2_P2_32246591	Ca2	32246591	AAACCAACCA/AAACCA	TACCACCTTGTGCAACT GCT	TGTGGTATGTGCCAAA TGGT	59.7	604	INTERGENIC	--	--	--
Ca2_P2_32249149	Ca2	32249149	ATGTG/ATG	GCTTTGGTCACTTGCT GACA	TTGTTGAAACCAGCAAT GGA	60.1	472	INTRON	Ca_10291	E	C3H
Ca2_P2_32252298	Ca2	32252298	CATTAAATAA/CATTAAATAATTAAATA A	CCGAGGAGGGATTTT CTTC	TGTATGTCCGTGGGT TTTT	57.9	695	INTERGENIC	--	--	--
Ca2_P2_32255815	Ca2	32255815	T/TTA	TTGATTATTTTGGCCCC GTA	CGTTGCTCTTGTGGTA AACG	59.4	379	DRR	Ca_10289	K	TALE
Ca2_P2_32260922	Ca2	32260922	ATACACATGTA/ATA	TGTTGTTTCCTCCAAAC CCT	TTTACCTTCTTTCCG GGG	60.3	157	INTERGENIC	--	--	--
Ca2_P2_32268747	Ca2	32268747	GAAAA/GAAAAA	CATGCTGCCTCCTTAG GTGT	TGGGGAGCTTTTCATC AATC	60.0	775	INTERGENIC	--	--	--
Ca2_P2_32282292	Ca2	32282292	CATTAGTGATT/CATTAGTGATTAGTGA TT	ACCCTCCAGGGTGCTA AGAT	GCCAAACATTTTCTGTT GCT	60.1	726	INTRON	Ca_10287	S	--
Ca2_P2_32291118	Ca2	32291118	AG/A	TGTGCCAATAATTTGGT TGC	AAAGCTTTGAGGCAT GCTA	60.0	532	INTERGENIC	--	--	--
Ca2_P2_32293632	Ca2	32293632	AAGAAATTCAGAAATTC/AAGAAATTC AGAAATTCAGAAATTC	AAACCTACGAAGTTTG GCA	TTGTCACCCGTCCTCAA TACA	59.8	237	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_32324833	Ca2	32324833	TAAAAAAAAA/TAAAAAAAAA	CCGAGAAGTTACCAAT TGTTTG	TGAATGGCCGTTTCTA TGG	60.8	694	INTERGENIC	--	--	--
Ca2_P2_32324896	Ca2	32324896	ATTTTTTTTT/ATTTTTTTTT	CCGAGAAGTTACCAAT TGTTTG	TATTACCACGCGAAAC ACGA	60.1	896	INTERGENIC	--	--	--
Ca2_P2_32327172	Ca2	32327172	CT/CTAT	GTCACGCCACCGTTA GTAT	GCACCGATAGTGAAGG GAAA	60.1	358	INTRON	Ca_10285	R	--
Ca2_P2_32327707	Ca2	32327707	GT/GTAATGATAT	TTTCCTTCACTATCGG TGC	CAAATTTGCAATTGTGC CTG	60.1	660	DRR	Ca_10285	R	--
Ca2_P2_32332253	Ca2	32332253	CTTTTTTTTT/CTTTTTTTTT	TTGCAAAATTGTTGAAG AAAGG	TCGTCGTAAATTGCG ACAC	59.7	480	INTERGENIC	--	--	--
Ca2_P2_32332565	Ca2	32332565	AAAATAAATAAATA/AAAATAAATA AATAAATAAATA	CGCCAAAGTCATTGATT GAA	CATCTTGCAGCCATA GCCA	59.8	338	INTERGENIC	--	--	--
Ca2_P2_32340350	Ca2	32340350	TGG/TG	TCCATTCAATGCTTTCA AATTC	TTGTGGTCATTTAAGGT GGTTG	59.8	530	INTERGENIC	--	--	--
Ca2_P2_32341023	Ca2	32341023	GAAT/GAATGTTAAAT	CAACCACCTTAAATGAC CACAA	AAAAACAATGTCATGCA GAGG	57.7	682	INTERGENIC	--	--	--
Ca2_P2_32348102	Ca2	32348102	GTTTTTTTTT/GTTTTTTTTT	GCAGTTGTCAAGAAC CTCA	TCGCTGACCCAAATAT CTCC	60.0	629	INTRON	Ca_10283	--	--
Ca2_P2_32349769	Ca2	32349769	GTTTTTTTTT/GTTTTTTTTTTTTTTTT	AAGTTGGAGGCTCAAA AGCA	AAAATTGCAATGCACA CCA	60.0	661	INTRON	Ca_10283	--	--
Ca2_P2_32349885	Ca2	32349885	ATGT/ATGTGT	AAGTTGGAGGCTCAAA AGCA	AAAATTGCAATGCACA CCA	60.0	661	INTRON	Ca_10283	--	--
Ca2_P2_32349934	Ca2	32349934	CAAAA/CAA	ATTCTGACGCCTCTTGC ACT	AAAATTGCAATGCACA CCA	60.0	390	INTRON	Ca_10283	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_32353326	Ca2	32353326	G/GA	GAACGACAACAATTCC CCT	CAATGGATTCTTTGGC CTT	59.0	513	DRR	Ca_10283	--	--
Ca2_P2_32353407	Ca2	32353407	TGAAC/T	GAACGACAACAATTCC CCT	CAATGGATTCTTTGGC CTT	59.0	513	DRR	Ca_10283	--	--
Ca2_P2_32357617	Ca2	32357617	CTTT/CTTTT	TCCCAACTCTCGAAAT CGT	TTGGATGATAGACATT GAAATTTTG	59.3	367	INTERGENIC	--	--	--
Ca2_P2_32358261	Ca2	32358261	CAAAAAA/CAAAAAA	TCAAAATTTCAATGTCT ATCATCCA	GCGAGGATGAGAAGTT GTTGT	59.3	658	INTERGENIC	--	--	--
Ca2_P2_32359800	Ca2	32359800	TAGA/T	TTGATGAGTTCGGTCAT GGA	AGCCGCTTAATTGATC GTTG	60.2	195	INTERGENIC	--	--	--
Ca2_P2_32362657	Ca2	32362657	TAAAAAA/TAAAAAAA	GCAAAAGCACACCAAA TCA	AATGACCACAATTGCA TTGA	58.9	260	INTERGENIC	--	--	--
Ca2_P2_32366586	Ca2	32366586	TATTA/T	GCCAAAATTCAAAGAT CGTG	GCTTGGCAACATTCTT CACA	59.8	385	INTERGENIC	--	--	--
Ca2_P2_32369826	Ca2	32369826	CT/CTCGT	TGGTTTCAAGTCTTCC ACA	GAAAAGTTAAATCCAA AATAACATTG	57.2	794	INTERGENIC	--	--	--
Ca2_P2_32369843	Ca2	32369843	ATTTTTTTT/ATTTTTTTT	TGGTTTCAAGTCTTCC ACA	TGTTTGTGCAATTGAAT TATAGTTATG	58.6	933	INTERGENIC	--	--	--
Ca2_P2_32370223	Ca2	32370223	AAAAAATTAATGAAAAATTAATGAAAAA TTAA/AAAAAATTAATGAAAAATTAA	TCAAGCAAGTCACAACA TTTCA	TGCTATTTTAATTGTGA GCATGAGA	60.2	637	INTERGENIC	--	--	--
Ca2_P2_32373466	Ca2	32373466	TAAGA/TAAGAAGA	TTCCGTTATTGGTTATC GCC	TTCCACGCTGCAGTT GAAT	59.3	619	DRR	Ca_10282	--	--
Ca2_P2_32374333	Ca2	32374333	AAC/AACAC	TCAAGGTTTTGTGATTG CCA	TCAACTTGGCACTGAA CCA	60.3	286	DRR	Ca_10282	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_32378599	Ca2	32378599	AACACA/AACA	GTGGAAGTCTGGTGGT CTTA	ACCACACCAATCCTTT CAA	60.2	144	INTERGENIC	--	--	--
Ca2_P2_32379585	Ca2	32379585	AATTAATTTT/AATTAATTTTGATTAATTT T	TGTGCGAGTTTATTGC GGTA	CATTTGGTTCAAAATGT CATGG	60.1	624	INTERGENIC	--	--	--
Ca2_P2_32380306	Ca2	32380306	GTTTGAATTTAATTA/GTTTGAATTTAAT TATTTGAATTTAATTA	AACTAACTTTTCGCAGC CCA	GGCAACTTGGCCAACA CTAT	60.0	587	INTERGENIC	--	--	--
Ca2_P2_32393042	Ca2	32393042	ATTTTTTTTT/ATTTTTTTTTT	TGCCCATCCTTATGCTC TTC	ATCACGTGCAACCACA AGTC	59.6	626	INTERGENIC	--	--	--
Ca2_P2_32393092	Ca2	32393092	TAAA/TTAAAA	TGCCCATCCTTATGCTC TTC	ATCACGTGCAACCACA AGTC	59.6	626	INTERGENIC	--	--	--
Ca2_P2_32393117	Ca2	32393117	T/TC	TGCCCATCCTTATGCTC TTC	ATCACGTGCAACCACA AGTC	59.6	626	INTERGENIC	--	--	--
Ca2_P2_32393187	Ca2	32393187	AATAT/A	TGCCCATCCTTATGCTC TTC	ATCACGTGCAACCACA AGTC	59.6	626	INTERGENIC	--	--	--
Ca2_P2_32393441	Ca2	32393441	TGG/TGTGGG	TCGCACTTTTTCGTGTA GGA	GGGCTTGTTTGACGCA TTAT	60.0	588	INTERGENIC	--	--	--
Ca2_P2_32393633	Ca2	32393633	TAACATAATA/TA	GACTTGTGGTTGCACG TGAT	GGGCTTGTTTGACGCA TTAT	60.0	445	INTERGENIC	--	--	--
Ca2_P2_32397852	Ca2	32397852	G/GA	AAAAGTCAAACATCGCC GAC	TAAAGGGGCACACAAC ACAA	60.0	312	INTERGENIC	--	--	--
Ca2_P2_32399194	Ca2	32399194	T/TATTAATGTCTAA	TCTTGCACGGGTGAGA ACTA	CCTATTGAAGAGTGC CCCA	60.1	587	INTERGENIC	--	--	--
Ca2_P2_32399302	Ca2	32399302	ATTTTTTTTT/ATTTTTTTTTT	AATTGGGGCACTCTTC AAA	GCCTCTTCAAAAGTCG GTCA	60.4	219	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFS
Ca2_P2_32400495	Ca2	32400495	GATATAT/GATATATATAT	TATGTCTCCTTTGGGC GTC	CAAAATCGATCCAAGC AACA	59.7	868	INTERGENIC	--	--	--
Ca2_P2_32406094	Ca2	32406094	AGG/AG	GGTGAAAAGGGAGGA GAAG	ACGTGTAACGGGTGAT TTGG	60.7	197	INTERGENIC	--	--	--
Ca2_P2_32406123	Ca2	32406123	CAAA/CAAAA	GGTGAAAAGGGAGGA GAAG	ACGTGTAACGGGTGAT TTGG	60.7	197	INTERGENIC	--	--	--
Ca2_P2_32406444	Ca2	32406444	CATTT/CATTTAATATTAATATTT	GGTGAAAAGGGAGGA GAAG	GTCAGCTTGAAAGGG TCTG	59.8	832	INTERGENIC	--	--	--
Ca2_P2_32407126	Ca2	32407126	T/T/C	CAGACCCCTTTCCAAGCT GAC	TCTCCATTGAGGCAAT CACA	60.2	729	INTERGENIC	--	--	--
Ca2_P2_32408863	Ca2	32408863	CATAT/CAT	GGAAGGAGGAGGTGC ATTA	AGAAGCATGCAATTC CACC	60.1	606	INTRON	Ca_10279	--	bHLH
Ca2_P2_32417284	Ca2	32417284	ATTTTTTTT/ATTTTTTTT	AAATTTGCGTGGAAG GTTG	CTCTGGTGGCATGTAT CCAA	59.5	207	INTRON	Ca_10278	--	bHLH
Ca2_P2_32423562	Ca2	32423562	AGG/AG	GTGAGAGCATTGTCG AACA	TGTCGCGTGTCATCA ACTT	60.3	520	DRR	Ca_10277	--	--
Ca2_P2_32423881	Ca2	32423881	CAAAA/CAAAAA	TGAGGCATGATAATTGA GCG	TGTTGTCATCAATCAG CAG	59.2	536	DRR	Ca_10277	--	--
Ca2_P2_32427812	Ca2	32427812	ATT/AGAGTT	CCACATGAGTGTGTTG AGGG	GGCTATCGCTTATGCA GGAC	59.8	718	DRR	Ca_10276	--	SAP
Ca2_P2_32427863	Ca2	32427863	TTTATTATTATT/TTTATTATT	CCACATGAGTGTGTTG AGGG	GGCTATCGCTTATGCA GGAC	59.8	718	DRR	Ca_10276	--	SAP
Ca2_P2_32427895	Ca2	32427895	GTTATTA/GTTATTATTA	CCACATGAGTGTGTTG AGGG	GGCTATCGCTTATGCA GGAC	59.8	718	DRR	Ca_10276	--	SAP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_32432077	Ca2	32432077	AC/ACTC	GTCGGTGAATTCGAA GAAA	TAAGTTGGGGGCATAA ACCA	60.2	782	INTERGENIC	--	--	--
Ca2_P2_32435485	Ca2	32435485	TT/TTGT	TTTTTATTACCGACATG GCTCA	GCAACTCTCCCTATTTT GTCTG	58.8	832	DRR	Ca_10275	O	C2H2
Ca2_P2_32453109	Ca2	32453109	ATTTTTTT/ATTTTTTTTTT	TCTTCACACAATCCCAC CAA	CTCAAGTCGACAAGCC TTCC	60.0	659	INTERGENIC	--	--	--
Ca2_P2_32476919	Ca2	32476919	ATGT/AT	CATGGATGGTGCTTCA AATG	CAACTGCAATGTTCCAT ATTCTG	60.4	885	DRR	Ca_10273	R	C3H
Ca2_P2_32480670	Ca2	32480670	T/TA	TCCACATGCTTCCAATC AAA	ACCACTCCAACGATC GTTT	59.5	584	INTERGENIC	--	--	--
Ca2_P2_32480880	Ca2	32480880	AC/A	TCCACATGCTTCCAATC AAA	CAACGCCTCAAGTAGG GGTA	60.1	744	INTERGENIC	--	--	--
Ca2_P2_32480992	Ca2	32480992	GTTT/GTT	CATGCTTCCAATCAAAC ACG	CAACGCCTCAAGTAGG GGTA	60.1	740	INTERGENIC	--	--	--
Ca2_P2_32481466	Ca2	32481466	GTTTTTTTTT/GTTTTTTTTTTTT	AACGACTGGTTGGAGT GGTC	TTTCTTCTGCATTCCA CCC	60.1	538	INTERGENIC	--	--	--
Ca2_P2_32481790	Ca2	32481790	ATATAT/A	GGGTGGAATGCAGAA GAAA	AAGCTTTCGGTGATTG CTGT	59.9	535	INTERGENIC	--	--	--
Ca2_P2_3250898	Ca2	3250898	CATATATATATATATATAT/CATATAT ATATATATATATATATATAT	TTCTCTTTTCCCCACA TGC	GCTCTCGGTGGAGTAC TTGC	60.0	464	INTERGENIC	--	--	--
Ca2_P2_3264088	Ca2	3264088	CATGCTTATGC/CATGCTTATGCTTATG C	GGGCCCTCAAAGAAAT AAAG	CATAAGCAGGCCAGAA GGAG	60.0	459	DRR	Ca_10525	Q	Nin-like
Ca2_P2_32642955	Ca2	32642955	ATTTTTTTTTT/ATTTTTTTTTT	CAAAGTTGAGGAAAGG CCAG	GGAATCACCCATCCAC ATTCT	60.0	869	DRR	Ca_10258	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_32648297	Ca2	32648297	AAAGAA/AAAGAAGAA	AAGCGCTAATGATGG TGAA	ACCTTTTGATCCATGCT TGC	60.1	519	INTERGENIC	--	--	--
Ca2_P2_32672427	Ca2	32672427	TC/T	ATTCAACGTTTCTGGAT GGC	ATAAGGCAGTGGCGTA GAGC	59.5	452	DRR	Ca_10254	DR	--
Ca2_P2_32673561	Ca2	32673561	ATTTTTTTTT/ATTTTTTTTT	TTCAACCAAGCCTACCC TTC	TGGCCAACAAAATTTAA CCA	58.9	449	DRR	Ca_10254	DR	--
Ca2_P2_32678344	Ca2	32678344	CATTATTATTATTATTATTATTATTA TTATTATTATTA/CATTATTATTATTATTA TTATTATTATTATTATTATTA	AAGCGTGAAGGGTTTC CTTT	ATTGCATTCCGCAATCT AGG	60.1	846	INTERGENIC	--	--	--
Ca2_P2_32696355	Ca2	32696355	CTTTT/CTTT	TGTCATCAAAATTAATA TGGGTCG	TTACCTGAAAAACATG CCA	60.1	775	INTERGENIC	--	--	--
Ca2_P2_32713700	Ca2	32713700	TTTTTTTT/TTTTTTTTTT	AACGCATCGGTAAACA CTCC	GAGGTACTACAGCTTG CCCC	58.8	234	INTERGENIC	--	--	--
Ca2_P2_32713895	Ca2	32713895	CAAAAAA/CAAAACAAAAA	AACGCATCGGTAAACA CTCC	TGTTTTGCAGCAAGAT GTCC	59.8	695	INTERGENIC	--	--	--
Ca2_P2_32756102	Ca2	32756102	TAAAAAAAAA/TAAAAAAAAA	TCATTTCCAATTGAAA GGC	AGCTTCGAAGTTGCCA TGAT	59.8	543	INTERGENIC	--	--	--
Ca2_P2_32777553	Ca2	32777553	CTC/CTCATC	TGCTGAGGCATAGTGA CTGG	GAGCTTACGCCGTCTC ATTC	60.0	629	CDS (large-effect mutations)	Ca_10245	R	C3H
Ca2_P2_32817790	Ca2	32817790	CGAGAGAGAGAGAGAGAGAGAGAGAG AGAGAGAGAGAG/CGAGAGAGAGAGAG GAGAGAGAGAGAGAGAGAGAGAGAGAG GAGAGAG	CGGGAATGGAGTTAGT GGTG	GGCAAATCTGATCCCT CAAA	60.0	593	INTERGENIC	--	--	--
Ca2_P2_32914739	Ca2	32914739	TTAATAA/TTAA	GTGCGATTGAGGGAA TACG	GGGAGCTGAATGACCA TTTG	60.5	718	INTERGENIC	--	--	--
Ca2_P2_32934778	Ca2	32934778	TTAAATAAATAAATAAATAA/TTAAATA AATAAATAAATAAATAA	ACAGCGACACGAAGGA CTCT	GGAACAAGTTTCCGTG AAGG	59.6	396	INTRON	Ca_10230	OJ	MYB_related

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_33398330	Ca2	33398330	TCACA/TCA	AGTCAATGGCATGAGA AGGC	AAATGCAGGTCACAA CACA	60.0	513	DRR	Ca_10186	T	M-type
Ca2_P2_33398441	Ca2	33398441	TACACAC/TACAC	AGAGCCTACAGCAAGC CAAA	AAATGCAGGTCACAA CACA	60.0	205	DRR	Ca_10186	T	M-type
Ca2_P2_33405227	Ca2	33405227	AATATATATATA/AATATATATA	AAAGAGACATGACTTTG TCCATCA	TTTCGCTACCCATCATA CCC	59.8	586	INTERGENIC	--	--	--
Ca2_P2_33498318	Ca2	33498318	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TCATTGAAGCCATCAAA TTAGTGT	TCCTTCATTCTTTTGG TGC	60.1	342	INTERGENIC	--	--	--
Ca2_P2_33585937	Ca2	33585937	T/T/C	CTCAACATGCATGCAAA ACC	TCCCAACCCAAATAAAC CAA	60.0	536	INTERGENIC	--	--	--
Ca2_P2_33586099	Ca2	33586099	GTTA/GTTAATTA	CTCAACATGCATGCAAA ACC	TCCCAACCCAAATAAAC CAA	60.0	536	INTERGENIC	--	--	--
Ca2_P2_33639777	Ca2	33639777	TAAAAAAA/TAAAAAAA	CGACGGAATAGTTTGC TCTCT	CGGAAAACCGTAGCTT AATACG	60.0	892	INTERGENIC	--	--	--
Ca2_P2_33642680	Ca2	33642680	TATAATAATAATA/TATAATAATAATA AA	TGGATAGCCAGTGACA GGAA	TTTTTGCCGATAATGG GAAC	59.8	290	INTERGENIC	--	--	--
Ca2_P2_3367372	Ca2	3367372	AATATATATATATATATATATATAT ATATATATATA/AATATATATATATATA TATATATATATATATA	CATTTGACCAAAATGCC ACA	ACCAATACAAGGTCGC ATCC	59.8	182	INTERGENIC	--	--	--
Ca2_P2_33715359	Ca2	33715359	ANNNNNNNNNN/ANNNNNNNN	CAAAAGCGTGCATGA ATTA	CTTGCCTTATTTTCTC GCG	59.8	271	DRR	Ca_10165	K	G2-like
Ca2_P2_33955296	Ca2	33955296	TTAAATAAAA/TTAAA	AATTTCGACTATTCTCT AATGATGG	TCGTTTTGGTGTGGT TTCA	60.0	520	INTERGENIC	--	--	--
Ca2_P2_33959397	Ca2	33959397	ATATTTATTTATTT/ATATTTATTT	GGCTAATTTTCGTTATA TGGATGC	ACTAGTGATGGCCGAA ATGG	60.0	764	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_34355457	Ca2	34355457	TAAAAA/TAAAAA	ATTCTTGGGCTGTGTT TGG	GGGTGATGAGGACTGG TTGT	59.8	725	INTERGENIC	--	--	--
Ca2_P2_34355554	Ca2	34355554	CAAAAAAAAA/CAAAAAAAAA	ATTCTTGGGCTGTGTT TGG	GGGTGATGAGGACTGG TTGT	59.8	725	INTERGENIC	--	--	--
Ca2_P2_34357732	Ca2	34357732	CATATATATATATATATATATATAT AT/CATATATATATATATATATATAT ATATATATATATATATAT	CATGAGCTTGAGTCG AAAA	GCAACAAGATGGGGAC AAGT	60.0	654	INTERGENIC	--	--	--
Ca2_P2_34515091	Ca2	34515091	TTTATTATTATTATTATTATTATTAT ATTATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTA	TGCCAATGTAATGATTC AGGA	AGCGTAAGTTTCGAGG ACCA	59.9	766	INTERGENIC	--	--	--
Ca2_P2_34654101	Ca2	34654101	GTATATATATATATATATATATAT/ GTATATATATATATATATATATAT	AGGACGAGACAAATG AGCC	TGGAAACCAAGGTCCA AGTC	59.9	219	INTERGENIC	--	--	--
Ca2_P2_34683764	Ca2	34683764	TC/TCC	GTTTTTCGAACCACT TTC	CGCTTTTGCCTAACC TCC	59.9	682	INTERGENIC	--	--	--
Ca2_P2_34684386	Ca2	34684386	CAACGTTAAC/CAAC	ACAATACTGCGCCTG TTTC	GATTCCGATCGTTTTTC ACG	60.4	830	INTERGENIC	--	--	--
Ca2_P2_34684594	Ca2	34684594	TA/TACACACA	TTCAGTAGAGTTGAAC CATCG	GATTCCGATCGTTTTTC ACG	60.4	651	INTERGENIC	--	--	--
Ca2_P2_34684923	Ca2	34684923	ATTTTTTT/ATTTTTTT	TCGTGAAAAACGATCG GAAT	TGCTTGATTTAATGGA TGCC	59.9	550	INTERGENIC	--	--	--
Ca2_P2_34685252	Ca2	34685252	CATAAATAATAATAA/CATAAATAA	TCGTGAAAAACGATCG GAAT	TGGAGAGAAACAAAT GGGG	59.9	816	INTERGENIC	--	--	--
Ca2_P2_34685921	Ca2	34685921	TAAAAA/TAAAAA	CCAAACTGGGGAGAA ACAA	TACGATAGGGGATCT CACG	59.9	503	INTERGENIC	--	--	--
Ca2_P2_34686878	Ca2	34686878	TTGACAGGGTAG/T	GAATCCTGGGCTGAAA TCAA	ACGTTCTGAGGGAAT TGTG	60.0	612	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_34706742	Ca2	34706742	GAAAAA/GAAAA	CTCTCTCTCCATCTCG CAC	AAAGTAGCCGGCAAG TCTC	60.8	459	INTERGENIC	--	--	--
Ca2_P2_34775151	Ca2	34775151	TATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATA AATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA	CTCGTATCTAGTGTGG TGTTTGAA	ACTCAGAACCACCACT TGGG	60.0	553	INTERGENIC	--	--	--
Ca2_P2_34775299	Ca2	34775299	AATATATATATATATATATAAATAT ATATATATATATATATA	CCCAAGTGGTGGTTCT GAGT	CATGCTTCACTCTTAG GGCA	59.0	473	INTERGENIC	--	--	--
Ca2_P2_34809034	Ca2	34809034	GAAAAAAAAAAAAAAAAAAAAA/GAA AAAAAAAAAAAAAAAAAAAAA	TTGAAATAAATGGCCAA ATCG	CAATAAAGGGCAAAA CCCA	59.8	262	INTERGENIC	--	--	--
Ca2_P2_34983521	Ca2	34983521	AATATATATATATATATATATATAT ATATATATATAAATATATATATATATA TATATATATATATATATATATATA	CAAATGCATGCTCCCT AAT	CTAAAGCCCAAGCT GCAC	60.0	450	INTERGENIC	--	--	--
Ca2_P2_35074492	Ca2	35074492	TTATA/TTATATA	GGTTTAACATCCCCACA AGC	CGGACGACCTCTCTCG TAAG	60.0	718	INTRON	Ca_16865	TU	C3H
Ca2_P2_35180722	Ca2	35180722	GTATATATATATATATAT/GTATATAT ATATATATATATATAT	TTTAACGCAATTTAAT TCATCA	GGTCTCCCTATATCAC GCCA	59.9	301	INTERGENIC	--	--	--
Ca2_P2_35228331	Ca2	35228331	TAT/TATTATTATCAT	TTATTTACCGTCGTGT CCA	GGAAAAGGAGTCACCA CCAA	59.9	624	INTERGENIC	--	--	--
Ca2_P2_35258590	Ca2	35258590	A/ATT	AAAAAGTTTTAACACGG AGGTTTTT	TGTTGTTGGATTGGAC ATGG	60.2	487	INTERGENIC	--	--	--
Ca2_P2_35274069	Ca2	35274069	GAAAA/GAAA	TTAAAAATATCGCGGT TGC	TCAAATATCAATGGGT TCGC	59.8	279	INTERGENIC	--	--	--
Ca2_P2_35288109	Ca2	35288109	ATTTTT/ATTTTTTT	TGCTTTATAGTGCTATT ATGTGCCA	CGTCATTAAGGGAA ACCAA	59.0	757	INTERGENIC	--	--	--
Ca2_P2_35288455	Ca2	35288455	TT/TTAT	TTCGATGGTATGCAGTA ATTGG	TTCCCATGAAAGAGAG GTGG	60.0	433	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_35581740	Ca2	35581740	AATATATATATATATATATATATATA/ATATATATATATATATATATATA	TTGCCACTTGATACAGC AAAA	TTGAAAGGATAACATG GCCG	60.8	690	INTERGENIC	--	--	--
Ca2_P2_35599561	Ca2	35599561	ATTTTCTTTTCTTTCTTTCTTTTC/ATTCTTTTCTTTTCTTTCTTTCTTTCTTTCTTTTC	TTTAAATGAGGCGGGT ATGG	ATGATAGGGACAGACC GTGC	60.0	405	INTERGENIC	--	--	--
Ca2_P2_35797971	Ca2	35797971	CTATATATATATATATATATATAT/CTATATATATATATATATATATAT	AATGTGAAAACCAAGG CACC	TCTCGTCATCTTTTTC TCCA	59.8	486	DRR	Ca_09755	--	--
Ca2_P2_3593906	Ca2	3593906	CTTATTATTATTATTATTATTATTATATT/CTTATTATTATTATTATTATTATTATTATT	GTTCCAACCCATACCA ACG	GGAGATGCGACTTGGT GAAT	60.1	621	INTERGENIC	--	--	--
Ca2_P2_35944964	Ca2	35944964	CAAAA/CA	TCCAACCATACCTGAA GGC	CTCGTGCGAACTTGTG TGTT	59.9	313	CDS (large-effect mutations)	Ca_09769	--	--
Ca2_P2_35961062	Ca2	35961062	TT/TTATTATTATTAGT	CATTTTCATTCACTC CACTCA	GGCAGGAATGCTTTG ATGA	59.7	557	DRR	Ca_09770	--	--
Ca2_P2_35976572	Ca2	35976572	AATATATATATATATATATATATATATATATATATA/AATATATATATATATATATATATATATATATATATA	AGGACATGATGTTGCT GCTG	AACAAAAATGAAGGAG GGGG	60.2	286	INTRON	Ca_09772	T	LBD
Ca2_P2_36146623	Ca2	36146623	GAAAAA/GAAAAA	AAACAGCAACAAAAATC CCAA	TTTGGAATCAAGAGG TGCG	59.9	201	INTERGENIC	--	--	--
Ca2_P2_36146917	Ca2	36146917	TCCCCC/TCCCCC	AGGGAAACCCACCTCT TGAT	AAATCCAAAGTGCTTG CGTT	59.8	623	INTERGENIC	--	--	--
Ca2_P2_36174197	Ca2	36174197	AATATATATATATATA/AATATATATATATATATA	CCAGAACCCGACCTT ATCA	TGCATGCAGTACCACA ACCT	60.2	301	INTERGENIC	--	--	--
Ca2_P2_36181406	Ca2	36181406	GTTTTTTTTTTTTTTTT/GTTTTTTTTTTT	GGCAGCATGTCGAGTG TTAG	TGCATTATCTTGTTTC TCCG	58.8	285	DRR	Ca_09798	R	bHLH
Ca2_P2_36223052	Ca2	36223052	TATAAATAAATAAATAAATAA/TATAAATAAATAAATAA	TTGTTAAACGCAATTTA CCGAG	TTGATTTGAAAACCCCA ACA	58.8	366	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca2_P2_36224008	Ca2	36224008	CTTTTTTTTT/CTTTTTTTTT	TTTTCACCACGACACAG AAA	TGCACGTTTATAAGGA ATCGG	60.0	354	INTERGENIC	--	--	--
Ca2_P2_36245487	Ca2	36245487	ATTTTTTTTT/ATTTTTTTTT	TCCAAAAAGGAATTTT GTTTC	GGTGAGATACTGCATC ACTTCAA	59.3	519	INTERGENIC	--	--	--
Ca2_P2_36290906	Ca2	36290906	ACCCCCCCCC/ACCCCCCCCC	TGCGATGTGCTGACAG TGTA	CGTGCCTCCACTGAAA ATTA	59.7	884	INTERGENIC	--	--	--
Ca2_P2_3630204	Ca2	3630204	CATATATATATATATATATATAT/C ATATATATATATATATATATAT	TGAAACAAGCATATGCG TCAA	TTTGCCTTCAATAATTG CACA	59.2	158	INTRON	Ca_10502	P	ERF
Ca2_P2_3644500	Ca2	3644500	AT/AATCT	GTCCCAACCTGCTTTTG TTT	AGCAAAGTTTTGCAC CCAT	59.6	759	INTERGENIC	--	--	--
Ca2_P2_3705697	Ca2	3705697	TAAA/TAAAA	CGTGAGGGGTTGAAA TAGG	GTGTTTCAAGCACCAC CAAA	59.6	650	DRR	Ca_10491	D	WRKY
Ca2_P2_3708826	Ca2	3708826	G/GATACATT	ATGATACCGCGAACAT GACA	GGGAGGATGTTTGCTT TGAA	60.1	457	INTRON	Ca_10491	D	WRKY
Ca2_P2_3710197	Ca2	3710197	GAACAAACAAACAAACA/GAACAAACAA ACAAACAAACA	AGCTGCAGAAGCTGTA AGCC	AACGGATCTGACAAAC CCAA	60.4	625	INTERGENIC	--	--	--
Ca2_P2_3710445	Ca2	3710445	CTTTTTTT/CTTTTTTTTTTTTT	TTGGGTTTGTGAGATCC GTT	CACACTCCAAAATGTCA CATCA	59.5	558	INTERGENIC	--	--	--
Ca2_P2_3711910	Ca2	3711910	A/AT	TGTTGAGATTCAACGAT TTGATTT	GCTTGGCACGAACACT ACAC	59.4	715	INTERGENIC	--	--	--
Ca2_P2_3711927	Ca2	3711927	TA/T	TGTTGAGATTCAACGAT TTGATTT	GCTTGGCACGAACACT ACAC	59.4	715	INTERGENIC	--	--	--
Ca2_P2_3723233	Ca2	3723233	TATTATCAATTATCAATTA/TATTATCAA TTA	ATTCGTTGCGTTTGG ACT	TGGTCAATTTTGTGTTG CCA	59.9	234	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_3723695	Ca2	3723695	TAAAAA/TAAAAAA	TGGCAACAAAAATTGA CCA	TTCTCAAATTGCAACA CCA	60.1	752	INTERGENIC	--	--	--
Ca2_P2_3733191	Ca2	3733191	TTAGAGACTAA/T	ACCTGCAACATGTGCG ATAA	TGCATGAGATTGGAA TGGA	60.0	349	DRR	Ca_10489	G	C3H
Ca2_P2_3733907	Ca2	3733907	AGG/AG	CCAAGCAAATTGTGCAC CTA	GGTGTGTGTGCTAACG AGGT	60.0	554	DRR	Ca_10489	G	C3H
Ca2_P2_3738112	Ca2	3738112	CAAAA/CAAAAA	GATGAGACAGCCAAGC CTTC	CCCACCCTTTTGTGTT TGT	59.7	563	INTRON	Ca_10488	--	WRKY
Ca2_P2_3739763	Ca2	3739763	AATATATATATATAT/AATATATATATA T	GTTTCGTCCACAAAATG GCT	AGGTTTTCTCACCATCA CCG	60.0	689	INTRON	Ca_10488	--	WRKY
Ca2_P2_3741294	Ca2	3741294	CT/CTTT	GGTGGAGAGGGATGAT GAGA	GCAGAGCACCAACAC AAGA	60.0	605	DRR	Ca_10487	--	--
Ca2_P2_3743015	Ca2	3743015	A/AATACAAATGGTG	CACCACTGGATTAGC CGTT	TCCTTTTCGCTGATGAA ACA	59.4	722	INTRON	Ca_10487	--	--
Ca2_P2_3743829	Ca2	3743829	CTTTTT/CTTTTT	TTGGCCAATACTCCAAC CAT	CAGCAAGTCCCACGAA AGAT	60.3	311	INTRON	Ca_10487	--	--
Ca2_P2_3745143	Ca2	3745143	TAAAA/TAAA	GAAGCACTGGACCTCC CATA	TGACTTGGAATAGATT GGACCAT	59.7	630	INTERGENIC	--	--	--
Ca2_P2_3746503	Ca2	3746503	TTA/TTAAACATA	TCCACATTGCACCAACA CTT	TTGCTCCTCTGGTCCT CACT	60.0	925	INTERGENIC	--	--	--
Ca2_P2_3752919	Ca2	3752919	ATTT/ATTTT	GGTACCACATGGGTG GAAT	CACTCAGCAACTCTTTC TGCC	60.2	344	INTRON	Ca_10486	DL	--
Ca2_P2_3754191	Ca2	3754191	TCC/TC	TCCCTGGTCTCGTGA GACT	CATGTTGAAAGCACAC CACC	60.0	500	DRR	Ca_10486	DL	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_3771310	Ca2	3771310	TTATATATATATATATA/TTATATATATAT A	GCTCGACGGAATAGCA TTTT	TGGCCAAGCATGATCT AACA	60.2	612	DRR	Ca_10483	E	--
Ca2_P2_3771545	Ca2	3771545	AT/A	GCTCGACGGAATAGCA TTTT	TGGCCAAGCATGATCT AACA	60.2	612	DRR	Ca_10483	E	--
Ca2_P2_3771652	Ca2	3771652	TTGA/TTGAGCTATTATATATGA	GGACACGGTCCTTTAA ACAAA	TGGCCAAGCATGATCT AACA	60.2	223	DRR	Ca_10483	E	--
Ca2_P2_3777166	Ca2	3777166	AA/AACTGATTA	AATTTTTGGGGGAAAA TGC	CTCTGATAGACCCTCC CACCT	59.6	646	INTERGENIC	--	--	--
Ca2_P2_3777372	Ca2	3777372	AATATA/AATATATA	AATTTTTGGGGGAAAA TGC	CTCTGATAGACCCTCC CACCT	59.6	646	INTERGENIC	--	--	--
Ca2_P2_3782950	Ca2	3782950	TAAAAAA/TAAAAAAA	TGCCATGGGAGCTCTA TGAT	CGCACTTGGAGTTGAT GTGT	59.8	554	INTERGENIC	--	--	--
Ca2_P2_3783594	Ca2	3783594	ATTTTTTT/ATTTTTTT	ACACATCAACTCCAAGT GCG	CAAACTGAAACACA CCCG	60.0	756	INTERGENIC	--	--	--
Ca2_P2_3783648	Ca2	3783648	A/AT	ACACATCAACTCCAAGT GCG	CAAACTGAAACACA CCCG	60.0	756	INTERGENIC	--	--	--
Ca2_P2_3785084	Ca2	3785084	ATT/A	CATGCACTAAACAATA TTGACCA	CCCAAATTAGGGTTTG GGTT	59.9	870	INTERGENIC	--	--	--
Ca2_P2_3785150	Ca2	3785150	GTTT/GTTTT	AAACTCTGTGACGACT AAAAAT	CCCAAATTAGGGTTTG GGTT	59.9	352	INTERGENIC	--	--	--
Ca2_P2_3786172	Ca2	3786172	TGGG/TGG	ATTGAGGAGGGATGCA CAAG	TGCTCAGCTGAAGAGA TCGT	58.9	614	INTRON	Ca_10482	S	--
Ca2_P2_3786408	Ca2	3786408	GA/GAAA	ATTGAGGAGGGATGCA CAAG	TTAGGAAGAGGCCCTG GAAT	60.0	860	INTRON	Ca_10482	S	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_4204531	Ca2	4204531	GTATATATATATATATATATATATA/G TATATATATATATATATATATA	GGGTTTGAACCGTCCC TACT	CTTCTCCATCTCCTTC CCC	60.0	633	INTRON	Ca_21114	--	--
Ca2_P2_42172	Ca2	42172	TTATATATATATATATATATATA/TTAT ATATATATATATATA	TGGCAGTCTGTTTCAC GTTT	CAAGGGACCAGATTCT GCAT	60.1	553	INTERGENIC	--	--	--
Ca2_P2_4217766	Ca2	4217766	TTACTA/TTA	TTCATCCCCTCAAGTAG AAGC	TTTTCAGCTTTCACCTC ATTCA	57.7	608	INTERGENIC	--	--	--
Ca2_P2_422540	Ca2	422540	G/GTCTTCCT	AGAGTTGGAGGGTGCA GCTA	CTTCGAATCCAACCTT GGTG	60.5	829	INTERGENIC	--	--	--
Ca2_P2_4253061	Ca2	4253061	A/AC	CACGTGTCAATGTTGTG TCG	TGTGCCTGAATCCACA AAAA	60.1	272	INTRON	Ca_21112	--	--
Ca2_P2_4285697	Ca2	4285697	TAAA/TAAA	CCAGTCCCGAAATTA CGA	ACTTGCATAATCGATT GGG	59.9	613	INTERGENIC	--	--	--
Ca2_P2_4353642	Ca2	4353642	CAAAAAAAAA/CAAAAAAAAA	AGAATGTTCTCCACA GCC	ATGGGGTTCCTTTTATT GGC	60.0	500	INTRON	Ca_21108	GC	HSF
Ca2_P2_4412680	Ca2	4412680	CAAAAAAAAA/CAAAAAA	TTGAGGTAGCCCAATC CAAG	TGCACCACTAACGAT CAAA	60.1	539	INTERGENIC	--	--	--
Ca2_P2_4418355	Ca2	4418355	CTTTTTTTTT/CTTTTTTTTT	TGTGGCGTTTGATTTT TCA	GGTTGTTTTGCATTG GGT	59.7	371	INTERGENIC	--	--	--
Ca2_P2_4513905	Ca2	4513905	GAAAAAAAAA/GAAAAAAAAA	ACGCGTTGAAGTTGT TTTG	GTGGTTCGGAGATAG TGGT	60.0	944	INTERGENIC	--	--	--
Ca2_P2_4527479	Ca2	4527479	GAAGACAAAAAACATAAGACAAAAA AACAT/GAAGACAAAAAACATAAGAC AAAAAACATAAGACAAAAAACAT	GCAATTTACCTCTTCT GCC	TGACGAAGCCACAAT AACA	60.1	523	INTERGENIC	--	--	--
Ca2_P2_4538239	Ca2	4538239	CATATATATATATATAT/CATATATAT ATATATATATAT	TGATTTGTCGATTGGGT TGA	TGATTTGAGGCACCG ATA	60.0	266	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_4557579	Ca2	4557579	CAAAAA/CAAAAAA	ACTGACATTCGCGAGC TTTT	AATTATTAGCACGGGC AGCA	60.6	401	INTERGENIC	--	--	--
Ca2_P2_469349	Ca2	469349	TA/TAA	CCCAAGACACCTTGC AGAT	ATGAAGTGCAAACCAT GCTG	59.7	674	DRR	Ca_16986	--	--
Ca2_P2_4700407	Ca2	4700407	ATTATTTATTTATTTATTTATT/ATT ATTTATTTATTTATTTATT	TCTCACGGTTGTGAGG ACTG	CCTACCTCTGGAGTGT CCGT	59.2	926	INTERGENIC	--	--	--
Ca2_P2_4713992	Ca2	4713992	AC/ACCC	TTAAGTCTGGCCCATCA AGG	TGCTTTGTCAACCTTGC TACA	59.5	239	INTERGENIC	--	--	--
Ca2_P2_4793170	Ca2	4793170	GATAATAATAATAATAATAATAAT/G ATAATAATAATAATAATAATAATAAT	GCCATGTGGAAGAACA AGGT	CCAAACTGGGGAGAA ACAA	59.9	669	INTERGENIC	--	--	--
Ca2_P2_4812881	Ca2	4812881	ATTTTTTT/ATTTTTTTTT	AACCAGTTCGTTCCAA GTG	TCCCCCAACAGAAATT GAG	59.9	731	DRR	Ca_21090	--	MYB
Ca2_P2_4824675	Ca2	4824675	TAAAAAAAAA/TAAAAAAAAA	CCCCAAGTTCACAATAT GGC	TCATTGATTCAATTCTC CGGT	59.4	524	INTERGENIC	--	--	--
Ca2_P2_4850252	Ca2	4850252	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATTATT ATTATT	AAATTCATCCTCGCTCG CTA	TTTCCCGACTTGGTCC TTTA	59.5	658	INTERGENIC	--	--	--
Ca2_P2_4892794	Ca2	4892794	CATATATATATATATATATATATATAT ATATAT/CATATATATATATATATATATAT ATATATATATATATATATAT	GCGGACATAAGGAAGA TGTGA	AGGTCTGCGAAGATGG AAAA	59.8	606	INTERGENIC	--	--	--
Ca2_P2_4894086	Ca2	4894086	TA/TAGACAACCTCAA	TTGAACACAACCGAGC CAC	TTTTGTTCATTTCTGT CTCCA	59.7	493	INTERGENIC	--	--	--
Ca2_P2_4895677	Ca2	4895677	AA/AATATGA	CCAGGATAAACAGCC CAGA	TGGATGCTTTCCCAAC TTTC	60.1	467	INTERGENIC	--	--	--
Ca2_P2_4913166	Ca2	4913166	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAATA AA/AAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA	CCTTGATGTCGCTGCTT ACA	AGAGGCAACAAGAAC CGAA	59.9	241	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_6505178	Ca2	6505178	TA/TAA	CGTAATAACGGCGAGG AAAA	TGAGCAGGGGGAAGA GTAGA	59.9	548	INTERGENIC	--	--	--
Ca2_P2_6522206	Ca2	6522206	AT/ATT	GGAAGTGAAGGTCACG GTGT	TGAGCACGAATAATTG CAGC	60.0	593	DRR	Ca_20947	--	--
Ca2_P2_6640316	Ca2	6640316	TAAAAA/TAAAAAAA	ATGGCCACGAATCTGA AGAG	ACGGTTGTTTTGGCAT TGAT	60.2	890	INTERGENIC	--	--	--
Ca2_P2_6640452	Ca2	6640452	GAAAA/GAAAAA	AAAAGGTCCTAGGTT GGGA	ACGGTTGTTTTGGCAT TGAT	60.2	473	INTERGENIC	--	--	--
Ca2_P2_6641737	Ca2	6641737	CATATAT/CATATATAT	GTATTCAGGGCGAAG GAAT	AATGCAACGACAAAG GAGG	60.1	500	INTERGENIC	--	--	--
Ca2_P2_6641916	Ca2	6641916	TG/T	GTTCTATGGGACAGG GTCA	TATCAACTACCAGAGC GGGG	60.1	476	INTERGENIC	--	--	--
Ca2_P2_6642487	Ca2	6642487	ATTTT/ATTTTTTTTT	CCCCGCTCTGGTAGTT GATA	ACCCACTTTGAGAAAC GTGC	60.2	479	INTERGENIC	--	--	--
Ca2_P2_6642515	Ca2	6642515	TTATATATATATATAT/TTATATATATAT ATATATA	CCCCGCTCTGGTAGTT GATA	ACCCACTTTGAGAAAC GTGC	60.2	479	INTERGENIC	--	--	--
Ca2_P2_6643765	Ca2	6643765	AT/ATT	ATGGAACAAGCAGCGA AGTT	GTTGATACGAGGGGT TGAA	59.8	537	INTERGENIC	--	--	--
Ca2_P2_6643843	Ca2	6643843	CTTTTTTTTT/CTTTTTTT	ATGGAACAAGCAGCGA AGTT	GTTGATACGAGGGGT TGAA	59.8	537	INTERGENIC	--	--	--
Ca2_P2_6648530	Ca2	6648530	TAAAAA/TAAAAAAA	TTATCGATCGTCGGTGT CAA	TTCCATATGCACCTCC CATT	60.2	612	INTERGENIC	--	--	--
Ca2_P2_6648980	Ca2	6648980	ATTTTTTTTT/ATTTTTTTTT	AGCCTAATGGGAGGTG CATA	TATGAGGGGGTTGAAT TGGA	60.1	563	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_6690462	Ca2	6690462	CAAAAAAAAA/CAAAAAAAAA	TCCAATTCAACCCCTC ATA	GGGAACCAAAACAAA AGCA	60.0	299	INTERGENIC	--	--	--
Ca2_P2_6742633	Ca2	6742633	AATTATTATTATTATTATTATTAT TTATTATTATTATTATT/AATTATTATTAT TATTATTATTATTATTATTATTATT	CAGGCGTACTGTGGT TTTT	CTTAATCGACCGCGT ATGT	60.0	520	INTRON	Ca_19156	C	FAR1
Ca2_P2_6761366	Ca2	6761366	CTT/CTTT	TTAACTTGAGCAGGG CTCG	TGGAGCTTTACTGGGT GAAGA	59.9	622	DRR	Ca_19154	O	ERF
Ca2_P2_6815005	Ca2	6815005	ATTATTTATTTATTTATTTA/ATTAT TTATTTATTTATTTA	GAAATTTTAGGCGCAAC AGC	TCCAATCCCATTGTCCA CTT	60.2	703	INTERGENIC	--	--	--
Ca2_P2_6831436	Ca2	6831436	AC/A	CCTGTGACATGTTGCCT TTG	AAATGGGCTGAGTTTG AACA	58.2	360	INTERGENIC	--	--	--
Ca2_P2_6867609	Ca2	6867609	CAAAAAAAAA/CAAAAAAAAA	TAACCACATTGCAAGCC AAA	CAATCAAAATGCAACAG ACACA	59.6	451	INTERGENIC	--	--	--
Ca2_P2_6998417	Ca2	6998417	TATGATGATGATGATGATGATGAT GATG/TATGATGATGATGATGATGA TGATGATGATGATG	TAAGGCATCATTTCTCAC CCC	CCAACTTTGCAATTTGC CTT	60.1	420	DRR	Ca_19137	S	--
Ca2_P2_7043443	Ca2	7043443	AATATATATATATATATATATAT/AATA TATATATATATATATATATATAT	ATGGGTCGTGTTTCGAT TGTT	AACCAACTATTGACCC CAAAAA	59.6	267	INTERGENIC	--	--	--
Ca2_P2_7144237	Ca2	7144237	A/AG	GGACCGGAATCATAAT GCAA	TTTTTCCGTAAAGTCC CCC	60.2	743	INTERGENIC	--	--	--
Ca2_P2_7171869	Ca2	7171869	TTAT/TT	CGGCCATTAAATTTCTG ACA	TTGCATTATGTTTCTGG CAAA	59.2	320	INTERGENIC	--	--	--
Ca2_P2_7171912	Ca2	7171912	TATTTAATTTAATTTAATT/TATTTAATTT AATT	CGGCCATTAAATTTCTG ACA	TCATTTTATAACGAGTG ACCCA	60.4	584	INTERGENIC	--	--	--
Ca2_P2_7172121	Ca2	7172121	CTATATATATATAT/CTATATATATAT	TTTGCCAGAAACATAAT GCAA	TCATTTTATAACGAGTG ACCCA	60.4	285	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_7555681	Ca2	7555681	GTTTTTTTTT/GTTTTTTTTT	AATTTTGCCTCATCGG AGA	AATCACACACGACACC GAGA	60.2	178	INTERGENIC	--	--	--
Ca2_P2_7557882	Ca2	7557882	TAAA/TAA	AAATTTGAATCCGTCG CAG	TGTTAGAACTTCCCGC CACT	59.7	690	INTERGENIC	--	--	--
Ca2_P2_7590008	Ca2	7590008	TAAATT/TAAATTAATTT	TTTTGTGATGGCTTTTG CAG	TTGATTTTAATTTATTC GGTTGG	58.5	640	INTERGENIC	--	--	--
Ca2_P2_7617731	Ca2	7617731	CTAAATATAAATAA/CTAAATATAA ATAAATAAATAA	CCAAGATCTCGTAGTG CAACA	TGGGTTTAGTCCGTTT TCTTC	59.5	468	INTERGENIC	--	--	--
Ca2_P2_7626491	Ca2	7626491	AAAAATTAAATTAATTA/AAAAAT TAAATTA	AACAAGCATTTTGTGAG GGC	ATTCGACTAGTGGTGG TGCC	60.0	931	DRR	Ca_18119	--	--
Ca2_P2_7644680	Ca2	7644680	AATATATATATATATATATAT/ATA TATATATATATATATAT	AAAGACCGCATGTGC TATT	TGTTGCGGATGAAGAA GATG	59.8	475	INTERGENIC	--	--	--
Ca2_P2_7655016	Ca2	7655016	T/TAAA	CCGTTCTTCTCGACAT ACC	GCAAAATTGGCTTCTTA CGG	59.7	516	INTERGENIC	--	--	--
Ca2_P2_7655778	Ca2	7655778	TGAG/TG	CCACAATAGCACCACT CTTG	AGGAAAAGCCAAAAG CACA	59.9	793	INTERGENIC	--	--	--
Ca2_P2_7657147	Ca2	7657147	CTTTT/CTTTT	TTATGTGGGGATTG GATG	TTCCACGCTTTTCAT TCC	59.9	705	INTERGENIC	--	--	--
Ca2_P2_7657698	Ca2	7657698	CTTTTTT/CTTTTTT	CCTCTTAGGATGTGCC CAAA	CGTTGAATTGATGGA AAGTGA	60.0	573	DRR	Ca_18120	--	--
Ca2_P2_7657952	Ca2	7657952	CTTTTTTTTTT/CTTTTTTTTTT	TTGAACGTCATGCACAA CAA	ATGTGACGTGGCAGAG TCAA	60.3	591	DRR	Ca_18120	--	--
Ca2_P2_7668122	Ca2	7668122	TCCCCC/TCCCCC	GGCCAGAGAGTAAGTC CACG	GATGTTGGTGCTTG TTGG	60.0	625	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_7668484	Ca2	7668484	CC/CCCAC	CCAACACAAGCACCA CATC	GGAGGGGTAGAAGT GAAGG	59.9	188	INTERGENIC	--	--	--
Ca2_P2_7669241	Ca2	7669241	TAA/TAAA	TGTTGCCTCTTCATC GTG	TGTGTTTTGGGTTTCA CTAGG	60.0	475	INTERGENIC	--	--	--
Ca2_P2_7669371	Ca2	7669371	TAAAAAAA/TAAAAA	TGTTGCCTCTTCATC GTG	TGTGTTTTGGGTTTCA CTAGG	60.0	475	INTERGENIC	--	--	--
Ca2_P2_7669611	Ca2	7669611	A/ACACTCATT	CCTAGTCGAACCCAAA CACA	TTGCTCAGCAAGGAAA TGACT	59.9	450	INTERGENIC	--	--	--
Ca2_P2_7670497	Ca2	7670497	C/CT	TGAGATTTGAAATCCA TTGACTC	GCATCTTTTGGCTACT GGC	59.9	762	INTERGENIC	--	--	--
Ca2_P2_7675590	Ca2	7675590	TAAAAAAA/TAAAAA	ACTCCGATTGGAGA AAGG	AAAATGAGTTTACATTC ACGGTACA	59.0	882	INTERGENIC	--	--	--
Ca2_P2_7678375	Ca2	7678375	AAATAA/AAA	GGTGAGGATGCATGAG ATGA	ACCAAGATGACCAGCA AAGG	60.1	949	INTERGENIC	--	--	--
Ca2_P2_7678453	Ca2	7678453	GAAAAAAA/GAAAAA	TTTTGCATTGATTAG AGAGATT	ACCAAGATGACCAGCA AAGG	60.1	515	INTERGENIC	--	--	--
Ca2_P2_7681881	Ca2	7681881	TAAAA/TAAAA	GAAAAAGAGCCACGGT GGTA	GCGAGAAAAGATTGT TGAGAA	58.6	383	INTRON	Ca_18121	R	ERF
Ca2_P2_7681954	Ca2	7681954	TAAAA/TAAA	GAAAAAGAGCCACGGT GGTA	TTTCCAGCTCCAAGCT CATT	60.0	643	INTRON	Ca_18121	R	ERF
Ca2_P2_7682063	Ca2	7682063	CTTTTT/CTTTTT	GAAAAAGAGCCACGGT GGTA	TTTCCAGCTCCAAGCT CATT	60.0	643	INTRON	Ca_18121	R	ERF
Ca2_P2_7682985	Ca2	7682985	AT/ATT	AACGGTTCAAATGAAAA TCCC	ACCAACCATCAAAAA CCA	60.0	335	INTRON	Ca_18121	R	ERF

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca2_P2_7683046	Ca2	7683046	TT/TTAT	AACGGTTCAAATGAAAT TCCC	ACCAACCCATCAAAAT CCA	60.0	335	INTRON	Ca_18121	R	ERF
Ca2_P2_7683059	Ca2	7683059	TAAAAAAA/TAGAAAAAAAAA	AACGGTTCAAATGAAAT TCCC	ACCAACCCATCAAAAT CCA	60.0	335	INTRON	Ca_18121	R	ERF
Ca2_P2_7695766	Ca2	7695766	TG/T	GGCGGGACAATTATTT GAA	CCATATAGGAAGTACG AGTACGTGA	58.7	401	INTERGENIC	--	--	--
Ca2_P2_7699107	Ca2	7699107	TAAAAAA/TAAAAAA	CCAAAAATTGTGGAGAT TTGG	GCTGATGATGCCTCCA TTTT	60.0	846	INTERGENIC	--	--	--
Ca2_P2_7699126	Ca2	7699126	TAAAAAA/TAAAAAA	CCAAAAATTGTGGAGAT TTGG	GCTGATGATGCCTCCA TTTT	60.0	846	INTERGENIC	--	--	--
Ca2_P2_7703845	Ca2	7703845	ATTTTTTT/ATTTTTTT	TCTCTTTTATTGGGGCA TGG	GATGTAAGGGGTGTGG AAAA	57.4	909	DRR	Ca_18123	R	ERF
Ca2_P2_7703919	Ca2	7703919	AAATAAAATAAAATA/AAATAAAATA	TCTCTTTTATTGGGGCA TGG	AGATGTAAGGGGTGTG GAAAA	58.4	910	DRR	Ca_18123	R	ERF
Ca2_P2_7704113	Ca2	7704113	TTAATAAT/TTAATAATAATAAT	TACTTCCAAGTCGGG CAAG	AGATGTAAGGGGTGTG GAAAA	58.4	660	DRR	Ca_18123	R	ERF
Ca2_P2_7704404	Ca2	7704404	T/TTA	TTTTCCACCCCCTTAC ATCT	GAGGTTTTTGGTATCG TGCC	59.4	507	DRR	Ca_18123	R	ERF
Ca2_P2_7704992	Ca2	7704992	ATTTTTTT/ATTTTTTTT	TGGCACGATACCAAAA CCT	AGGAGATGGTTGTACC GCAG	60.1	282	DRR	Ca_18123	R	ERF
Ca2_P2_7705341	Ca2	7705341	ATAGTA/ATA	CTGCGGTACAACCATC TCCT	CGCCGTCGTTACTGTT CATA	59.8	355	INTERGENIC	--	--	--
Ca2_P2_7706488	Ca2	7706488	AAAAAATTAATAATTAAAT/AAAAATA TTAAATAATTAAATAATTAAAT	GCCTATTTGCTTTTCC TGC	TCATCCACTTCTTGCC TGT	58.3	689	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_7707720	Ca2	7707720	ATTTTTTTT/ATTTTTTTT	TTTAAATCGGTTATGCGG	CTTTAGGAGGTCCCAAGGC	60.1	469	INTERGENIC	--	--	--
Ca2_P2_7709881	Ca2	7709881	TAAAAAAA/TAAAAAAA	TGACACATGCAAAACACCT	AGAAGCACGAAGATATGCACTT	58.2	619	INTERGENIC	--	--	--
Ca2_P2_7714112	Ca2	7714112	TG/TTGG	CTCACTCGATCGATGGTTCA	TGACAACTGCTGGCTGTAGC	60.0	588	INTERGENIC	--	--	--
Ca2_P2_7716515	Ca2	7716515	TA/TACCTGA	ATGGGCTTTAAATGTGCGAG	ACCCCGTTTGGCTTCTATT	59.8	105	DRR	Ca_18124	--	--
Ca2_P2_7717172	Ca2	7717172	ATTGGTTGG/ATTGG	TCATTCTTGTGGGTGTTGGA	TGAGACATGCAATGACGGAT	60.1	410	DRR	Ca_18124	--	--
Ca2_P2_7718496	Ca2	7718496	C/CT	CCTGCCACCACTCTTAGCTT	TGGGATGCTACCTCCTATGG	59.9	511	INTERGENIC	--	--	--
Ca2_P2_7718955	Ca2	7718955	TGAAA/T	GAGCTTCATTGAAATCGGGA	TCATATAGGAGGTGCGCACCC	59.9	821	INTERGENIC	--	--	--
Ca2_P2_7720145	Ca2	7720145	GAAAAAAAA/GAAAAAAAAA	ATCACCGGAAGAGGTAGGG	GCATCCATTTAGGCGGATTA	59.9	591	INTERGENIC	--	--	--
Ca2_P2_7720508	Ca2	7720508	TAAA/TAA	TAATCCGCCTAAATGGATGC	CTCCCATAGGATGAAGGGGT	60.1	530	INTERGENIC	--	--	--
Ca2_P2_7720908	Ca2	7720908	AAT/A	TTCACCCCTTCATCCTATGG	TCCAAATGTTTGTATTGTGC	59.4	490	INTERGENIC	--	--	--
Ca2_P2_7722018	Ca2	7722018	ACT/ACTCT	TATGCACGCAATCTTTGAC	AAACGGAAGTTTCTGCAAGC	59.5	784	INTERGENIC	--	--	--
Ca2_P2_7724864	Ca2	7724864	TA/TAAAGAGATTGAGA	ACCAGAGACACTGCAGCAAA	AACAAGATTCTCGAATGCTCC	58.4	464	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_7725038	Ca2	7725038	ATTTT/ATTT	ACCAGAGACACTGCAG CAAA	AGCCATTTGAGACTGT GCAA	59.4	789	INTERGENIC	--	--	--
Ca2_P2_7729483	Ca2	7729483	TAAA/TAAAA	AAAGGAAGAGGGGTG CATT	ATGTTCTAAAGCCCAT GCCA	60.5	843	INTERGENIC	--	--	--
Ca2_P2_7730325	Ca2	7730325	ATTTTTTTTT/ATTTTTTTTT	GTCACGGCGCAAGTTA TACA	CCACAAAAGCACACA ATGG	60.0	555	INTERGENIC	--	--	--
Ca2_P2_7731377	Ca2	7731377	GAAAAA/GAA	GTGGTTGTGATGTTGA ACGC	CTCCCGCTAACTCCTC TTCC	60.3	697	INTERGENIC	--	--	--
Ca2_P2_7739105	Ca2	7739105	ACTTTGT/A	GGTCTACGGCAACGT CAAT	TTACGCGTGTCATTTTC TCG	59.9	790	INTERGENIC	--	--	--
Ca2_P2_7743342	Ca2	7743342	TG/T	AGCTCCCCTTCGTAC ATTT	ATCTCCACCCGTTCTCT TGA	59.7	728	INTERGENIC	--	--	--
Ca2_P2_7743405	Ca2	7743405	CG/C	ATCCATCATGTTTCATGC CCT	ATCTCCACCCGTTCTCT TGA	59.7	579	INTERGENIC	--	--	--
Ca2_P2_7743532	Ca2	7743532	ATTTT/ATTT	ATCCATCATGTTTCATGC CCT	ATCTCCACCCGTTCTCT TGA	59.7	579	INTERGENIC	--	--	--
Ca2_P2_7743551	Ca2	7743551	AAACCAAACTTAA/AAA	TCAAGCTTTATAGCGGA GCC	ATCTCCACCCGTTCTCT TGA	59.7	526	INTERGENIC	--	--	--
Ca2_P2_7743661	Ca2	7743661	AATC/AATCGATC	TCAAGAGAACGGGTGG AGAT	GATTCAAAATGTGAGC GCAA	59.8	530	INTERGENIC	--	--	--
Ca2_P2_7747929	Ca2	7747929	TAAAAAAA/TAAAAAAA	TGGTGAAATGCTGCAG AAAA	CTCAACTGTGATGC CTCA	60.0	147	INTERGENIC	--	--	--
Ca2_P2_7749318	Ca2	7749318	ATTTTTTTTT/ATTTTTTTTT	TACCGACTCAACCATG ACA	GCCCTTGTCACAATCA CAAC	59.0	585	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_7749605	Ca2	7749605	AAAATAAAATAAAATAAA/AAAA TAAATAAAATAAAATAAAATAAA	CAACCCTTATGGATTCC GTC	GGAGAAGATGGTTGCA GCTC	60.0	613	INTERGENIC	--	--	--
Ca2_P2_7753358	Ca2	7753358	C/CAAT	CGGAGGTTTGGTGTA ACTGA	AGCTTGCCATTGCAGC TACT	60.2	447	INTRON	Ca_18125	--	MYB_related
Ca2_P2_7771490	Ca2	7771490	ATTTTTTTTT/ATTTTTTTTTT	ACCATTTATTATTTTCG TGTTAATGA	GGTACCATGGATGATA TTTAGCC	58.7	188	INTERGENIC	--	--	--
Ca2_P2_7771633	Ca2	7771633	TTAT/TT	CATCCATGGTACCTTAA TTTAATTTT	TAAATAACACCCGTGG TCCC	59.5	512	INTERGENIC	--	--	--
Ca2_P2_7771838	Ca2	7771838	ATTTTTTTTT/ATTTTTTTTTT	CATCAAAATTTTAAAC AAAACCG	TAAATAACACCCGTGG TCCC	59.5	371	INTERGENIC	--	--	--
Ca2_P2_7772671	Ca2	7772671	AAAAAATAAAAA/AAAAAA	CAATTGGTGCCGTTAT TTT	TGCCCTAAGGGGAATA AGCTA	60.1	750	INTERGENIC	--	--	--
Ca2_P2_7773617	Ca2	7773617	TTAAATAAAAT/TTAAATAAAATAATAA AAT	GCTGAGCCCAACAAG CTAA	CCACTGTGGAAGGTA AATGC	59.5	845	INTERGENIC	--	--	--
Ca2_P2_7774796	Ca2	7774796	TAAAAAATAAA/AAAAAATA	TTGGATCATTTTGAGTT TGAGG	TCCTTACGTTCCACGG TAATTT	59.8	358	INTERGENIC	--	--	--
Ca2_P2_7778320	Ca2	7778320	ATT/ATTT	AGACCTCTTACTGTGC GCGT	TGCACTTTTGGTCCCT CAAT	60.5	321	INTERGENIC	--	--	--
Ca2_P2_7780730	Ca2	7780730	ATTTTTTTTTT/ATTTTTTTTTT	TTGTCTCCATCTCCAGC CTT	TGTTGTTTGAGTTGGG ACACA	60.0	995	INTERGENIC	--	--	--
Ca2_P2_7782164	Ca2	7782164	AG/A	TCATTTCAATCCCCAT CAT	TTTGATGCTATGCGAA GGAG	59.0	388	INTERGENIC	--	--	--
Ca2_P2_7786133	Ca2	7786133	AC/A	GCTCCTTTGGTGTATC GCTC	CATTCCATTCCATGTTG CAC	59.8	369	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_7786190	Ca2	7786190	GAAAAAAAAA/GAAAAAAAAA	GCTCCTTTGGTGATC GCTC	CATTCCATTCCATGTG CAC	59.8	369	INTERGENIC	--	--	--
Ca2_P2_7788894	Ca2	7788894	TAC/TACAC	GCTCTTTACGTTTGCC AGC	CCGATTCCATTATGAC CTCAA	59.8	204	INTERGENIC	--	--	--
Ca2_P2_7788989	Ca2	7788989	TC/T	GCTCTTTACGTTTGCC AGC	TGTTTTAGATTGTCTTC TATTTACGG	58.5	566	INTERGENIC	--	--	--
Ca2_P2_7789072	Ca2	7789072	TAAAAAA/TAAAAAA	GCTCTTTACGTTTGCC AGC	TGTTTTAGATTGTCTTC TATTTACGG	58.5	566	INTERGENIC	--	--	--
Ca2_P2_7790064	Ca2	7790064	CA/CATGTTA	AGAGTTGGCCATTGG TTTG	GAATGTCAAGCATTGT GAAGGA	60.1	467	INTERGENIC	--	--	--
Ca2_P2_7812840	Ca2	7812840	TTA/T	TAGAAGTCGCTTCTTC GGA	CGACATCGTAGATGTG GGACT	60.0	453	INTERGENIC	--	--	--
Ca2_P2_7815016	Ca2	7815016	TAATAACAAATAACAAA/TAATAACAAAT AACAAATAACAAA	TTTTACCAACACCGTC AAA	AAATAATCGTGGCCTT GCAC	60.0	901	INTERGENIC	--	--	--
Ca2_P2_7816294	Ca2	7816294	CAAAAA/CAAAAA	TTCGATCCACCATCTCA CCT	CCTTTGTGCTTTTCAAT CTTTT	57.6	507	INTERGENIC	--	--	--
Ca2_P2_7824116	Ca2	7824116	T/TG	TGTCTCGTGATCTGG TTTG	TGACTTTGTGTCGGA TTTG	57.2	258	INTERGENIC	--	--	--
Ca2_P2_7844283	Ca2	7844283	TAAAAAA/TAAAAAA	GTCCACTGTGCCACAT CATC	AACTGCTTTGAAGCAC CGTT	59.9	611	INTERGENIC	--	--	--
Ca2_P2_7881274	Ca2	7881274	GTAT/GTATCGTTAT	GCCACTCCAACACCAAT TTC	TGGAGACCACATGGAG ATGA	60.0	423	INTERGENIC	--	--	--
Ca2_P2_7881305	Ca2	7881305	TTAT/TT	GCCACTCCAACACCAAT TTC	TGGAGACCACATGGAG ATGA	60.0	423	DRR	Ca_18136	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_7881740	Ca2	7881740	ATATTCC/ATATTCCTATTCC	TCATCTCCATGTGGTCT CCA	TGCAAAATGACCACCCA CTTA	60.0	642	DRR	Ca_18136	--	--
Ca2_P2_7882645	Ca2	7882645	ATTTT/ATTT	CTTCTCACGTTGAACCA CCA	TGACCTTGTCTGGTCC ATGT	58.9	733	DRR	Ca_18136	--	--
Ca2_P2_7883781	Ca2	7883781	GAAAAAAAAA/GAAAAAAAAA	TCCTTGTTCTTCCCTC CTT	TGTCCTTCACCTTTTC AAC	59.9	440	INTERGENIC	--	--	--
Ca2_P2_7884349	Ca2	7884349	TT/TTAT	GTTGAAAAGTGAGGG GACA	GGCCTTCTCCTTAGAA TGCAA	60.7	546	INTERGENIC	--	--	--
Ca2_P2_7886656	Ca2	7886656	T/TATA	AAAAGGCAGACAACAT GGAT	GTCTTTTGCTCCTCT GCAC	60.0	461	DRR	Ca_18137	E	--
Ca2_P2_7887346	Ca2	7887346	AATAT/AATATAT	GTGCAGAGGAGCAAAA GGAC	TGGAATTTGAGACATG TCAACC	59.8	889	DRR	Ca_18137	E	--
Ca2_P2_7887518	Ca2	7887518	ATTTTTTT/ATTTTTTTT	AAGCAAAATACATCTCG AAGTTCT	TCCCAAGAAAAGCTTC AACC	59.3	550	DRR	Ca_18137	E	--
Ca2_P2_7887647	Ca2	7887647	CAACATA/C	AAGCAAAATACATCTCG AAGTTCT	TCCCAAGAAAAGCTTC AACC	59.3	550	DRR	Ca_18137	E	--
Ca2_P2_7894638	Ca2	7894638	ATTTT/ATTTTTT	GTCATGGTTGTAGCATC CCC	GCCAAATGAGGTTAAT GAAGGA	60.3	278	INTERGENIC	--	--	--
Ca2_P2_7895896	Ca2	7895896	CG/C	CGATCAAAATAAGCAAC CGAA	TACAATCAGGATGCGT CCAA	60.1	482	DRR	Ca_18138	--	Dof
Ca2_P2_7913902	Ca2	7913902	GAAAAAAAAA/GAAAAAAAAA	TCAAATCTACCTCTAAC GATTCACA	AAGGACAGTTGTCCCA ATGC	60.0	326	DRR	Ca_18139	FE	--
Ca2_P2_7916006	Ca2	7916006	A/C	CTCATTTGCATCCGATT GGT	TATCGAAAGTTTCCGC GTTT	59.7	525	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_7922625	Ca2	7922625	TAA/TA	GAAGCATCACTAGGTG GGGA	CAACCAAAACCATTTCA AAACT	58.1	369	DRR	Ca_18141	--	bHLH
Ca2_P2_7925840	Ca2	7925840	ATTTTTTT/ATTTTTTTTT	CTCGACATCAAAGGCC GTAT	CTTATCCCTTCACTTCG CCA	60.2	788	INTRON	Ca_18142	U	--
Ca2_P2_792603	Ca2	792603	ATTTTTTTTT/ATTTTTTTTTTT	TCAATGATTGACACGGA GAA	AACCAACACTTCCATG CCTC	60.0	772	INTERGENIC	--	--	--
Ca2_P2_7928503	Ca2	7928503	CTTTT/CTTT	TGAGATTGAGTTGCCT GTGC	GCAAAAGGTGAGAGAG ACGG	60.0	521	DRR	Ca_18143	--	--
Ca2_P2_7929259	Ca2	7929259	CTTTT/CTTT	GTGGGTATCAGGCTCT TCCA	CACATGAAGTACAGGC TCGC	59.5	289	DRR	Ca_18142	U	--
Ca2_P2_7930077	Ca2	7930077	GA/GACA	AACCGGCGACAATATTC AAG	AGGGGAGTATCCAGCG TCTT	60.1	200	DRR	Ca_18143	--	--
Ca2_P2_7933051	Ca2	7933051	AC/A	CCCCAAAAGTGCTTCA AAA	TGACAAGCACGCTTAA GGAA	59.6	694	INTERGENIC	--	--	--
Ca2_P2_7933926	Ca2	7933926	ATT/AT	TTCCTTAAGCGTGTG TCA	CCAAAATAACCCACAAT CGG	60.0	539	INTERGENIC	--	--	--
Ca2_P2_7936147	Ca2	7936147	TA/TAA	TATGGCAATGCAAGTTC GAC	TCGCAAACTTCAAGA GTGG	59.0	443	DRR	Ca_18144	--	--
Ca2_P2_7936230	Ca2	7936230	AT/ATT	TATGGCAATGCAAGTTC GAC	TCGCAAACTTCAAGA GTGG	59.0	443	DRR	Ca_18144	--	--
Ca2_P2_7937530	Ca2	7937530	AAAA/AAAAGAAA	AATCGTTCCCTCCTCT TGT	AATTCATGCGGTTGAG TTCC	59.9	524	INTRON	Ca_18144	--	--
Ca2_P2_7937938	Ca2	7937938	ATTTTTTTTTTT/ATTTTTTTTT	GCCACCTTCATCCAAA ATA	CAAATCCACAGGTCAT GCTG	60.1	162	INTRON	Ca_18144	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_7940035	Ca2	7940035	TA/TAA	CAACATTGACAACGGAA TCG	AAAATGGACAAAATTG GAGCA	59.4	927	INTERGENIC	--	--	--
Ca2_P2_7940136	Ca2	7940136	ATTTTTTT/ATTTTTTTT	TCTTGACCGTTAGATTG AACCA	CAAAATGGACAAAATTG GAGC	59.4	714	INTERGENIC	--	--	--
Ca2_P2_7940384	Ca2	7940384	CTTAATTTAAATATT/C	TGACCAAAATCTTCTCT TTCCA	GTGCCTCAACCATGAC ACTG	60.2	818	INTERGENIC	--	--	--
Ca2_P2_7963268	Ca2	7963268	ATTTTTTTTTT/ATTTTTTTTTT	TTTCGGAGAGGCTAA GAAGAA	TTTGCCCTCACTCACAAT TCAA	59.3	532	INTERGENIC	--	--	--
Ca2_P2_7966683	Ca2	7966683	ATTTTTTTTTT/ATTTTTTTTTT	GATGTCACTCCCTGGC TCAT	TTTTCACATTTTCATGT CAAATACA	58.5	397	INTERGENIC	--	--	--
Ca2_P2_797060	Ca2	797060	TAAAAAAAAA/TAAAAAAAAA	CTTCTCATTGGTGGG AAAA	CGGGTCCGTAATTTTA GCA	60.0	438	INTERGENIC	--	--	--
Ca2_P2_7982128	Ca2	7982128	CTTTTTTTTTT/CTTTTTTTTT	GCCCGAATCAAGTAGT GGAA	ATCAATGGAGGATAGC GACG	60.1	644	INTERGENIC	--	--	--
Ca2_P2_8016754	Ca2	8016754	ATTTTTTTTTT/ATTTTTTTTTT	TTTCCCCTGTACCTCA CAG	CCCCCTTGTCAAC CTAA	59.8	671	INTERGENIC	--	--	--
Ca2_P2_8027702	Ca2	8027702	ATTTTTTTTTT/ATTTTTTTTTT	CATTGGGCAACTTAGT GCAA	ACCTCATCAACTCCAC CGAC	60.0	694	INTERGENIC	--	--	--
Ca2_P2_8117986	Ca2	8117986	AATATATATATATATATAT/AATATATA TATATATATATATAT	TGAAGTGGACGTCAA GAAAAA	ACGTTTACAAATGCG CTTC	60.1	232	INTERGENIC	--	--	--
Ca2_P2_8163022	Ca2	8163022	TACTT/TACTTTTGACTT	TCACGGGTCAACACGA TTTA	GGGAAGGAATTTGTCA GGGT	60.2	886	INTERGENIC	--	--	--
Ca2_P2_8166930	Ca2	8166930	AAATAATAATAATAATAATAAAT/ AAATAATAATAATAATAATAATAA ATAAT	CCTAGGGATGCGACCA TCTA	TCCTCCTCTTTTGGCAC ATT	59.7	385	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_8208107	Ca2	8208107	TAAAAAAAA/TAAAAAAAA	TCCAACCAATTGACGT GTA	ACATAGGGGTTGTACA CGGG	59.6	409	INTERGENIC	--	--	--
Ca2_P2_8216990	Ca2	8216990	AATATATATATATATATATATATAT ATATATAT/AATATATATATATATATAT ATATATATATATATATATATAT	GATAATGGACGTCCTT GCGT	AAACACACGTTTCAAC CAAA	59.1	602	INTERGENIC	--	--	--
Ca2_P2_8269566	Ca2	8269566	GTATATATATATATATAT/GTATATAT ATATATATAT	AGCCTGCAAGTTCAAG TGGT	CACCCACACACAACA AAGA	60.5	301	INTERGENIC	--	--	--
Ca2_P2_8308316	Ca2	8308316	TAAAAAAAA/TAAAAAAAA	AATTGGGACCATTTGAT AGGC	GCCTCTACCATCTTTGA CAGC	59.0	171	INTERGENIC	--	--	--
Ca2_P2_8328118	Ca2	8328118	TATTTATTTATGCATT/TATTTATTTATG CATTTATTTATGCATT	AGGTTCAATTTGGTGG CAAG	TTGAATTGTTATGCCCG TGA	59.9	570	INTRON	Ca_21469	--	C2H2
Ca2_P2_8332435	Ca2	8332435	GTTATTATTATTATTATTATTATTAT TATTATTATTAT/GTTATTATTATTATTA TTATTATTATTATTATTATTATTATT	CTACGGAGGATGGAAC TGGA	TTTGGTGATCTGGGGA GAAG	60.0	734	INTRON	Ca_21468	TU	--
Ca2_P2_833993	Ca2	833993	TAATAAAATAAAATAAAATAAAATA/TAA TAAATAAAATA	TTGCATCATGGTTATGC GAC	CATAGCCTCGTACATG CAACA	59.8	490	INTERGENIC	--	--	--
Ca2_P2_8343398	Ca2	8343398	AATATATATATATAT/AATATATATATATA TAT	CCAGTGTTTGACCTCCA AGC	TTTGCAACAACGCGAA ATAG	59.9	743	INTERGENIC	--	--	--
Ca2_P2_8362914	Ca2	8362914	GAATGAAATGAAA/GAATGAAATGAAAT GAAATGAAA	GTGGGTATCCGGAGGT ATCA	TCCAACACTCCCAAAA AGC	60.1	307	DRR	Ca_21465	--	--
Ca2_P2_8387275	Ca2	8387275	ATTTTTTTT/ATTTTTTTTT	ATGAGAACCCCATACC CCTC	AACAATAAAGGACGC GTTG	60.0	739	INTERGENIC	--	--	--
Ca2_P2_8420270	Ca2	8420270	AACA/AACACA	CCAAGTTTGAAATGCC GATT	GCTGCATGATCTTATG CTCG	59.6	451	INTERGENIC	--	--	--
Ca2_P2_8478800	Ca2	8478800	AATTT/AT	CCCGTATGAATGAACG GAAC	CTACCCCAACATTTCAA TCG	60.2	519	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_8478910	Ca2	8478910	ACT/A	CCCGTATGAATGAACG GAAC	CTACCCCCACATTTCAA TCG	60.2	519	INTERGENIC	--	--	--
Ca2_P2_8479884	Ca2	8479884	ATTTT/ATTTT	AAGAAAGCACTCAAAGC CCA	ATTCTTCTGGGGCAA GAGT	60.1	305	INTERGENIC	--	--	--
Ca2_P2_8483756	Ca2	8483756	A/ATCACAAATATC	TTTGGTTGCCAGGAAT AGG	GTATTTTGATGCGTGAA GCG	59.3	775	DRR	Ca_21454	--	--
Ca2_P2_8539885	Ca2	8539885	TAAA/TAAACAAA	CTATGAACACCACATTG CCG	TCCATGGTCAAGACGT GATT	58.9	582	INTERGENIC	--	--	--
Ca2_P2_8541841	Ca2	8541841	TAAAAAAAAA/TAAAAAAAAA	TTCATATCATTCAAATG CCCA	ACACCTAGTTCACCCC CTCC	60.2	643	INTERGENIC	--	--	--
Ca2_P2_8640240	Ca2	8640240	AATATATATATATATATATATATAT AT/AATATATATATATATATATATATAT ATATAT	CATAAGACCACCTCCAA TCCA	TTGATTCTACGGTAACA GCAAAAA	60.1	344	INTERGENIC	--	--	--
Ca2_P2_8647024	Ca2	8647024	TACA/TA	CGGGGAGCAGATCTAA AAAG	GAACCCCTCCCTCTCT CTTG	60.2	415	INTERGENIC	--	--	--
Ca2_P2_8647425	Ca2	8647425	CAGG/CAGGAGG	TCAAGAGAGAGGAGG GGTT	TTTGCGTTACGAATTG ATGA	59.2	553	INTERGENIC	--	--	--
Ca2_P2_8708914	Ca2	8708914	ATTTTTTTT/ATTTTTTTT	GCCACACCGAAGAAA TAAA	TTCATTTTGCTCCATCA CTTTC	59.2	714	INTERGENIC	--	--	--
Ca2_P2_8718137	Ca2	8718137	TTTCATCA/T	GGGACTTGCACCTTGT GCTT	GGGAGCCTTATACCTC TGGG	59.9	590	INTRON	Ca_22308	U	--
Ca2_P2_8777880	Ca2	8777880	ATTTTTTTT/ATTTTTTTT	CATGTCCTCAGGTGGT TGTG	TTTGTGCTGGGATGAA CTGA	60.1	807	INTERGENIC	--	--	--
Ca2_P2_8794654	Ca2	8794654	C/CAA	GAGTTGAATGCATGTGT GGG	ACCCACGACAATTCAAA AGC	60.0	539	DRR	Ca_22304	J	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_9428131	Ca2	9428131	GTATATATATATAT/AT	GAAATGCTAATGGT CGG	TTCCAAACACTTACCC CCA	60.2	657	INTERGENIC	--	--	--
Ca2_P2_9485330	Ca2	9485330	TTTTATTTATTTATTT/TATTTT	TTATGCGCCACATCACA TTT	CGCCGAAAAGGTTACA CAAT	60.0	604	INTRON	Ca_20024	T	M-type
Ca2_P2_9494071	Ca2	9494071	T/TA	GAACTGCAACAACAAC GACAA	GGTCTCGAAATCCCTG ATGA	60.0	609	INTERGENIC	--	--	--
Ca2_P2_9494155	Ca2	9494155	CAAA/CAAAA	GAACTGCAACAACAAC GACAA	GGTCTCGAAATCCCTG ATGA	60.0	609	INTERGENIC	--	--	--
Ca2_P2_9500229	Ca2	9500229	CGTATGCTAGACCTGG/CGTATGCTAG ACCTGGGTATGCTAGACCTGG	AGAGGTTGGGGGAGAA GAAA	GCAACAACAGCAGAGA CAATG	59.5	213	INTERGENIC	--	--	--
Ca2_P2_9650270	Ca2	9650270	CATATATATATATATA/CATATATATA TATATA	GAAGGGGTATGAACGA AGCA	TGAGTAGGGATGGAGG ACCA	60.5	590	INTERGENIC	--	--	--
Ca2_P2_9653674	Ca2	9653674	ATT/ATTTT	GCAACCACAAAGGCAA ATTA	CTGGGAGGAAAGCACT TGAG	60.0	748	INTERGENIC	--	--	--
Ca2_P2_9715169	Ca2	9715169	AATTATTATTATTATTATTATTATTA TTATT/AATAATTATTATTATTATTAT TATTATTATTATTATT	TTTGAACGATGATGTGA GACG	ATGAGCAAGAATCTCG CGTT	60.0	762	INTERGENIC	--	--	--
Ca2_P2_975081	Ca2	975081	CTTTTTTTTT/CTTTTTTTTTTT	CACCCAACATTAAGCGT GTG	CATTCTCCACAATG AGTG	60.0	618	INTERGENIC	--	--	--
Ca2_P2_9779226	Ca2	9779226	ATTTT/ATTT	GCTAGTGGGACAAC CAGG	CCCAACACATATGGA AGCC	60.2	324	INTERGENIC	--	--	--
Ca2_P2_9884034	Ca2	9884034	AATATATATAT/AATATATAT	TAAGTTGTTGGCATC GGA	CCGACCTAATCACTCAT AAATATCG	60.1	322	INTERGENIC	--	--	--
Ca2_P2_9981127	Ca2	9981127	TTATATATATATATATATATATATAT/T TATATATATATATATATATATATATAT ATAT	GGTATTTTCGCATGCAG ATG	AGCCAGCATACCAGCA AAAG	60.4	819	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca2_P2_9997900	Ca2	9997900	AAATAATAATAATAATAATAATAATA ATA/AAATAATAATAATAATAATAAT AATAATAATA	TAAATACGCGACGACC AACA	TTTCTGTCAAAAAGT GGCACA	59.7	407	INTERGENIC	--	--	--
Ca3_P2_10067227	Ca3	10067227	CTTTTTTTTTT/CTTTTTTTTTT	CCCTGGTGCAACAAA ACAT	TCGTCGTCCACATTACT CCA	60.1	719	INTERGENIC	--	--	--
Ca3_P2_10082918	Ca3	10082918	GTTTTTTTTTTTT/GTTTTTTTTTTTT TT	AAGTTGTTACAATTCGA TCGTCC	CAGAAAATGTGGATGC GTTG	60.1	153	INTERGENIC	--	--	--
Ca3_P2_100899	Ca3	100899	AATATATATATATATATATATATAT AT/AATATATATATATATATATATAT	AACAAACGACGACGTG ACAT	ACGGTAAATGCATAGC CACC	59.9	746	INTERGENIC	--	--	--
Ca3_P2_1009100	Ca3	1009100	CAATATAAATATAAA/CAATATAAA	CAGCAGCATCATCGTG AACT	TGGCAAGGATAAAACT TGGG	59.9	390	INTERGENIC	--	--	--
Ca3_P2_10159368	Ca3	10159368	GA/G	CTAGGCTCACCAACCG GATA	CTAAGGGCGCTACAAC AAGC	60.0	354	INTERGENIC	--	--	--
Ca3_P2_10159468	Ca3	10159468	T/TA	TGGGGCAAAACAAAGCT ATTC	CTAAGGGCGCTACAAC AAGC	60.0	107	INTERGENIC	--	--	--
Ca3_P2_10244842	Ca3	10244842	GGAGAGAGAGAGAGAG/AGAGAGAG AGAGAGAGAGA	AAAACGTGTGTGGGAG AAGG	CAATTTGATGGCACTT GGTG	60.0	203	INTERGENIC	--	--	--
Ca3_P2_10299801	Ca3	10299801	CTATATATATATATATATATATATA TATATA/CTATATATATATATATATATA TATATATA	AGCACCGGTAGAATA GCCA	CACCTTCGACTTTGTG AGG	58.3	997	INTERGENIC	--	--	--
Ca3_P2_10303005	Ca3	10303005	AATATATATATATATATATATATAT ATATATATATAT/ATATATATATATAT ATATATATAT	GGGATATTTTGAGGG GAGA	TGAGCTTTGCTCTTGC ATTC	59.3	262	INTERGENIC	--	--	--
Ca3_P2_10312456	Ca3	10312456	TAAAA/TAAAAA	TGACACGCAATATAGAA CCG	CATCTTGGTGTGTGAA AGCG	60.3	598	INTERGENIC	--	--	--
Ca3_P2_10350276	Ca3	10350276	CAAGAAG/CAAGAAGAAG	ATTGGCAAATCGGTTC GTC	GCCAAACCTTACGAG ATCA	60.1	459	DRR	Ca_18818	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_10381884	Ca3	10381884	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA/A AATAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATAATA	TTCATGGTTGGATCCCA TTT	TTATAGAACCCGCCCA ACAA	60.3	382	INTERGENIC	--	--	--
Ca3_P2_10398321	Ca3	10398321	G/GATTGATCTTTCCC	CGGATTGCCAAGTACA AGGT	CAAACCACAACCAGCA CAAC	60.0	770	DRR	Ca_18819	J	--
Ca3_P2_10570421	Ca3	10570421	GATATATATATATA/GATATATATATA TA	ACCCGAATACCTCCAA GGTC	GATCTGCAGTTGCTGA TGGA	60.0	816	INTERGENIC	--	--	--
Ca3_P2_10623857	Ca3	10623857	ATTTTTTTTTT/ATTTTTTTTTT	TTTTGGCTCGAAGCTCA TTT	AGGTGCGATGGAGAAA TCAA	60.6	372	DRR	Ca_18826	O	--
Ca3_P2_10636458	Ca3	10636458	TTTATTATTATTATTATTATTATTATT ATTATTATTATI/TTTATTATTATTATTAT TATTATTATTATTATTATTATTATT	ATCGACTCCCGAAGCTCA AAA	CTCCAGAGCCACGTAC TCGT	60.5	657	INTERGENIC	--	--	--
Ca3_P2_10657869	Ca3	10657869	TAAAAAAAAA/TAAAAAAAAA	GCTCCAAACCAAGGA TTGA	GATCCCATTTCTGCTG CATT	60.0	520	INTERGENIC	--	--	--
Ca3_P2_10684192	Ca3	10684192	CTATTATTATTATTATTATTATTATT ATTATTA/CTATTATTATTATTATTAT TATTATTATTA	TTTCATCCAATGCTTCA GGA	TTGTGTTGCATCCCT AACA	60.0	822	DRR	Ca_18828	O	--
Ca3_P2_10724964	Ca3	10724964	GTTATTATTATTATTATTATTAT/GTT ATTATTATTATTATTATTATTAT	TTGAAGCCCAAATTTTC ACC	CAGGAGCAGCAACAA CAAA	60.0	588	INTRON	Ca_18831	--	--
Ca3_P2_10846962	Ca3	10846962	AATATATATATATATATATATATAT A/AATATATATATATATATATATATA TATATATA	CCAATGACGACTTCCC ACT	CAAGACGTCGCAAAA TCCC	60.5	683	INTERGENIC	--	--	--
Ca3_P2_10860554	Ca3	10860554	TG/T	GCACACTGGTGTGGA TTTG	TCAATGGTAACTTCCC CAGC	59.9	851	INTRON	Ca_19358	G	--
Ca3_P2_10923237	Ca3	10923237	T/TCC	GCTGATTGAAATCGAG CACA	TTAAAACAAGCACCAAG GGC	60.1	347	INTERGENIC	--	--	--
Ca3_P2_10994316	Ca3	10994316	AG/A	CCCGTGAGATCCTCT AACA	TTCGGTTGGTGACCCT TTAC	59.8	146	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_11044475	Ca3	11044475	CAAAAAAAAA/CAAAAAAAAA	GCATCCATCCAAACGA CTTT	CATTACATCTTATTTGA GGGAGAGC	59.6	286	INTERGENIC	--	--	--
Ca3_P2_11182328	Ca3	11182328	GAAAAAAAAA/GAAAAAAAAA	AGGTGCCCTTCTTTTG GTT	CCATCGTCGACCTTGA GAAT	60.1	527	INTERGENIC	--	--	--
Ca3_P2_11247051	Ca3	11247051	AAAATAAATAAATAAATA/AAAATA AATAAATAAATAAATAAATA	CTGGGGATACGTAGGA GCAA	TCCCTTAAACGGCTA CCCT	60.0	180	INTERGENIC	--	--	--
Ca3_P2_11273271	Ca3	11273271	ATTTTTTTTT/ATTTTTTTTT	GCGCGCGGATAAAATA AATA	TCATGACGCAGCACTT TTTC	60.0	738	INTERGENIC	--	--	--
Ca3_P2_11279419	Ca3	11279419	CTATTATTATTATTATTATTA/CTATTATT ATTATTATTATTATTA	TTCCAGGGCAGACTTC TTGT	GGCCCATATGACCAA AACTT	60.1	641	INTERGENIC	--	--	--
Ca3_P2_11307149	Ca3	11307149	TTATATATATATATAT/TTATATATATA TATATATAT	GTGGTACTGGAGGCCA CATT	CCAAATGCCCTTTT ATT	60.0	792	INTERGENIC	--	--	--
Ca3_P2_11315222	Ca3	11315222	TTATATATATATATATATATATATATA TATATAT/TTATATATATATATATATAT ATATATATATATATATATAT	CTCATGATCGGGAAAT GGT	GTTGAGAGGCATGAAG AGGC	60.0	217	INTERGENIC	--	--	--
Ca3_P2_11442489	Ca3	11442489	AAATAAATAA/AAATAAATAAATAAATAA	AATGTTTGGATGATTCC CCA	ATACGCATAATCGACTC CCG	59.9	543	INTERGENIC	--	--	--
Ca3_P2_11465111	Ca3	11465111	GA/GAA	GTGCTGAACCCGTGAT AGGT	ATTCCAAACCAAAACCC TCC	60.0	276	INTERGENIC	--	--	--
Ca3_P2_11475230	Ca3	11475230	TTGT/TT	GCATAAGCAGCGCTT CATT	TCGATTATGCGTAGGG AAGG	60.1	809	INTERGENIC	--	--	--
Ca3_P2_1149110	Ca3	1149110	TAAAAAAAAA/TAAAAAAAAA	TGTGCAATCGTTTAAAC CCA	TGAGGGGTAATTTGAA CCGA	60.3	272	INTERGENIC	--	--	--
Ca3_P2_1149320	Ca3	1149320	ATTTTTTTTT/ATTTTTTTTT	TGTGCAATCGTTTAAAC CCA	CCCTTACCACAAATCA ACTCA	59.0	719	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_11497481	Ca3	11497481	ATTATTTATTTATTTATTTATTTAT GTATTTATGTATTTATGTATTTATTTAT CATTATTTATTTATTTATTTATTTAT TTATTTATTTATTTATTTATTTATG TATTTATGTATTTATTTATTTATTTATTT ATTTATTT	GGGTTTGCACTTGAAG GTGT	CCTCCGAGCCAAAATA CAAA	60.1	617	INTERGENIC	--	--	--
Ca3_P2_11521142	Ca3	11521142	TAAA/TAA	TCCATCGTACCGGAG ATAC	TCGATTATGCGTAGGG AAGG	60.1	235	INTERGENIC	--	--	--
Ca3_P2_11523659	Ca3	11523659	GT/G	TTGGAGGAGAAAATCG GTTG	GGTTGACGACTAAGGG TGGA	60.0	596	INTERGENIC	--	--	--
Ca3_P2_11531328	Ca3	11531328	CAAAAAAAAA/CAAAAAAAAA	TTTCCTTTCAACCCAGC ATC	CGATGCAGTCGTCTCT TTGA	60.1	482	INTERGENIC	--	--	--
Ca3_P2_11587128	Ca3	11587128	CAAAA/CAAAA	TTTGGGCTTACTTTCCA TGC	GGTGCAATTTCTTTGC GGT	60.0	543	DRR	Ca_19379	--	--
Ca3_P2_11611655	Ca3	11611655	AATATATATATATATATATATATAT ATATATATATATATATATATATATAT ATATATATATATATATATATATATAT TATATATATATATATATATATATAT	AAAACCATCATGCCACA AAA	GCCTCACAAGTAACAA GAAGGG	60.2	368	INTERGENIC	--	--	--
Ca3_P2_11661143	Ca3	11661143	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT A	GCTTCTTGAAGGTTTCG ACG	AATGCTTAATTGAATA TGAGAACTTT	57.3	744	INTERGENIC	--	--	--
Ca3_P2_11720789	Ca3	11720789	ATTATTTATTTATTTATT/ATTATTTATTT ATTTATTTATTTATT	CCTTCTCGTGTTCAC CTT	TGCCATGTTTAAATGGC TGT	59.0	620	INTERGENIC	--	--	--
Ca3_P2_11765428	Ca3	11765428	ATTT/ATTTT	GATCAGATCTGCAGC AACA	TGGCATACATCTAGGG GGAG	59.9	574	DRR	Ca_19390	--	--
Ca3_P2_11830341	Ca3	11830341	AC/A	AACCAAGGTTTGGTG AGTG	TTGGAAGGAGCCCTTA CCTT	60.1	297	INTERGENIC	--	--	--
Ca3_P2_11877050	Ca3	11877050	TAAAAAAAA/AAAAAAAA	TTCAAACCTTTCAATT TGCTC	GCGATTTTGGTGAAAT CCAT	59.8	594	INTERGENIC	--	--	--
Ca3_P2_11919605	Ca3	11919605	GAA/GA	CGGAAATTGAAATCG AAAA	ATCGCGAAAGTAGTCT CCCA	59.8	633	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_13097036	Ca3	13097036	A/AT	CCTTCTTACGGGACC CAAT	TCATCAGTATCGTGG TGG	59.9	364	INTERGENIC	--	--	--
Ca3_P2_13163446	Ca3	13163446	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	TGCAAAGTGAGGATTG ACCA	TTTTGGGCTTGATT TGG	59.8	420	INTERGENIC	--	--	--
Ca3_P2_1317155	Ca3	1317155	GTTCTTCTTCTTCTTC/GTTCTTCT CTTCTTCTTCTC	ATTCGTTAACCGTTGGA TCG	ACCAAGAACAGAATGA CGCC	60.1	517	INTERGENIC	--	--	--
Ca3_P2_13171985	Ca3	13171985	GATATATATATATATATATAT/GATA TATATATATATATATATATATA	TCCCACTACTGGGAAT CCA	TAGGGGAATGACTCCA CCAC	59.8	414	INTERGENIC	--	--	--
Ca3_P2_13236644	Ca3	13236644	AATATATATATATATATATAT/AATATA TATATATATATATATATAT	AAGACCTGTGGGATCA TTGC	TTTTGTGATAGGTTCT GATGC	59.1	928	INTERGENIC	--	--	--
Ca3_P2_13265127	Ca3	13265127	TAAA/TAA	CGTTTCTCTCGAGCAC ACA	TTGAGCTTGCAACTTG ATCACT	60.1	693	INTERGENIC	--	--	--
Ca3_P2_13265149	Ca3	13265149	TAA/TAACAA	TTTTTGAATGGTTCCAA GGG	TTGAGCTTGCAACTTG ATCACT	60.1	655	INTERGENIC	--	--	--
Ca3_P2_13313491	Ca3	13313491	CATTATTATTATTATTATTATTATTA TTATTAATATTATTATTAT/CATTATTATT ATTATTATTATTATTATTATATTAT TATTAT	AACCCACCTCTTGATT CCA	CGACAATTTGTTGGT GACG	60.0	637	INTERGENIC	--	--	--
Ca3_P2_13417490	Ca3	13417490	TAAAAAAA/TAAAAAAA	TGGGAATAGGTCAGGC TTTG	TGCACGAGAGGATTG TTTG	59.8	339	INTERGENIC	--	--	--
Ca3_P2_13449893	Ca3	13449893	GATAAATAAATAAATAAATAA/GATAAA TAAATAAATAAATAAATAA	ACTTATCTCCGGTGC ATG	TTGTCTCAACAAGG TTTCA	58.2	822	INTERGENIC	--	--	--
Ca3_P2_13462560	Ca3	13462560	GATATATATATATATATAT/GATATAT ATATATATATATATAT	TGGAAAAAGGCAATT GAAG	GCATGCAATGGATGAT GAAG	60.0	316	INTERGENIC	--	--	--
Ca3_P2_135372	Ca3	135372	CA/C	GTTGTAATGGGGCTTA GGCA	TTGGTCGTTTGAGCCT TTCT	59.9	478	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_1371048	Ca3	1371048	CAAAAAAAAA/CAAAAAAAAA	CGGATCTCAGTTCGTG GGTA	CAGAGAGAGCGAGAG GGAGA	60.0	567	INTERGENIC	--	--	--
Ca3_P2_13796912	Ca3	13796912	CAAAAAAAAA/CAAAAAAAAA	TATCATGCATTGCGGT TGT	CCTGAGAGAGAAAGGG GCTT	60.0	650	INTERGENIC	--	--	--
Ca3_P2_13827207	Ca3	13827207	TTATATATATATATATAT/TTATATATA TATATATATATAT	CTACTCCCGACACTGAA GCC	TTTTCCAGGAAGGAAT CGTG	60.0	527	DRR	Ca_25325	--	--
Ca3_P2_13827457	Ca3	13827457	AAC/AACAACATGTAC	CTACTCCCGACACTGAA GCC	TTTTCCAGGAAGGAAT CGTG	60.0	527	INTERGENIC	--	--	--
Ca3_P2_13836046	Ca3	13836046	TAAAAAAAA/TAAAAAAAA	TGAGCTGATGGTGAAG TGATT	TGGTTGAGCTTCAGAC ATGC	60.0	530	INTERGENIC	--	--	--
Ca3_P2_13845318	Ca3	13845318	ATTTTTTTTT/ATTTTTTTTT	CCTCAGATGAGAGCCA GGAC	GAGCTGAACCTGCTTG CTTT	59.8	805	INTERGENIC	--	--	--
Ca3_P2_1386021	Ca3	1386021	T/TTTA	AAAGAACATTTCGAATG CGG	ACGTATCCCCAGGTGC AATA	60.2	704	INTERGENIC	--	--	--
Ca3_P2_13868652	Ca3	13868652	TT/TTCCCTTAAT	CCTTTTGACAAGCTTC ACA	TGGTTCGATCACATTG GAA	59.9	266	INTERGENIC	--	--	--
Ca3_P2_13899750	Ca3	13899750	CTTTT/CTTTTT	CTAGCCAAGCAGCT TAAC	GATCCCATTAGAACTC CGCA	60.0	345	INTERGENIC	--	--	--
Ca3_P2_13952343	Ca3	13952343	TTTATTATTATTATTATTATTATT AT/TTTATTATTATTATTATTATT ATTATTAT	TACGGGTTGAGGACCA AAAG	TGCAGAGGACAATTCT TGCT	58.6	702	INTERGENIC	--	--	--
Ca3_P2_14018560	Ca3	14018560	CTTTTTTTTT/CTTTTTTTTT	AGGGCAATCACGAGAT TTTG	CACGACTTGAGTGGTC CAAG	59.3	635	INTERGENIC	--	--	--
Ca3_P2_1403982	Ca3	1403982	GAAAAAA/GAAGAAAAAA	TCCCCGTAATAGGTG CATA	TCCTTTGTTTCTGCGAAC CCT	59.9	521	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_14130012	Ca3	14130012	AATATATATATATATAT/AATATATATATATATAT	GGGCACATATGCTTGA CTCC	GGGGAATAACAAAGGG CAAT	60.0	601	INTERGENIC	--	--	--
Ca3_P2_14197660	Ca3	14197660	ATTTTTTTTT/ATTTTTTTTT	TTCCTGTCCCAATTCA AAC	AACGTTGGTGGGTAG AGTT	58.4	536	INTERGENIC	--	--	--
Ca3_P2_14205152	Ca3	14205152	AATATATATATATATATA/AATATATATATATATATA	ACGGAACACAACCTTTG GAG	TGCTGCCTCTCATTCTC ACA	60.7	452	INTERGENIC	--	--	--
Ca3_P2_14454312	Ca3	14454312	GTTTTTTTTTT/GTTTTTTTTTTT	ACCAAGCACAGCGACT TTCT	CGTTGCAATTGAACAAA CGA	60.7	634	INTRON	Ca_22513	K	G2-like
Ca3_P2_14503491	Ca3	14503491	AATATATATATATATATATATATATAT/AA TATATATATATATATATATATAT	TGCGTTACGGTGAAAT GGTA	AGGAAGAGTGGAGTTG CGAA	60.0	374	INTERGENIC	--	--	--
Ca3_P2_14565992	Ca3	14565992	CAAAAA/CAAAAAA	CGTGAATCGTATTCGT GTG	TGTCAAAATCATGATCA AGAGGA	59.6	757	INTERGENIC	--	--	--
Ca3_P2_14600005	Ca3	14600005	ATTTTATTAATTTTATTAATTTTATTA ATTTTATTAATTTT/ATTTTATTAATTTT TATTAATTTTATTAATTTTATTAATTTT TATTAATTTT	AGAATGGGGTTAGGA TTGG	GTGTGACAAGAAAAGG GGCA	61.1	743	DRR	Ca_22507	--	C2H2
Ca3_P2_14615841	Ca3	14615841	CAAAAAACAA/CAAAAAACAAAAAAC AAA	AAGACAACCATGCCTTT TGG	GGGTGGGCTATCAAA TCAA	59.8	334	INTERGENIC	--	--	--
Ca3_P2_14653349	Ca3	14653349	A/AG	AGGAGCTTCTGCCATT GAAA	TAAAAGGAGCAAAGGC CAGA	60.0	408	INTRON	Ca_22505	O	--
Ca3_P2_14686306	Ca3	14686306	T/TC	ATTGCATTAGGGTGT GGC	CCCCGTGAGATCTCC TACA	60.1	835	INTERGENIC	--	--	--
Ca3_P2_14801451	Ca3	14801451	GATATATATATATATATATAT/GATAT ATATATATATATATATATAT	ATGAGCCACAAGCTCC AAGT	TGCCATTTGGTGAACG ATTA	59.9	357	INTERGENIC	--	--	--
Ca3_P2_1484259	Ca3	1484259	TAC/T	TTGCGGTAACCGGATA GAAC	CAGAGAGGTGTGCGTA CCAA	59.9	628	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_14843003	Ca3	14843003	AATATATATATATATATATATATAT A/AATATATATATATATATATATATATA	GAGAAAGAAGATATCG GATTCTCAA	AAAAATCAACGCAGTG GGAG	60.1	356	INTERGENIC	--	--	--
Ca3_P2_14846195	Ca3	14846195	A/AAG	GACCTCTTGAAGAAGC CGTG	TCCTCAGGGAACGATT TCAC	60.1	143	INTERGENIC	--	--	--
Ca3_P2_1486345	Ca3	1486345	ATCTCTCTCTCTCTCTCTCTCTC/ ATCTCTCTCTCTCTCTCTCTCTCTC C	TTGAAACCTTTGTAGG AAGCA	TCCTCCACCTCACAAT AGAA	59.5	371	DRR	Ca_19415	K	MYB
Ca3_P2_14874833	Ca3	14874833	GCC/GCCC	AGGTCAATTTTCTGCTC CCT	CAAACACACCTGTTGG ATGC	60.0	679	INTERGENIC	--	--	--
Ca3_P2_14880871	Ca3	14880871	TG/TGTCG	TTTCGGTCATTTTCGTC CTC	ACACACCTATCGGATG CACA	60.0	616	INTERGENIC	--	--	--
Ca3_P2_14902851	Ca3	14902851	GAA/GAAA	CGGTGGGGAGAACTCT GATA	TTACATGACATCATCC CGT	59.8	474	INTERGENIC	--	--	--
Ca3_P2_14919264	Ca3	14919264	GTTT/GTTTT	CGATTGTGTTTGTCACA GGG	GAAGCAAATCGATTGG GAAA	60.0	303	INTERGENIC	--	--	--
Ca3_P2_15039270	Ca3	15039270	TC/T	CAACACGATCATGACAA GCA	GCATTTTGCAATTTGTCA ACG	60.1	677	INTERGENIC	--	--	--
Ca3_P2_15039370	Ca3	15039370	ATTTTTTTTT/ATTTTTTTT	TGGTATTGGTAGGGAT CTTTGG	GCATTTTGCAATTTGTCA ACG	60.1	568	INTERGENIC	--	--	--
Ca3_P2_15047295	Ca3	15047295	TA/T	TACTTTGTGCCATGCTC TGC	ACACAAGCCAACACAT CCAA	60.0	117	INTERGENIC	--	--	--
Ca3_P2_15047748	Ca3	15047748	ATT/AATTT	TTGGATGTGTTGGCTT GTGT	TGCGGATGTGTTGATT GTTT	60.0	531	INTERGENIC	--	--	--
Ca3_P2_15072147	Ca3	15072147	AATATATATATATATATATATATA/A ATATATATATATATATATATATA	GAGTGGTGTGGAGTC ATGTTT	AGACATGTGTTCCCTT CCG	60.0	424	DRR	Ca_17011	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_15424721	Ca3	15424721	ATTTTTTTTT/ATTTTTTTTT	TTCGTGCCTATATGTA GATCCA	GTCGCAATTTTCAGACA ACCA	59.7	295	INTRON	Ca_17030	OE	WRKY
Ca3_P2_15463471	Ca3	15463471	CATATATATATATATATATA/CATATA TATATATATATATA	TTTGTGGATTTCATTG ATGA	TGAATTCACCGTAAC GGAA	59.0	783	INTERGENIC	--	--	--
Ca3_P2_15503247	Ca3	15503247	C/CTAAATATTAGGGAA	ATTGGGAAGTGGGAA ACTC	CGGGGTACATTGATAG CGTT	59.8	800	INTERGENIC	--	--	--
Ca3_P2_15524418	Ca3	15524418	GTTTTTT/GTTTTTTT	GACGTGTGTGTGGAA GAGC	CGGCCAAAGTAATGGA TTGT	59.8	720	INTERGENIC	--	--	--
Ca3_P2_15658491	Ca3	15658491	A/AC	AAAGCATTCCCACTACG GTG	TTGTACAGCCTAAAC CCC	60.0	343	DRR	Ca_17043	--	--
Ca3_P2_15658525	Ca3	15658525	TC/TCATTCC	AAAGCATTCCCACTACG GTG	TTGTACAGCCTAAAC CCC	60.0	343	DRR	Ca_17043	--	--
Ca3_P2_15660475	Ca3	15660475	TA/TAA	AAGTGAGCTAACGGGG GTTT	TGGACAGAGCAAGTGA GGTG	60.0	140	INTERGENIC	--	--	--
Ca3_P2_1573297	Ca3	1573297	TAAAAAAAAA/TAAAAAAAAA	ATAAGACCAAGAAGC GGCA	GCAATGCAATTGTTTG ACAC	60.0	607	INTERGENIC	--	--	--
Ca3_P2_15824653	Ca3	15824653	C/CCTGCTT	CCCTCAAGACTCCAC GATA	CATTGGCTTGAAGTG GTCT	60.1	268	INTERGENIC	--	--	--
Ca3_P2_15838572	Ca3	15838572	AATATATATATATATATATAT/AAATATA TATATATATATATATATAT	GCGTTTGTCTAACAC TCG	CCCACCGCAATATGTA GGTC	60.2	661	INTRON	Ca_17052	Q	--
Ca3_P2_15868825	Ca3	15868825	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TAT/ATATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTAT	AATCGTGCCTTTTGTCT TTT	AGGATTCTCAGTGCA AGCG	60.5	472	INTERGENIC	--	--	--
Ca3_P2_15912164	Ca3	15912164	ATTTTTTT/ATTTTTTT	ATCCCATTTTTCCATT TCC	CCCAAAATCCCAACAA AAA	59.6	213	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_16108101	Ca3	16108101	TAAAAAAAAA/TAAAAAAAAA	AAACAGGGCAAGAA GCAA	AACAGCAAAGAGAA GCGA	60.1	292	INTERGENIC	--	--	--
Ca3_P2_16133157	Ca3	16133157	GTTTTATTTATTTATTT/GTTTTATTT ATTTATTTATTT	CGTCTCTGAAGCGAT GAAA	CATTGTTGGTCACTAG CAATCA	60.0	698	INTERGENIC	--	--	--
Ca3_P2_16133384	Ca3	16133384	CAATAATAATAATAATAATAATAATA ATAATAATA/CAATAATAATAATAAT AATAATAATAATA	CGTCTCTGAAGCGAT GAAA	ATAAGCCGTCAATCTG CCAC	60.1	807	INTERGENIC	--	--	--
Ca3_P2_16133499	Ca3	16133499	TA/TACACAAAGAA	TTTGCCCCATTATAAC AAAA	ATAAGCCGTCAATCTG CCAC	60.1	625	INTERGENIC	--	--	--
Ca3_P2_16137267	Ca3	16137267	CATATATATATATATATA/CATATATA TATATATATATA	TGGCACATCTAAAATA GGAGGA	AGAAAGTCGCATCCCA GAGA	60.0	544	INTERGENIC	--	--	--
Ca3_P2_16138352	Ca3	16138352	TTATATATATATATATATATATATA/ TTATATATATATATATATATATATA TATATATATATATA	GCCACAATCTGCCCC AATA	TAGTGAAGGCATTGGC AGAA	59.4	855	INTERGENIC	--	--	--
Ca3_P2_16163642	Ca3	16163642	TAAAAAAAAA/TAAAAAAAAA	TTCAAAATCGCAACAC TGC	ACCCACAAACGCAAA GATT	59.5	795	INTERGENIC	--	--	--
Ca3_P2_16166714	Ca3	16166714	TTTTG/TTTTGCTTTG	TCAACCATCTGGGTTG GAAT	CCCCTAGCAAAGGAAA CAAA	59.2	674	INTERGENIC	--	--	--
Ca3_P2_16168531	Ca3	16168531	AG/A	TGGAGGAGGATTCCA TCTG	TGCTTTCTTGCCTGTT TTT	59.9	547	INTERGENIC	--	--	--
Ca3_P2_16171083	Ca3	16171083	T/TG	TACAGCGCTTCATTCCA CAG	CGTGCATGAGCAAAAG AAAA	60.0	468	INTERGENIC	--	--	--
Ca3_P2_16182804	Ca3	16182804	ATTTTTTT/ATTTTTTTTT	CCGGCATCACCTATCA GAGT	TCCGACCTCCTTTGAG AAGA	59.9	583	INTERGENIC	--	--	--
Ca3_P2_16190775	Ca3	16190775	CA/C	TCGCGTTCTTGATGAT GTA	AGCTCGACTTATCCTTC GCA	60.1	423	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_16195131	Ca3	16195131	AT/ATT	TGATAAAAGACTAACGA TGCAACA	TAAACCATCAATCTGCC ACG	59.5	655	INTERGENIC	--	--	--
Ca3_P2_16195368	Ca3	16195368	CATATAT/CATATATAT	ACGTGGCAGATTGATG GTTT	TTTGATGTTGCCGTAG AGGA	59.3	350	INTERGENIC	--	--	--
Ca3_P2_16195709	Ca3	16195709	AC/A	ACGTGGCAGATTGATG GTTT	GAACGTACGGAAGAGA AGCG	60.0	754	INTERGENIC	--	--	--
Ca3_P2_16197261	Ca3	16197261	TCTTAA/T	CTGCATCGAATTAATGC AACA	AAGGGGATCATGGAA AACT	59.6	316	DRR	Ca_18251	--	--
Ca3_P2_16212378	Ca3	16212378	A/AACATTC	ATGCACTTTGCCACTGT TGT	GAGGGGATGATGCTTC AAAA	60.0	879	INTERGENIC	--	--	--
Ca3_P2_16235197	Ca3	16235197	ATAATAGTAATAGTAATAGTAATAGTAA TAGTAATAGTA/ATAATAGTAATAGTAAT AGTAATAGTAATAGTAATAGTAATAGTA	TGCTCCTCTTTATGTTG GCA	GCCAGAGATGGCTATC CAAG	59.8	463	INTERGENIC	--	--	--
Ca3_P2_16253024	Ca3	16253024	TTTTTTT/TTTTTTTATTTTTT	AACACAGTGGCTGCTT CCTC	AAGAGAGGTCACCTTG GCGA	60.0	491	INTERGENIC	--	--	--
Ca3_P2_16347875	Ca3	16347875	CAAAAA/CAAAAAA	GCGTTTTATGTTGCT GGT	TATGGAAGGTGAGACA GGGG	59.9	690	INTERGENIC	--	--	--
Ca3_P2_16423935	Ca3	16423935	AATATATATATATATATATAT/AAATATA TATATATATATATATATAT	TCCAGAAAAATAATCTT CTTCACG	CAAGGATGGGTTGATC GTCT	59.9	702	INTERGENIC	--	--	--
Ca3_P2_1643316	Ca3	1643316	ATCTTTTTCTTTTTCT/ATCTTTTTCT TTTTCTTTTTCT	TCCAATCCTGATTCT GCC	TGCCATCAACCTTACAC CAA	60.0	579	INTERGENIC	--	--	--
Ca3_P2_16476513	Ca3	16476513	TNNNNNNNNN/TNNN	GGCTCACATGTGGAGG CTAT	CCAATGCCATACCATA GAGGA	59.8	344	INTERGENIC	--	--	--
Ca3_P2_16518599	Ca3	16518599	A/AACC	CTTTGGAGCAAGCTGG GTAG	TTTTGCGATGTTTGATC GTT	59.2	544	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_1653851	Ca3	1653851	TTTATTATTATTATTATTATTATT ATTATT/TTTATTATTATTATTATT TATTATTATTATTATT	TTTCTAGGGTGCAGC ATGT	ACGCGTTTGGTAGAT ATGC	60.0	627	INTERGENIC	--	--	--
Ca3_P2_16544552	Ca3	16544552	GTTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT	TGCTCGACATGTTTCTC CTT	CCACACAACTGACAA CTCCA	59.6	605	INTERGENIC	--	--	--
Ca3_P2_16568096	Ca3	16568096	TTATATATATATATATATATATA/TT ATATATATATATATATATATATATA TA	CTTGAATCGCAGCATG TGT	TTCTTGGCATTGTTGAG CAG	60.0	602	INTRON	Ca_18273	G	C2H2
Ca3_P2_16643955	Ca3	16643955	CTATTATTATTATTATTATTATTATT ATTATTATTATT/CTATTATTATTATT ATTATTATTATTATTATTATTATT	GTCGTTCTCTCTCCCC TTC	AGTCAAATCGACCGTG TTTGT	59.5	257	INTERGENIC	--	--	--
Ca3_P2_16778238	Ca3	16778238	GAAAAAA/GAAAAAA	TCCTATGGTGGCTCATC TCC	TTTTGCCTCAACAATCT CCC	60.1	359	INTERGENIC	--	--	--
Ca3_P2_16793468	Ca3	16793468	TTATA/TTATATA	TAATCAAATGCCCCAA TGT	TTGAGTTCAAGCGTGA GTGG	60.0	851	INTERGENIC	--	--	--
Ca3_P2_16820332	Ca3	16820332	AATATATATATATATATA/AATATATAT ATATATATA	AGAGGACATCGGTTAG CTGC	AAGAAAGAAGGGGTCC CAAA	59.9	633	INTERGENIC	--	--	--
Ca3_P2_1685924	Ca3	1685924	TTATATATATATATATATATATATA/ TTATATATATATATATATATATATA TATATA	CTCGCTCTCTATATCC CCC	GGGTGAAAAATTAACC AAACCA	60.0	508	INTERGENIC	--	--	--
Ca3_P2_16879724	Ca3	16879724	CT/CTCCCACTGGT	AAGCGTACCTGTGGGA ATTG	GCGGATCCACTCACTA AAGG	59.7	818	DRR	Ca_18286	R	MYB
Ca3_P2_16885390	Ca3	16885390	CTATATATATATATATATA/CTATAT ATATATATATA	CATTTTCATCAAAGGTC GCA	CAAATTTGCCACTGTCT TGC	59.3	244	INTERGENIC	--	--	--
Ca3_P2_16954725	Ca3	16954725	CATATATATATATATATATATA/CA TATATATATATATATATATATATA	TAAATGACCAAGCCGG AAAA	CGTTTGATCGATTGCA GTTT	59.3	573	INTERGENIC	--	--	--
Ca3_P2_17011730	Ca3	17011730	AT/ATTATT	AGATCGGTGTTGGAAA CTGG	TTGAGCCCAACAGTTC AATG	59.7	663	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_17033772	Ca3	17033772	AAATAATAATAATAATAATAATAATA ATAATAATAATAAT/AAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAAT	ATGCGATCATGTGGAT GAGA	TACCCCTTGTGGTCC TGAG	60.0	840	INTERGENIC	--	--	--
Ca3_P2_17039245	Ca3	17039245	CAAAAA/CAAAAAA	TTCTAACTTGTCTGTC CATTTT	GGGGTAAACCAGGAG GAAG	59.8	750	INTERGENIC	--	--	--
Ca3_P2_17039469	Ca3	17039469	CTTTT/CTTTT	TGTTTTGAGGACAAATG TTTTGA	GGGGTAAACCAGGAG GAAG	59.8	301	INTERGENIC	--	--	--
Ca3_P2_17122676	Ca3	17122676	ATTTTTTTTT/ATTTTTTTTTT	AATGCACCACTTTATGC ACG	CCAGTTTTCATTCAAG CACA	59.7	358	INTERGENIC	--	--	--
Ca3_P2_1719355	Ca3	1719355	ATATATCTATAT/ATATAT	TTTCCCTCCAACACAC ACA	CTTTTGATGCCCGATT AAA	59.9	351	INTERGENIC	--	--	--
Ca3_P2_17201946	Ca3	17201946	TTATATATATATATATATATATATATA TATATATAT/TTATATATATATATATAT ATATATATATAT	AAAATCAACATGGTGG GGA	AAGGCATGATGTTGGA GTCA	59.1	398	DRR	Ca_24619	S	--
Ca3_P2_17217773	Ca3	17217773	TCC/TC	ACAATCGGACACCGTTT CAT	TCATGTGGCAACACTG TTCA	59.7	253	INTERGENIC	--	--	--
Ca3_P2_17261676	Ca3	17261676	AATATATATATATATATATA/AATATAT ATATATATATATA	TGTGCACTTTTGAGAAA CCA	GTCAGGGCATCAACCA CTTT	60.0	395	INTRON	Ca_23345	T	WRKY
Ca3_P2_17312408	Ca3	17312408	AG/A	AGGTTTTCTGCTCGCTT GAA	TGTGTGAAACGCTAAG CGAC	60.1	178	INTERGENIC	--	--	--
Ca3_P2_17328838	Ca3	17328838	ATAGATTA/ATA	CATTTCCTAAACGAAAG CAAGG	TCCAAAGTTCGAACC AAAG	60.1	582	INTERGENIC	--	--	--
Ca3_P2_17392321	Ca3	17392321	AGCT/A	GCAACACTTGTTCGAAT GTGA	CGGATTGAAAAAGGAA CGAA	60.0	289	INTERGENIC	--	--	--
Ca3_P2_17428991	Ca3	17428991	CAAAAA/CAAAAA	CCAACGCCTATTTTGAT GGT	TGTGGTTGAGTTGGTG ATGAA	60.0	263	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_17474697	Ca3	17474697	AATATATATATATATATATATATAT AT/AATATATATATATATATATATAT ATATATAT	CCAACATGCCGACAA CTTA	TACCATTACATGCAAT GCC	60.4	765	INTERGENIC	--	--	--
Ca3_P2_17491839	Ca3	17491839	AATATATATATATATA/AATATATATAT A	TGAATTCATGGCTAAA AGCCT	GCAAAGATGATAATC GGCAA	60.1	654	INTERGENIC	--	--	--
Ca3_P2_17542001	Ca3	17542001	TAAAAAAAAA/TAAAAAAAAA	TTCATGAGGTTGTTG GCC	GAATCGACAAACGGAG GAAA	60.1	540	INTERGENIC	--	--	--
Ca3_P2_17579559	Ca3	17579559	TAAAA/TAAATAAAAA	TGCATTTTCACCAACAT CGT	AATCACCGAGCTGAAA TCAAA	59.7	912	INTERGENIC	--	--	--
Ca3_P2_17706970	Ca3	17706970	AATTATTATTATTATTATTATTATTA TTATTATTA/AATTATTATTATTATTATTA TTATTATTATTATTA	ACGGAAGCAGATGGTA GTGG	ATTTTAACAGATGGCC GCAT	59.4	517	INTERGENIC	--	--	--
Ca3_P2_17725458	Ca3	17725458	CATATATATATATATATAT/CATATAT ATATATATATATATAT	AGAAGAAGGAGGATTC GCGT	GCGATTGGGAGAGAA ACAG	59.8	572	INTERGENIC	--	--	--
Ca3_P2_17791032	Ca3	17791032	GAAAAA/GAAAAA	GGACGGAAAAACAATAT GGG	CCTCATACGCGATTG GATT	59.9	283	INTERGENIC	--	--	--
Ca3_P2_17819480	Ca3	17819480	AATATATATATATATATATATATATAT ATATA/AATATATATATATATATATATA TATA	AACGATCTGATTGTAAT GTGTTTCTT	GTCGTGAACGGTGCTA CATC	59.2	884	INTERGENIC	--	--	--
Ca3_P2_1786985	Ca3	1786985	AAAAATTAAATTAAATTAAATT/AAA AATTAAATTAAATT	TTTTAATTGAGCTTTG GTCCCTC	CTCACGAAACGGTCT TTCTA	59.4	404	INTERGENIC	--	--	--
Ca3_P2_17940721	Ca3	17940721	GAAAAAAAAA/GAAAAAAAAA	GGCTAAATTACATTTG GGTCCC	GGCTAAATTATATTCG GGTCCC	60.0	382	INTERGENIC	--	--	--
Ca3_P2_18015978	Ca3	18015978	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATAT ATAT	TCAGCAATAGAAGCCAA ATGC	CGAACTTGGCCGTACG TCTT	60.3	470	INTERGENIC	--	--	--
Ca3_P2_18065169	Ca3	18065169	TTATATATATATATATATATAT/TTATA TATATATATATATATAT	TCTTGGAACAAACGCAC TCA	TGCCCTATTGCACATC GTAA	60.1	760	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_18153020	Ca3	18153020	CTTTTTTTTTTT/CTTTTTTTTTTT	TACCAATGCGTTGATCG AAA	TTGAAGTTGAAATCCC CTCG	60.0	782	INTERGENIC	--	--	--
Ca3_P2_18178087	Ca3	18178087	T/TA	AACAGTGGTTGTCCAC GTCA	CTTCGCTGCTGCATAT ACCA	60.0	148	INTERGENIC	--	--	--
Ca3_P2_18192577	Ca3	18192577	GTTTTTTTTTT/GTTTTTTTTTT	GCTGTAAATGCACCC CATT	TTGTTGTGTGCCCTGA TTGT	60.0	451	DRR	Ca_21141	--	--
Ca3_P2_18241779	Ca3	18241779	CTATATATATATATA/CTATATATATAT ATA	CTCTACCACGCGATTAC GGT	GGAAGTGATGGGTGAA ATGG	60.2	390	INTERGENIC	--	--	--
Ca3_P2_18268210	Ca3	18268210	GAAAAAAAA/GAAAAAAAA	AACGAAGAAGTTGAGG TGGC	CCGAATTGCTCTTCATT GGT	60.1	940	DRR	Ca_19613	O	--
Ca3_P2_18272727	Ca3	18272727	A/AC	TTTGCCAATCGATTATC GTG	GGGCAATCGACTGACT GAAT	60.1	683	INTERGENIC	--	--	--
Ca3_P2_18291883	Ca3	18291883	CAAAAAAAAA/CAAAAAAAAA	GAAAGAGATCAAACTC GCGG	TGCAATATTTCAGGCTA ATCGTT	60.0	879	INTERGENIC	--	--	--
Ca3_P2_18345308	Ca3	18345308	TAAAAAA/TAAAAAA	GGTTTCCTCCTAAGTT AAGGGT	GCGGTGCAATCAGTAA ACCT	60.1	271	DRR	Ca_19619	O	--
Ca3_P2_18454468	Ca3	18454468	ATT/A	GCGCGTGAATAATGA GACT	TACACGATGCATCTAC CCCA	59.9	518	INTERGENIC	--	--	--
Ca3_P2_18536264	Ca3	18536264	GAAAAAAAA/GAAAAAAAA	TTACGGTGACCAATTC AAA	TTCATTGCAATTCCTT TCACAA	59.6	574	INTERGENIC	--	--	--
Ca3_P2_18632022	Ca3	18632022	AATATATATATATATATAT/AATATATA TATATATATATATAT	TGGGGCTGGTCCAATA TAAA	AGATGTGGGGACAACG ACTC	60.0	399	INTERGENIC	--	--	--
Ca3_P2_18647131	Ca3	18647131	ATTTTTTTTT/ATTTTTTTTT	AATTGATTTAAGCCCAA AAATAGA	AGAAGTGGCAAGATGG ATGG	60.1	576	DRR	Ca_19638	Q	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_18663228	Ca3	18663228	AATT/AGAGTTTAAACAAATTATT	TGTGCACAACATCATCG GATT	AAAAGCGTGATTTTGT GGG	60.0	260	INTERGENIC	--	--	--
Ca3_P2_18695410	Ca3	18695410	AAATAATAATAATAATAATA/AAATA ATAATAATAATAATAATA	CTCTAGGTTTGCCTT GTCC	TCGACTGTGGGATTGA CAAA	60.1	776	INTERGENIC	--	--	--
Ca3_P2_18835973	Ca3	18835973	TAAAA/TAAAAA	ATTTCCGATTCTGCAT TCG	CCGACAATCTCCCAAT CAAT	59.8	627	INTERGENIC	--	--	--
Ca3_P2_18862499	Ca3	18862499	TGG/TG	GGAATCGGGTAACAAA TCCA	CCGATAACAAATCCCA ACG	60.2	241	INTERGENIC	--	--	--
Ca3_P2_18943181	Ca3	18943181	AAT/A	TGGAGTGTGATGTCG TTGTC	AAATCGAAGATCGCAA CAGT	57.4	428	INTERGENIC	--	--	--
Ca3_P2_19056367	Ca3	19056367	ATATTATTATTATTATTATTATTATT ATTATTATTGTTATTATTATTATTAT TATTAT/ATATTATTATTATTATTATT ATTATTATTATTATTATTGTTATTAT TATTATTATTATTATTAT	CAACACAACGATAATGG GCA	GACATTGGTTGGGGTT TGAC	60.1	717	INTERGENIC	--	--	--
Ca3_P2_19062819	Ca3	19062819	AATATATATATATATATATATATAT ATATATATATATA/ATATATATATATATA TATATATATATATATATATATA	CATGCTAAATAACATGA AGAATGC	GCAGGTTTGACAGTGA GCAA	60.0	637	INTERGENIC	--	--	--
Ca3_P2_19062993	Ca3	19062993	AG/AGG	TTGTTTCATCAATTAC AATGCG	GCAGGTTTGACAGTGA GCAA	60.0	185	INTERGENIC	--	--	--
Ca3_P2_19089322	Ca3	19089322	T/TATC	CACCGTTGACCAGTTT GATG	CACGGGAAACTCGATG ATCT	60.1	713	INTERGENIC	--	--	--
Ca3_P2_19138250	Ca3	19138250	CTTTTTTTTT/CTTTTTTTTT	TGCCAGCCTAGTCTGTT GTG	GAGATTAGAACCATCA AATTGTCA	58.6	556	INTERGENIC	--	--	--
Ca3_P2_19141746	Ca3	19141746	TTTTATTATTATTATTATTATTATTAT TTATTATTATTATTATT/TTTATTATTAT TATTATTATTATTATTATTATTATTAT	GGAGCTCCTGGTTACA AAACA	GGGTGTACATTGGTTG GGTC	60.0	484	INTERGENIC	--	--	--
Ca3_P2_19148213	Ca3	19148213	CATATATATATATA/CATATATATATA TATATA	GCACAAGACTTTACGTC CATCTC	TATTTGTGTCGTGCG CATT	60.1	691	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_19163962	Ca3	19163962	GGTGTGTGTGTGT/GGTGTGTGTGT	AGTTAACCACGAAAC CCCT	TTAGCAATCAAACCAAC GCA	60.3	321	INTERGENIC	--	--	--
Ca3_P2_19181508	Ca3	19181508	GCC/GC	GAAGGCTTGTTTTGTG CGA	TGAGATGCTTCGTCCA GAGA	59.7	896	INTERGENIC	--	--	--
Ca3_P2_19198715	Ca3	19198715	A/AC	TCTTCCACCCAGTTTTC ACC	ACCGAGGAATGATATC GACG	59.9	385	INTERGENIC	--	--	--
Ca3_P2_19358625	Ca3	19358625	GTTTTTTTTTTTT/GTTTTTTTTT	AAGATTGGTCCGTTAT GCG	GTGGGAATGAACAAAG GACG	60.4	517	INTERGENIC	--	--	--
Ca3_P2_19359038	Ca3	19359038	TAAAA/TAAA	CGTCCTTTGTTCATTCC CAC	TGAGGGCCTTTAGAAT CGTG	60.2	670	INTERGENIC	--	--	--
Ca3_P2_19359334	Ca3	19359334	CCA/C	AGGGAAATCAACGACA GAGC	TGAGGGCCTTTAGAAT CGTG	60.2	365	INTERGENIC	--	--	--
Ca3_P2_19362553	Ca3	19362553	TAAAAA/TAAAA	CCAAATGATGTTGCAG GGT	TCATCATCATTGAAAAT CCGTT	59.3	361	INTERGENIC	--	--	--
Ca3_P2_19368426	Ca3	19368426	GTTTTTTT/GTTTTTTTTT	GGCACTCAAAGTGTG GGTT	TGGGTTAGCTTTTGGG ATTG	59.9	920	DRR	Ca_19336	--	--
Ca3_P2_19368565	Ca3	19368565	GTTTTT/GTTTTTT	GGTGATGCATGATGATT TGC	TGGGTTAGCTTTTGGG ATTG	59.9	630	DRR	Ca_19336	--	--
Ca3_P2_19369038	Ca3	19369038	CCAACAAC/CCAAC	CAATCCCAAAAGCTAAC CCA	AAGAATCTGCGCCAAC ATCT	59.8	173	INTERGENIC	--	--	--
Ca3_P2_19371062	Ca3	19371062	TAAAAAAA/TAAAAAAA	TTCATTGGATTGTTTGT GGG	GAATTCTGCGTTTTTTC TGC	59.8	845	INTERGENIC	--	--	--
Ca3_P2_19373696	Ca3	19373696	TAA/TA	GCTGAATGCGTGAAGA ACAA	GGGTAGAAAACACGCG GAAT	61.2	339	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_19375049	Ca3	19375049	AAAAGAAA/AAAAGAAAGAAA	TCTCCGTTCCATTACA CGA	AACTCCAAATCCCTGCT CAA	59.7	365	INTERGENIC	--	--	--
Ca3_P2_19375109	Ca3	19375109	GAGA/GAGAGAGAGAGAGAAGA	TCTCCGTTCCATTACA CGA	AACTCCAAATCCCTGCT CAA	59.7	365	INTERGENIC	--	--	--
Ca3_P2_19376077	Ca3	19376077	A/ATTT	TGACCTTGTGCATTGTT TTGA	GCAAACTCAACCTTGC CAAT	60.1	333	INTERGENIC	--	--	--
Ca3_P2_19380131	Ca3	19380131	TG/T	TTGGAGAGAATACTCC CCGTT	TGACGATCAGGAACAC CAAA	60.1	413	INTERGENIC	--	--	--
Ca3_P2_19381558	Ca3	19381558	TTATTATTAT/TTATTATTATTAT	GGAGAAAAGCATCGAA AAGC	ACCTAACCTCCAAGC CAGT	60.0	338	INTERGENIC	--	--	--
Ca3_P2_19382845	Ca3	19382845	TTT/TTTATT	TAGGGGCATATGGTCT CGTC	ACCACATGATGCTCTC CACA	60.1	782	INTERGENIC	--	--	--
Ca3_P2_19383912	Ca3	19383912	CAAA/CAA	GTCAGGTCAGGCTGGA AAAA	TCGTCTTAATCCACTTG GTGC	60.1	436	DRR	Ca_19337	--	--
Ca3_P2_19384308	Ca3	19384308	CTTTTTTTT/CTTTTTTTTT	GCACCAAGTGGATTAA GACGA	TCAAGATAACCACCGC AACA	60.1	745	DRR	Ca_19337	--	--
Ca3_P2_19384571	Ca3	19384571	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/ TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTA	GGGATTGGACTATTGG ATGG	ACGAGGCAGTTGCTCA TCTT	60.0	659	DRR	Ca_19337	--	--
Ca3_P2_19402891	Ca3	19402891	AGA/AAGATGA	ACCCAATCCAAGTTTGT CCA	GAAGGCGACCTCAAAG ACTG	60.0	632	INTERGENIC	--	--	--
Ca3_P2_19403408	Ca3	19403408	CC/CCTTTC	AGGGTAATCCGCCAGT CTTT	GCAACATTCGTCCTCT CCAT	60.1	674	INTERGENIC	--	--	--
Ca3_P2_19471860	Ca3	19471860	TAAC/TAACAAC	TGATGGTTTCTTTATTC CGTGA	GGTCAAAACCAAGGA AACA	59.8	223	INTRON	Ca_19344	Q	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_20005707	Ca3	20005707	AATATATATATATATATA/AATATATATAT ATATA	CCACAACAGAACGATG TTGG	TTCCCAAACTATTAT GCATGG	60.1	312	INTERGENIC	--	--	--
Ca3_P2_20011560	Ca3	20011560	GTTGACACTT/GTTGACACTTGACACTT	GCAATTGCAAGAGCGT GATA	TTTGGCATGCAATCAA CAT	59.9	277	DRR	Ca_09404	--	--
Ca3_P2_20128194	Ca3	20128194	A/AATAATT	GGGGCCAAATGTAAAA GGTT	CCCAATTAATGGGAAG GGTAA	59.9	111	INTERGENIC	--	--	--
Ca3_P2_20159047	Ca3	20159047	AATATATATATATATATATATATATAT A/AATATATATATATATATATATATATA TATATATATA	GATTGTTTATGCGCAAG GGT	TGCTTATCCCCTCCTT CCT	60.0	489	INTERGENIC	--	--	--
Ca3_P2_20221448	Ca3	20221448	TATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATATTA ATAATAATAATAA/TATAATAATAATAA AATAATAATAATAATAATAATAATAA TAATAATAATAATAATATTAAATAATAA ATAA	CCTGAGTGTTCGAGA GGC	GGGAAACCCACCTCTT GATT	60.2	772	INTERGENIC	--	--	--
Ca3_P2_20221557	Ca3	20221557	AT/ATT	TGGTTGGATGTGTGA AGTTG	GGGAAACCCACCTCTT GATT	60.2	727	INTERGENIC	--	--	--
Ca3_P2_2023417	Ca3	2023417	CTTTTTTTTT/CTTTTTTTTT	TCTCTGGCAACCGTTCT TCT	TGACAGTCAGAGTGC ATCC	60.0	436	INTERGENIC	--	--	--
Ca3_P2_20313249	Ca3	20313249	TTATATATATATATATAT/TTATATATA TATATATAT	TGATGCTCTTTTCCCC TTTT	AACAATAAAAGTCCGAT TGCC	58.1	532	INTERGENIC	--	--	--
Ca3_P2_20329423	Ca3	20329423	CTTTTTTTTT/CTTTTTTTTT	AGTTGTGGTTGCTCG CTCC	ATGGTAGAAGGGGCCA AACT	59.8	316	DRR	Ca_09430	--	--
Ca3_P2_20343217	Ca3	20343217	TAAAAAAAAA/TAAAAAAAAA	TTCACCCACTTCATTG AAAC	GTCTCTTTTTCACCCC ACA	59.9	887	INTERGENIC	--	--	--
Ca3_P2_20347422	Ca3	20347422	AATATATATATATATATATATATATAT ATATAGATATATATATAT/AATATATATA TATATATATATATATATATATATAG ATATATATATAT	TTGTATGATGTCTCCTT GACCA	CTTTCCAATCGACCTG CAT	60.1	777	INTERGENIC	--	--	--
Ca3_P2_20349202	Ca3	20349202	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	ACTGCCTAGCTCACTG CCA	GGCGATTTTCATCGTG AGTT	60.1	417	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_20439188	Ca3	20439188	TGAAG/TG	CCGGTTTCATTCAAAA TGG	TGTTCAGCCTTGTGT CAGC	60.0	565	INTERGENIC	--	--	--
Ca3_P2_20445164	Ca3	20445164	TTATATATATATATATATATAT/TTA TATATATATATATATATAT	AGTGCCACATGTAAC CCC	GTTTGGCGTTGGTTT CACT	60.0	815	INTERGENIC	--	--	--
Ca3_P2_20473105	Ca3	20473105	TAAA/TAA	AAAGCGGAAAAAGC TCAC	CCCTCACCTCTCTGC TCTA	59.5	807	DRR	Ca_09437	GC	HSF
Ca3_P2_20526351	Ca3	20526351	TTATATATATATATATATATATATA TAT/TTATATATATATATATATATAT	TGCATGTTCTTACGCT GTC	AATTCACAAGACGCC TTCC	59.9	504	INTERGENIC	--	--	--
Ca3_P2_20559803	Ca3	20559803	ATTTTTT/ATTTTTTTT	GCGCTTCGAATGTTGA CCT	TGAATTTGTTGAAGA TTTTAAGC	58.7	765	INTERGENIC	--	--	--
Ca3_P2_20617847	Ca3	20617847	AATATATATATATATATATATA/AATAT ATATATATATATATATATA	AATCGATTGGCTGAAAT CCA	TCGAGTTTGAGCATGT GAGG	60.0	809	INTERGENIC	--	--	--
Ca3_P2_2065051	Ca3	2065051	AATTATTATTATTATTATTATTATTA TTA/AATTATTATTATTATTATTATTA TTA	CGACCATGTAGTGAGG CAAA	AATAATTGCCCTACACC AACAA	58.4	685	INTERGENIC	--	--	--
Ca3_P2_20672094	Ca3	20672094	CAAAAAAAAA/CAAAAAAAAAA	TGTGCGGAAGAATTGA TGAG	TTCCCCCTTCTTTCA CCT	60.0	718	INTRON	Ca_09450	--	--
Ca3_P2_20728954	Ca3	20728954	A/AAAT	ATCGTCACATCTCCAC CTC	GATTGAGTCCGGTTG TCGT	60.0	229	INTERGENIC	--	--	--
Ca3_P2_20750487	Ca3	20750487	CTTTATTTATTTATTTATTTATTTATTT TATTTATTTATTTATTTATTT/CTTTAT TTATTTTATTTATTTATTTATTTATTTA TTTTATTTATTTATTTATTTATTT	TGTTATGTTGGGTTTG GCT	TGCAGATGGGTGAGT GTGT	60.2	875	INTERGENIC	--	--	--
Ca3_P2_20811683	Ca3	20811683	CATAATAATAATAATAATAATAATAA TAATAATAATAA/CATAATAATAATAA TAATAATAATAATAATAATAATAATA ATAATA	ATTCCACATAAGCGTT GCC	CGATTGTGGACAATGG AAGA	59.5	361	INTERGENIC	--	--	--
Ca3_P2_20956913	Ca3	20956913	ATTTTTTTTT/ATTTTTTTTT	TTGCAAGGCCCAATAA AAC	TTTTCCGGAAGCCACT TATG	60.1	445	DRR	Ca_09466	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_21583634	Ca3	21583634	CTTTTTTTTTTTTT/CTTTTTTTTT	CAATTCCACAGGTAC GCTT	AAGAGAGGTCACTTG GCGA	60.0	812	INTERGENIC	--	--	--
Ca3_P2_21599415	Ca3	21599415	CAAAAA/CAAAAAA	GCAGCAGTTGTTGCA GAAG	TCTCTTGCATGCCTAAC ACG	60.0	941	INTERGENIC	--	--	--
Ca3_P2_21603413	Ca3	21603413	GATATATATATA/GATATATATATATA	TGAGTCAACAAACATC ACAACA	GCCTCTCTAATCCACT CCCC	60.0	324	INTERGENIC	--	--	--
Ca3_P2_21635589	Ca3	21635589	GCATCATCA/GCATCA	AAGCATGCCAAACAAA AAC	TGAACATCAAGATCTG CGG	59.8	521	INTRON	Ca_09516	--	--
Ca3_P2_21635884	Ca3	21635884	CGAAGACAAAGAAGA/CGAAGA	TGTCATGTTGTGGAGG AGGA	GGAAGCAATAGAAAAT GGCG	59.7	573	CDS (large-effect mutations)	Ca_09516	--	--
Ca3_P2_2176981	Ca3	2176981	GATTATTATTATTATTATTATTATTA TTATTATTATTATGATTATTATTATT A/GATTATTATTATTATTATTATTATT ATTATTATTATTATGATTATTATTATTA	ACGGATTGTGTTTGCT TCT	CCTCTTCTCGGTGAT CTTTTG	60.2	906	INTERGENIC	--	--	--
Ca3_P2_21874469	Ca3	21874469	ATTTTCTTT/ATT	CAATGCACAAAAGTGTG GGT	ATTGTTTCGCTTTTGCT TGT	60.7	887	INTERGENIC	--	--	--
Ca3_P2_21897869	Ca3	21897869	ATATTATTATTATTATTATTATTA/AT ATTATTATTATTATTATTATTA	GAGTTGAGTGTGCCA GGGT	AGCTACCAAGCTGATG GTGAA	59.9	296	INTERGENIC	--	--	--
Ca3_P2_21989858	Ca3	21989858	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATAT ATAT	TGAAGCAACCAATAA ATCCA	GACCGGTGGTAGACCT TTGA	60.0	592	INTERGENIC	--	--	--
Ca3_P2_22042563	Ca3	22042563	CTTTTT/CTTTTTTT	AGGAAAGTGCCATGTG AAAAA	TCGTAGGTCAGTTCA GACCG	60.3	764	INTERGENIC	--	--	--
Ca3_P2_22124545	Ca3	22124545	A/AGT	TCAATGTAAGGACCAGA TGAATG	CGGTTTGGTTTGGTTG AGTT	59.9	296	INTERGENIC	--	--	--
Ca3_P2_22125727	Ca3	22125727	CAAAA/CAAAAA	TAACCCCTTGATCCTTG CAG	AGGGTTCAGCTAAGTG CCAA	59.9	647	DRR	Ca_20414	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_22160995	Ca3	22160995	CAAAAAA/CAAAAAA	CCTTTTCCTTCCCTTC CTG	CAATGTGCTCACTTTG TCTCA	59.0	527	INTERGENIC	--	--	--
Ca3_P2_22165237	Ca3	22165237	AG/A	TTTGAAATGCCAATAA GTTTGAA	CATGCAATGCACGAGA TCAT	60.7	502	DRR	Ca_20412	U	--
Ca3_P2_22287300	Ca3	22287300	GATATATATATATATATATATAT/GAT ATATATATATATATATATAT	TCACCAAAATGGTCAC TGA	TGTTCTTCTTCCCCAG ATG	60.0	913	INTRON	Ca_06280	K	MIKC
Ca3_P2_22377503	Ca3	22377503	TGTT/TGTTAGTT	TTCATTAACGCTTATC CCTCA	TGCAACTCTAACACG ACAA	58.2	694	INTERGENIC	--	--	--
Ca3_P2_22439659	Ca3	22439659	AATATATATATATATATATATATA/AAT ATATATATATATATATATATATA	CGGGTGCAGGTGTAGA TTTT	GGACCACGGATGTAAT TTGG	60.1	335	INTERGENIC	--	--	--
Ca3_P2_22478435	Ca3	22478435	AATATATATATATATATATATATATAT ATATATAT/AATATATATATATATATAT ATATATAT	AATTATTGCGTGCATG TGA	CAAAGAAACAGAAATG GGAGG	58.7	638	INTERGENIC	--	--	--
Ca3_P2_22482988	Ca3	22482988	CAA/CA	TTGGATGGAGAAGAA TCAA	TGGATCAACCCCTCA ATTT	59.2	551	INTERGENIC	--	--	--
Ca3_P2_22534501	Ca3	22534501	TTTATTATTATTATTATT/TTTATTATT ATTATTAT	CAACGAGGGATGGGAA TAGA	GTGCACGGTACAAAC TCCT	60.0	594	INTERGENIC	--	--	--
Ca3_P2_22565599	Ca3	22565599	AATATATATATATATATATATATATAT A/AATATATATATATATATATA	CAATTCCTTCTCTTTT GGCA	ACTGCGAGTTAGCGGT GAGT	60.1	690	INTERGENIC	--	--	--
Ca3_P2_22597436	Ca3	22597436	TTAAGTTGATATAAGTTGATAT/TTAAGT TGATAT	ATAGGTTGGGTTATTC GGC	GAAATGAGGGTGGGG AAAT	60.0	374	INTERGENIC	--	--	--
Ca3_P2_22661182	Ca3	22661182	AATTATTATTATTATTATTATTATTATTA TTATTATTATTATTAT/AATTATTATTATT ATTATTATTATTATTATTATTATTAT	AGAGAAGGTGAGGGG TGTT	AGCCTGATAGGTGGT GAAA	59.6	763	INTRON	Ca_06245	R	--
Ca3_P2_22676886	Ca3	22676886	CTTTTTTTTT/CTTTTT	TTTCTCCATGTAATCAA TGTCG	ATATTTTATCCGCGGT CCT	59.7	888	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_2273008	Ca3	2273008	CAAAAAAAAA/CAAAAAAAAA	TAAAGGATCGGACCA CTTG	GGCGATCCAAGAGTTC AATC	59.6	822	INTERGENIC	--	--	--
Ca3_P2_22892590	Ca3	22892590	CTTTTTTTTT/CTTTTTTTTT	TCTTTGTCAAGCACACA TTTGA	GAGTTGATATCCGACA CCCAA	59.8	793	DRR	Ca_06218	--	FAR1
Ca3_P2_22934054	Ca3	22934054	G/GCCGATACAATTGT	CCACATTATGCCTTCGG TTT	GGTTTTCGCATATTT CCA	59.9	210	INTERGENIC	--	--	--
Ca3_P2_22936637	Ca3	22936637	TTAATAATAATAATAATAATAA AATAAAAAATAATAATAATAA TAATATTAATTAATAATAATAA ATAATAATAATAATAATAATAA AATAATAATAATAATAATAATAA ATAATAATAATAATAATAATAA	ACCACAAATTCGAGGA CGA	TGAAAGATGTGGGTAG CAATAA	57.3	778	INTERGENIC	--	--	--
Ca3_P2_22951232	Ca3	22951232	GTTTTTTT/GTTTTTTT	CAAACGTGCAATTACG GATT	CCAACTTCATCCTTCTC ACCA	60.1	538	INTERGENIC	--	--	--
Ca3_P2_23014028	Ca3	23014028	CAAAAAAAAAAAAA/CAAAAAAAAA AA	GGATGTTGCACAATCAA GGA	GGCAGTGGTAGTGAAG CACA	59.9	370	INTERGENIC	--	--	--
Ca3_P2_23016776	Ca3	23016776	TCCTACCT/TCCT	GCACACCTATGTGGTC TTGC	CCATTTTGTGCAAGTTT GGTT	59.0	615	DRR	Ca_06208	QR	B3
Ca3_P2_23102761	Ca3	23102761	CTATATATAT/CTATATATAT	CACCTTGTACATTAC AGACA	CCTTGAAGTTAACAAT TTCGT	57.4	543	INTERGENIC	--	--	--
Ca3_P2_23111581	Ca3	23111581	CATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATT ATT/CATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATT ATTATTATTATTATT	CCAATGCCACCACTAAC CAT	AATATTGGTCTCTGCCA CCTT	57.7	759	INTERGENIC	--	--	--
Ca3_P2_23112762	Ca3	23112762	TT/TTTCCTGATACTTCGT	TGATGCCAATTTGGTCT TGA	TTCGAATCCGTCACAAA TGA	60.0	628	INTERGENIC	--	--	--
Ca3_P2_23121593	Ca3	23121593	AGG/AG	TCCGCTTATTTGGTT CGG	ACGGATGTACCTGGGT TGAG	59.8	769	INTERGENIC	--	--	--
Ca3_P2_23136591	Ca3	23136591	ATTT/ATTTT	GGGTGAGTTTCTGGGT CTCA	CTTCAACAATGGTCC CTCAA	60.0	723	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
Ca3_P2_23201611	Ca3	23201611	TAGGTCGATCAG/TAG	AAAAAGGAGAGTTCTCC GGC	ATCGAGCGAACACATT GTCA	60.3	677	INTERGENIC	--	--	--	--
Ca3_P2_23219721	Ca3	23219721	CATTATTATTATTATTATTATTAT/CA TTATTATTATTATTATTATTATTATT ATTAT	GATTAGAGCGGCCAAA ATGA	TTTTCATTAGTCGGGT GGC	59.9	593	INTERGENIC	--	--	--	--
Ca3_P2_23252453	Ca3	23252453	TAA/TA	TCGGAAAATGAAAATGC TGA	TCCAAACATTGTTGACA CATCA	59.9	208	INTERGENIC	--	--	--	--
Ca3_P2_2327052	Ca3	2327052	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA A	GATACGGAACCATCGC ACTT	TTGGTTTCGTTCTCCAT TCA	59.1	343	DRR	Ca_19393	K	MYB	
Ca3_P2_23308159	Ca3	23308159	CTTTTTTTTT/CTTTTTTTTTT	TTGCCTTCATGCTTCTC CAA	CATGTTCCGATATGCC ACTG	59.9	461	INTERGENIC	--	--	--	--
Ca3_P2_23322269	Ca3	23322269	TAAAAAAAA/TAAAAAAAA	GAGTGTGATGTCCAGG CTCA	CCCCTCTTCGAGACT TTGA	59.4	735	INTERGENIC	--	--	--	--
Ca3_P2_23356020	Ca3	23356020	GA/G	TCGTTTCCGGAGTCAA GTTT	TGGGCTGGTATGTGAC TTTG	59.6	718	DRR	Ca_06185	O	--	--
Ca3_P2_23370537	Ca3	23370537	TAACCCCTAAACCCTAAACCCTAA/TAAC CCTAAACCCTAA	TCAAACCAAATTGTTT TCCG	GGGTTTAAGGTTGCGG GTTA	60.0	778	INTERGENIC	--	--	--	--
Ca3_P2_2339879	Ca3	2339879	ATTTTTTTTT/ATTTTTTTTT	TTATGCAATGGCGATGA AGA	CGTTGAGACGTGGCTG ATAA	59.9	660	INTERGENIC	--	--	--	--
Ca3_P2_23424382	Ca3	23424382	TATTAATAAT/TATTAATAATTAATAA AT	CATTGTCTGGACTACAT TGTGTGA	GAAGGGATCAATTTCT ACCCA	58.0	674	INTERGENIC	--	--	--	--
Ca3_P2_23530917	Ca3	23530917	AATATATATATATATATATATAT/ATA TATATATATATATATATATATAT	ACCCATTAGCGTAGGA GTGC	AACGTAAATGCACTTGA ACCG	60.0	786	INTERGENIC	--	--	--	--
Ca3_P2_23541848	Ca3	23541848	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATATAT ATATATATATATAT	ATAAGTTGGCGTTGCCT CTG	CGTCATATGGCGAAAT AGATTG	59.5	518	INTERGENIC	--	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_23551096	Ca3	23551096	AACAATTTACAATTACGATTACAATT T/AACAATTTACAATTACAATTACGAT TTACAATTT	TCCATTTTGATTCCCT TCA	TCCTAAATCGTGAA CTGA	59.8	363	INTERGENIC	--	--	--
Ca3_P2_23572160	Ca3	23572160	CATATATATATATATAT/CATATATAT ATATATATATAT	TGTGAACACCTCACACA TCAAA	TTTGAATTTTCAATTA ACGCAA	58.8	560	INTERGENIC	--	--	--
Ca3_P2_23642178	Ca3	23642178	CCTAG/CCTAGCTAG	TGTCAAACCTTTGGAGCT TCG	GGTGTCTATCCGAGC AAAA	60.1	737	INTERGENIC	--	--	--
Ca3_P2_23651690	Ca3	23651690	TTAATAATAATAATAATAATAATAAT AATAAT/TTAATAATAATAATAATAAT AATAATAATAATAAT	GGTACGTTTGGCTTG CAGC	TGAGCGCTTATGATCC ATTTT	59.7	529	DRR	Ca_06162	--	NAC
Ca3_P2_236571	Ca3	236571	CGAGAGAGAGAGAGA/CGAGAGAGAGA GA	CAATTCACAGCAAAAGC GAA	CCTAGGGTTTCTTCCC CTCA	60.4	191	INTERGENIC	--	--	--
Ca3_P2_23830553	Ca3	23830553	ACTCTCTCTCTCTCTCTCTCTCTCTC /ACTCTCTCTCTCTCTCTCTCTCTCTC CTCTC	TCACGAAATTTGGTCCC CTTA	GGGACCAAACTGGAG AGAA	59.1	878	INTERGENIC	--	--	--
Ca3_P2_23863549	Ca3	23863549	ATT/ATTT	TTAACCGCCAACGATGT GTA	TCATTACTCACCAGAAT TGGAA	57.2	644	INTERGENIC	--	--	--
Ca3_P2_23876465	Ca3	23876465	GTATATA/GTATATATATA	CATAATCCATCGTCTCT CGT	TCGGTTAACTGGCCAA ACTC	60.1	568	DRR	Ca_06137	--	--
Ca3_P2_23993355	Ca3	23993355	AATAAATTATAAATTATAAATTA/ATAA ATTATAAATTA	CCGAGCCAAAATCCAAA ATA	GTTTGGGGCACAATTG AGAT	59.8	599	INTERGENIC	--	--	--
Ca3_P2_24011224	Ca3	24011224	ATTT/ATT	TCATGAAGATTTGGAAG AGAAAGA	TGTTGCTACGCTGAAA CTGG	60.1	272	INTERGENIC	--	--	--
Ca3_P2_24014416	Ca3	24014416	ATTTTTTTTT/ATTTTTTTTT	CGCATTGTAGTTTCGT CTTTG	AGGCTTCCATGTCAGG TCAG	60.3	653	INTERGENIC	--	--	--
Ca3_P2_24033300	Ca3	24033300	TTAATAATAATAATAATAATAATA/TT AATAATAATAATAATAATAATA	TCCAAGAAAAGTGTG GAAATG	CCTTCCTACGCCTCAA ATCA	60.2	376	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_240424	Ca3	240424	GGTTCAATGGGTAATAACA/GGTTCAAT GGGTAATAACAGTTCAATGGGTAATAA CA	AAACTGCCATCCACAAG GTC	CATCATTTCCAACAATC CCC	60.0	671	INTERGENIC	--	--	--
Ca3_P2_24069078	Ca3	24069078	GAAAAAAAA/GAAAAAAAAA	CCAATCAACATACACAC GCC	GAGGTGCCGAAGCTCA TAAC	59.8	511	INTERGENIC	--	--	--
Ca3_P2_24117383	Ca3	24117383	TTACATACATACATAC/TTACATACATAC	GAAGAGGTGCTTGGTG GAGA	TACACCAGAATTTGCTC CCC	59.9	342	DRR	Ca_06107	O	--
Ca3_P2_2414966	Ca3	2414966	A/AC	TTAATGAGGGGCTGAA TTGG	AAGCGTACCTGTGGGA ATTG	60.0	259	INTERGENIC	--	--	--
Ca3_P2_24184057	Ca3	24184057	TC/TCC	CCAGCCCACACTAGGT GTTT	AAAATCCAACAATCTCC CCC	60.0	549	INTERGENIC	--	--	--
Ca3_P2_24193117	Ca3	24193117	ATTT/ATT	TAAGGTTACAGGTTATGG CCG	CGCCACTATGTCGGCT ATT	60.1	695	INTRON	Ca_06100	J	--
Ca3_P2_24272959	Ca3	24272959	GAATAATAA/GAATAATAATAA	GCATGTCGTTACCTC CACT	GCGATTATTATTGAGA GTTATTAGCG	60.0	646	INTERGENIC	--	--	--
Ca3_P2_2441504	Ca3	2441504	AGGG/AGG	CATGCATAGCTTCGTAG GCA	CCTTGCCTGATAATTG GGAA	59.9	810	INTERGENIC	--	--	--
Ca3_P2_24470050	Ca3	24470050	AAATAATAATAATAATAATAATAA ATAATAATAA/AAATAATAATAATAA TAATAATAATAATAATAATAATAA	CCTCCTCTTTGGCAGC TTA	ACCAAAATGCCACACAT TGA	59.8	481	INTERGENIC	--	--	--
Ca3_P2_24509560	Ca3	24509560	ATTT/ATT	GTTGGCTTTTGTACCC TCA	CCGAAATTCAGGATG AATGA	59.9	551	INTERGENIC	--	--	--
Ca3_P2_24701158	Ca3	24701158	ATTTTTTTTT/ATTTTTTTTT	TTTGGCACATCTATTCA ACTGC	CGCATTCTGGGATGC TTAT	60.1	136	INTERGENIC	--	--	--
Ca3_P2_24785287	Ca3	24785287	CTTT/CT	ACTCGGCCTTCTCCAT ATT	TGGGAATAAGCTTGGG ATTG	59.9	242	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_26018200	Ca3	26018200	AATATATATATATATATATATA/AATAT ATATATATATATATATATA	TGTTAATATCCGCCCA TGT	CCCAATGGATCTCTCT CCAA	60.0	536	INTERGENIC	--	--	--
Ca3_P2_26020458	Ca3	26020458	CATATATATATATATATAT/CATATAT ATATATATATATATATAT	CCCACTAAAGGCCCAT ATCA	TTCAAATTCACGCCCT AAC	59.9	789	INTERGENIC	--	--	--
Ca3_P2_26069971	Ca3	26069971	TT/TTTTAT	TCAAATGGCGACTTACC ACA	GGAAGCCCAATTTTCA AACA	59.9	747	INTRON	Ca_08292	--	MYB_related
Ca3_P2_26070506	Ca3	26070506	GT/GTAT	TGTTTGAAAATTGGGCT TCC	TGCAAATCTTGAAAACA ATTCTG	60.1	375	INTRON	Ca_08292	--	MYB_related
Ca3_P2_26071275	Ca3	26071275	ATTTTT/ATTTTTTT	TGTGTTTGTTTGGTTTC ATCTTG	TGTCAACGTGATTGGA GCAT	60.1	563	INTRON	Ca_08292	--	MYB_related
Ca3_P2_26071877	Ca3	26071877	TAAA/TAAAA	TGCTCCAATCAGTTGAC CAT	AGACGCTGCAACATCA AAGC	61.5	397	INTRON	Ca_08292	--	MYB_related
Ca3_P2_26074434	Ca3	26074434	TTATATATA/TTATATATATA	TTTTCAAATGCTCAAA TTTTCTT	GCTTTGATGGAAATCA GGGA	60.0	779	INTRON	Ca_08292	--	MYB_related
Ca3_P2_26114065	Ca3	26114065	AG/A	TTTATCTGGGGACTTC GTG	AGGAAAATACACGGGC AAGA	59.6	364	INTRON	Ca_08292	--	MYB_related
Ca3_P2_26114282	Ca3	26114282	ATTATAGTTTTATT/AT	TTTATCTGGGGACTTC GTG	ATACACCGATGGAGGG CTTT	60.7	838	INTRON	Ca_08292	--	MYB_related
Ca3_P2_26114943	Ca3	26114943	GTTTT/GTTT	TGGCATGGTACTCAAC CAGA	TTACATGAATGATTGT TGGGT	60.1	545	INTRON	Ca_08292	--	MYB_related
Ca3_P2_26115029	Ca3	26115029	AACG/A	TGGCATGGTACTCAAC CAGA	TTACATGAATGATTGT TGGGT	60.1	545	INTRON	Ca_08292	--	MYB_related
Ca3_P2_26125921	Ca3	26125921	CA/CAAGCCAGACTA	CCGAATATGAAAGGACT ATCGG	ACATGGGCAATGTGTG TGTT	59.7	327	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_26134563	Ca3	26134563	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA	TCTGTGCAATACGAGT TGG	AAAGCAGCACCATTGG TTTC	60.1	516	DRR	Ca_08290	T	--
Ca3_P2_26159882	Ca3	26159882	CATATATAT/CATATAT	TTGACCAGACCGAGAT CACA	GGGGCATTATGGACTT GAAA	59.8	779	INTERGENIC	--	--	--
Ca3_P2_26245714	Ca3	26245714	C/CA	CGCCTGTACCGTTGA TACT	ACCCATTCCCAGTGTTT TCA	60.2	678	INTRON	Ca_08279	QI	B3
Ca3_P2_26328372	Ca3	26328372	AAGAGAGAGAGAGAGAGAGAGA/AAGA GAGAGAGAGAGAGAGAGAGA	TTGTTGAATTTGATGTC GTTGA	TCCCTGATTTTGAAGA CCAA	57.2	327	INTERGENIC	--	--	--
Ca3_P2_26336721	Ca3	26336721	GATATATATATATATATATATATATA/ GATATATATATATATATATATATATA A	AGAAAGGCCGTTTCT GGAT	ACCACCGACCACCTAC TTCA	60.4	574	INTRON	Ca_08268	YU	bHLH
Ca3_P2_26349764	Ca3	26349764	GTTAACA/G	TCTGCATTGTCCAAAC CAA	TTATCCATGATTTGGGA GGG	59.6	737	INTERGENIC	--	--	--
Ca3_P2_26389085	Ca3	26389085	TTATATATATATATATATATATA/TTAT ATATATATATATATATATATATA	AATCGACTTGCTTTGTG GCT	CATCTAGGACCCGTGC AATC	60.5	375	INTERGENIC	--	--	--
Ca3_P2_2653586	Ca3	2653586	GTTTTTTT/GTTTTTTT	TGTTTTGCAGCAAGATG TCC	TGGAGATGGTTAGCAA TGGA	59.1	536	INTERGENIC	--	--	--
Ca3_P2_26628740	Ca3	26628740	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATAT ATAT	TGTGATTTGAGTTTCC TCTCG	CTTGACGTATGCAAG AACA	58.5	342	INTERGENIC	--	--	--
Ca3_P2_26777304	Ca3	26777304	GTATATATATATATAT/GTATATATAT ATATATATAT	CACTCATCACACGGG ACAC	CAATGAATCGATGAAT GAATTG	59.3	754	DRR	Ca_08228	P	--
Ca3_P2_26826640	Ca3	26826640	GAATAATAATAATAATAATAATAATA ATAATAATAATA/GAATAATAATAATAAT AATAATAATAATAATAATAATAATAA TA	TGAAGTTGCCACTTGT GAA	TTTTGTGTCAAAAGTCA AAACCA	59.6	603	DRR	Ca_08225	--	ARF
Ca3_P2_26872317	Ca3	26872317	CAGAGAGAGAGAGAGAGAGAGAGAG/C AGAGAGAGAGAGAGAGAGAGAGAGAG	CAATGTGCTCGATTTC CCA	TTACATTCCTGCCTCG TCA	59.3	389	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_26961684	Ca3	26961684	ATTTTTTTTTTT/ATTTTTTTTTT	CACGGTTGTGATGACT CGAC	GTCGCGTCAACGTTG TTTA	59.8	538	INTERGENIC	--	--	--
Ca3_P2_26998517	Ca3	26998517	AATATATATATATATATATATATAT AT/AATATATATATATATATATATAT ATATATATATAT	TGGGATGTTTCAATTT CTGC	AAAATGGCATTGGTG GGTT	60.1	576	INTERGENIC	--	--	--
Ca3_P2_27067574	Ca3	27067574	GTTTTTGGTTTTTT/GTTTTT	TGATCGGATGGTCGTT GATA	CCACCAAAAAGTGGAG CCTA	60.1	466	INTRON	Ca_08197	E	--
Ca3_P2_27142432	Ca3	27142432	CATATATATATATATATATATATATA TATATATATA	GCTTCTTTCACACCCAC GTT	GCCGTAACGTAACCGT CAGT	60.1	547	INTERGENIC	--	--	--
Ca3_P2_27221901	Ca3	27221901	AATTAT/AAT	TGGCCTAAAAATGACC GACT	TGTGCGCTGATAGGCA TTAG	60.0	929	INTERGENIC	--	--	--
Ca3_P2_27328014	Ca3	27328014	TAAAAAAAAA/TAAAAAAAAA	TTCTCCTTGAAGCTGTC GGT	GACGTTTTTGCCTCG TTTA	60.1	547	DRR	Ca_08178	--	--
Ca3_P2_27340222	Ca3	27340222	AA/AAGGA	TGATGAAATTTGCATTA AATCG	CGGGGTTATACGCTGA CACT	60.0	402	INTERGENIC	--	--	--
Ca3_P2_27382854	Ca3	27382854	GTTTTTTTTTTT/GTTTTTTTTTTT	GCGGTAAAAGAAGGCA AGTG	TGTGGGTACCTAAAC CCTAAAAA	60.0	591	INTERGENIC	--	--	--
Ca3_P2_27571944	Ca3	27571944	TTATATATATATATATATATATATAT TATATATATATATATATATATATATAT	GCTTTGATAGGGTGT GCGT	AGTAGGCATGTCAACG GGAC	60.0	474	INTERGENIC	--	--	--
Ca3_P2_27572261	Ca3	27572261	TTATATATATATATATATATATATATA TATATATATATATATATATATATATAT	ACATGCCTACTCGTGC GTG	TTTTCTTTTATTTCT TTTGTGA	57.7	604	INTERGENIC	--	--	--
Ca3_P2_27613485	Ca3	27613485	TGGG/TGG	GAATGATGCTGCTCGG GTAT	GTTTCGTCTGGTTCAC CGTT	60.0	428	INTRON	Ca_08146	--	bHLH
Ca3_P2_2762503	Ca3	2762503	GTTTTT/GTTTTTT	CTCTCACCCAAGAAGAT CGC	TTGGAACAAACACCT GCAA	60.1	590	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_27648871	Ca3	27648871	AATATATATATATATATATATAT/ATA TATATATATATATATATATATAT	AATCCCATGGCACTGA GAAC	AGCGTGATCACATTCA CAGC	59.9	670	INTERGENIC	--	--	--
Ca3_P2_27854087	Ca3	27854087	ATAAATAATTGTAAA/ATAAA	TCGATAATGAGTGATTA GGTGGG	ACCTCACCTCGAATG TCAC	60.0	459	INTERGENIC	--	--	--
Ca3_P2_27854154	Ca3	27854154	TGG/TG	TCGATAATGAGTGATTA GGTGGG	ACCTCACCTCGAATG TCAC	60.0	459	INTERGENIC	--	--	--
Ca3_P2_27854804	Ca3	27854804	T/TA	GGATTGAGAGGGGAGA AAGG	TTTGAAAGCAAGAGCG TCAA	59.7	516	INTERGENIC	--	--	--
Ca3_P2_27856755	Ca3	27856755	TAAAAAAAA/TAAAAAAAA	CGAAGATGAAGAGGCT TGAAA	CAACAACCTCTGATGCT CGC	59.6	593	INTERGENIC	--	--	--
Ca3_P2_27866552	Ca3	27866552	TTAATAATAATAATAATAATAAAT AATAATAATAATAAGTAATAATAAA TA/TTAATAATAATAATAATAATAA ATAATAATAGTAATAATAATAATA	TCGAAATTTGGTGAGT TGCC	GGGATTCGCTGGTTAT CTCA	60.0	552	INTERGENIC	--	--	--
Ca3_P2_27867074	Ca3	27867074	TCAC/TCACAC	TGAGATAACCAGCGAAT CCC	ATTCGGGATAAGTGA ACCC	60.0	550	INTERGENIC	--	--	--
Ca3_P2_27867135	Ca3	27867135	AT/ATT	TGAGATAACCAGCGAAT CCC	ATTCGGGATAAGTGA ACCC	60.0	550	INTERGENIC	--	--	--
Ca3_P2_27873354	Ca3	27873354	AA/AACTGA	TGGGGAGAAATTACCA AAAGAA	CCCCTATAATCTTGAG GGAGG	58.9	487	INTERGENIC	--	--	--
Ca3_P2_2791398	Ca3	2791398	GTTTTTTTTTTTT/GTTTTTTTTTTTT	GTGAATGAAAAAGGC TCCA	TGAGCGTACGGAACAT CAAG	59.9	242	INTERGENIC	--	--	--
Ca3_P2_2798836	Ca3	2798836	ATTTTTTTTT/ATTTTTTTTT	TGAGGTTTCTGGGTT GAGG	GCCCTCAGATGAGAGT CAGG	59.9	561	INTERGENIC	--	--	--
Ca3_P2_28016436	Ca3	28016436	AATATATATATATATATATATATAT ATATATA/AATATATATATATATATAT TATATA	TCGAAGTAACTTGATCC CTCTTG	GGATGTTGCGGTATG ATGT	60.6	526	DRR	Ca_08108	O	GeBP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
Ca3_P2_28052758	Ca3	28052758	CACAGAC/CAC	ACTTCGGTTCACACGTT TCC	CGATGCAGGTGAAGAT CAAA	59.8	481	INTERGENIC	--	--	--	
Ca3_P2_28084076	Ca3	28084076	TT/TTTTATAT	TGTTTGACCGTTAGAAT GTGC	CGTTCCCATAGCCAAA GTCT	59.2	378	INTERGENIC	--	--	--	
Ca3_P2_28113252	Ca3	28113252	ATTTTTTTT/ATTTTTTT	TCCTTCTCCTCTTCCTT CCA	TGTTTGTCAATTGAAT TATAGTTATG	58.6	849	INTERGENIC	--	--	--	
Ca3_P2_28188438	Ca3	28188438	CAAAA/CAAAAA	ACCCATAACGCACTCGT TTC	TCCTCCATTTTCGTTT TCG	60.0	434	INTERGENIC	--	--	--	
Ca3_P2_28191077	Ca3	28191077	CTTTTTTTTT/CTTTTTTTTT	TAAGATGCGTGGGTTTA GGG	GCTTGTGTTTAAAGCG CTCC	60.0	659	INTERGENIC	--	--	--	
Ca3_P2_28262424	Ca3	28262424	A/AAAGTCG	TACTTTTACCCCATTTG CCA	AAACCCCATCCCACG TATG	60.5	414	INTERGENIC	--	--	--	
Ca3_P2_28262509	Ca3	28262509	GTTTTTTTT/GTTTTTTTTT	TACTTTTACCCCATTTG CCA	AAACCCCATCCCACG TATG	60.5	414	INTERGENIC	--	--	--	
Ca3_P2_28289088	Ca3	28289088	TAGAGAGAGAGAGAGAGAG/TAGAG AGAGAGAGAGAGAG	CTTCCCATCTTGAAAAC CGA	CGAACGTCTCTCCACT CTCC	60.0	369	INTERGENIC	--	--	--	
Ca3_P2_28293830	Ca3	28293830	TAAAAAAAAA/TAAAAAAAAA	GATTACTGCTAGGGCC CAAAT	ATCCCACTTGCAACACT TCC	60.0	147	INTERGENIC	--	--	--	
Ca3_P2_28294648	Ca3	28294648	AATATATATATATATATATAT/AATATATA TATATATATATATATAT	TACCAGTACCAGGAGG CAGG	TGGTGGGTAATCCGAT GAAT	60.0	670	INTERGENIC	--	--	--	
Ca3_P2_28334138	Ca3	28334138	TTATATATATATATATATATA/TTATAT ATATATATATATATATATATA	CGACCTCCTGAAGATC CAAA	TCGATGCTCCATGTTAA TGC	59.7	853	DRR	Ca_07149	R	NAC	
Ca3_P2_28428889	Ca3	28428889	TTATATATATATATATATA/TTATATAT ATATATATATATATA	AGGCAACTCGATTCAA GCAT	AAACAAACAAGCCAC CAAC	59.9	923	INTERGENIC	--	--	--	

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_28511565	Ca3	28511565	AATATATATATATATAT/AATATATATATAT	TGGGATAGAGTTTGCTG GCC	CCCTCCCATGTTTCCAC CTA	59.8	642	INTERGENIC	--	--	--
Ca3_P2_28514570	Ca3	28514570	ATATTATTATTATTATTATTATTATT ATT/ATATTATTATTATTATTATTATT ATT	CAAAGAAAATGGTGGG GATG	AAATTGGACTATGCCA CCGA	60.3	841	INTERGENIC	--	--	--
Ca3_P2_28533888	Ca3	28533888	ATTTTTTTT/ATTTTTTTT	ATCCAATAATGGGTG GGA	TGGAGATAGCTGGGGA AGAA	59.8	477	INTERGENIC	--	--	--
Ca3_P2_28535222	Ca3	28535222	AATTCATAT/AAT	AAGCGCAATCTAGTT CATTT	AAAATGAGTCGTTGGA TTCAAAA	59.9	411	INTERGENIC	--	--	--
Ca3_P2_2855993	Ca3	2855993	TAAA/TAA	CTTGGTTGGAATTGCAT GTG	CGTTTGGGAAGTAGG GTGT	59.0	514	INTERGENIC	--	--	--
Ca3_P2_28589622	Ca3	28589622	GAAAAAAAAA/GAAAAAAAAA	TTTCCCGACTTGGTCCT TTA	GGAATCGCTACCGAAT ATGG	59.4	447	INTERGENIC	--	--	--
Ca3_P2_28636768	Ca3	28636768	AATATATATATATATATATAT/AATATA TATATATATATATAT	CGCGGACACCTATCCA ACT	CGCATGTTGATATGCG ATTT	59.5	870	INTERGENIC	--	--	--
Ca3_P2_28680371	Ca3	28680371	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATATAT ATATATATATAT	TGTGTAATGGGTGCAT GCTT	GCTTTCAAGGACTTTG CTGG	60.0	642	INTRON	Ca_07175	E	C3H
Ca3_P2_28797139	Ca3	28797139	CAA/CAATTCGATAA	CAAGGAGCTGTTTGTCT TCA	GTAAAATGGCACGCGG TAGT	60.0	609	INTERGENIC	--	--	--
Ca3_P2_28797825	Ca3	28797825	A/AG	CATAGTCTGCGAAACCA GCA	GGTGGAAATGATCGGA GAGA	60.0	454	INTERGENIC	--	--	--
Ca3_P2_28799476	Ca3	28799476	G/GTC	TCTTGGACCTCACTGG GTTT	TGTCCTTGATCTTGTT CCG	58.7	836	INTERGENIC	--	--	--
Ca3_P2_28799571	Ca3	28799571	AG/A	TCTTGGACCTCACTGG GTTT	TGTCCTTGATCTTGTT CCG	58.7	836	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_29097133	Ca3	29097133	CTACTTATTTA/C	AAAATGCTGCACTCAA CGA	CACGGTTGCGTATAT CCAT	60.6	233	INTERGENIC	--	--	--
Ca3_P2_29174780	Ca3	29174780	TTATATATATATATAT/TTATATATATATA TATATAT	ATCCACCCACATTCAA ATC	GGAGAGAAATACGCGT GGAG	59.8	439	INTERGENIC	--	--	--
Ca3_P2_29228366	Ca3	29228366	TTATATATATATATATATAT/TTATATA TATATATATATAT	TCGGAGGCAGAGACAA GTTT	TTAATTGGGGGAAATC CACA	60.0	364	INTERGENIC	--	--	--
Ca3_P2_2930472	Ca3	2930472	ATCTC/ATCTCTC	AGGCGATGGAGGATAA AACC	CGGAAACGAGTGAAAC CAAT	60.0	502	INTRON	Ca_22158	D	--
Ca3_P2_29334875	Ca3	29334875	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	GGGTGGCTCATGAAGC TTAG	TCTCAACCGTTTTGGT GACA	60.1	576	INTERGENIC	--	--	--
Ca3_P2_29407345	Ca3	29407345	T/TGTTG	AAAAGCCAAATGGAAC GTG	GAGCTGGGACACTTTG GAAG	59.8	509	INTRON	Ca_07245	O	--
Ca3_P2_29421952	Ca3	29421952	TAATTTTAATAAATTTTAAT/TAATTTTAA T	GTCGTTGTAGAGAGCG AGGG	TGTGAATGAGGATAA AAGCAA	59.6	627	INTERGENIC	--	--	--
Ca3_P2_29446926	Ca3	29446926	GCA/GCACA	CAGCAGGGGCATACGT TAAT	GATTCCCCCTCCCTGAT TCTC	59.8	306	INTERGENIC	--	--	--
Ca3_P2_29506460	Ca3	29506460	CGTT/C	TGCCCTGTCAATG TTA	TCAATCCCCATCAATCA TCA	59.7	598	DRR	Ca_07256	T	FAR1
Ca3_P2_29507017	Ca3	29507017	AAAGAAGAAGAAGAAGAAGAAGAA GAAGAAGA/AAAGAAGAAGAAGAAGAA GAAGAAGAAGAAGAAGAAGAAGAAGA GAAGAAGA	TGATGATTGATGGGA TTGA	TACCCACACCCCTCAA ATGT	60.1	259	DRR	Ca_07256	T	FAR1
Ca3_P2_29512683	Ca3	29512683	AATATATATATATATATAT/AATATATA TATATATATAT	TGCAATGAATGGAATCT TGG	TCCAAAACAACAAGGA CACG	59.6	380	INTERGENIC	--	--	--
Ca3_P2_29563741	Ca3	29563741	TATTCAAATAAATT/TATTCAAATAAATT CAAATAAATT	GCACATGCGGTCCTTT AACT	TTCCCTCTCTCCCTCT CTC	59.9	648	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_29572508	Ca3	29572508	TTTA/TTTAGCCTAAAAAGTATTA	GGACCAATTCGGAAA AGAA	TTGGCACCCCAATTT AAG	59.8	359	DRR	Ca_07262	R	bHLH
Ca3_P2_2962592	Ca3	2962592	TTTATTATTATTATTATTATTATT /TTTATTATTATTATTATTATTATT	AGAGGCAAACAAGAAC CGAA	AACTCGGTGCCAACAG TCTT	59.8	596	INTERGENIC	--	--	--
Ca3_P2_29722160	Ca3	29722160	TTATATATATATATATATATAT/TTA TATATATATATATATATATATAT	CGAAGGAGTGGACAAG AAGC	TTTCGTGATGTTTGCT GAG	60.0	610	DRR	Ca_07279	--	--
Ca3_P2_29748543	Ca3	29748543	CATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTAT/CATTATTATTATTATT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT	TGCACCAAGTCACTAAC AAAAA	GGTGGCCCTCAACTTT CTTT	60.5	404	INTERGENIC	--	--	--
Ca3_P2_29752847	Ca3	29752847	TAAAAAAAAA/TAAAAAAAAA	AATCGAGATGCCTTAGT GCG	CCTATTCCCACCCCT TTTA	60.0	868	INTERGENIC	--	--	--
Ca3_P2_29767581	Ca3	29767581	AATATATATATATATATATAT/AA TATATATATATAT	AGCAAGTCGACTTTCT CCA	TGGCACAACCTAACA ACCAA	59.2	694	DRR	Ca_07284	--	bHLH
Ca3_P2_29771272	Ca3	29771272	CTTTTTTTTT/CTTTTTTTTT	GGATTGCATTATGCCA AGTT	GCGAGACATTTGGGT GAAT	59.9	264	INTERGENIC	--	--	--
Ca3_P2_29772076	Ca3	29772076	ATTTTTTTTT/ATTTTTTTTT	CCAGCTCCACAACCAT CTTT	GCAAATGTTCTGGTCG CATA	59.7	391	INTERGENIC	--	--	--
Ca3_P2_29779379	Ca3	29779379	TTATATATATATATAT/TTATATATA TATATATATAT	GAGGAAAGCTTGTGCT TTGG	CCGAATATAATCATTT GTGGAAA	59.2	323	DRR	Ca_07285	--	--
Ca3_P2_29794446	Ca3	29794446	TG/T	TTGGACCTTGGGAAA GTTG	TCGACAGTGAAGTTGG GTTG	59.7	463	CDS (FRAME SHIFT)	Ca_07286	Q	bHLH
Ca3_P2_29794859	Ca3	29794859	AATATATATATATAT/AAATATATA TATATATATAT	TCGAAAGTTCCAACCA ACT	ATTTGCATTCTCTTCG CAT	59.7	212	INTRON	Ca_07286	Q	bHLH
Ca3_P2_29809144	Ca3	29809144	ATT/ATAATTTTT	GCTCATGCCTCCTCAA AAA	AAGCAGCCATAATGAC AGGG	60.1	856	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_29846757	Ca3	29846757	ATTTTTTTTT/ATTTTTTTTT	TGACTGAAATGCCATC GTTT	TCTAGCTGCCTCTCTC CCTT	58.4	743	INTERGENIC	--	--	--
Ca3_P2_29849306	Ca3	29849306	AATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT/ AATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT ATT	TGGCAATCATTTGCTTT TTG	AGAGGCATTGACTTTG GTGG	60.1	228	INTERGENIC	--	--	--
Ca3_P2_29922532	Ca3	29922532	AAATAATAATAATAATAATAATAA ATAA/AAATAATAATAATAATAATAA TAATAATAATAA	CCTGTTTAATTGGTTC GCC	AATGACGTGCATGACA AAGC	59.7	699	INTERGENIC	--	--	--
Ca3_P2_29962865	Ca3	29962865	TAAAAAAAAA/TAAAAAAAAA	GGTCGCATCACGAAC TTCT	GGTGCTGGTATCCTAA GACAAAA	59.6	283	INTRON	Ca_07306	S	C3H
Ca3_P2_29970428	Ca3	29970428	CATATAATATAATATAATAT/CATATAAT ATAATAT	GCAAATAACATCGAGGT TCAGG	AACGACTCAGATGAAA TGCAA	58.4	454	INTERGENIC	--	--	--
Ca3_P2_30049696	Ca3	30049696	CATATATATATATATATATATATAT/ CATATATATATATATATATATATAT AT	TCCCCTTTTCTCATCC TCT	TGCACTTTGTTCCCTCA ACA	60.3	546	INTRON	Ca_07320	--	--
Ca3_P2_30071057	Ca3	30071057	TAAAAAAAAA/TAAAAAAAAA	TAAAAGCCAATGGAAC GGG	ATCGCTCTCCTCCTCA AACA	60.0	247	INTERGENIC	--	--	--
Ca3_P2_30100381	Ca3	30100381	ATATTATTATTATTATTATT/ATATTA TTATTATTATTATT	TTGCACATTACTCAAC CGC	ATTCCAGAAATGCGAC CTTG	60.1	319	INTERGENIC	--	--	--
Ca3_P2_3013494	Ca3	3013494	GATATATATATATATATATATATAT AT/GATATATATATATATATATATAT ATATAT	TCACATGAAGCCAATTT CCA	GCTCAGGGGATGTTGT TAGC	59.7	582	INTERGENIC	--	--	--
Ca3_P2_3017046	Ca3	3017046	TGA/TGAGA	TTTGAAAAGAAATGCAA TGTTGA	TGGATGTGAGCACATG AAAA	58.6	653	INTERGENIC	--	--	--
Ca3_P2_3022233	Ca3	3022233	A/ATTTTTTC	AGTTTTGGTAATTGTTG GTTTTATTT	CTCTAAGCCCCACAGA GTCG	60.0	328	INTERGENIC	--	--	--
Ca3_P2_30339041	Ca3	30339041	AAA/AAATAA	CCTCCTCCAACCATGAA ATG	CCTGTGTGGTCAGAAA GGGT	60.0	496	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_30380300	Ca3	30380300	ATTTTTTTTTT/ATTTTTTTTTT	GTCATGGGCAATAGG TCAC	CACATGTGTTAAATGA AATCGAA	59.0	656	INTERGENIC	--	--	--
Ca3_P2_30450479	Ca3	30450479	ATCTTCTTCTTCTTCTTCT/ATCTT CTTCTTCTTCT	TCATGGGCCACAGCAT ATAA	GTCGTGCCAGCACAAAG AGTA	60.1	366	INTERGENIC	--	--	--
Ca3_P2_30536672	Ca3	30536672	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TCGCCTTGTGAATATAG GGC	GCCTAACGACAAGGCT TTTG	59.9	376	INTERGENIC	--	--	--
Ca3_P2_3054800	Ca3	3054800	TAAAAAAAA/TAAAAAAAA	TCTACGTATCTCTCGGT GCG	TGCTTCTCTCGTTGTG CCA	60.4	639	INTERGENIC	--	--	--
Ca3_P2_30602335	Ca3	30602335	TTG/T	GCCCTCAGATGAGAGT CAGG	AAATTAACCTCATCC CCG	60.0	842	INTERGENIC	--	--	--
Ca3_P2_30619779	Ca3	30619779	ATTTTTTTTTT/ATTTTTTTTTT	AAGTTGGTCCATGATAG CAAAAA	CCCTCTGTTCAATTGCC TGT	60.1	732	INTERGENIC	--	--	--
Ca3_P2_30629336	Ca3	30629336	ATTTTTTTTTT/ATTTTTTTTTT	GATTGATTGCGCATCG ACTA	GGGCAAAAGTACAAGT GGGA	60.0	625	INTERGENIC	--	--	--
Ca3_P2_30646834	Ca3	30646834	ATTTTTTTTTT/ATTTTTTTTTT	TTTCGGTACACAATTT CCA	CGCCTTCTACGACATT CACA	59.9	260	INTERGENIC	--	--	--
Ca3_P2_30706994	Ca3	30706994	AT/A	TCCACTAATGCGGAGA GTCA	ATAGGAGGTCGCTTCT CCGT	60.2	445	INTERGENIC	--	--	--
Ca3_P2_30729039	Ca3	30729039	TTATATATATATAT/TTATATATATATA T	CGAAGTTTTATGGTCC CAA	CCTCGCGGATAAAAA GTTA	60.3	763	INTERGENIC	--	--	--
Ca3_P2_30747282	Ca3	30747282	ATCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCT/ATCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCT	AAACCACGTTTTAGTC CCC	CTCGTTGGGTTGTGG ATCT	60.0	764	INTRON	Ca_07395	S	--
Ca3_P2_30930504	Ca3	30930504	GTTTTATTTTTATTTTA/GTTTTATTT TTA	GCATGGACCGTTTAAAA TTG	TTAGGTGGAAAATTCA TTAGAAAA	57.6	818	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31101603	Ca3	31101603	ATTTTTTTTTT/ATTTTTTTTTT	ATGGTCCCAATGAAAT CAA	TGTGTTGTCTCTGGCC TTTG	59.9	843	INTRON	Ca_12207	--	--
Ca3_P2_31172417	Ca3	31172417	GTTTTTTTTT/GTTTTTTTTT	CAATGGGAATGGACT TGTT	TTGTACTGCCTTGAGAT GCG	60.0	720	DRR	Ca_12214	--	LBD
Ca3_P2_31205524	Ca3	31205524	GTTTTTTTTT/GTTTTTTTTT	TGTGATGAATTTTCAA CCAAT	CACGCTTACATCTCTG CCCT	60.4	512	DRR	Ca_12217	O	TCP
Ca3_P2_31211125	Ca3	31211125	GTTTTTTTTT/GTTTTTTTTT	TGGAGAGAAGCAACAA AGCA	AATTTAGGGGGCCAT CATC	60.0	342	INTERGENIC	--	--	--
Ca3_P2_31264246	Ca3	31264246	TTATATATATA/TTATATATATATA	AAAAACGAGTGGATGC GTTC	AGAAGACCATCTCTCG TTAGGC	59.0	479	INTERGENIC	--	--	--
Ca3_P2_31274302	Ca3	31274302	TA/T	GCGTTGAGAGAACGCT AACC	GGGATTGTTCGAAGA TTTTG	58.5	732	INTERGENIC	--	--	--
Ca3_P2_31274347	Ca3	31274347	TTATATATAT/TTATATAT	GCGTTGAGAGAACGCT AACC	GGGATTGTTCGAAGA TTTTG	58.5	732	INTERGENIC	--	--	--
Ca3_P2_31279080	Ca3	31279080	ATTTTTTTTTT/ATTTTTTTTTT	TACACGCAATTCGAGC AGT	AAGATGTGGGCATAAC GGAG	60.0	920	INTRON	Ca_12224	S	--
Ca3_P2_31285016	Ca3	31285016	A/AT	CGTCGTTTTCAACTGG GAAT	GGATACGAAGTCGGTT GCAT	60.0	328	INTERGENIC	--	--	--
Ca3_P2_31285044	Ca3	31285044	TATAATAATA/TATAATA	CGTCGTTTTCAACTGG GAAT	GGATACGAAGTCGGTT GCAT	60.0	328	INTERGENIC	--	--	--
Ca3_P2_31290021	Ca3	31290021	T/TTGA	GGTTCAAACGTGTTCC CTTG	ACGCTCTCAAATCGAC CATC	60.2	929	DRR	Ca_12225	P	ERF
Ca3_P2_31290271	Ca3	31290271	AATATATA/AATATA	TTCGAAAGAAACATTG TGGG	ACGCTCTCAAATCGAC CATC	60.2	681	DRR	Ca_12225	P	ERF

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31290446	Ca3	31290446	A/AGGTCTAAGCT	TTTAAAGAAGGGAGT CGCTC	TTGAAGCAGTGTGTG GGAA	60.3	632	DRR	Ca_12225	P	ERF
Ca3_P2_31290884	Ca3	31290884	GAAAAAA/GAAAAAA	GATGTCGATTGAGA GCGT	TTCATAGGGTCACGGC AAAT	60.3	812	DRR	Ca_12225	P	ERF
Ca3_P2_31293397	Ca3	31293397	T/TC	TCCATAATTGTAGAATT CGAAGAGTC	TGCTTTTCTCAACATC CCA	59.2	222	INTERGENIC	--	--	--
Ca3_P2_31293455	Ca3	31293455	TG/TGG	TGGGATGTTTGAGAAA GCA	ATCCCATCCCAAC AATA	59.9	522	INTERGENIC	--	--	--
Ca3_P2_31293673	Ca3	31293673	G/GA	TGGGATGTTTGAGAAA GCA	CCCACATCGTTTATCC CATC	60.0	534	INTERGENIC	--	--	--
Ca3_P2_31295937	Ca3	31295937	AAAAAA/AAAAACA	GGACCATGGACTCCAG AAGA	TCGTCCTCCATCAGTT CGAT	60.6	688	INTRON	Ca_12226	K	MYB
Ca3_P2_31296813	Ca3	31296813	CGTGTG/CGTGT	TCGGTTTTAAGGGAAG CAAA	TGCTGCAATAGCTGAC CATC	60.0	806	INTRON	Ca_12226	K	MYB
Ca3_P2_31298126	Ca3	31298126	GTTATTATTATTAT/GTTATTATTATT AT	GGACTTTTGGCAGCAT GTTT	TTTGCAACTTTTGACGG ACA	60.3	716	DRR	Ca_12226	K	MYB
Ca3_P2_31298291	Ca3	31298291	CT/CTTTT	TGAGAGGTCGATTTTG GAGG	TTTGCAACTTTTGACGG ACA	60.3	506	DRR	Ca_12226	K	MYB
Ca3_P2_31298325	Ca3	31298325	TCC/TC	TGAGAGGTCGATTTTG GAGG	TTTGCAACTTTTGACGG ACA	60.3	506	DRR	Ca_12226	K	MYB
Ca3_P2_31313566	Ca3	31313566	TTCTTCATCTTCATCTTCATCTT/TTCTT CATCTTCATCTT	TCGAACACATTGTTGCC ATT	GCCACAGCAGACAAGA TGAA	60.0	493	CDS (large-effect mutations)	Ca_12230	--	Dof
Ca3_P2_31319681	Ca3	31319681	GAAAA/GAAAA	CGTGGCTCCTCAAAAG TCTC	ATGCACAAGGCTTCCA TACC	60.0	599	DRR	Ca_12232	U	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31322105	Ca3	31322105	TAAAAAAAAA/TAAAAAAAAA	GTTTCAACATGACCATC CCC	CCCCCTGAAAGATACC CAAT	60.0	868	INTRON	Ca_12232	U	bHLH
Ca3_P2_31323281	Ca3	31323281	CTTTT/CTTTT	AATGCTTCAACAGCCTT CGT	TGGGATCGGTTACATG GATT	60.0	415	INTRON	Ca_12232	U	bHLH
Ca3_P2_31325736	Ca3	31325736	ATTT/ATTTT	ATTAATTGGGCTGACGT GGA	GTCCACATTAGGGACA CGCT	60.0	426	INTERGENIC	--	--	--
Ca3_P2_31326387	Ca3	31326387	GTTTT/GTTT	CGGGTACAGCCGGTAA GTAA	GGGTGCCTTTAAAGTG TGGA	60.0	639	INTERGENIC	--	--	--
Ca3_P2_31326762	Ca3	31326762	CTTTTTTTTTT/CTTTTTTTTTT	TCCACACTTTAAAGGCA CCC	CCAGTTTGTCCATGCA TTTG	60.0	560	INTERGENIC	--	--	--
Ca3_P2_31327189	Ca3	31327189	TAAAAAAAAA/TAAAAAAAAA	CAAATGCATGGACAAAC TGG	GGATCATTCGCGACCA TAAT	59.8	426	INTERGENIC	--	--	--
Ca3_P2_31327483	Ca3	31327483	AT/ATT	CAAATGCATGGACAAAC TGG	TTGGATGCCTCCATAT CTAACTT	59.0	922	INTERGENIC	--	--	--
Ca3_P2_31327768	Ca3	31327768	GTTT/GTT	ATTATGGTCGCGAATGA TCC	AATTGCGGTTAGTTGG ATGC	60.0	528	INTERGENIC	--	--	--
Ca3_P2_31328317	Ca3	31328317	ATTTTTT/ATTTTTT	TCCAACCTAACCGCAATT CAA	TCATGGCAAATTTAGG ATGTTG	59.8	447	INTERGENIC	--	--	--
Ca3_P2_31328367	Ca3	31328367	AA/AATA	TCCAACCTAACCGCAATT CAA	TCATGGCAAATTTAGG ATGTTG	59.8	447	INTERGENIC	--	--	--
Ca3_P2_31330534	Ca3	31330534	ATTTTTTTT/ATTTTTTTT	GTGTCAAATGTCGTGT CGG	GAAAGGCAACGGTGAT TCAT	59.9	825	INTERGENIC	--	--	--
Ca3_P2_31333274	Ca3	31333274	ATTTTTTTT/ATTTTTTTT	TTCTCCGTGAAGGAGC TGTT	GACAACCAATGTTTCT GCCC	60.4	703	INTRON	Ca_12233	S	bZIP

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31334839	Ca3	31334839	ACCCC/ACCCC	GCATCAAATCTTCACC ACC	GCAAAAGCAGGGTCTC AAAC	59.9	622	DRR	Ca_12233	S	bZIP
Ca3_P2_31336446	Ca3	31336446	ACTCT/ACT	GAAACGTGCGGTGTAT CCTT	TGCATTGTATTGAAAA TTGTTG	59.0	754	INTERGENIC	--	--	--
Ca3_P2_31336604	Ca3	31336604	T/TC	AGCAGGCCTGGACCTT TACT	GGAATGCCAACGAATG AAAA	60.8	555	INTERGENIC	--	--	--
Ca3_P2_31336842	Ca3	31336842	AAAAAAAAATAAAAA/AAAAA	AGCAGGCCTGGACCTT TACT	GGAATGCCAACGAATG AAAA	60.8	555	INTERGENIC	--	--	--
Ca3_P2_31339236	Ca3	31339236	T/TC	CCAACCCATGTACCGA CATT	AGAGACCGTTTCATGA GATTTG	58.3	525	INTERGENIC	--	--	--
Ca3_P2_31340782	Ca3	31340782	GAAAAAAAA/GAAAAAAAAAAAA	GGGTAAATTGGTAGGG GCAT	GTGTTGGTGGTGATGG TTGA	60.3	948	INTERGENIC	--	--	--
Ca3_P2_31342905	Ca3	31342905	GATA/GATATATA	TGGCAAGTTTTCACTTC CATT	TGCATTGCACACAAGA ATGA	59.8	315	DRR	Ca_12234	--	--
Ca3_P2_31343075	Ca3	31343075	CAATAAAAAATAAAATAAAAT/CAATAA AAATAAAAT	TGGCAAGTTTTCACTTC CATT	GATCACGGGAGGATCG ACTA	60.0	792	DRR	Ca_12234	--	--
Ca3_P2_31343206	Ca3	31343206	AG/A	TGGTTTGAAACTGGT CATGC	GATCACGGGAGGATCG ACTA	60.0	257	DRR	Ca_12234	--	--
Ca3_P2_31343763	Ca3	31343763	TAAA/TAAAA	AATAGTCGATCCTCCC GTGAT	CCATGCTCAAGTCTAG GTTTCG	59.9	510	DRR	Ca_12234	--	--
Ca3_P2_31348024	Ca3	31348024	AC/A	GGTCAACAACATCAATT GCG	TAGGGGACCAAAACTG AGGA	59.5	924	INTERGENIC	--	--	--
Ca3_P2_31348057	Ca3	31348057	TAAAA/TAAAAA	GTTTGGATTCCACCGAA GAA	TAGGGGACCAAAACTG AGGA	59.5	895	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_31348114	Ca3	31348114	T/TCATAA	TCTCCGTTGGCACTACA AGA	TAGGGGACCAAACTG AGGA	59.5	844	INTERGENIC	--	--	--
Ca3_P2_31350700	Ca3	31350700	TCATG/TCATGCATG	TCTTAGCGTAGATTGCG CGT	AACATCTGGGCTAATC GGTG	60.0	280	INTERGENIC	--	--	--
Ca3_P2_31351028	Ca3	31351028	A/ATAT	CACCGATTAGCCCAGA TGTT	TGTCATTGAGGTGGGT GTTG	60.4	521	INTERGENIC	--	--	--
Ca3_P2_31353219	Ca3	31353219	CAAAAA/CAAAAAA	TCCCTAAAAGTTTCTTC ATCCA	GAATGACATATTGTGG CAGCA	59.6	225	INTERGENIC	--	--	--
Ca3_P2_31355710	Ca3	31355710	CT/C	ATTTACCGACGGTGATC TGC	ATCACAACCCAGCTGA AACC	60.0	781	DRR	Ca_12236	R	NAC
Ca3_P2_31359527	Ca3	31359527	AA/AAGGTTTAATTTATCTTA	GCTTCAGCAACGACAA ACAA	CCACTCAAATGGGTAA TGCC	60.2	804	INTRON	Ca_12236	R	NAC
Ca3_P2_31361081	Ca3	31361081	CTATATATATATA/CTATATATATATATA	CCTCTTCGGTTGGATG AAAA	CAGGCTAACAGCTGCA ATGA	60.2	585	INTRON	Ca_12236	R	NAC
Ca3_P2_31364505	Ca3	31364505	CTTTTTTTT/CTTTTTTTT	ACCAATGTCTCGCAAG CTCT	GGTAAACATTTGCATC GTTGG	60.2	458	INTERGENIC	--	--	--
Ca3_P2_31365247	Ca3	31365247	TAAAAAAAA/TAAAAAAAA	GGAGCGGACAATTCAA ACAT	AGTGAAAAATACGTGT CCCG	57.6	223	INTERGENIC	--	--	--
Ca3_P2_31365869	Ca3	31365869	GTTTT/GTTT	AATTAAACCCGTGCAAA TTCC	AAATGACATGCGATCC AACA	59.9	209	INTERGENIC	--	--	--
Ca3_P2_31366021	Ca3	31366021	A/ATT	CCCTCTGTGCCTGTCT TTC	CAACGGGAATCTTCG TCTA	60.1	469	INTERGENIC	--	--	--
Ca3_P2_31371532	Ca3	31371532	TATCAT/TATCATCAT	GGATCAGCCCAATTGG TAAA	TAGACCATAAGCCCT GACG	60.1	322	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31375441	Ca3	31375441	ATTTTT/ATTTTT	TTGATTCGTTGCTAGT CAAA	CATATGTGAACCATGG CAGC	60.0	871	INTERGENIC	--	--	--
Ca3_P2_31376677	Ca3	31376677	TT/TAGTATTTTTCAT	AGGGGCATGCTTGTG AAAT	GACCAACTTTATGCGT GCAA	59.7	581	INTERGENIC	--	--	--
Ca3_P2_31376995	Ca3	31376995	GT/GTT	TCCTTGCACGCATAAG TTG	GAAATCTCACTGCCCC ATTC	59.5	563	INTERGENIC	--	--	--
Ca3_P2_31378790	Ca3	31378790	TAA/TGATTATTTTAAA	TCACAATAGACAAGTG CCG	CGCCAACCAATCTAA CACT	60.0	508	INTERGENIC	--	--	--
Ca3_P2_31380098	Ca3	31380098	ATTTTTTTT/ATTTTTTT	CATCGTCTTTGATTTT ATGAATTG	TTATTGCCCTGCTTCA TCC	60.0	683	INTERGENIC	--	--	--
Ca3_P2_31380874	Ca3	31380874	ATTTTTTTT/ATTTTTTT	CTTTTGTGTTGGCTG GGT	ATTGGTCCCAATGGTT GGT	59.9	752	INTERGENIC	--	--	--
Ca3_P2_31381715	Ca3	31381715	GATATA/GATA	TAAACCTTGGCTGGGT CAAC	TTGTTTATTTTGTTCGT CGTGTT	58.6	403	INTERGENIC	--	--	--
Ca3_P2_31381813	Ca3	31381813	AT/A	TAAACCTTGGCTGGGT CAAC	TTGCTACCATTGTAAAG CTTGTTT	59.3	611	INTERGENIC	--	--	--
Ca3_P2_31384239	Ca3	31384239	TCTAGAGATCTGCTAGA/TCTAGA	TTCGACTCGGGTCCAT AAAC	TGCTACACCGTCAAC AGCC	59.8	564	INTERGENIC	--	--	--
Ca3_P2_31391479	Ca3	31391479	CTTT/CTTTT	GTGCCGCTTCATCCAA ATTA	TTGTTGATAATGTGGG CACG	60.4	247	INTERGENIC	--	--	--
Ca3_P2_31391982	Ca3	31391982	ATTTT/ATTT	CGTGCCACATTATCAA CAA	TCTTGCTCATGGTGCT TCTG	60.1	793	INTERGENIC	--	--	--
Ca3_P2_31392191	Ca3	31392191	A/ATAAAT	CACCCCATTTTGTATCG AGTT	TCTTGCTCATGGTGCT TCTG	60.1	351	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31394583	Ca3	31394583	AA/AAGA	TCACACATAACCCGTGA TCC	AGCACGAGGACAAGTT CACC	60.3	610	INTERGENIC	--	--	--
Ca3_P2_31396962	Ca3	31396962	A/AG	GCATTTTATTCAAATTT CATGGG	ATCGTGAGTTTGAGGG GAGA	59.7	840	INTERGENIC	--	--	--
Ca3_P2_31402077	Ca3	31402077	TAAAA/TAAAAA	TGTACACGTCGGTGAA CAACT	TGTGGCGACAACAACT TTTGA	59.4	634	INTERGENIC	--	--	--
Ca3_P2_31402737	Ca3	31402737	ATTTTTTTTTT/ATTTTTTTTTT	CACCGAAATAAATATTG GTCCC	CTTTTCCATCATTTTT CCATT	57.2	826	DRR	Ca_12237	O	--
Ca3_P2_31413249	Ca3	31413249	AA/AATA	TGTTGCACGTTGGACA AGTT	GACTGCTACCAACCCA GCAT	60.1	374	DRR	Ca_12238	A	--
Ca3_P2_31415275	Ca3	31415275	T/TG	GTAGCTAACCAACCG GTGA	GGGCCCGTTATATATT GGCT	60.0	565	INTERGENIC	--	--	--
Ca3_P2_31415533	Ca3	31415533	TAAAAAA/TAAAAAAA	CAAGGGTGTGGGAGAG AAAA	TTTTGAAATTCATGT TCAGG	59.0	386	INTERGENIC	--	--	--
Ca3_P2_31418574	Ca3	31418574	ATTTTTTTT/ATTTTTTTTTT	TGCACTCCTCTGCATGA TTC	GTCTATCTCGCGCTG AAAC	60.0	497	INTERGENIC	--	--	--
Ca3_P2_31418976	Ca3	31418976	CATTATTATTATTAT/CATTATTATTATTA TTAT	GTTTCAGCCGCGAGAT AGAC	CCATTTAATCCTTCAAA TTGCC	59.7	341	INTRON	Ca_12239	R	YABBY
Ca3_P2_31419172	Ca3	31419172	T/TA	GTTTCAGCCGCGAGAT AGAC	TGCAGCAAAGGAAAAA CACA	60.4	736	INTRON	Ca_12239	R	YABBY
Ca3_P2_31426177	Ca3	31426177	C/CCCAACAAGTGT	TGAGTCCTCATCGGTC ACAA	TCATCAATGACTAAAAA TTGTTTGTGA	58.3	573	DRR	Ca_12239	R	YABBY
Ca3_P2_31441706	Ca3	31441706	AT/ATGAAATT	AACAATTTTGGAAACCC CTAA	TTTGCAAGTGCAACTTC TGC	60.2	669	DRR	Ca_12242	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31442973	Ca3	31442973	CTTTTT/CTTTTT	TAGATGATTTTGGCAAG GGC	CTGGACTTCGTCATC AGCA	60.0	457	INTRON	Ca_12242	--	--
Ca3_P2_31443022	Ca3	31443022	CGT/C	TAGATGATTTTGGCAAG GGC	CTGGACTTCGTCATC AGCA	60.0	457	INTRON	Ca_12242	--	--
Ca3_P2_31443328	Ca3	31443328	ATTTTT/ATTTTT	TGCTGATGACGAAAGT CCAG	CATATTGGATGGGATG GTCC	59.8	302	INTRON	Ca_12242	--	--
Ca3_P2_31444469	Ca3	31444469	GTATATAT/GTATAT	TGGTCGAAATTCAGGT GTG	AACTCAACTAATCCGG CCAA	59.6	544	DRR	Ca_12243	G	--
Ca3_P2_31446074	Ca3	31446074	CTTTTT/CTTTT	CATCCCAATTTGCATTG GTT	TGGAGGCTATTGGTAC AGGG	59.9	531	DRR	Ca_12243	G	--
Ca3_P2_31448937	Ca3	31448937	ATTT/ATTTAGAAAGTTT	TGGCCACCACTAACAC AAAA	ACAGGTGATCCTCTTT CCCC	60.3	757	INTERGENIC	--	--	--
Ca3_P2_31453959	Ca3	31453959	CTCATTTTTCATTTTTCAT/CTCATTTT CATTTTTCATTTTTCAT	CTCCAATGGCAAGGTC ACTT	GGATCAATGGCAAGAG CATT	60.0	310	INTRON	Ca_12244	P	--
Ca3_P2_31457627	Ca3	31457627	ATTTTTTTTTT/ATTTTTTTTT	AACATTAGGATGCACCC AGC	GAGGCACGAAATTCAG GTGT	60.1	760	INTRON	Ca_12244	P	--
Ca3_P2_31463027	Ca3	31463027	TAG/TAGAATTTAAG	TCTTCCGAGTCCTTTG GTG	AAAGTATTGACGGTGC CCTG	60.0	416	INTRON	Ca_12245	P	--
Ca3_P2_31468994	Ca3	31468994	TAGAGAGAGAG/TAGAGAGAG	ATTTTGCCCTCCAAACAC ACC	ACTTGAACGCAAGCC TAAT	59.9	352	INTERGENIC	--	--	--
Ca3_P2_31471455	Ca3	31471455	CTTATTTATTTATTT/CTTATTTATTTAT TATTT	AAAACCCAAAAGCTGAA TCG	CCCAAAGTTGGCATGA AGTT	60.0	624	INTERGENIC	--	--	--
Ca3_P2_31475126	Ca3	31475126	TAAAAAAA/TAAAAAAA	AACACCGCAACAAGTCA CTG	AAATGACGGCACGACA AGAT	60.5	497	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31476304	Ca3	31476304	ATTTT/ATTTT	TGGTTCAGATTGTTTG GTGA	CAAACGTGAGTGAAAC AACCA	59.6	568	INTERGENIC	--	--	--
Ca3_P2_31476572	Ca3	31476572	AAATA/AA	TGGTTGTTTCACTCAGC TTTG	GGATGGCAATCCTCCA TTAC	59.2	519	INTERGENIC	--	--	--
Ca3_P2_31478334	Ca3	31478334	TCC/TCCC	TGGTGTGTGTTAGCCA TAAAGG	GGGGCCTCTTCTTTTG TTTC	60.1	614	INTRON	Ca_12246	--	--
Ca3_P2_31480211	Ca3	31480211	TTAATAATAATAATAATAATAATAA/ TAATAATAATAATAATAATAA	TTCTGCACATCAATGG GAA	TTTGAGCTGCAAAACC ATT	58.4	683	DRR	Ca_12246	--	--
Ca3_P2_31482581	Ca3	31482581	CTAAT/CTAATTAAT	TGCTCATGTGCCAAGA GTTG	TAGGGCCCAACAATTCA AAAG	59.9	425	INTERGENIC	--	--	--
Ca3_P2_31483041	Ca3	31483041	ATAA/ATAAGTCTAA	CTTCCTTGACACGCTAA GGG	TGGAGAATTTGAGTGG GGAG	60.0	714	INTERGENIC	--	--	--
Ca3_P2_31489433	Ca3	31489433	ATTT/ATTTTT	GGTGCCAAGAGACCAG AGAG	AGTGGAGCTAGCAGGA ACCA	60.0	383	INTRON	Ca_12247	T	--
Ca3_P2_31491087	Ca3	31491087	CTTTTT/CTTTT	CCCCCAAACCTTCAAAA AGT	CGTTTGATAATTTGAGG GGC	59.4	421	DRR	Ca_12247	T	--
Ca3_P2_31495232	Ca3	31495232	CTTT/CTT	CCAAATGGTGAGAGA CTTCG	TTCGGTGCTTTGTCTCT TCC	60.4	809	INTERGENIC	--	--	--
Ca3_P2_31496027	Ca3	31496027	GTTTTTTTT/GTTTTTTT	ATGGTGTCTTTGTTCT GGC	ACTTTTCCTCCTGCA ACG	60.3	522	INTRON	Ca_12248	T	--
Ca3_P2_31496131	Ca3	31496131	ATTTTTTTTTTTTT/ATTTTTTTTTTT	ATGGTGTCTTTGTTCT GGC	ACTTTTCCTCCTGCA ACG	60.3	522	INTRON	Ca_12248	T	--
Ca3_P2_31498407	Ca3	31498407	ATTT/ATTTT	CTAGCTCGGGTTTCT GACG	TTGGCCACAGTTTAAC CACA	60.0	531	DRR	Ca_12248	T	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_31501132	Ca3	31501132	TAA/TAAA	TCCCAAGTGAACATCA CAA	TTGGATTGTATGGGT CGGT	60.1	496	INTRON	Ca_12249	I	--
Ca3_P2_31509699	Ca3	31509699	TTTATATT/TTT	ACTTGCTCCCATGAA TTG	TGAGGGAAGAAAGCAG AAGG	59.5	170	INTRON	Ca_12249	I	--
Ca3_P2_31512169	Ca3	31512169	TAAAAAAAA/TAAAAAAAA	AAGTTGATGTTCCGT TGC	TGAATTTGATCGCAGA GACG	59.9	837	INTERGENIC	--	--	--
Ca3_P2_31518374	Ca3	31518374	ATTTTTTTT/ATTTTTTTT	TTGTTAAGGCAGCAA GGCT	TTCAGGGAATGCCTC AAG	60.2	625	INTERGENIC	--	--	--
Ca3_P2_31519164	Ca3	31519164	C/CT	TACACGTGGCCTCAA CAAA	TCAAGCATGGTTCCAA TCAG	59.6	364	INTERGENIC	--	--	--
Ca3_P2_31530560	Ca3	31530560	TTGGGT/TTGGGTGGGT	AACTCCTTCTGCACATT GGG	TGGGAAATAGATCGGT CTCG	60.0	449	INTRON	Ca_12252	E	TALE
Ca3_P2_31536384	Ca3	31536384	GTTTTTTT/GTTTTTTT	AAAACGTCATCGTTCCA AGG	ACAATCCACCAAGCAG GAAC	60.0	590	INTRON	Ca_12253	LK	--
Ca3_P2_31540731	Ca3	31540731	CTATATATATATATATATATA/CTATAT ATATATATATATATATA	CTGTTCCATTGTCCAAC ACG	CACATGGGTGACATCT GAGG	60.0	566	INTRON	Ca_12253	LK	--
Ca3_P2_31544066	Ca3	31544066	TACAAGCAAAACAAGCAAA/TACAAGCA AA	TGTGCATTCCAAAAGTG CAT	CCTCCAGGGAGCCCTA TAAC	59.9	561	DRR	Ca_12253	LK	--
Ca3_P2_31544146	Ca3	31544146	TAAAAAA/TAAAAAA	TGTGCATTCCAAAAGTG CAT	CCTCCAGGGAGCCCTA TAAC	59.9	561	DRR	Ca_12253	LK	--
Ca3_P2_31560705	Ca3	31560705	A/AAG	TGTTCACTGCCAACTG TGC	GCAGTGCACACTGAT GGTT	59.8	585	INTERGENIC	--	--	--
Ca3_P2_31563003	Ca3	31563003	CATA/CATATA	GAATGGTGTTCTTTGT CCC	AATTCACCCAAAGACA CGG	59.8	274	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31566099	Ca3	31566099	CG/C	AAAGGGCATGGGAAATAG	TTTTCATGCATTGAGACGC	59.8	338	DRR	Ca_12255	--	G2-like
Ca3_P2_31568511	Ca3	31568511	CTA/CTATA	TGCAATGTGCATCACTCTCA	GCAGATGGAGGTCCAGAAAC	59.7	548	INTRON	Ca_12255	--	G2-like
Ca3_P2_31569781	Ca3	31569781	GAAA/GAAA	TGTCAGTGCTGTGTGCGTTA	TTTGTGTAATACCGTTGCA	60.0	635	INTRON	Ca_12255	--	G2-like
Ca3_P2_31576995	Ca3	31576995	TAAAAAAAA/TAAAAAAAA	AAACGATAAAATCAGACAAATCA	TAACCCGACTAGCACACCC	60.0	451	INTERGENIC	--	--	--
Ca3_P2_31578728	Ca3	31578728	CATAT/CAT	TCCATGAAATTGAAATAAACGCG	GCCCGTTAGGATGTGGAGTA	60.0	715	DRR	Ca_12256	--	--
Ca3_P2_31589916	Ca3	31589916	CCT/CCTCT	TGCTTGTCAAATTTGTCGC	TTTCACCCCTCACTGCTTCA	60.2	399	INTRON	Ca_12258	BK	G2-like
Ca3_P2_31595214	Ca3	31595214	CATTATAACAT/C	TTGATGTTATTTATTGGTGCAAAA	AGTAACGACAACCTCCGTGG	60.0	623	INTERGENIC	--	--	--
Ca3_P2_31602376	Ca3	31602376	GT/GTGTTCCTTT	GCACGAGCACAACTTCAAAA	AAAGAACCATCATCGCAGGT	59.6	618	INTERGENIC	--	--	--
Ca3_P2_31602428	Ca3	31602428	GAGTGCTAGTGCTA/GAGTGCTAGTGCTAGTGCTA	GCACGAGCACAACTTCAAAA	AAAGAACCATCATCGCAGGT	59.6	618	INTERGENIC	--	--	--
Ca3_P2_31602554	Ca3	31602554	ATGT/AT	GCACGAGCACAACTTCAAAA	AAAGAACCATCATCGCAGGT	59.6	618	INTERGENIC	--	--	--
Ca3_P2_31602911	Ca3	31602911	ATGTT/ATGTTGTT	ACCGAATATTCATGCTCCA	CCAAGTGATGTGTCATGGCT	59.6	565	INTERGENIC	--	--	--
Ca3_P2_31603278	Ca3	31603278	CA/C	ACCGAATATTCATGCTCCA	CCAAGTGATGTGTCATGGCT	59.6	565	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31606915	Ca3	31606915	ATCTTCTTCTTCTC/ATCTTCTTCTCTTCT	GTGGCAGCTGCAAGAA TACA	ATGCCATTGGCCCAA TAAT	61.2	894	CDS (large-effect mutations)	Ca_12260	--	--
Ca3_P2_31607270	Ca3	31607270	ATTTTTTT/ATTTTTTT	TACCCTAACGGTGCTC CATC	AAGATCATTCCCCAAA CCC	60.0	567	INTRON	Ca_12260	--	--
Ca3_P2_31607443	Ca3	31607443	G/GT	TTTGACATTGAGAAAT GGGG	CCAATTGCTGCTACTC CTCC	59.8	209	INTRON	Ca_12260	--	--
Ca3_P2_31607764	Ca3	31607764	CA/C	GCAATTGGAGGAGTAG CAGC	TGATATGGTGGGGACA AGAA	58.8	311	DRR	Ca_12260	--	--
Ca3_P2_31608359	Ca3	31608359	ATA/ATAGTA	TGCCATCCTCTTCCAAT TTC	TCITTTCCCACTTTCCCC TTT	59.9	168	DRR	Ca_12260	--	--
Ca3_P2_31609545	Ca3	31609545	TAAAAAAAA/TTAAAAAAAA	GACAAAGCCAGAACCT TTGC	ACCCAAGCAGGCATAC AAAC	60.0	538	DRR	Ca_12260	--	--
Ca3_P2_31611126	Ca3	31611126	GAAAAGTAAAAGTAAAA/GAAAAGTAAA A	TTTGATTAGCCATAAC ATCCA	CTTCCACCTTCGTGGA AAGA	60.2	617	INTERGENIC	--	--	--
Ca3_P2_31628087	Ca3	31628087	CT/CTT	TCAAATTGCGTATTGT GTCC	TGATAGATCGGAGAGG GGTG	60.0	792	DRR	Ca_12261	A	--
Ca3_P2_31629115	Ca3	31629115	ATTTTT/ATTTTT	GTTTGTTTCGAGTTG GTT	ATTTTGAGGGATTG GAGG	60.1	498	INTRON	Ca_12262	T	--
Ca3_P2_31629285	Ca3	31629285	GGGGGAGGGGAGGGGAG/GGGGGAG GGGAG	GTTTGTTTCGAGTTG GTT	TCACTCCACTCCGGTA CTCC	60.1	711	INTRON	Ca_12262	T	--
Ca3_P2_31633339	Ca3	31633339	GTATAT/GTAT	TGGACCAAGAACAGT GTCA	GCAATTGCAGAAATGC AAGA	60.0	496	INTRON	Ca_12262	T	--
Ca3_P2_31634280	Ca3	31634280	AGTT/AGTTGTT	TCAGCGTGGTTCACGA TAAG	GACGATCAGCACAACT TCCA	59.8	339	DRR	Ca_12262	T	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_31634878	Ca3	31634878	ATTT/ATT	TGGAAGTTGTGCTGAT CGTC	AAGTTGGGTTTCTTC GCAG	59.4	839	DRR	Ca_12262	T	--
Ca3_P2_31635608	Ca3	31635608	GTITTTTTTTTT/GTITTTTT	AATGGGTTCCCTGGATT TTC	CTTTGGTGGGATCAGA GAGC	59.8	222	DRR	Ca_12262	T	--
Ca3_P2_31636736	Ca3	31636736	TTATA/TTA	TGCGTAAAGCCAAACA AAA	GGCCTAAAAATCTACTT TGAC	57.2	374	DRR	Ca_12264	--	NF-YB
Ca3_P2_31637117	Ca3	31637117	TGA/TGAGGA	TGCGTAAAGCCAAACA AAA	GCACAAGCAGAGCAAA ATGA	60.1	943	DRR	Ca_12264	--	NF-YB
Ca3_P2_31637556	Ca3	31637556	TTTTGCT/TTTTGCTTTGCCTTTGCT	TAAACATCACCCGCATT TCG	GAATGCATCAGGCTTT TCAA	58.8	102	DRR	Ca_12264	--	NF-YB
Ca3_P2_31672357	Ca3	31672357	CATATATATATATATATATATATAT/C ATATATATATATATATATATATAT	AAGGCCGATTAGCCAA AAAT	TAGGAGGTCGCTTCTC CAAA	59.9	211	INTERGENIC	--	--	--
Ca3_P2_31682159	Ca3	31682159	GAAAAAAAA/GAAAAAAAA	GAAACCTGTGCAAGCC AATG	TGTATGATGTGTGCGA GGGT	60.0	289	DRR	Ca_12270	--	G2-like
Ca3_P2_31755384	Ca3	31755384	CTATATATATATATATATATAT/CTATA TATATATATATATATATATAT	GCAGCTAAAGAAGATT GGCCT	TTTGCGATATGAACCA ATCA	59.0	467	INTERGENIC	--	--	--
Ca3_P2_31778792	Ca3	31778792	CAT/C	TGCAAAATTCACATAGG CCA	ATTTGGGATTAGGG TTCG	60.0	541	INTERGENIC	--	--	--
Ca3_P2_31810634	Ca3	31810634	AAC/AACCTTTGAC	TGTGTGATTGCACAGG AACA	TTAGCGTGGGCAATA GTCA	59.3	253	INTERGENIC	--	--	--
Ca3_P2_31852962	Ca3	31852962	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/TT TATTATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT ATT	TTTAGGGAATGGGTC ATGG	TCAATCTGTCTCGTTTT GATTGA	59.7	576	DRR	Ca_12289	G	STAT
Ca3_P2_3185857	Ca3	3185857	TAAAAAAAA/TAAAAAAAA	CGCCTCTCTTTTCTAT GCG	TGTTGCTGTTGTTGCC TCTC	60.0	468	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_31901383	Ca3	31901383	CCTCTCTCTCTCTCTCTCTCT/CC TCTCTCTCTCTCT	GGAGCTGCTTCACCT CAAC	ATCCAAAGGAACGCGA TATG	59.9	426	INTERGENIC	--	--	--
Ca3_P2_31901719	Ca3	31901719	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/AT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATT	CGCGTTCCTTTGGATAA TGT	TTCCCTTTCGTATTGCT TGG	60.1	616	INTERGENIC	--	--	--
Ca3_P2_31908295	Ca3	31908295	TAAAAAAAAAAAAA/TAAAAAAAAA	GAGGTGAAAATGGTGT AGATTAGAG	TCGTTCAACACCAAATG GAA	59.9	863	INTERGENIC	--	--	--
Ca3_P2_31912229	Ca3	31912229	GAAAA/GAAA	CTCGGATACTGCCGAT TGAT	TGCCTGTTCTCTGTGA TTGC	60.0	958	INTRON	Ca_12292	--	--
Ca3_P2_31939527	Ca3	31939527	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATATAT ATATAT	GCACGGAAACAGCGAT TTTA	CAAAAATAAGACATGGT GTTGGA	58.9	246	INTERGENIC	--	--	--
Ca3_P2_31939882	Ca3	31939882	TAAAA/TAAAA	GCACGGAAACAGCGAT TTTA	GCGGTTGTCGTCCTA ATAA	60.0	896	INTERGENIC	--	--	--
Ca3_P2_3194968	Ca3	3194968	CA/CAA	CATCCAGGAAGGCAGA AAAC	GGAGGCAAACCAAGTG AAAA	60.1	201	INTERGENIC	--	--	--
Ca3_P2_3235341	Ca3	3235341	AGCTTCAGTCGCT/AGCT	TGGAGTGAGCTGTGGT TGAG	TGGTCACCACTTGGTG TTTG	60.5	840	INTERGENIC	--	--	--
Ca3_P2_3235471	Ca3	3235471	TAAA/TAA	ATAGGCCAAGCAACCA AAGA	GACGATGGTGAAGATG ACGA	59.6	663	INTERGENIC	--	--	--
Ca3_P2_3235549	Ca3	3235549	GCACACA/GCACACACA	ATAGGCCAAGCAACCA AAGA	GACGATGGTGAAGATG ACGA	59.6	663	INTERGENIC	--	--	--
Ca3_P2_3235914	Ca3	3235914	ATCTTCTTCATCCTCTTCTTCATCCTCA TCTTCTTCATCCTC	TCGTCATCTTACCATC GTC	CGCCAAAAAGTTGATT GGTT	60.0	251	INTERGENIC	--	--	--
Ca3_P2_32376435	Ca3	32376435	AACACA/AACACACA	TTTACGCAATCGAGATG CAC	TCACCGTGGCAAACT GATA	60.1	443	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_33424399	Ca3	33424399	AA/AATA	TGACAGTTTAAGTCCTT CCCTCA	CATGATGGCAAGTTTG TTGG	60.0	684	DRR	Ca_23672	R	C2H2
Ca3_P2_33531472	Ca3	33531472	CAAA/CAAAA	TTGCCCTTGTATCACTG CCA	CTTGCCACTTGGTTGG AAAT	60.0	228	INTRON	Ca_23669	S	--
Ca3_P2_33545135	Ca3	33545135	C/CTATCAGTAAACATT	ACGTCATCAGTCGAAG TCCC	AGTTTGCCTAGGTTGT TGGG	60.0	329	INTERGENIC	--	--	--
Ca3_P2_33581359	Ca3	33581359	TAAAAAAAAA/TAAAAAAAAA	TGGGTCAAGATTAGAG CCGT	CAATTTGACAAGCCCC CTAA	59.9	610	INTERGENIC	--	--	--
Ca3_P2_33646476	Ca3	33646476	GTTTT/GTTT	AAGGAAGCAACGAAA CGAA	ATTTTGGCTCGGAGGT TTTT	59.9	437	INTERGENIC	--	--	--
Ca3_P2_33662476	Ca3	33662476	TAAA/TA	ATGCCGTTTGGAATTAC TCG	TTGGAAGGAGCCCTTA CCTT	60.1	664	INTERGENIC	--	--	--
Ca3_P2_33748722	Ca3	33748722	CTTTTTTTTT/CTTTTTTTTTTT	AGGTGCCAAAATTGAT GAGG	CAAGTTGCGATGAACA CCTG	60.3	399	INTERGENIC	--	--	--
Ca3_P2_33748791	Ca3	33748791	TAGTTTCAG/TAGTTTCAGTTTCAG	AGGTGCCAAAATTGAT GAGG	CCTAGAAGGTGCGATC TCCA	60.4	417	INTERGENIC	--	--	--
Ca3_P2_33752607	Ca3	33752607	TAAAAA/TAAAAA	TGCGATTCTCTCCTT CTT	GAGTTCAGGCGATTG TCTC	59.8	832	INTERGENIC	--	--	--
Ca3_P2_33828272	Ca3	33828272	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT/TTTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATT	AGAGGCAACAAGAAC CGAA	TGCATATAAGGAATTGA CGCC	59.9	318	INTERGENIC	--	--	--
Ca3_P2_33830576	Ca3	33830576	GAAA/GAA	CTTTTATTCGACCGAA CCA	TTTGAAATGCAAAAAC TTCG	60.1	850	INTRON	Ca_20879	R	--
Ca3_P2_33859343	Ca3	33859343	TT/TTATTATTAT	CAATTGAATTCATTCTT CATAACAGG	TTGGAAAATGTTGCAA GTTCA	59.2	978	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_33883185	Ca3	33883185	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT	CATGCCAGACCAGACT TTGA	AGGGGCCTATGGTCTG ACTT	60.0	620	INTERGENIC	--	--	--
Ca3_P2_33929125	Ca3	33929125	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT	TGACGGGTGTGGTTG TAGA	CCATCATTACGTGGG AACC	60.1	830	INTERGENIC	--	--	--
Ca3_P2_3394940	Ca3	3394940	GAAAA/GAAAA	TTTCAATTGCATTAAGT GGGA	CCCGGGAGTAGGAATT TGAT	60.1	498	INTERGENIC	--	--	--
Ca3_P2_33954528	Ca3	33954528	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT T/ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATT	GGCTTCAAAGCCAACAT CAT	TCATACAAAAACCAAC GGG	58.4	622	INTERGENIC	--	--	--
Ca3_P2_33983043	Ca3	33983043	TA/TAGACACTGA	GGTGTTTTACGAATGG GGTG	GGGACTCATTTATGCC GATG	60.3	353	INTERGENIC	--	--	--
Ca3_P2_34032860	Ca3	34032860	CCAAAGC/CC	TAAATGTTGCGAACCTG CTG	CGTCGCGGTTATCACT TACA	59.8	678	INTERGENIC	--	--	--
Ca3_P2_34057106	Ca3	34057106	GAAAA/GAAA	TCTTTGCGGCAGGTTTA TTT	TCACGATTTCGTAAAC GCAT	59.2	402	INTERGENIC	--	--	--
Ca3_P2_3411224	Ca3	3411224	CATATATATATATATATAT/CATATAT ATATATATATATATATATATATAT	TGAATTTTAAATGATTT TCTGCAA	ATAGTCGGCAAAACCC TCCT	60.0	785	INTERGENIC	--	--	--
Ca3_P2_34161169	Ca3	34161169	GAAAA/GAAAA	GAAGCAAATCGATTGG GAAA	CTGGGGTTCCACTGTG ACTT	60.0	239	INTERGENIC	--	--	--
Ca3_P2_34161241	Ca3	34161241	AG/A	GAAGCAAATCGATTGG GAAA	CTGGGGTTCCACTGTG ACTT	60.0	239	INTERGENIC	--	--	--
Ca3_P2_34212501	Ca3	34212501	AATTATCTCTATTATCTC/AATTATCTC	TCCGAAAACGTTTCGTAC ACA	AACGTTGTCACTTTCTT GGAGA	58.9	371	INTERGENIC	--	--	--
Ca3_P2_34229674	Ca3	34229674	GATATATATATATATATATATATAT AT/GATATATATATATATATATATAT ATATAT	GCATGATGGATGTG CGAG	GGGGGCTTGTTAAACT GACA	60.0	856	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_3424341	Ca3	3424341	CAAAAAAAAA/CAAAAAAAAA	TTGCTCATGCGGTCTAT CAA	CGTTGACAAAGGGATC GAGT	60.1	600	INTERGENIC	--	--	--
Ca3_P2_34264150	Ca3	34264150	TAAAAAAAA/TAAAAAAAA	AATGGAAAGAGCATTG GGTG	GCAACAACAAAAACA CATTGA	59.9	709	INTERGENIC	--	--	--
Ca3_P2_34323944	Ca3	34323944	ATTTTTTTTT/ATTTTTTTTT	TGGGTTTGCCAATGG AGTT	AACCTCATGGTGTGGC CTCT	59.6	682	INTERGENIC	--	--	--
Ca3_P2_34365238	Ca3	34365238	T/T	TGACCCAAATGTGACT TGC	ATGCCAAGATCCAAC TCGT	59.6	865	INTERGENIC	--	--	--
Ca3_P2_34371009	Ca3	34371009	ATATGTAT/ATAT	TTTGACCATTGCTTTGC TTG	TGGAGCAATCGGTAA GGTT	59.6	795	INTERGENIC	--	--	--
Ca3_P2_3438296	Ca3	3438296	CATATATATATATATATAT/CATATAT ATATATATATATAT	ACGTTATTACACCTTGG CGG	TGGTCTCCATCCTCA GACC	60.0	686	INTERGENIC	--	--	--
Ca3_P2_34456382	Ca3	34456382	AGG/AG	TCCCCTGTTTGGTTGT GAT	GTAGTGTGGTTTGTG GGGG	60.1	418	INTERGENIC	--	--	--
Ca3_P2_34474422	Ca3	34474422	TAAAAAAAA/TAAAAAAAA	AAAAATCAATTTATGCC GTTGT	TTATGCCGATTGACA CTCTT	59.6	478	INTERGENIC	--	--	--
Ca3_P2_34520648	Ca3	34520648	GAA/GAAA	AAAGACGAAAGGGAAC ACCA	GAAATTGGAACAAAG TCCGA	59.1	411	INTERGENIC	--	--	--
Ca3_P2_34520742	Ca3	34520742	ATTT/ATT	AAAGACGAAAGGGAAC ACCA	TCAAGGACGTGATG CATAG	58.7	775	INTERGENIC	--	--	--
Ca3_P2_34521509	Ca3	34521509	CTTTTT/CTTTTT	ACCCATCTTGCCTTTT CAG	TTAAATGGCGCAAAT TGAT	60.3	310	INTERGENIC	--	--	--
Ca3_P2_34525463	Ca3	34525463	CTTTTTTTTTTT/CTTTTTTTTTT	TTATCGGGGACAAATC AGC	GCTTGGACAAATCAGC ACAA	59.8	375	INTRON	Ca_00726	S	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34531723	Ca3	34531723	A/AG	CTGAAATGGCACAGT TCAA	ACAAGACAAGCAGCAG CTCA	59.9	605	INTRON	Ca_00726	S	--
Ca3_P2_34537757	Ca3	34537757	GTTA/GTTATTTA	TCATCAATGCCCTTCC TTC	GGGCATTTATTCTGGC TTCA	60.0	550	INTRON	Ca_00726	S	--
Ca3_P2_34538569	Ca3	34538569	ACTCT/ACT	AGTAGCCTTTTCTGGCC CAT	TTGCAGCATTTTGTAC CCA	60.1	587	INTRON	Ca_00726	S	--
Ca3_P2_34540545	Ca3	34540545	GAAAA/GAAAAAAA	GCCGATATGATCATCA GCCT	ATCGATCATGGCTTCG TTTC	60.0	411	INTRON	Ca_00726	S	--
Ca3_P2_34542316	Ca3	34542316	ATTTT/ATTT	TGGGCGTTAGCAGCTA GTTT	TTGTATCGCAAAGAAC CCC	59.9	543	INTRON	Ca_00726	S	--
Ca3_P2_34545193	Ca3	34545193	TCCCCC/TCCCCC	AGTCCTGGCTACTGCT GGAA	AACGATCTGCACTAA CCCG	60.1	413	INTRON	Ca_00726	S	--
Ca3_P2_34546901	Ca3	34546901	A/AC	GAGATCCACCCTCAAC GTGT	GAGCAAAAATTGCAGC TTCC	60.0	406	INTRON	Ca_00726	S	--
Ca3_P2_34546963	Ca3	34546963	ATTCTTCTT/ATTCTT	GAGATCCACCCTCAAC GTGT	GAGCAAAAATTGCAGC TTCC	60.0	406	INTRON	Ca_00726	S	--
Ca3_P2_34549339	Ca3	34549339	ATT/ATTT	TGACCTTGAGATGGGA AAGG	CACCAGATGAAGGAAG CACA	59.8	365	INTRON	Ca_00726	S	--
Ca3_P2_34557105	Ca3	34557105	CAAAAAA/CAAAAAAAA	AAATCGCACATCACAT TCG	TGGAATCGATTGTCT TCG	58.8	850	DRR	Ca_00726	S	--
Ca3_P2_34557367	Ca3	34557367	GAAAAA/CAAAAAAAA	TGTTCAATTATTTGGG ATGGA	TCCTCAAATTTCTTTC CCC	60.2	582	DRR	Ca_00726	S	--
Ca3_P2_34560809	Ca3	34560809	GAAAAA/CAAAAAAAA	GGCTCAGATCTCCCA CGTA	CATGCGATCGGAGATA ATTG	59.1	307	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34562955	Ca3	34562955	GTTTATATTTTATAT/GTTTATAT	GCTCCAAAAACAAGCA GAGG	AACGTGTCCAACACAC CACA	59.9	652	INTERGENIC	--	--	--
Ca3_P2_34565884	Ca3	34565884	AG/AGG	TGCTTTGGGTTTCATTG GAT	CGAATTATATCTCCACC TAATTGTTG	60.3	735	DRR	Ca_00727	GC	HSF
Ca3_P2_34565949	Ca3	34565949	AA/AAGA	TGCTTTAGTTTGGCTTT GGC	TGATAGGATTTGTTGG AAATCG	58.9	876	DRR	Ca_00727	GC	HSF
Ca3_P2_34568477	Ca3	34568477	CCTCCGA/CCTCCGACTCCGA	GTTTGTGCCAGTCCA AAGT	ACAAACACAACGCCAA ACAA	60.1	549	INTERGENIC	--	--	--
Ca3_P2_34571269	Ca3	34571269	GCGGTTG/GC	ATGAAAAGACCTTGCCA TGC	TGGTGGTGTAAATCGTG ATGG	60.2	921	DRR	Ca_00728	GC	HSF
Ca3_P2_34582473	Ca3	34582473	TG/T	GGGGTGTGAAGAATC GAGA	GGGAAATAGCGGTTTG TTCA	59.9	614	INTERGENIC	--	--	--
Ca3_P2_34584603	Ca3	34584603	CTTT/CT	TTGCATCCAATGGTGTC ACT	TTTCCAGCTCTGAAAG CCAT	60.0	232	INTERGENIC	--	--	--
Ca3_P2_34591879	Ca3	34591879	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	TGGTAGTGATGCATGAT TGGA	TGTTGGAATAGCGGTG GATT	60.3	754	INTERGENIC	--	--	--
Ca3_P2_34593590	Ca3	34593590	CTTT/CTTTT	CGACCAGTTTATCGGG CTTA	GGTCAATAGTCAGTGG CCGT	60.0	493	DRR	Ca_00732	--	B3
Ca3_P2_34601431	Ca3	34601431	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TCAGCGAAAAGCAACAA ATG	TTGCCTTGGGTGTGTA TTGA	60.0	528	INTRON	Ca_00732	--	B3
Ca3_P2_34605719	Ca3	34605719	CTTTTAAATTTTTTAATTTTTTAAT/CTTT TTAATTTTTTAAT	ATGTCCTTGGTTGGGC AGAG	GGGTTTGAGGAGAGAG GAGAA	60.6	404	INTERGENIC	--	--	--
Ca3_P2_34605969	Ca3	34605969	TAAAAAA/TAAAAAA	TTCTCCTCTCCTCCAAA CCC	TTTGCCCTATAGGCAC GTATT	58.7	456	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34608015	Ca3	34608015	CTTTTTTTTT/CTTTTTTTTTT	TGGAGAAACAAAATACG GGA	TTGGGTAGACATTTCC CTTG	58.9	575	INTERGENIC	--	--	--
Ca3_P2_34608178	Ca3	34608178	ATTG/A	TGGAGAAACAAAATACG GGA	TTGGGTAGACATTTCC CTTG	58.9	575	INTERGENIC	--	--	--
Ca3_P2_34608223	Ca3	34608223	CTTTTTT/CTTTTTT	TGGAGAAACAAAATACG GGA	TTGGGTAGACATTTCC CTTG	58.9	575	INTERGENIC	--	--	--
Ca3_P2_34617440	Ca3	34617440	ATTTT/ATT	TGGATGGTTAAAAATGG GGA	TTGCGGTAACAAACGT CAAA	60.1	525	INTERGENIC	--	--	--
Ca3_P2_34619372	Ca3	34619372	CAAA/CAA	CGGCTCAGTGATCCTC TTTC	CCAAGGGAAGATAA CCAACA	60.2	334	INTERGENIC	--	--	--
Ca3_P2_34623607	Ca3	34623607	AATATATTAT/AAT	CCAAGCAAGTGGCATT ATGA	ACGATTAGATTGACC GAAAAA	57.8	457	INTERGENIC	--	--	--
Ca3_P2_34623825	Ca3	34623825	TC/T	CCAAGCAAGTGGCATT ATGA	GGAGCCAAGCTCCAGT TATT	58.4	778	INTERGENIC	--	--	--
Ca3_P2_34623936	Ca3	34623936	ATTTTT/ATTTT	CAGATAATTGGGCAA GAGAA	GGAGCCAAGCTCCAGT TATT	58.4	716	INTERGENIC	--	--	--
Ca3_P2_34624335	Ca3	34624335	TAAAAAA/TAAAAAAA	GAGCTTGGCTCCGAAA AA	TGGACTCAACAAATGA ATCG	57.1	356	INTERGENIC	--	--	--
Ca3_P2_34626479	Ca3	34626479	CTTTT/CTTTTT	TTTGCAACCAAATCT TCAAA	CTTGTGCAATATCCGA AACG	59.2	562	DRR	Ca_00734	FH	--
Ca3_P2_34626639	Ca3	34626639	C/CAAAATGATT	TTTGCAACCAAATCT TCAAA	GATGGGTCCTATTGGT GGAA	59.6	938	DRR	Ca_00734	FH	--
Ca3_P2_34632668	Ca3	34632668	TTA/TTATA	TGTTTTGGGATTGTGA ATTCT	TTTGAGTGGGGTCGAC GTAT	60.4	479	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34636018	Ca3	34636018	TAACAACAACAACAA/TAACAACAACA CAACAA	TGATGATGTATGGTG GTGG	CGTTTTCAATGTGTG CGG	60.0	749	INTRON	Ca_00735	--	--
Ca3_P2_34636156	Ca3	34636156	A/ATATTTG	TTCCAGATTTTGGTTGA GGC	CGTTTTCAATGTGTG CGG	60.0	476	INTRON	Ca_00735	--	--
Ca3_P2_34637631	Ca3	34637631	GAAAAAAAA/GAAAAAA	AAAAATTTGAAATGCTT GCTAAAG	TCTCACATCAAAAGG TGGT	59.4	656	INTERGENIC	--	--	--
Ca3_P2_34639121	Ca3	34639121	AC/A	CGTTAATCATCCAAAA CCG	GAGCGAAGAAACAACG GAAC	59.9	726	INTERGENIC	--	--	--
Ca3_P2_34640762	Ca3	34640762	T/TC	GCAATGAGCATTTCAG GGAT	AACAGTTCCATCACC GGC	60.0	223	INTRON	Ca_00736	S	--
Ca3_P2_34644909	Ca3	34644909	T/TTA	TTGAAGCCAGATTTC ACC	AAATGGATCGCCTC TGTC	60.1	478	DRR	Ca_00736	S	--
Ca3_P2_34645157	Ca3	34645157	TACAACAACAACAACA/TACAACA ACAACAACA	GACAGAGTGGCGATCC ATTT	GTGTTGCACCAATAAC ACGG	59.9	651	INTRON	Ca_00737	--	--
Ca3_P2_34648656	Ca3	34648656	TTTTA/TTTTATTAATTTA	CAAACCATTTCTCTCC ATTCC	TCTTCACGGCCAATA GTTT	60.1	684	DRR	Ca_00738	J	--
Ca3_P2_34657286	Ca3	34657286	AGGG/AGGGG	CAACTGTGAGCTTATCC GCA	AGAGAGAGTGGCGGT GTAT	60.0	618	INTERGENIC	--	--	--
Ca3_P2_34657306	Ca3	34657306	GTTTT/GTTTTT	CAACTGTGAGCTTATCC GCA	AGAGAGAGTGGCGGT GTAT	60.0	618	INTERGENIC	--	--	--
Ca3_P2_34657606	Ca3	34657606	CTTTTTTTTT/CTTTTTTTTT	ATACACGCGCCACTCT CTCT	ACTCACTTTTGCGAT GTCA	59.3	258	INTERGENIC	--	--	--
Ca3_P2_34658972	Ca3	34658972	GTTCTTTCTTTCTTTCTTT/GTTCTTTCT TTCTTTCTTTCTTT	CACTCCGGCTTCTTT ACG	AGCAAACACCGGTCAA AAAC	60.0	683	INTRON	Ca_00740	AJ	NAC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_34660669	Ca3	34660669	GAA/GAAA	TCTTGACCCAGCAATT GAG	TAAACCCAATGGATAG CCGA	60.3	824	INTRON	Ca_00740	AJ	NAC
Ca3_P2_34665269	Ca3	34665269	TGGGGG/TGGGG	CAAGAAGGTGGGAGGA TTCA	TTGGTACAAGCCCAGA CAAA	59.2	593	INTERGENIC	--	--	--
Ca3_P2_34669424	Ca3	34669424	GTTTTTTT/GTTTTTTT	AAAGGGCACTTGAGAA AGCA	GCAGCCTTAAATTTTC CCC	59.9	454	CDS (FRAME SHIFT)	Ca_00741	T	--
Ca3_P2_34674867	Ca3	34674867	TAAAAA/TAAAAA	GGAGGAACCAAAACC ATCA	GTTTCGACTGGTGAG ATCA	59.8	659	INTERGENIC	--	--	--
Ca3_P2_34676663	Ca3	34676663	GTTTTTTTTT/GTTTTTTTTT	TCAACTTTCAGGCCCT ATT	TGAAAATCACAGTTATT GGCG	58.7	586	DRR	Ca_00742	T	bHLH
Ca3_P2_34680558	Ca3	34680558	T/TAAAA	GCTGAAGCGATTGTG TTGA	AGAAGATTAGCATGGC CCCT	60.1	595	INTERGENIC	--	--	--
Ca3_P2_34681160	Ca3	34681160	ATAAAATTAAAT/ATAAAATTAAATTA AAAT	AGGGGCCATGCTAATC TTCT	TTTGAAGGGAGAAATC CATCA	59.5	552	DRR	Ca_00743	V	GRAS
Ca3_P2_34681675	Ca3	34681675	GTTTTTTT/GTTTTTTT	TGATGGATTCTCCCTT CAAA	TTGGTTGTGGACCTGT GGTA	59.8	475	DRR	Ca_00743	V	GRAS
Ca3_P2_34685118	Ca3	34685118	TAAAAAA/TAAAAAA	TGGATAGAGATTGAA CCAGTAA	TGTCACCAACGAGA CATAA	59.0	512	INTERGENIC	--	--	--
Ca3_P2_34685742	Ca3	34685742	TAAAAAA/TAAAAA	TTATGTCTCGTTTGGT GACA	TTAGTGACATGCGTG CTTC	59.9	586	INTERGENIC	--	--	--
Ca3_P2_34686333	Ca3	34686333	ATTTTT/ATTTT	GAAGCCACGCATGTCA CTAA	GGGAGTGTGGAGAGAA TGGA	60.0	431	INTERGENIC	--	--	--
Ca3_P2_34689105	Ca3	34689105	AG/AGG	TCGATCCGACACTTTTC TTC	ATGCGCAAAAGAACTC ACAA	59.5	588	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34693848	Ca3	34693848	CAAAA/CAAAA	GCCCTTCACATGCTGG TATT	CCGGATTGAACTTTC CTGA	60.0	493	DRR	Ca_00745	O	--
Ca3_P2_34717035	Ca3	34717035	CAAAATTTAAATT/CAAAATTTAAATTAA AATT	AAACATGTAGATCCAT TTGAGTGA	AACTTTTGGCTTCCG GTT	60.0	640	INTERGENIC	--	--	--
Ca3_P2_34718760	Ca3	34718760	ATTTT/ATTT	TTTGAAGATTTCCCTC GTG	TTCAAAGGGAAAACGA CACC	59.9	757	INTRON	Ca_00746	GMW	ERF
Ca3_P2_34721625	Ca3	34721625	ACTATCATTCTATCA/ACTATCA	CAATCCGTTTAGAACTC CCG	TGTTGCACGTAGCCTA AGAAA	58.6	625	DRR	Ca_00746	GMW	ERF
Ca3_P2_34722333	Ca3	34722333	ATT/AT	CTCAAACACGGACACC CTTT	CCTTCTTCTCGTTCTGT TGC	60.0	364	DRR	Ca_00746	GMW	ERF
Ca3_P2_34723546	Ca3	34723546	ATTTTTTTTTTTT/ATTTTTTTTTTTT T	TGGAGGACATTTGGAG GAAG	AGCCCAAGTTCCAAAC AATG	60.0	382	DRR	Ca_00747	--	--
Ca3_P2_34726598	Ca3	34726598	ATTTTTTTT/ATTTTTTTT	AATCGGTAGTTGTCATC CGC	AGGGGTGCCTGTAGTC TCAA	59.7	948	INTERGENIC	--	--	--
Ca3_P2_34727897	Ca3	34727897	CGT/CGTGT	TTCCACCAAAGCTTTCA TCC	AAGTGTGCCAAACCA AGTC	60.0	294	INTRON	Ca_00748	--	--
Ca3_P2_34730315	Ca3	34730315	GTATA/GTATATA	ATTTTGGGCCCTTCT CAT	AGCCAGCCAAACAGAC CACT	59.9	647	INTRON	Ca_00748	--	--
Ca3_P2_34731798	Ca3	34731798	TAAAAAAA/TAAAAAAA	TTTTCTGCCAAATCAT CCC	AAGAAAGAGTACCGTC GCCA	59.9	671	DRR	Ca_00748	--	--
Ca3_P2_34732162	Ca3	34732162	TAAA/TAAAA	TGGCGACGGTACTCTT TCTT	CACACTTTAGGCCAC CCAT	59.9	389	DRR	Ca_00748	--	--
Ca3_P2_34735063	Ca3	34735063	C/CAGAT	TGGTTGTTGGAGGAAT GTGA	TCGGTCCGTTTTCATAT TGG	60.7	871	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34735388	Ca3	34735388	ATT/ATTT	GCGACGAGTTGAATG AAATG	GTTGATTGTTCCGCGA ATTT	59.9	278	INTERGENIC	--	--	--
Ca3_P2_34735825	Ca3	34735825	CTTTTTTTTT/CTTTTTTTTT	AAATTCGCGGAACAATC AAC	CTTCACAAAATTGCAAG CGT	59.0	556	INTRON	Ca_00749	J	--
Ca3_P2_34737485	Ca3	34737485	CTTTTTTT/CTTTTTTT	TGCTCTTCGTTCTGTTT CTT	ACCCAAGGATACAATG CCAA	60.2	650	DRR	Ca_00749	J	--
Ca3_P2_34739285	Ca3	34739285	TT/TTGGT	AGGTAGAGCCAGTGAG GTGG	TCITTTGGATGTGGTGG AACA	59.9	841	DRR	Ca_00749	J	--
Ca3_P2_34739482	Ca3	34739482	ATTTT/ATTT	AGGCAATTCAAAGTTAA AGGTG	TCITTTGGATGTGGTGG AACA	59.9	508	INTERGENIC	--	--	--
Ca3_P2_34739896	Ca3	34739896	AATT/A	ATCGGATTGTTCCACCA CAT	TTCTACTTGACACCCC CACC	59.8	384	INTERGENIC	--	--	--
Ca3_P2_34743651	Ca3	34743651	TAAA/TAA	TGCGAGGGAATTCAAA TAGG	GAGGAAGTAATGGACA AACACAAA	59.5	201	INTRON	Ca_00750	K	HD-ZIP
Ca3_P2_34745881	Ca3	34745881	TGGG/TGGGG	CAGAAAATGGTTTAAAG ACCCC	AAAAACAAACGTGTAGA CTAAAAAGC	58.6	340	INTERGENIC	--	--	--
Ca3_P2_34745952	Ca3	34745952	CTTTTTTT/CTTTTTTTTT	CAGAAAATGGTTTAAAG ACCCC	AAAAACAAACGTGTAGA CTAAAAAGC	58.6	340	INTERGENIC	--	--	--
Ca3_P2_34746354	Ca3	34746354	GAT/GATCAT	TGGTGATACTAAGAG ACACGTCAA	GGGGAGGAGGAAGAA GCTC	60.3	810	INTERGENIC	--	--	--
Ca3_P2_34746515	Ca3	34746515	CAA/CA	GCTTTTTAGTCTACAG TTTGTTTTT	ATTTGCATGAGGTAGC CAGC	60.2	746	INTERGENIC	--	--	--
Ca3_P2_34749435	Ca3	34749435	TC/T	TGGGGGAGAGACGTCA TAAT	TGTCCTCGACATTTCTC TCCA	60.8	834	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34749745	Ca3	34749745	A/ACCTTAT	CGTCAATATTTGTGCA GGC	TATGGGTGGTTCCATT CCAC	60.4	332	INTERGENIC	--	--	--
Ca3_P2_34751724	Ca3	34751724	TAA/TAAAATAAA	TCCCTCTCTGCAGGAA AGTC	ATGAGACTCCAACCCA CGTC	60.0	260	INTERGENIC	--	--	--
Ca3_P2_34753443	Ca3	34753443	TAA/TAACAA	TCCAAAACCACAACAAC CAA	CTAAATGTCCCCGT CTCA	59.9	689	INTERGENIC	--	--	--
Ca3_P2_34755544	Ca3	34755544	T/TA	TTTTTCCATTTTACCGG TCG	TTTTCAAGTGGCATCAA CCA	60.1	587	DRR	Ca_00751	--	HD-ZIP
Ca3_P2_34759483	Ca3	34759483	AACACA/AACACACA	CTGCAAAACCTAACAC CGT	CTCCGTTTAATGCCTAC GGA	60.1	176	INTRON	Ca_00751	--	HD-ZIP
Ca3_P2_34760720	Ca3	34760720	T/TG	AACGATCTAACGGTTGT AATTGA	TGCACTTTTGTCTCT TATTTTGTG	60.1	579	INTERGENIC	--	--	--
Ca3_P2_34762413	Ca3	34762413	T/TA	GGTGTCTCAAATGGTC GAGT	GCTCCTGGTTTGTCTT TGC	59.9	360	INTERGENIC	--	--	--
Ca3_P2_34763162	Ca3	34763162	CAAATAAAATAAA/CAAATAAAATAA AAATAAAATAAA	TTCTCATGGTTGACGAC TGC	GCAATCCTCCTCTCA CACA	58.8	937	INTERGENIC	--	--	--
Ca3_P2_34764284	Ca3	34764284	ATTTTTTTTTTT/ATTTTTTTTTT	ATTTGGTGCAAGCAT GAA	TCGACAAAATGACAAA TTGA	59.0	294	INTERGENIC	--	--	--
Ca3_P2_34764651	Ca3	34764651	AATATAT/AATATATAT	TGAGGATGAATTGGT GCAA	TGAGGGTAAATGTGG AGGG	59.8	821	INTERGENIC	--	--	--
Ca3_P2_34770011	Ca3	34770011	CTTTTTTTTT/CTTTTTTTTT	TGCTTGTGAGACATT GCG	TATGGCGGGCAATTAA AAAG	59.9	483	INTRON	Ca_00753	G	MYB_related
Ca3_P2_34777528	Ca3	34777528	T/TG	AGAGACCGAAGGAACG AACA	CCCAATCTTATTGGG AGCA	59.9	514	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
Ca3_P2_34784573	Ca3	34784573	T/TGG	TTGTGTTCAAATATCAC CGCTC	ACGTGTTTGGTGAAAA CGAA	59.1	380	INTERGENIC	--	--	--	--
Ca3_P2_34784668	Ca3	34784668	T/TA	TTGTGTTCAAATATCAC CGCTC	ACGTGTTTGGTGAAAA CGAA	59.1	380	INTERGENIC	--	--	--	--
Ca3_P2_34786765	Ca3	34786765	ACTTTTTTT/ACTTTTTTTTATCTTTTT TTT	CCAAGCGATAAAACAAA AGCA	GAAC TTCCGAAGTTG AGCG	60.0	355	INTERGENIC	--	--	--	--
Ca3_P2_34788229	Ca3	34788229	CATATATAT/CATAT	GAGCGAGCCTGTTCTG CTAT	TGGAGACGAGACACCA AATC	58.6	663	INTERGENIC	--	--	--	--
Ca3_P2_34789290	Ca3	34789290	TTACAAAAT/TT	GCAATGTTGGGACACT GATG	ATGATGCACAATTCCT GCC	60.9	302	INTERGENIC	--	--	--	--
Ca3_P2_34789632	Ca3	34789632	AACTA/AAC TAGTACTA	ATTGTGGCAGGAAATT GTGC	CCATCCCAAAAGATCC TCAA	59.9	676	INTERGENIC	--	--	--	--
Ca3_P2_34789772	Ca3	34789772	TA/TAACAA	ATTGTGGCAGGAAATT GTGC	CCATCCCAAAAGATCC TCAA	59.9	676	INTERGENIC	--	--	--	--
Ca3_P2_34790104	Ca3	34790104	TTATA/TTATATA	TTGAGGATCTTTTGGA TGG	GGGTTGATGCCTCACT CTAAA	59.2	333	INTERGENIC	--	--	--	--
Ca3_P2_34790577	Ca3	34790577	CATATTAATATTAAT/CATATTAATATTA ATATTAAT	CCTCACAGCTGCCCT ATTA	AAAACACACAGGGCAT GATAA	58.0	692	INTERGENIC	--	--	--	--
Ca3_P2_34791845	Ca3	34791845	TTCTCTCTCTCTCTCTCTCTCTCT/TC TCTCTCTCTCTCTCTCTCTCTCTC	AGCAAGAGAATGACAC CCCA	AGGAAGAGGAATACGG GGAA	59.9	683	INTERGENIC	--	--	--	--
Ca3_P2_34793167	Ca3	34793167	TAATAATGAAT/TAAT	CTAACGTGCGGATT GTTT	CGTGGGACAAGAAGT GAAT	60.0	660	INTRON	Ca_00755	Q	B3	
Ca3_P2_34795848	Ca3	34795848	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CAAGATCTCGAAGCCA AAGG	CCAAACCAAAAGATTC CCA	59.8	868	INTERGENIC	--	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34796964	Ca3	34796964	GA/GTGTATTTC	ATGCACTCAAACCAAC ACA	GGCCGCTCTATTTAAG GCAT	60.6	410	INTERGENIC	--	--	--
Ca3_P2_34797791	Ca3	34797791	GAAAA/GAAAAA	TTGTCAAACATTGCAAC AAGAA	CACACTGAAGGTCTCC GGTT	60.2	902	INTERGENIC	--	--	--
Ca3_P2_34797856	Ca3	34797856	GTTTTTTTT/GTTTTTT	TTGTCAAACATTGCAAC AAGAA	CACACTGAAGGTCTCC GGTT	60.2	902	INTERGENIC	--	--	--
Ca3_P2_34799142	Ca3	34799142	CAAAAAA/CAAAAAA	CAATTGAACCTACGTG GGACT	AAGTGTGGCAAGCTCT TGGT	59.9	344	DRR	Ca_00756	--	--
Ca3_P2_34806753	Ca3	34806753	CT/CTTT	GTTTCGATTCTGGAGC TGG	CCAAAATTGAATCAAAC CACA	58.4	351	DRR	Ca_00757	--	--
Ca3_P2_34811902	Ca3	34811902	AAGCTA/AAGCTAGCTA	CACACTCGTGTTCCT CTT	TGCATGTGAAAAGAAT GGGA	60.0	623	INTERGENIC	--	--	--
Ca3_P2_34815185	Ca3	34815185	TG/T	CACACTTGTGGTTGAG GCTG	GGAAGCAGAGCTGGAA TGTC	60.0	473	INTERGENIC	--	--	--
Ca3_P2_34817190	Ca3	34817190	GTT/GT	CTCAAACTGTCGGTG GGTT	CCATGCCTTTTACCTCC AAA	59.9	605	INTRON	Ca_00758	--	--
Ca3_P2_34818238	Ca3	34818238	TAAAAAAA/TAAAAAAA	TGGGGAAAAGTTCAATT TCTACA	ATTGCGATCCGAAAAT CAAC	59.9	320	INTRON	Ca_00758	--	--
Ca3_P2_34818325	Ca3	34818325	TTATATATATAT/TTATATATATAT	TGGGGAAAAGTTCAATT TCTACA	ATTGCGATCCGAAAAT CAAC	59.9	320	INTRON	Ca_00758	--	--
Ca3_P2_34818875	Ca3	34818875	AAATAATAATAAT/AAATAATAATAATAA TAAT	TTGTTGTCGCCATCATT GTT	ACTCCCGCAGTCCCTA TTCT	60.1	455	INTRON	Ca_00758	--	--
Ca3_P2_34821783	Ca3	34821783	CAAAAAAAAA/CAAAAAAAAAA	ATTGTCACGTGAGTTGC TGG	ACTAACCTCACCACC CTCC	60.2	498	DRR	Ca_00758	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34832562	Ca3	34832562	TAAAAAAAAA/TAAAAAAAAAAAAA	TCCGTTAGGCAAGAG CATT	GAAGGGAGGTGAGT GATGA	60.0	458	INTERGENIC	--	--	--
Ca3_P2_34835748	Ca3	34835748	TC/T	ATGCATTACCAACCA TTT	TGTTATTGGCCTTCG TTTC	60.2	504	INTERGENIC	--	--	--
Ca3_P2_34835888	Ca3	34835888	GAAAAAAAAA/GAAAAAAAAA	ATGCATTACCAACCA TTT	TGTTATTGGCCTTCG TTTC	60.2	504	INTERGENIC	--	--	--
Ca3_P2_34836958	Ca3	34836958	TTTTTTAAATTTT/TTTTTTT	GTGGTAATCCAACCGT CGAG	GAACCGATCCAACATG CTTT	59.9	443	INTRON	Ca_00761	G	--
Ca3_P2_34837304	Ca3	34837304	AATACACATACACA/AATACACAT ACACATACACA	AAAGCATGTTGGATCG GTTC	GCGATGATGCTGTTCA CATT	59.7	507	INTRON	Ca_00761	G	--
Ca3_P2_34840194	Ca3	34840194	TGG/TG	GAAGCCATGAAGATGG GTGT	AAGCCACCTTCATCAC CAAC	60.0	402	INTRON	Ca_00761	G	--
Ca3_P2_34840396	Ca3	34840396	CTTTTTTTTT/CTTTTTTTT	GTTGGTGATGAAGGTG GCTT	ATCCGGTCCCATAAC TTTC	60.0	457	INTRON	Ca_00761	G	--
Ca3_P2_34840506	Ca3	34840506	GTTTTTTTTT/GTTTTTTTT	GTTGGTGATGAAGGTG GCTT	ATCCGGTCCCATAAC TTTC	60.0	457	INTRON	Ca_00761	G	--
Ca3_P2_34844133	Ca3	34844133	TAAAAAAAAA/TAAAAAAAAAAAA	AGGATGAAACAATTGCC AAA	TAAAGCCCACAGAGC AACC	60.2	546	DRR	Ca_00761	G	--
Ca3_P2_34845314	Ca3	34845314	GCAA/G	ATGGGTACACACGAA AGCA	ACACCCCGTACTTCA AACA	60.3	563	INTERGENIC	--	--	--
Ca3_P2_34845361	Ca3	34845361	ATTTT/ATTT	ATGGGTACACACGAA AGCA	ACACCCCGTACTTCA AACA	60.3	563	INTERGENIC	--	--	--
Ca3_P2_34850302	Ca3	34850302	AA/AACTCTA	CTATGGGGCGAGGTGA ACAA	CCCATTGGAAGAGAAC CTCA	60.0	587	DRR	Ca_00762	A	C3H

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_34851745	Ca3	34851745	GAAAAAAAA/GAAAAAAAA	ACAAACCCCTTCACTGG CAC	GGTGGCCATGTTGATA CTCC	60.2	375	INTRON	Ca_00763	--	C2H2
Ca3_P2_34851854	Ca3	34851854	TATAA/TATAATAA	ACAAACCCCTTCACTGG CAC	ACCGCAAACCTCTATGTT GGG	60.0	648	INTRON	Ca_00763	--	C2H2
Ca3_P2_34852048	Ca3	34852048	CTACTTTA/CTACTTTACTTTA	ACAAACCCCTTCACTGG CAC	ACCGCAAACCTCTATGTT GGG	60.0	648	INTRON	Ca_00763	--	C2H2
Ca3_P2_34855207	Ca3	34855207	GAAA/GAAAACAGCGATAAA	ACCGTTGAAAGGTGGA CAAG	TTGAAATCATCTCGAAG GGG	60.0	824	INTRON	Ca_00763	--	C2H2
Ca3_P2_34856152	Ca3	34856152	TAAAAAAAAA/TAAAAAAAAAAAAA	AAAAGCGTTATCACATC CGC	GTGGAGCCAAGCATTT CTTC	59.8	192	INTRON	Ca_00763	--	C2H2
Ca3_P2_34857328	Ca3	34857328	T/TG	AAAAGAGGGCAAAGTT CGATT	TGATCCCTTTCCATGT GAT	60.1	667	INTERGENIC	--	--	--
Ca3_P2_34861205	Ca3	34861205	GT/GTGTGTCT	GATTTGTATGCGAAGC GGAT	GAAGGGATGAAAGCCA ATGA	60.0	387	INTRON	Ca_00764	A	C2H2
Ca3_P2_34866347	Ca3	34866347	CTATT/CTATTATT	TACCATGATGATGAAGC GGA	TCAACCGAATCAACAAC CAA	59.9	308	DRR	Ca_00764	A	C2H2
Ca3_P2_34866807	Ca3	34866807	AC/A	TTGGTTGTTGATTGCGT TGA	GTCGTGCGCAAATTA AAGG	59.6	487	DRR	Ca_00764	A	C2H2
Ca3_P2_34867338	Ca3	34867338	T/TA	TTTTGCCGACGACTCTT ATTC	AAGAGGTTGGAATGTG ACCG	60.0	677	DRR	Ca_00764	A	C2H2
Ca3_P2_34869900	Ca3	34869900	T/TAA	TGGCCCTAGCAAAAGA AAAA	TGAGCTGATAACCGAT GAAAAA	59.7	631	INTERGENIC	--	--	--
Ca3_P2_34870723	Ca3	34870723	ATTTTTTT/ATTTTTT	CTGGGACACAATCCCA AACT	CGGTGAGTCACTATAC TCCCTCTT	60.1	666	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34872921	Ca3	34872921	ATTTTT/ATTTTTTT	CACAAATGCGATTAAGG GCT	CATGTTGAATGGAAGC ACACA	60.6	685	INTERGENIC	--	--	--
Ca3_P2_34873119	Ca3	34873119	CATAATT/C	TACGACTCAACGAAGG GACC	AAACATAATCCCTGCCA TCG	59.8	835	INTERGENIC	--	--	--
Ca3_P2_34873728	Ca3	34873728	TA/T	AACACATTTTTGCAAGT GCG	GGCTTCTGAAAAACAC AGCC	59.9	728	INTERGENIC	--	--	--
Ca3_P2_34873766	Ca3	34873766	CAAAAA/CAAAAA	AACACATTTTTGCAAGT GCG	GGCTTCTGAAAAACAC AGCC	59.9	728	INTERGENIC	--	--	--
Ca3_P2_34877612	Ca3	34877612	AATATATATAT/AATATATAT	GACGCATTCTCACAAC GAGA	TTGTTACGGTTGTGAA GCAAA	59.3	823	DRR	Ca_00765	--	--
Ca3_P2_34877774	Ca3	34877774	ATTTTTTT/ATTTTTTTT	ACCAACTGGGAAACA AGTG	TTGTTACGGTTGTGAA GCAAA	59.3	550	DRR	Ca_00765	--	--
Ca3_P2_34880048	Ca3	34880048	ACCC/ACC	TCTTCGAGGATGGTGA TGTG	TGCCCCCGTCTATCAT AATC	59.7	107	INTERGENIC	--	--	--
Ca3_P2_34884069	Ca3	34884069	GTT/GAAACTT	TGGTGCAATAAGCTCA CCAC	CAGCAAGGAGTTCAA TCCAA	60.2	379	DRR	Ca_00766	--	CPP
Ca3_P2_34884996	Ca3	34884996	CAAAAAAAAA/CAAAAAAAAA	TTTCGCTCATTCTCCTC CAT	TGAAAACAAATTGCC AAA	59.0	531	DRR	Ca_00766	--	CPP
Ca3_P2_34885342	Ca3	34885342	TAAAAAAAAA/TAAAAAAAAA	TTTGGCAATTTGTGTT TCA	GGAAGTGCACGGTGA CTTT	60.2	459	DRR	Ca_00766	--	CPP
Ca3_P2_34887394	Ca3	34887394	GT/GTT	TCTTCCACACAAAACCC TCC	ACGTGCATCACAAAAC CAAA	60.0	571	INTRON	Ca_00767	G	ERF
Ca3_P2_34887847	Ca3	34887847	C/CG	CCATCCCTTAAGGTTG GGAT	GGACGAGCCTTACAGC AAAC	59.9	443	INTRON	Ca_00767	G	ERF

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34890320	Ca3	34890320	CTACTTA/CTA	ATCGGCCTTCTCCACT TTT	TTGTAACCAAAAAGCC CAGC	60.1	748	DRR	Ca_00767	G	ERF
Ca3_P2_34890533	Ca3	34890533	TAAAAAAA/TAAAAAAA	GTGCTACTGAAGCAA CGCA	TTGTAACCAAAAAGCC CAGC	60.1	252	DRR	Ca_00767	G	ERF
Ca3_P2_34897093	Ca3	34897093	CA/CAA	CGCGTGTATAGTCCT TTGA	AAGTGGTGGGTGGAGA TTTG	59.8	935	INTERGENIC	--	--	--
Ca3_P2_34897314	Ca3	34897314	TA/TAAA	AGAACAAATTTGGCGC AAC	AGTTTGTGCGGTCCAT GAGC	60.1	537	INTERGENIC	--	--	--
Ca3_P2_34897346	Ca3	34897346	TAAAAAA/TAAAAAAA	AGAACAAATTTGGCGC AAC	AGTTTGTGCGGTCCAT GAGC	60.1	537	INTERGENIC	--	--	--
Ca3_P2_34901143	Ca3	34901143	ATAAATTTAAAT/ATAAATTTAAATTTAA T	CCAAGTCCAACACCCA TCT	TGGTGGATAACCCCTT TAACA	59.2	692	INTERGENIC	--	--	--
Ca3_P2_34901385	Ca3	34901385	AATCTTA/AA	AAATGACCACCAACAA AGAAA	TGGTGGATAACCCCTT TAACA	59.2	372	INTERGENIC	--	--	--
Ca3_P2_34906102	Ca3	34906102	CTTTTTTT/CTTTTTTTTT	TGGATGGTGATTATCC GACTC	TCCAAGTCTTTCAATAC AAAACACA	60.0	605	INTERGENIC	--	--	--
Ca3_P2_34910960	Ca3	34910960	GTTTTTT/GTTTTTTT	TCAAGGTCAAGTGTGG CAAA	CTTGGTCGACGATGA GGAT	60.1	819	INTERGENIC	--	--	--
Ca3_P2_34913784	Ca3	34913784	GTATATATATATA/GTATATATATATATA TA	ACCCGTTTCTTTGTTGT TGG	CTATCCAAGAGCATC CCCA	60.0	427	DRR	Ca_00768	--	ERF
Ca3_P2_34913867	Ca3	34913867	AA/AACACTTGA	TGGGGATGCTTCTTGG ATAG	AAAATTTTCGAGGCCA TACC	60.2	154	DRR	Ca_00768	--	ERF
Ca3_P2_34914599	Ca3	34914599	T/TCGGG	TGGGAAGATGGAGGAA GAAA	GCCGGTTTCACACTTT GAT	60.0	387	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34915693	Ca3	34915693	CGA/CGAGA	GAGAGAGTGAGGCGGA TGAC	TGAGTTATTGCTTCG GTCC	60.1	885	INTERGENIC	--	--	--
Ca3_P2_34916105	Ca3	34916105	GTTTT/GTTTTTT	TCGACCATCGTCATACT CCA	TCTCCCTTCATATGAC CCTT	59.8	671	INTERGENIC	--	--	--
Ca3_P2_34916279	Ca3	34916279	GAAAAA/GAAAAAA	TCGACCATCGTCATACT CCA	TGCCAAAGTCGAAAT CAA	59.3	799	INTERGENIC	--	--	--
Ca3_P2_34923351	Ca3	34923351	TT/TTAT	GGGGTTTTATTAGCTG GGGA	TCTCTGCCCTTGCTTTC CTA	60.1	513	INTERGENIC	--	--	--
Ca3_P2_34923380	Ca3	34923380	TAGAGAGAGAG/TAGAGAGAGAG	GGGGTTTTATTAGCTG GGGA	TCTCTGCCCTTGCTTTC CTA	60.1	513	INTERGENIC	--	--	--
Ca3_P2_34923971	Ca3	34923971	CAAAA/CAAA	TGGTAGCAAAATGTTG GTGA	AAGGCACATTCTACAT CCG	60.0	545	INTERGENIC	--	--	--
Ca3_P2_34925950	Ca3	34925950	GAAAAA/GAAAAAA	ATCTTTCAATTCGCCCC TTT	CCATCACTCTTACATGC CCA	59.5	875	INTERGENIC	--	--	--
Ca3_P2_34927968	Ca3	34927968	AGG/AGGG	AGTCAGCAACAAAGTG GCAA	GCATAAACTTGAGC CTCG	59.8	322	INTERGENIC	--	--	--
Ca3_P2_34929792	Ca3	34929792	TA/T	TCAATGCATGTCCAAGT GGT	ACGTCACCGACAAACA AACA	60.0	935	INTERGENIC	--	--	--
Ca3_P2_34930417	Ca3	34930417	CG/C	TTTTCGTTTGCATGAT TGA	CCGTTAAACAACGTT GGGA	60.8	217	INTERGENIC	--	--	--
Ca3_P2_34931259	Ca3	34931259	AAAA/AAAAGAAA	TGCACCATCGTAGTTGA TTACA	TGTCCTTAGTGGTGA AGGG	60.0	307	INTERGENIC	--	--	--
Ca3_P2_34932929	Ca3	34932929	TAAAAA/TAAAAAA	ACTTGCTTGCACCTCG TTT	TTGAAAGATGACTCTTC ACCGA	59.9	631	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_34933144	Ca3	34933144	AT/A	TCGGTGAAGAGTCATC TTTCAA	GCTGCATTGTGAGAAA ATGTG	59.3	517	INTERGENIC	--	--	--
Ca3_P2_34933338	Ca3	34933338	AGTAAATATAG/AGTAAATATAGAATAT GTAAATATAG	TCGGTGAAGAGTCATC TTTCAA	GGGCCTTCACGTGTCT AAAA	60.1	687	INTERGENIC	--	--	--
Ca3_P2_34942332	Ca3	34942332	TAAAAAAA/TAAAAAAA	CCAAATCAAGCTATTTG GGTAG	TCGGCAATTTATCACCT TGA	59.1	425	INTERGENIC	--	--	--
Ca3_P2_34943152	Ca3	34943152	TTATATATATATATATA/TTATATATAT ATATATATATA	TGCATTTTTGTGATTGT GTGTG	GCTGGCTCTTTGGGTA TGAG	59.8	454	INTERGENIC	--	--	--
Ca3_P2_34943202	Ca3	34943202	ATTT/ATTTT	TGCATTTTTGTGATTGT GTGTG	GCTGGCTCTTTGGGTA TGAG	59.8	454	INTERGENIC	--	--	--
Ca3_P2_34943765	Ca3	34943765	ATTTTTTTTT/ATTTTTTTT	GTGTTTGCTTGCTTTGA CCA	CGGAACTACTCCATC GTGAA	60.1	384	DRR	Ca_00771	--	S1Fa-like
Ca3_P2_34946762	Ca3	34946762	AAAAATAAAATAAAA/AAAAATAAAA	GAACAAAACCACAGATC GGG	TTCAGTTGGGTCGTGT TGAA	60.1	461	INTRON	Ca_00771	--	S1Fa-like
Ca3_P2_34947756	Ca3	34947756	TAG/T	CCTTTGCCTTTAGGGAC CAT	AGTTGGGCCAGATCAC ATTC	59.9	597	INTERGENIC	--	--	--
Ca3_P2_34952227	Ca3	34952227	AT/A	ACACGTGTGGATGTGG AAGA	TGAAAGACATAGACTC ATTTTACCAA	59.5	679	INTERGENIC	--	--	--
Ca3_P2_34952792	Ca3	34952792	AATATATATATATA/AATATATATATAT ATATATATATATATA	AAGTTTTCAATGACAA CCCTTAAA	ACCAAAACCAATTGCT TGC	60.0	349	INTERGENIC	--	--	--
Ca3_P2_34952880	Ca3	34952880	TAAAAAAA/TAAAAAAA	TCGTTATTTAGTTGGTT GGCA	ACCAAAACCAATTGCT TGC	60.0	239	INTERGENIC	--	--	--
Ca3_P2_34953359	Ca3	34953359	AATATATATAT/AATATATAT	GCAAGCAATTTGGTTT GGT	TGTTGTAGAGGAATCA CGGG	58.6	644	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_34953729	Ca3	34953729	ATTTTT/ATTTTT	CCCGTGATTCTCTACA ACA	GAATCGCTTGAGGAC GAAG	60.1	395	INTERGENIC	--	--	--
Ca3_P2_34953897	Ca3	34953897	TAAAAA/TAAAAAA	CCCGTGATTCTCTACA ACA	GAATCGCTTGAGGAC GAAG	60.1	395	INTERGENIC	--	--	--
Ca3_P2_34954280	Ca3	34954280	TC/T	CTTCGTCCTCAAGCGA GTTT	TGCATGCAGGAGAAGT ATTTATT	58.0	681	INTERGENIC	--	--	--
Ca3_P2_34954400	Ca3	34954400	ATTTTTTTTT/ATTTTTTTTT	CTTCGTCCTCAAGCGA GTTT	TTGTTGTCGAGGAAAT GATCC	59.9	857	INTERGENIC	--	--	--
Ca3_P2_34955034	Ca3	34955034	AATG/AATGATG	GGCACCTTTGTCGTAT GTTT	CAGACTCAATCATGGG CATT	58.5	522	INTERGENIC	--	--	--
Ca3_P2_34958868	Ca3	34958868	ACCCC/ACCC	GCAACACCATGATAAC GTGC	GATGAGATGTTGCCCC TGTT	60.1	220	INTERGENIC	--	--	--
Ca3_P2_34964095	Ca3	34964095	GCC/GCCCC	GGTGACCATGAAGCTC GTTT	GCAATCAACAAACAAGT GTGC	59.2	488	INTERGENIC	--	--	--
Ca3_P2_34967501	Ca3	34967501	TAAAAA/TAAAAAA	TGGTGGTTTTGGACTT GATG	TTTCTTCTCTGCCTTC CACA	60.0	626	INTERGENIC	--	--	--
Ca3_P2_34967661	Ca3	34967661	GTATTTTATTGATATATTT/GTATTT T	TGGTGGTTTTGGACTT GATG	ATCTGTAATTGGCAGG CAGG	60.1	773	INTERGENIC	--	--	--
Ca3_P2_34970200	Ca3	34970200	CTTTTTTT/CTTTTTTT	AACACCAACAGATTCCC CAG	CAAGCTAAAATGGCTT CCCA	60.2	234	INTRON	Ca_00772	--	GRF
Ca3_P2_34970367	Ca3	34970367	TTTCTT/TTTCTTCTT	AACACCAACAGATTCCC CAG	CAAGCTAAAATGGCTT CCCA	60.2	234	INTRON	Ca_00772	--	GRF
Ca3_P2_34972470	Ca3	34972470	TA/T	ATGAAGCTTTGGATTGT GGG	TCCACAGCGTACCAAC AAAA	60.1	491	INTRON	Ca_00772	--	GRF

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_34976263	Ca3	34976263	T/TC	GTTCTACGTTTGAGCA GCC	CAATTCAGCAAAGCGC AATA	60.0	358	INTRON	Ca_00773	G	--
Ca3_P2_34981658	Ca3	34981658	CAAAAAAAAA/CAAAAAAAAAAAAA	TTGCTGTGGGTAGGA GAAC	TCCTTACGCTCTTTCGT CGT	60.0	334	INTRON	Ca_00773	G	--
Ca3_P2_34993883	Ca3	34993883	GATCTATTGTGAATCTATTGT/GATCTA TTGT	GCACGTTGATTGAAGC AGAA	TTGTTTGCACTGCTACA GGC	60.1	717	INTRON	Ca_00773	G	--
Ca3_P2_35017950	Ca3	35017950	AC/A	TGACCGAAAAGTGGTC AAAA	GCCTAGAAAAGTAGGGG TGTTACAA	60.0	760	INTERGENIC	--	--	--
Ca3_P2_35018016	Ca3	35018016	AGTTT/A	CAGGCGCATATGTTTT ACC	GCCTAGAAAAGTAGGGG TGTTACAA	60.0	535	INTERGENIC	--	--	--
Ca3_P2_35019374	Ca3	35019374	A/AG	CCCCTGAAAATCGTATC ACAA	GCTGAGTTTAATGACC CGGA	60.1	765	DRR	Ca_00776	Q	E2F/DP
Ca3_P2_35030161	Ca3	35030161	GC/GCTACTAAAGTTC	GATGTCCAACCTCCGAC GACT	GAAACCGGATTTTCCC ACTT	60.2	370	INTERGENIC	--	--	--
Ca3_P2_35031349	Ca3	35031349	CAA/C	ACTCATCTGTTCCACAC GCC	ATTATGATGGTCCCT CAGC	59.9	584	INTERGENIC	--	--	--
Ca3_P2_35033028	Ca3	35033028	GATATA/GATA	TTCAAACAGTCACAC AACGG	TTTCATGTTGTTCCCC AAT	60.0	477	DRR	Ca_00777	R	--
Ca3_P2_35033116	Ca3	35033116	TGGGGG/TGGGGGG	TTCAAACAGTCACAC AACGG	CACGTTTCATCTATTTTG GGGA	59.8	853	DRR	Ca_00777	R	--
Ca3_P2_35035644	Ca3	35035644	TA/TAA	GCTGAACTCCGGATT CCAA	TCATGCTGCTTCAAAG GTTG	60.0	701	INTRON	Ca_00777	R	--
Ca3_P2_35040031	Ca3	35040031	GA/GAA	CATTCCAACCACTTC CCT	GAACAACCACTATCTT GGG	60.2	521	INTRON	Ca_00777	R	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_35040555	Ca3	35040555	A/AAAAAAAG	AGCAAGGCCATCTTTCT TCA	TCAAGCTCTGCATATG GGTG	59.8	259	INTRON	Ca_00777	R	--
Ca3_P2_35040626	Ca3	35040626	CTT/CTTT	AGCAAGGCCATCTTTCT TCA	AATATCAAGCCGTGCA AACC	60.0	722	INTRON	Ca_00777	R	--
Ca3_P2_35048375	Ca3	35048375	TA/T	AGCTGATCGCAACTTA GGGA	TTATGGGCAAAATAGC AGGG	59.9	536	INTERGENIC	--	--	--
Ca3_P2_35049078	Ca3	35049078	GAAAAAAA/GAAAAAAA	TCCCTGCTATTTTGCC ATA	GGGAAGCGTAGTGACA TCGT	60.1	687	INTERGENIC	--	--	--
Ca3_P2_35053156	Ca3	35053156	TAAAAAA/TAAAAAA	GACACCCAGTCCATAG TGCC	ACACGGGACAAATGTT TTGA	58.9	698	INTRON	Ca_00778	Q	E2F/DP
Ca3_P2_35053556	Ca3	35053556	CATATATA/CATATA	TTGTCAAAACATTTGTC CCG	GATTTGATCTTCCTATT GTCAACG	59.1	280	INTRON	Ca_00778	Q	E2F/DP
Ca3_P2_35053715	Ca3	35053715	ATTTTTTTT/ATTTTTT	TTGTCAAAACATTTGTC CCG	AACATTATCAAAATTT AGGCACA	58.9	534	INTRON	Ca_00778	Q	E2F/DP
Ca3_P2_35061749	Ca3	35061749	A/AACTGT	TCAATACCCAGCACCA AAT	TTCTGCCTTCCATTCAA ACC	60.1	710	CDS (FRAME SHIFT)	Ca_00778	Q	E2F/DP
Ca3_P2_35063966	Ca3	35063966	TTTTACATCTT/TTT	CGCTCGCAATTAACA TCA	CGCGTTTCGCGGATAT TA	60.7	452	DRR	Ca_00778	Q	E2F/DP
Ca3_P2_35075809	Ca3	35075809	AATTATTATTAT/AATTATTATTATTATTA T	ATCCAATCCAATGTTGC CAT	TGCCGACCTCTTTTCTC CTA	59.9	506	INTERGENIC	--	--	--
Ca3_P2_35076089	Ca3	35076089	TG/T	TAGGAGAAAAGAGGTC GGCA	AAAGGACCAAGTCGGA AAAA	58.7	332	INTERGENIC	--	--	--
Ca3_P2_35077901	Ca3	35077901	ATTTTT/ATTTTTTT	GTCCATCACGACTTGG ACCT	TGCAGTCCAGCATTGG TAAC	59.7	281	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35080677	Ca3	35080677	TC/T	TTTGTCTCAATTCCTT GGG	CTAAGGTGGCAGCTTT CCTG	60.0	649	INTRON	Ca_00780	--	bZIP
Ca3_P2_35086395	Ca3	35086395	TAAAAAAAA/TAAAAAAAA	TGCCTTTCATCTACTT GGG	GGGCAATCGACCATT ATAG	60.3	690	INTRON	Ca_00781	--	G2-like
Ca3_P2_35086678	Ca3	35086678	ATTTTT/ATTTTT	TCTGCTCATGTGGCAA AAG	CATGTTGGAGACTGCG ATTG	60.3	487	INTRON	Ca_00781	--	G2-like
Ca3_P2_35086999	Ca3	35086999	TGTTGCAGTTCAGTTG/TGTTGCAGTT GCAGTTCAGTTG	TGTTGTGGTGGTGTG TTCC	TCACTCATTTGCGTTC TTG	60.0	458	CDS (large-effect mutations)	Ca_00781	--	G2-like
Ca3_P2_35087553	Ca3	35087553	CATAATA/CATA	CAAGAACGCGAAATGA GTGA	AGCTTGGGCCAAACCA TAG	60.1	239	INTRON	Ca_00781	--	G2-like
Ca3_P2_35087732	Ca3	35087732	GTTTTTTTTT/GTTTTTTTTT	CAAGAACGCGAAATGA GTGA	TGACAAACCGAAATGG GAAT	60.2	819	INTRON	Ca_00781	--	G2-like
Ca3_P2_35090168	Ca3	35090168	CTTTTTTTT/CTTTTTTTT	GAGTTGTCATGTTGG GCCT	TTGTCAGTGCCAGTCA AAAA	57.9	513	INTERGENIC	--	--	--
Ca3_P2_35090812	Ca3	35090812	GTTTTTTTTT/GTTTTTTTTT	TTTGTGCAAAAATTCA AGTCA	AGCTTTGTCGCAGAC ACTT	60.1	613	INTERGENIC	--	--	--
Ca3_P2_35092745	Ca3	35092745	GTGATGATGATGATG/GTGATGAT G	TTTTAATGTTGCCGGT TCA	TCACAAAGCTTCACTTC CCA	59.4	390	INTERGENIC	--	--	--
Ca3_P2_35092956	Ca3	35092956	TG/TGGTGCTATAG	TTTTAATGTTGCCGGT TCA	TCACAAAGCTTCACTTC CCA	59.4	390	INTERGENIC	--	--	--
Ca3_P2_35093080	Ca3	35093080	GTTT/GTTTTATTTTT	TTTTAATGTTGCCGGT TCA	TGGAGGCAACTTGATT TCACT	59.7	445	INTERGENIC	--	--	--
Ca3_P2_35094993	Ca3	35094993	TAAA/TAAAA	TGAACCTAACTAAGGTT CTCAACA	AATAGCAATGGCGATG AAGG	60.1	681	DRR	Ca_00782	F	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35095475	Ca3	35095475	AATATATATATATATATA/AATATATAT ATATATA	CTTGATAACAAGGCCA GGGA	ACTCCATCCACCAAG AAAG	60.0	483	DRR	Ca_00782	F	--
Ca3_P2_35098773	Ca3	35098773	TAAGTA/TAAGTAAACTCAAGTA	AGCACGGTTATTCACC AGG	GCAGAAGGAAGCACTG AACC	60.0	372	INTRON	Ca_00782	F	--
Ca3_P2_35099657	Ca3	35099657	GATA/GATATA	TGGGTACCGGACACAC TATG	AAACGCCGAGAAGCTC ATTA	60.0	180	INTRON	Ca_00782	F	--
Ca3_P2_35100602	Ca3	35100602	TAAAAAA/TAAAAAA	TTATAAGTTTGGGGCA CCG	CAACAGCGGTACAATC ATCG	60.1	701	INTERGENIC	--	--	--
Ca3_P2_35101262	Ca3	35101262	TTAAAAAGTAAAA/TTAAAAAGTAAAAAG TAAAA	CGATGATTGTACCGCT GTTG	CGAAGGAAGTGTATC CGAA	57.8	885	INTERGENIC	--	--	--
Ca3_P2_35102203	Ca3	35102203	TAAAAAA/TAAAAAA	TTCGTGGAAGAATATAG CGACA	TGTGTAAACCTAACAAT GGCA	59.0	118	INTERGENIC	--	--	--
Ca3_P2_35102977	Ca3	35102977	GAGATCAAAA/GA	ATGAATTACGGTTGTTG CGG	TGGAAAAAGATTGTGA CGTTTG	60.0	254	INTERGENIC	--	--	--
Ca3_P2_35103080	Ca3	35103080	ATTTTTTTT/ATTTTTTTT	ATGAATTACGGTTGTTG CGG	TGGAAAAAGATTGTGA CGTTTG	60.0	254	INTERGENIC	--	--	--
Ca3_P2_35103163	Ca3	35103163	CAAAAAAAAA/CAAAAAAAAA	ATGAATTACGGTTGTTG CGG	GCACATGTTGGATGCA CATAA	60.4	708	INTERGENIC	--	--	--
Ca3_P2_35106644	Ca3	35106644	AATATATATATA/AATATATATATA	TGTCAAATGGGAAAGG GAAG	TTTGCTGCAATACATT TCAGG	60.1	608	INTRON	Ca_00783	S	--
Ca3_P2_35111987	Ca3	35111987	T/TG	GATAAGAACGACCCCA CCAA	TGGTTGTGTGGAATT GAGA	59.9	586	INTERGENIC	--	--	--
Ca3_P2_35112555	Ca3	35112555	CTTTTTTTT/CTTTTTTTT	CCACCACAACCACTCCT TCT	TGCGTCAGAAACGATA GACG	60.0	588	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_35117240	Ca3	35117240	CTTT/CTT	GGTGCACCACATAA CAACAA	CATGGCATCGTAACA CGAC	60.0	580	DRR	Ca_00785	G	C3H
Ca3_P2_35118983	Ca3	35118983	AC/A	AGTTGGACCCACTTTG TGG	AAAATGGATGGGTCTG TTGC	59.8	545	INTRON	Ca_00785	G	C3H
Ca3_P2_35119008	Ca3	35119008	G/GCACTTTTA	AGTTGGACCCACTTTG TGG	AAAATGGATGGGTCTG TTGC	59.8	545	INTRON	Ca_00785	G	C3H
Ca3_P2_35126936	Ca3	35126936	CAAAA/CAAAAA	ACCTCCGCCACACAATA CTC	TTTCTTCACATCCACCA CCA	59.9	245	INTERGENIC	--	--	--
Ca3_P2_35126954	Ca3	35126954	AC/ACC	ACCTCCGCCACACAATA CTC	TTTCTTCACATCCACCA CCA	59.9	245	INTERGENIC	--	--	--
Ca3_P2_35136413	Ca3	35136413	CTAT/CTATATAT	ATACCATTAGCAGCA CACG	TTTATGCATATCACATC AACA AAAA	58.5	660	INTERGENIC	--	--	--
Ca3_P2_35138675	Ca3	35138675	TAA/TAAA	AGGGCCAGATTCTCTT GGTT	GTCAGATGAATCCCG CATC	60.4	563	INTRON	Ca_00787	G	C3H
Ca3_P2_35143342	Ca3	35143342	ATTT/ATTTT	CACATGCACTTTGGAGT TGG	TCTTCGTCTCCCTCCAT TTC	59.2	428	DRR	Ca_00788	G	C3H
Ca3_P2_35147082	Ca3	35147082	T/TAAAGA	GTCGGAGCCAAAATG AAAA	TGTGTTTCTTCCAGCA GAGAC	59.5	317	INTERGENIC	--	--	--
Ca3_P2_35147709	Ca3	35147709	AG/A	TCTCTGCTGAAAGAAA CACA	ACCCGTATTTGAACAA GCG	60.0	848	INTERGENIC	--	--	--
Ca3_P2_35152845	Ca3	35152845	A/AC	TCATTGAGCATGTAACG GGA	TGGAGGGGAAGGGT AATAG	60.1	746	INTERGENIC	--	--	--
Ca3_P2_35155451	Ca3	35155451	GTA/GTATA	CCCTTTTGTTCCTCAA CCA	TTGAGTCTTTGGACCA CCC	59.9	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35155696	Ca3	35155696	ATGTG/ATGTGTG	GGACAGCCGAAAGAA CAAT	TTTGGACCACCTGTC AAAT	60.2	127	INTERGENIC	--	--	--
Ca3_P2_35156142	Ca3	35156142	ATTTT/ATTTT	ATTTGACAGGGTGTG CAAA	AAAGTCTCTGGTTG GTCA	59.5	714	INTERGENIC	--	--	--
Ca3_P2_35157017	Ca3	35157017	TGG/TGGG	TTGCATTGCCTCTGTT CTG	AACGATGATTCAAGT CGG	60.2	718	INTERGENIC	--	--	--
Ca3_P2_35166785	Ca3	35166785	TAGAAAG/TAG	TGGCATGTGTTTGTG ATTT	AATGTGACCAACTTCT CGG	60.0	859	INTERGENIC	--	--	--
Ca3_P2_35172864	Ca3	35172864	TTGTCGAAATGT/TTGT	TCGTTTCTATTGCCTAT TGGAGA	TCATCTTTCGAATTAAG GTTTGC	59.6	886	DRR	Ca_00790	R	--
Ca3_P2_35174879	Ca3	35174879	CATATATATATATA/CATATATATATA TATATA	CCAGGAACATCAGGGT CTGT	CCATGAGTTCTTCCCTT CCA	60.0	203	INTRON	Ca_00790	R	--
Ca3_P2_35178313	Ca3	35178313	TTTGAATCATGTTGAATCA/TTTGAATCA	GATTTCGAAGAACC CCA	TCTACCTTTGAACCAGA TCCA	57.3	487	INTERGENIC	--	--	--
Ca3_P2_35178777	Ca3	35178777	ATTTTTTTTT/ATTTTTTTTT	TGAATCATGTTGAATCA GCCA	CGCTCCTAATCTCTTG GAACA	60.7	730	INTERGENIC	--	--	--
Ca3_P2_35180181	Ca3	35180181	AT/A	ATTTTCCAAATTGAAC CCC	GGATCAGCCGATGATT ATTTTT	59.3	607	INTERGENIC	--	--	--
Ca3_P2_35185977	Ca3	35185977	CTTTTTTTTT/CTTTTTTTTT	TTGGCAGGCTTACACA GTTG	TTTGCCTCTGAGCTTT GGT	60.0	373	DRR	Ca_00792	--	--
Ca3_P2_35187164	Ca3	35187164	GTCT/GTCTCT	GGGCACTAAACAAA GGCA	TCAATCTGTGTTGT GGA	59.9	588	DRR	Ca_00791	--	bZIP
Ca3_P2_35187474	Ca3	35187474	CAGA/CAGAGA	CCCCATTTCTCCTTTG ACA	TATAGTCCACCACCC TTGG	59.9	326	DRR	Ca_00791	--	bZIP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35191007	Ca3	35191007	TAAA/TAAAA	GGAGAATACTGGCCAT AGCG	AACAAAAATCTTAATGT GACGCAA	59.9	881	INTERGENIC	--	--	--
Ca3_P2_35192465	Ca3	35192465	AGG/AG	ATAAGGCCTCCACAA GAGG	AACCTTTTAGATCAGTC CGAACC	59.9	663	INTERGENIC	--	--	--
Ca3_P2_35195471	Ca3	35195471	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AAAA	TGTTTGGGAGGAGGAT CTTG	GGCTGCAATTCCTTCTT GAG	60.0	857	INTRON	Ca_00793	--	GATA
Ca3_P2_35204214	Ca3	35204214	AT/ATTT	GGGGTGCACAATACA ATTG	CAATTTGCATGAGTTGT CGG	60.1	741	INTERGENIC	--	--	--
Ca3_P2_35204680	Ca3	35204680	AT/ATCT	TGGCCAAATCACAAACC TATT	AATACCAATTTGGCGA GTGC	60.0	560	INTERGENIC	--	--	--
Ca3_P2_35208857	Ca3	35208857	GAAAAAAAAA/GAAAAAAAAA	CTCGCAAAAGCCGTAT AGC	ACAGGGTATCATGAGC GGAC	60.0	588	INTRON	Ca_00795	R	B3
Ca3_P2_35212793	Ca3	35212793	TAAA/TAA	TTTCCAAAACGCAACAA ACA	TTTTGCACGTGAATGAA GTTAAA	59.7	704	INTERGENIC	--	--	--
Ca3_P2_35213093	Ca3	35213093	CTTTT/CTTT	GCCATCACATTATGAC AAAA	TGATATTGCAAGAAACC CCA	59.0	758	INTERGENIC	--	--	--
Ca3_P2_35214818	Ca3	35214818	TCCAGCCCAGCCCA/TCCAGCCCAGCC CAGCCCA	AAAAGTGCGGTGCAAA AAGT	AACGCCTCCTCCTCTT CTTC	60.0	335	INTERGENIC	--	--	--
Ca3_P2_35215168	Ca3	35215168	TTTTTCCTTTCATTTTCCTTT/TTTTTC TTTCATTTTCCTTTCATTTTCCTTT	GCGAAGAAAAAGAGGT CGTG	GTAATCGACAGCCTGC AACA	59.9	316	INTRON	Ca_00796	C	--
Ca3_P2_35216734	Ca3	35216734	AA/AATA	AACGTCGTTGTTGGTTA GGC	ACAGCCAAATGTGGTG CATA	60.0	474	DRR	Ca_00796	C	--
Ca3_P2_35216771	Ca3	35216771	ATTTTTTTTTT/ATTTTTTTTTT	GATTTGACTACTCCGCT CGC	ACAGCCAAATGTGGTG CATA	60.0	168	DRR	Ca_00796	C	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35219260	Ca3	35219260	CTTTTTTTTTT/CTTTTTTTTTTTTTT	TGAGGCCATTTTAACG CAC	CCCAAGATTTCCCTAC CTTG	59.8	551	INTERGENIC	--	--	--
Ca3_P2_35220172	Ca3	35220172	AAAACA/AA	TCACTAGCGGAGATCG AACC	TTCTTCTTCCTTCCCA GCA	59.9	435	INTERGENIC	--	--	--
Ca3_P2_35224402	Ca3	35224402	TAA/TA	AACCTGCCAATGCAAA TTC	ATTCAATCCACATCCCT CCA	60.1	519	INTRON	Ca_00797	I	--
Ca3_P2_35226113	Ca3	35226113	TG/TGG	TTCTCGATGGACGATCA ATG	GACACAGCATGTCATC CCAC	60.0	504	INTRON	Ca_00797	I	--
Ca3_P2_35227900	Ca3	35227900	GTTA/GTTAGTTGCCTCCATGTTATTA	TTCAAATCTTCGGGCT TTG	TTACCATTGAGAGCAG CGTG	60.0	278	INTRON	Ca_00797	I	--
Ca3_P2_35230228	Ca3	35230228	CAA/CAAA	ACTCGCCTAAATTCTGC ACG	GAAACTCCACGCTGAA AAGC	60.0	502	INTERGENIC	--	--	--
Ca3_P2_35234401	Ca3	35234401	GAAAAA/GAAAAAA	CGTCGTTATCAAACGCT TCC	CACTCCCCGTGCAAT TATC	60.3	490	INTERGENIC	--	--	--
Ca3_P2_35239414	Ca3	35239414	ATGTGT/ATGT	TTCGAACCTACGGGAC ATTC	TGGTCCACTGGTCGTT ATGA	60.0	416	INTERGENIC	--	--	--
Ca3_P2_3524015	Ca3	3524015	AATATATATATAT/AATATATATATATA TATATAT	GTTTGCAGGAAGAGGC AAAG	GCCAGCAGCCTCAAG ATAG	60.1	712	DRR	Ca_21350	J	--
Ca3_P2_35241583	Ca3	35241583	TTTTATTTATTTATTT/TTTTATTTAT TTATT	ACCAAGTCACAATGGT GCAA	AACATTGTATGAGCG TCCC	59.8	658	INTRON	Ca_00801	--	--
Ca3_P2_35241980	Ca3	35241980	CTT/CTTAGTT	GGGACGCTCATACAAT GGTT	CGCACAGTGAAGTGCA AAGT	60.1	331	INTRON	Ca_00801	--	--
Ca3_P2_35246038	Ca3	35246038	GTTTT/GTTTTT	CATAACAATCCCTGTG CCA	ACGCTAAAGCGTTATG CACC	60.3	732	DRR	Ca_00802	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35247904	Ca3	35247904	CATATATAT/CATATAT	CACTATCTTTGGCGG TTGT	TTCTCTGACCGTGAA GTGG	58.9	382	INTERGENIC	--	--	--
Ca3_P2_35248313	Ca3	35248313	ATTTTTTTT/ATTTTTTT	ACCACTTTCACGGTCA GAGA	CTCCACCCAATTGCAT CTTT	59.9	859	INTERGENIC	--	--	--
Ca3_P2_35248340	Ca3	35248340	AATTATATT/AATT	ACCACTTTCACGGTCA GAGA	TACAATTGCACTCCAC CCA	60.0	870	INTERGENIC	--	--	--
Ca3_P2_35249900	Ca3	35249900	CAA/CAAA	TGGAACATGCATCTC TCG	GAAAAATTTGTGGAC CCGA	59.8	809	INTERGENIC	--	--	--
Ca3_P2_35250196	Ca3	35250196	TAAAAAAA/TAAAAA	AATCAAAAGCAACGACC AAAA	GAAATCTATTGGCCAC CGAA	59.9	636	INTERGENIC	--	--	--
Ca3_P2_35254278	Ca3	35254278	CAAAAA/CAAAAA	TGGAACGTTTGAATGT GAG	TCATGAGTGGCAATTC ACAG	58.2	779	INTERGENIC	--	--	--
Ca3_P2_35254794	Ca3	35254794	CTT/CTTT	TGCCACTCATGACTACC AAAA	GTACTCGCGCGGTAGG TAAG	59.9	356	INTERGENIC	--	--	--
Ca3_P2_35260978	Ca3	35260978	TACT/TACTGTAAGTCACT	ATGGGAACCAATTGT GGA	GCCTTGTTTGGGCT ATGT	60.0	537	DRR	Ca_00803	O	--
Ca3_P2_35261471	Ca3	35261471	AG/A	ACATAGCCCAACACAA GGC	GAACAGTTTACCCCC AAAA	59.8	584	DRR	Ca_00803	O	--
Ca3_P2_35261676	Ca3	35261676	TTG/T	ACATAGCCCAACACAA GGC	GAACAGTTTACCCCC AAAA	59.8	584	DRR	Ca_00803	O	--
Ca3_P2_35261808	Ca3	35261808	CGTCATAATGCATAATGT/CGTCATAA TGT	ACATAGCCCAACACAA GGC	GAACAGTTTACCCCC AAAA	59.8	584	DRR	Ca_00803	O	--
Ca3_P2_35262067	Ca3	35262067	TAAAAAAAAA/TAAAAAAAAA	TTTTGGGGGTGAACT GTTC	AGTGAACGGGTCAAAA ATCG	60.0	479	DRR	Ca_00803	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35263394	Ca3	35263394	AAAT/A	TTTCTTTCAATTTCC TTTCA	GCTCCCTAAAGTCC CAAC	59.9	498	INTERGENIC	--	--	--
Ca3_P2_35264243	Ca3	35264243	A/AG	ATGTCAACGCACCTCA TTT	TGAGTGAGTGTTCTAT GGTTTGC	59.3	402	INTERGENIC	--	--	--
Ca3_P2_35264670	Ca3	35264670	AATAACTTCTA/AATAACTTCTACTATAA CTTCTA	TCTCAATCCAGCATGC CTA	TGGGATATTTCTGACT CCAA	59.4	676	INTERGENIC	--	--	--
Ca3_P2_35265195	Ca3	35265195	TC/TCC	TTGGAGTCAGGAAATAT CCCA	GCAACGAGGATTGACC GTAT	60.0	820	INTERGENIC	--	--	--
Ca3_P2_35267022	Ca3	35267022	ATTCGAAGT/AT	ATTTTTACCTCCCACCC CCT	TGCAGAAACCTTCGGA ACTT	59.9	779	DRR	Ca_00804	--	--
Ca3_P2_35267134	Ca3	35267134	AC/A	CTTTTCTCACCACCACT TTCG	TGCAGAAACCTTCGGA ACTT	59.9	713	DRR	Ca_00804	--	--
Ca3_P2_35267597	Ca3	35267597	TAAAAAAAA/TAAAAAAAA	TCCGAAGGTTTCTGCAT TTC	GGCAGTGCTCAAATAT CGGT	60.1	391	DRR	Ca_00804	--	--
Ca3_P2_35270131	Ca3	35270131	ATTTTTTTT/ATTTTTTTT	TGCATGCTGTGAAGTG TGAA	TGTGACCAAAACCATG TACCA	59.7	343	INTERGENIC	--	--	--
Ca3_P2_35278837	Ca3	35278837	GAA/GAAA	TATCATGCGATCGTGG AAAA	TCCTTCACCAATATCC CGAG	60.1	647	DRR	Ca_00806	A	bZIP
Ca3_P2_35284220	Ca3	35284220	ACT/A	TCACGTTCAACGATTGG CTA	CCTCGCTGATGCTTGT TGTA	60.0	151	INTERGENIC	--	--	--
Ca3_P2_35285983	Ca3	35285983	G/GC	GAAGGGTTCATGTTG AGGA	GCTAACATGGTGAGGG AGGA	60.1	643	DRR	Ca_00807	--	--
Ca3_P2_35287641	Ca3	35287641	AC/A	GGATCAATCTGGGGC TAAT	TATGTTGGAAGGAGGG TTCG	59.9	686	DRR	Ca_00808	U	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35288170	Ca3	35288170	ATTTTTTTTTT/ATTTTTTTTTT	GTGGGGCTGATCCTT TACA	ACGCAAACGAAATGCC ATAC	60.9	592	DRR	Ca_00808	U	--
Ca3_P2_35291358	Ca3	35291358	GAAAAA/GAAAA	ATGCATGCAGATCAGA CGAC	TGCACAAATGGGTTCT GTGT	60.0	283	INTRON	Ca_00808	U	--
Ca3_P2_35293542	Ca3	35293542	CAAAAAAAAA/CAAAAAAAAAAAAA	GCTTCTTGCCTGTCA AGC	TTGACACTGCTGGTAG GCTG	60.0	325	INTRON	Ca_00808	U	--
Ca3_P2_35299387	Ca3	35299387	TAAA/TAAAA	CCTCTGGCATCGAAAG AAAG	ATTGAAGGCCCTCTAC AGCA	59.8	639	INTRON	Ca_00809	T	--
Ca3_P2_35300047	Ca3	35300047	CAAAAAA/CAAAAAA	AAAAGGAATGTTTGGC CTGA	GGCTGGCCTTCTGATG TTAG	59.8	773	INTRON	Ca_00809	T	--
Ca3_P2_35303218	Ca3	35303218	ATTTT/ATTTT	AATCCATGTCCAAATC CAA	CACCACCACCTCATTG TTTG	59.8	889	INTERGENIC	--	--	--
Ca3_P2_35303259	Ca3	35303259	AAAG/A	ACTAACCATTGCTGCC ATC	CACCACCACCTCATTG TTTG	59.8	821	INTERGENIC	--	--	--
Ca3_P2_35303338	Ca3	35303338	TAAAAAAAAA/TAAAAAAAAA	AGTAAGGAATTGGGA AGCC	CACCACCACCTCATTG TTTG	59.8	683	INTERGENIC	--	--	--
Ca3_P2_35304616	Ca3	35304616	AA/AATCTGTTA	AAATCAAATTGGAGGA GGG	AACCACCACATGTACG CATC	59.3	896	INTERGENIC	--	--	--
Ca3_P2_35305963	Ca3	35305963	A/AGTTTTGTAGGTAGTT	CCCCGCAAGAAACTA CTCA	ACTGGCGGTACGAATC AAAC	60.0	666	DRR	Ca_00810	A	--
Ca3_P2_35306134	Ca3	35306134	TAAA/TAAAA	TTACCCACCAGCATTGA ACC	TGTGCCACCTGGAATC ATAA	59.9	214	DRR	Ca_00810	A	--
Ca3_P2_35307396	Ca3	35307396	TAAA/TAA	CAATCATGCGATTGCA TTC	ATTTGGTTTTGCGATGA AGC	60.1	636	INTRON	Ca_00810	A	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35307472	Ca3	35307472	AA/ACATTATGAATA	CAATCATGCGATTGCA TTC	ATTTGGTTTTGCGATGA AGC	60.1	636	INTRON	Ca_00810	A	--
Ca3_P2_35307977	Ca3	35307977	AT/ATT	GCTTCATCGCAAACCA AAT	TATAATCGCAAAATGC CGC	60.9	212	INTRON	Ca_00810	A	--
Ca3_P2_35314687	Ca3	35314687	TAAAAA/TAAAAAAA	CACGTACACGCGTCAC ATAA	GCAATGGGACCCACTT AGAC	59.4	677	DRR	Ca_00811	--	--
Ca3_P2_35316586	Ca3	35316586	A/AT	CACGTGGTTGTTGAGG ATTG	AAATTAAAGGACCGCG AATG	59.1	633	INTRON	Ca_00811	--	--
Ca3_P2_35317314	Ca3	35317314	TATATAATATAATAT/TATATAATAT	TGACGTTGTTGGAGAT GAAAA	TGTCGGTCCACTCTCT ACCC	60.1	590	INTRON	Ca_00811	--	--
Ca3_P2_35320060	Ca3	35320060	TTA/TTACATA	AACCACCATGTGCACTT CAG	TGTCACAATTGGTGGA ACAAA	59.8	855	INTERGENIC	--	--	--
Ca3_P2_35320939	Ca3	35320939	ATTTTT/ATTTTTT	GAGCAAAATTCTGCATG CCT	TTTTCTCGTCCATGAA CTTT	58.7	171	INTERGENIC	--	--	--
Ca3_P2_35323484	Ca3	35323484	ATT/ATTT	TTGTTCAATTGCCACGT TGT	AAGAATCATAATTGAGC CCAAAA	59.0	305	INTERGENIC	--	--	--
Ca3_P2_35329050	Ca3	35329050	TTG/TTGGTG	CGCCAATGTTTTTCATG TTG	CATCCATCAACAGATG GCAC	59.9	600	INTRON	Ca_00812	Z	MYB_related
Ca3_P2_35329937	Ca3	35329937	TA/TAA	ATAATATGCGCCTGCTT GCT	TCCAAATCGGCTCGTA AAAC	60.1	473	INTRON	Ca_00812	Z	MYB_related
Ca3_P2_35333838	Ca3	35333838	CAAAAA/CAAAAAA	TGTGGATTTTCCTTGAT GCT	TTGCATTGAGCGATTCT TTG	60.0	693	DRR	Ca_00812	Z	MYB_related
Ca3_P2_35336928	Ca3	35336928	GT/GTT	TCTAAAACTCTCCGCC TTG	ACCGAACCTTTTGGGT TGTA	59.3	607	INTRON	Ca_00813	G	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35339243	Ca3	35339243	ATTTTTTTTT/ATTTTTTT	TTTTGGGCTTTGACTT TGG	GCGGTTGAAC TTGGA TTTA	59.9	539	INTRON	Ca_00813	G	--
Ca3_P2_35339486	Ca3	35339486	ATAAGTAAGTA/ATAAGTA	TAAATCCCAAGTTCAAC CGC	CCAGCAAATGATGGCT TGTA	59.7	434	INTRON	Ca_00813	G	--
Ca3_P2_35339957	Ca3	35339957	T/TTAACTCC	AGCCATCATTTGCTGGA TTT	GTAACGGCTAGCACCG GATA	60.1	261	INTRON	Ca_00813	G	--
Ca3_P2_35342556	Ca3	35342556	TAAAAAAA/TAAAAAAA	GCGGTTTCAACACAACT CTT	GTTATTTCCCACTCCA GCA	59.9	410	INTERGENIC	--	--	--
Ca3_P2_35347211	Ca3	35347211	T/TA	CGACGCTGTAATCGTT GAGA	TGTCGATTACCATCAC CCA	59.8	176	DRR	Ca_00814	QR	B3
Ca3_P2_35347629	Ca3	35347629	CTTTTTTT/CTTTTTTT	TGGGTGATGGTAAATC GACA	TCACTGGGTCATCAAA AATCA	59.0	449	DRR	Ca_00814	QR	B3
Ca3_P2_35349843	Ca3	35349843	AG/AGG	CCAAAAACAAGCAAGGG GTTA	TGGGAGCTTACTGGTC TCGT	59.9	237	DRR	Ca_00815	J	YABBY
Ca3_P2_35356175	Ca3	35356175	CTT/CTTT	CATCTTGAGTCGAGGT GCAA	TGGTGATTCTGTTGAG TGTC	59.7	808	INTRON	Ca_00816	R	--
Ca3_P2_35356389	Ca3	35356389	ATTTTTT/ATTTTTTT	CCCACTCACCTACCCAA AAA	ATCATGGAAATCAGC GGAG	60.0	692	INTRON	Ca_00816	R	--
Ca3_P2_35361036	Ca3	35361036	TAAAAAAA/TAAAAAAA	TCACGTTACCATGCCTA CCA	CCAAAATTCACACCC TTC	59.3	507	INTERGENIC	--	--	--
Ca3_P2_35361083	Ca3	35361083	TGG/TG	CTTCCCCTCTAAAGTT GGC	AACCAATTCGTTATTCC CCA	59.1	552	INTERGENIC	--	--	--
Ca3_P2_35361414	Ca3	35361414	AAATAATAATAATA/AAATAATAA AATAA	GGAAGAAGAAGCTACG CCAA	AGAACCAACCAACCA CTCG	60.0	696	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35362095	Ca3	35362095	ATATTATT/ATATTATTATT	CGAGTGGTTGGTTGG TTCT	TGCTTAATTTTCAACAA AAGTTGC	59.7	789	INTERGENIC	--	--	--
Ca3_P2_35365941	Ca3	35365941	ATTTTTTTTT/ATTTTTTTTTTT	AACAACGGGGTGTAC CTAC	TTGGTGGGTATCTTGT GAAGC	60.0	681	DRR	Ca_00817	--	--
Ca3_P2_35366034	Ca3	35366034	A/ATTTTTT	AACAACGGGGTGTAC CTAC	CATTGCATTTCAGTG AGAGA	60.0	713	DRR	Ca_00817	--	--
Ca3_P2_35368592	Ca3	35368592	TA/T	TCAACTCACCACCAATC CAA	GCCGATTCTGAATATG TGTAAGG	59.9	617	INTERGENIC	--	--	--
Ca3_P2_35368688	Ca3	35368688	AATATATATATATATATATATATA/A ATATATATATATATATATATA	TCAACTCACCACCAATC CAA	GAAGTGTGACATTGA CCTCCA	60.0	861	INTERGENIC	--	--	--
Ca3_P2_35370511	Ca3	35370511	CT/CTT	TTCTTCAAATTTGTTTA CTCCGA	CCAATCTTTGGCACT CGAT	60.1	829	INTERGENIC	--	--	--
Ca3_P2_35370619	Ca3	35370619	GAAAAAAAA/GAAAAAAAA	AAAATGTTTTACAGTCC CGTTG	CCAATCTTTGGCACT CGAT	60.1	388	INTERGENIC	--	--	--
Ca3_P2_35372617	Ca3	35372617	TAAA/TAAAA	GGTGTGGGCAAAGTTC AGTT	GCGCGGTTTGGTTAAA AATA	60.0	683	INTERGENIC	--	--	--
Ca3_P2_35372925	Ca3	35372925	CAAAAAAAAA/CAAAAAAAAA	AACATCCTGTCTCCAA CGG	GAAACGATAACCCGT AGCA	60.0	424	INTERGENIC	--	--	--
Ca3_P2_35373136	Ca3	35373136	ATTTTGTTTTTGTTTTTGTTTTT/ATTT TGTTTTTGTTTTT	TGCTACCGGGTTATCG TTTC	CCATGATGCCAAATG AAGA	59.5	480	INTRON	Ca_00818	--	NAC
Ca3_P2_35376259	Ca3	35376259	CTTT/CTTTT	GGTCTGCATTAGCCTT TGC	GGGTTCCACTTGAGGA GTGA	60.1	598	DRR	Ca_00818	--	NAC
Ca3_P2_35379481	Ca3	35379481	TAAG/TAAGAGGACTACAAG	CGACTCAATCTCCGTCT GCT	TTACTTTGTGCAGCCTC GTG	60.1	795	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35382356	Ca3	35382356	AATCATCA/AATCATCATCA	GAGCTTTTGAACTG CTGG	GGACAAAGTTTGAGGT GGGA	59.9	353	DRR	Ca_00819	O	--
Ca3_P2_35390580	Ca3	35390580	CG/C	TAGATCGGACGGTCGA AATC	CACGCACCTAGAACTT GCAG	59.7	704	INTRON	Ca_00819	O	--
Ca3_P2_35393263	Ca3	35393263	CTTTT/CTTTTTT	AAGGAGATGCATGCC TATG	CACCATCCCATATTG GACC	59.9	715	INTRON	Ca_00820	--	--
Ca3_P2_35393421	Ca3	35393421	CAA/CA	AAGGAGATGCATGCC TATG	CACCATCCCATATTG GACC	59.9	715	INTRON	Ca_00820	--	--
Ca3_P2_35395949	Ca3	35395949	AG/A	AAGTGCACCACTCCA AACT	TGAAGACATGCAAATG TTTACCA	60.4	575	DRR	Ca_00820	--	--
Ca3_P2_35396014	Ca3	35396014	CAAAA/CAAAA	AAGTGCACCACTCCA AACT	ATCTGTGTCGACCGAA AAGG	60.1	721	DRR	Ca_00820	--	--
Ca3_P2_35396573	Ca3	35396573	CTT/CTGATTTCTTGTT	CCTTTTCGGTCGACACA GAT	TGAGATTGAGCACCTT CGTG	60.0	273	DRR	Ca_00820	--	--
Ca3_P2_35397271	Ca3	35397271	TGTC/T	GATTCTCTTCACCGCTG CTC	ACAAACCGTTATTTTCC GCA	60.4	663	INTRON	Ca_00821	KA	--
Ca3_P2_35397297	Ca3	35397297	ATTAATTATTGTTAATTATTGTTA/ATTA ATTATTGTTA	CGACTTCAACATCGAAA CCA	ACAAACCGTTATTTTCC GCA	60.4	630	INTRON	Ca_00821	KA	--
Ca3_P2_35399079	Ca3	35399079	TA/T	ACTGCTTCAACATTCC CAC	AACAGCTTCGCAACGA AAGT	60.1	374	INTRON	Ca_00821	KA	--
Ca3_P2_35399243	Ca3	35399243	C/CCGTCTCATTC	ACTGCTTCAACATTCC CAC	TAAGCATCCCACAGAA AGGG	60.1	793	INTRON	Ca_00821	KA	--
Ca3_P2_35399432	Ca3	35399432	ACC/AC	ACTTTCGTTGCGAAGCT GTT	TCCCACAGAAAGGTT CAAG	60.1	433	INTRON	Ca_00821	KA	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35403982	Ca3	35403982	ATCT/AT	TTCGCCTGCTCTCTTT TGT	TTGGTCAAATCATTCAA TCAGA	58.1	730	INTERGENIC	--	--	--
Ca3_P2_35405211	Ca3	35405211	AATATATATA/AATATATA	TGGGTATGTGAATGGA AAACA	TGCTGGTGATTGCT TTTT	58.4	670	INTERGENIC	--	--	--
Ca3_P2_35405768	Ca3	35405768	AAAAAGCAAAA/AAAAAGCAAAAGCAAA A	AAAAAGCGAATCACCAG ACA	CCACAGACGGCGAAAA TAAT	60.0	172	DRR	Ca_00823	--	--
Ca3_P2_35407498	Ca3	35407498	GT/G	ATTTTGAGTGCTGGG CACC	AATGGGAGGGATAGTT TGGG	60.0	544	DRR	Ca_00823	--	--
Ca3_P2_35409813	Ca3	35409813	GTTTTTTTTT/GTTTTTTTTT	TTTAGTCTGTGCGCATC TGG	TGCATCTTCTATGGTCC CAA	59.1	666	INTERGENIC	--	--	--
Ca3_P2_35410009	Ca3	35410009	CAAAAAAAAA/CAAAAAAAAA	CCCTTCATCGTTGAATA GGTTG	TGCATCTTCTATGGTCC CAA	59.1	561	INTERGENIC	--	--	--
Ca3_P2_35410044	Ca3	35410044	ATTTTTTT/ATTTTTTTTT	TTGTGACCGAATAGATG AGTAGTTG	TTTATTGCATCTTCTAT GGTCCC	59.4	445	INTERGENIC	--	--	--
Ca3_P2_35410157	Ca3	35410157	GTTTTTTTTT/GTTTTTTTTT	TGGGACCATAGAAGAT GCAA	ACTCGATTGGCACCA TTTT	59.4	602	INTERGENIC	--	--	--
Ca3_P2_35413716	Ca3	35413716	TGG/TG	CCAGCTTCCCATTGT CAT	GTTTTGCCGACCAAC TTTA	60.0	704	INTRON	Ca_00824	S	--
Ca3_P2_35421003	Ca3	35421003	GCACA/GCA	ATTGAGAGATTCCAGC CCCT	ACCTTTCGGGTGCATA AGTG	60.0	509	INTRON	Ca_00824	S	--
Ca3_P2_35423816	Ca3	35423816	ATCTT/ATCTTCTT	AAGAAATGCCAACGGT CTG	CATAAAATTCGACGCG GATAA	59.9	528	INTERGENIC	--	--	--
Ca3_P2_35425621	Ca3	35425621	GTTTTTTT/GTTTTTTTTT	GTCGCCCTGTGTGAG TTAT	TTCGCAATGTTGCAGT AGC	60.0	508	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35434798	Ca3	35434798	TATAAATAAATAAATAA/TATAAATAAATAAATAA	CAGCCTTAGCACCTG AAAG	AGGCTGATGATCCGAA TGAG	60.2	475	INTRON	Ca_00826	--	B3
Ca3_P2_35435217	Ca3	35435217	GACA/GACACA	TGCAATGCCATACCT TCA	TATCCTGCGCATCCTTA TCC	60.0	747	INTRON	Ca_00826	--	B3
Ca3_P2_35436004	Ca3	35436004	ATTTTTTTTT/ATTTTTTTTT	GAAATAACGTTCCGCG TGTT	CATCATTGCCAAGTGC AAGT	59.7	454	INTERGENIC	--	--	--
Ca3_P2_35437574	Ca3	35437574	TT/TTCT	TTTCAATTCAACCTGGC CTC	CCACTGTTGTGGCAA AATG	60.0	475	INTERGENIC	--	--	--
Ca3_P2_35438606	Ca3	35438606	GAAAAAA/GAAAAAA	TTCGTTGAGACACCTT TCC	TGTGTGTGTCATGTTTA TGATTTTG	59.7	545	INTERGENIC	--	--	--
Ca3_P2_35439933	Ca3	35439933	TC/TCC	CATGAGCATGACTTTTT AGATGG	TTTATGGATATGCTGCA CAGTT	57.4	564	INTERGENIC	--	--	--
Ca3_P2_35440050	Ca3	35440050	ATTT/ATT	CATGAGCATGACTTTTT AGATGG	CAAGGGCGGGTCTAGT ATGT	59.1	952	INTERGENIC	--	--	--
Ca3_P2_35440193	Ca3	35440193	T/TCA	AACTGTGCAGCATATCC ATAAA	CAAGGGCGGGTCTAGT ATGT	59.1	410	INTERGENIC	--	--	--
Ca3_P2_35441304	Ca3	35441304	ATTTTTTTTT/ATTTTTTTTT	CCCAATAAAACTTGT CCCAA	TCAAACATGAAAACT CAAGC	59.2	570	INTERGENIC	--	--	--
Ca3_P2_35447848	Ca3	35447848	TAA/TAAAA	AAAGACTGCACCTTGT GCT	TGGAGTGGTGGAGGT AAAG	60.0	517	INTRON	Ca_00827	OR	--
Ca3_P2_35449751	Ca3	35449751	CTATATATATATATATATAT/CTATATATATATATAT	TGAGGTGCACGTGAAA ACAT	CATCTGCTCCAATCCT CCAT	60.0	400	INTRON	Ca_00827	OR	--
Ca3_P2_35450073	Ca3	35450073	GAAAAAA/GAAAAAA	ATGGAGGATTGGAGCA GATG	GGCATCATGCAAAATG ATTG	59.9	248	INTRON	Ca_00827	OR	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35456526	Ca3	35456526	CATATATATAT/CATATATAT	TGCGGTCGTATGAAGT AGCA	TCAAAAGTCCTTGAAAG AACAAACA	60.2	820	INTERGENIC	--	--	--
Ca3_P2_35458777	Ca3	35458777	TAA/TA	TGCGGCTTTTACGAGT TTC	ATGAAGAAAGGGAAAG CGGT	60.1	747	INTERGENIC	--	--	--
Ca3_P2_35468557	Ca3	35468557	TG/T	CGAACCATGCTTTGGA GATT	GCAGATGGTCCTTTT CAGC	59.8	472	INTERGENIC	--	--	--
Ca3_P2_35469378	Ca3	35469378	TC/TCC	CATGACCCCTCACTCCA CCT	GCACAAGAAGCTGGG AAGC	60.0	577	INTERGENIC	--	--	--
Ca3_P2_35470778	Ca3	35470778	ATTTTTTTT/ATTTTTTTT	CGTTGAACCCCTAGTCC CAAA	ACGTAGCTTGTGGCGA GATT	59.9	736	INTERGENIC	--	--	--
Ca3_P2_35484198	Ca3	35484198	CA/CAGTTAA	TTTATGCAGATGTGCCG TGT	TCTAGCAGTGGAGGTT GGCT	60.0	608	INTRON	Ca_00831	R	--
Ca3_P2_35488328	Ca3	35488328	GAAA/GAA	CTCGCTGGAATTGCTA ACC	AGGACGTTGCTGCAAG ATT	59.9	502	INTRON	Ca_00832	S	--
Ca3_P2_35492143	Ca3	35492143	GAAAAAAAAA/GAAAAAAAAA	CCTTGCCTCTTGAGTA ACC	TTTTCAATTGCCAAATGG TGA	59.9	189	INTRON	Ca_00832	S	--
Ca3_P2_35494118	Ca3	35494118	TTATATATATATATATATATATA/TT ATATATATATATATATATA	GTCTCGGCCCAAAAGT AACA	TGCCAAATTTACCCCT TTG	59.8	720	INTERGENIC	--	--	--
Ca3_P2_35495999	Ca3	35495999	GAAA/GAAAA	TGGGTTTTGTTGAAGA TTTTG	TGAGAGTTGTGGAGGA GAGGA	60.0	447	INTERGENIC	--	--	--
Ca3_P2_35496087	Ca3	35496087	AAAAGA/AA	TGGGTTTTGTTGAAGA TTTTG	TGAGAGTTGTGGAGGA GAGGA	60.0	447	INTERGENIC	--	--	--
Ca3_P2_35498417	Ca3	35498417	ATTATATATTTTA/ATTATATATTTTAT CACTTCATATATTTTA	GCTGTCTTGACTTTGAC GGA	TCGGTGCCATCATAAG TGTC	59.5	604	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35505847	Ca3	35505847	TAAA/TAAA	CGTCCTCCAATAA CCA	TGTTTGAGGGAAA AAGG	59.9	334	INTERGENIC	--	--	--
Ca3_P2_35508699	Ca3	35508699	TAAA/TAAA	GTGCGCTCCATTT CAT	CGTCGCATGAGTG GAGTCTA	60.0	549	DRR	Ca_00833	--	--
Ca3_P2_35515650	Ca3	35515650	AGTGTG/AGTG	ATGACATATAAGAG CCG	GCGCCGATTTCAGA ATCTAC	59.8	337	INTERGENIC	--	--	--
Ca3_P2_35527763	Ca3	35527763	ATTTT/ATTTT	TGCCAATCACATGCA AAAT	ATTGGATGAACGAT GACAG	59.4	324	INTERGENIC	--	--	--
Ca3_P2_35528890	Ca3	35528890	ATTAT/ATTATTTTAT	AACGTCGACCAGCCT CACT	ATCCACACAAAAC TCG	60.4	422	INTERGENIC	--	--	--
Ca3_P2_35532266	Ca3	35532266	GTT/GT	TTCGAGATGTCAGAT CCC	CCAGTTTGCTTCTCT GACC	59.8	348	DRR	Ca_00835	--	--
Ca3_P2_35532624	Ca3	35532624	TG/T	CACATAATGTTGGCG TGTC	ACCGTATGTGGACT CTCGCT	59.8	797	INTERGENIC	--	--	--
Ca3_P2_35536371	Ca3	35536371	TAAAT/TAAATATCTAAATCAAAT	GCCCTTTGTGTTTT GAG	TGCAAACTCTCATT CGCATC	60.0	568	INTERGENIC	--	--	--
Ca3_P2_35539553	Ca3	35539553	AAA/AAAGAA	TTAATGGAATAATGG GCT	AGCCAACGATACAC CTTCGT	59.6	859	INTERGENIC	--	--	--
Ca3_P2_35540047	Ca3	35540047	TATATATA/T	ACGAAGGTGTATCG TGCT	TTGCGATTGAAGCA TTGAAG	60.0	340	INTERGENIC	--	--	--
Ca3_P2_35553013	Ca3	35553013	CAAAAA/CAAAAA	GCCACTGTTCCATAC CATT	GCCATGTCTCTCACT ACGA	60.0	399	INTRON	Ca_00837	--	--
Ca3_P2_35558006	Ca3	35558006	TAA/TA	ATCCCGCGTAATTC CTCT	ATCCCCTAACATTCC GACC	60.0	403	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35560442	Ca3	35560442	GAAAAAAAAA/GAAAAAAAAA	TCTGAGAGCCTGGACC AGAT	CTGCTTGGGCTTACCT TCAG	60.0	709	DRR	Ca_00839	--	--
Ca3_P2_35562376	Ca3	35562376	ATG/AATCTATTGTG	TTTTCTTCCAGACCCG GTT	CAGCTATATTACCTCAT ATCCACCAA	59.7	494	INTERGENIC	--	--	--
Ca3_P2_35562625	Ca3	35562625	TAAAAAA/TAAAAAA	TGATCTATTTGGTGGAT ATGAGG	CAACATTCATTGCGAC TATTCA	60.0	566	INTERGENIC	--	--	--
Ca3_P2_35562721	Ca3	35562721	A/AT	TGATCTATTTGGTGGAT ATGAGG	TGCAATAGGTAAAGCC ACCT	57.4	795	INTERGENIC	--	--	--
Ca3_P2_35564542	Ca3	35564542	CTTTTTT/CTTTTTT	ACCATGCATACGACA CTGA	GGCTTCAAAATTGGGT GCTA	60.1	336	INTRON	Ca_00840	O	--
Ca3_P2_35566663	Ca3	35566663	GAA/GAAA	CCAGACCCCAAACTTA GCAA	ATGCCAGTGCTATAT TCCG	59.9	550	DRR	Ca_00840	O	--
Ca3_P2_35568618	Ca3	35568618	AACGTACGT/AACGT	TGTGGCATGCAATGCG TTAT	TCCTGTGTTGTTGTGT CCGT	60.0	572	DRR	Ca_00841	--	--
Ca3_P2_35574829	Ca3	35574829	AG/A	TTCAAGATTGAAATGCG TTTGTG	AATCGCATCGGCTAAA CAAT	59.6	412	INTERGENIC	--	--	--
Ca3_P2_35575076	Ca3	35575076	G/GAGTA	TTCAAGATTGAAATGCG TTTGTG	AATCGCATCGGCTAAA CAAT	59.6	412	INTERGENIC	--	--	--
Ca3_P2_35575589	Ca3	35575589	ATA/ATAAAATTTA	ATTGTTTAGCCGATGCG ATT	TGGGTTTAGCAACCAC CTTC	60.0	729	INTERGENIC	--	--	--
Ca3_P2_35584142	Ca3	35584142	A/AGC	TATCACGTGGTGAATTG GCA	AGGGGAAAATGAAAGG GATG	60.1	761	INTERGENIC	--	--	--
Ca3_P2_35584493	Ca3	35584493	CTTT/CTT	CATCCCTTTCATTTTCC CCT	TTGTGTTTGGGCAATG TGTT	59.9	136	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35591231	Ca3	35591231	TAAA/T	CACACCTTTGAAGATG GGTCT	TGCTCCGGATAGATG ACATTG	60.0	287	DRR	Ca_00843	--	bZIP
Ca3_P2_35593827	Ca3	35593827	GTT/GT	ACGTTGGGACGGACTA TGAG	ACGCGCTTTTCACTTG TTT	59.9	391	INTERGENIC	--	--	--
Ca3_P2_35596803	Ca3	35596803	ATTTTTTTT/ATTTTTTTTT	GTCAACGCAAGCGAAA ACTA	CGAAAAATCATCCGGA GAAA	60.0	524	DRR	Ca_00844	--	bZIP
Ca3_P2_35600296	Ca3	35600296	TTG/T	GGCCTTAAATCTGAAA CCCA	CAGCTCTAGCAATGCG ACTG	59.9	861	DRR	Ca_00845	--	--
Ca3_P2_35600374	Ca3	35600374	TAAAAAAA/TAAAAA	GGCCTTAAATCTGAAA CCCA	CAGCTCTAGCAATGCG ACTG	59.9	861	DRR	Ca_00845	--	--
Ca3_P2_35600454	Ca3	35600454	TAA/TAAA	AATTCACAGTCCCGTC ACA	CAATGCGACTGGGTTT ACCT	60.0	334	DRR	Ca_00845	--	--
Ca3_P2_35602083	Ca3	35602083	CATGTTTAT/CAT	GGGTGCGTTAGTGCA TTTT	GCCATGCTTAAACGA GAGG	59.8	940	INTERGENIC	--	--	--
Ca3_P2_35602156	Ca3	35602156	A/ACTATCAAATT	TCCTCTTCGTTAATGGC TGC	CGCGTAGATCCACAA AATC	60.5	750	INTERGENIC	--	--	--
Ca3_P2_35602730	Ca3	35602730	G/GA	CCTCTTCGTTAAGCAT GGC	TGGGCCTAGTTTTGT GACC	60.0	653	INTERGENIC	--	--	--
Ca3_P2_35605337	Ca3	35605337	TC/TCC	CAAAGTGGCATCCATC CAT	CAATTGGATGGCCCTT AGAA	59.9	232	DRR	Ca_00846	--	--
Ca3_P2_35605669	Ca3	35605669	GAAA/GAAACAAAA	TGCTAGAAAGGACCAC CACC	TATGCTCGCGTGCAAT TTTA	60.4	307	DRR	Ca_00846	--	--
Ca3_P2_35605855	Ca3	35605855	CATATATATA/CATATATATATATATA TATATA	TGCTAGAAAGGACCAC CACC	TGAATCATCTCCCTTT TGG	59.9	661	DRR	Ca_00846	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35614019	Ca3	35614019	ATTTTTTTTT/ATTTTTTTTT	TGATCAAGATTTGAATT TTTGTTTC	ATCCCCGTGTGTTGT GTTT	60.1	256	INTERGENIC	--	--	--
Ca3_P2_35615874	Ca3	35615874	AG/A	TTGCACTGACCATT CTTAAA	CACTACGGATGCTCCA AACA	59.7	323	DRR	Ca_00847	--	--
Ca3_P2_35615927	Ca3	35615927	TAAAAAAA/TAAAAAAA	TCATGCATCCCTACAAA TTCA	CACTACGGATGCTCCA AACA	59.7	140	DRR	Ca_00847	--	--
Ca3_P2_35618022	Ca3	35618022	GTTTTTTTT/GTTTTTTTT	TGCGTACCTTAATCAGG AACAA	TTTACGCGGGCGTATT TTAC	60.0	882	INTERGENIC	--	--	--
Ca3_P2_35618119	Ca3	35618119	T/T	TGTGAACGAACAAAG CTTAAA	TTTACGCGGGCGTATT TTAC	60.0	555	INTERGENIC	--	--	--
Ca3_P2_35621774	Ca3	35621774	TAAAAAAA/TAAAAAAA	TGTCGATTAAGAAACAT GCGA	ATACTGGGGTAATCC CGTC	59.9	591	DRR	Ca_00848	--	--
Ca3_P2_35624827	Ca3	35624827	CTTTTTT/CTTTTTTT	CCTTGCGTAACAATTCA CCA	TTGGGACAAAGAATGC ATGA	60.0	248	DRR	Ca_00849	--	--
Ca3_P2_35625961	Ca3	35625961	GTTTTTTTT/GTTTTTTTTT	AGGGGGAAGGAGAAAA GACA	CCCAACGATCCTAGCT TCAA	60.2	230	DRR	Ca_00850	--	--
Ca3_P2_35625993	Ca3	35625993	TGAA/TGAAGAA	AGGGGGAAGGAGAAAA GACA	CCCAACGATCCTAGCT TCAA	60.2	230	DRR	Ca_00850	--	--
Ca3_P2_35626462	Ca3	35626462	TCTAC/TC	TGCAGTGGAAATGGAT TTGA	GCGGTGATTCAGATTC AAAAG	59.7	513	DRR	Ca_00850	--	--
Ca3_P2_35626631	Ca3	35626631	ATTTTTT/ATTTTTTT	TTGAATCTGAATCACCG CTTT	CCAAAAGGAGTATGGA TCAGTAA	57.3	459	DRR	Ca_00850	--	--
Ca3_P2_35626825	Ca3	35626825	CTTTTTTT/CTTTTTTT	TTGAATCTGAATCACCG CTTT	TGTTGTGTCGGAGTT TTCAG	58.8	707	DRR	Ca_00850	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35631172	Ca3	35631172	TAAA/TAAAA	CACCCCTAAAATCCCTT TCT	CTGCAGCAATATCAAA GGTCA	58.9	642	DRR	Ca_00851	--	--
Ca3_P2_35631361	Ca3	35631361	ATAAATTT/AT	CACCCCTAAAATCCCTT TCT	CCAGCTGCAGCAATAT CAAA	60.0	646	DRR	Ca_00851	--	--
Ca3_P2_35631433	Ca3	35631433	TAAAA/TAAAA	CACCCCTAAAATCCCTT TCT	CCAGCTGCAGCAATAT CAAA	60.0	646	DRR	Ca_00851	--	--
Ca3_P2_35632027	Ca3	35632027	ATTTTT/ATTTTTT	TACACCTCCATTTTGCA CGA	TTCCACTCACCTATTT GGC	59.9	624	DRR	Ca_00851	--	--
Ca3_P2_35633984	Ca3	35633984	AATATATATATATA/AATATATATAT ATATATATATATA	TCACGAGGAAGTATGG GGAG	GCAATGAATGGTGAT TTTT	58.5	864	INTERGENIC	--	--	--
Ca3_P2_35635776	Ca3	35635776	CTTTT/CTTT	GTAATTTTGGCGCTGG TGTT	GCGAATGCATAGAGCC TACC	59.8	635	INTERGENIC	--	--	--
Ca3_P2_35643455	Ca3	35643455	T/TA	TGTGTTTCGTCGGCTG ATTA	GCACCTGGAACCTCAGG AAAC	59.7	518	INTRON	Ca_00852	S	--
Ca3_P2_35644013	Ca3	35644013	ATACCT/ATACCTACCT	GTTTCCTGAGTCCAG GTGC	TGGTTCGCTGTTTGT CTC	59.9	249	CDS (FRAME SHIFT)	Ca_00852	S	--
Ca3_P2_35644626	Ca3	35644626	TTCTC/TTCTCTCTC	CTCCCAAGAGTGAGAG CACC	CAGTTGAGGTACCAC CGTT	59.9	269	INTRON	Ca_00852	S	--
Ca3_P2_35649725	Ca3	35649725	A/ACTC	TGAAAGAAAAATGGTAT GGCA	GACTGGACACCATACA GGGG	60.2	526	INTERGENIC	--	--	--
Ca3_P2_35651872	Ca3	35651872	ATTT/AT	ATTCTTCTCCCGCTCAC TCA	AGACTGGTGGTATGGG CAAA	60.4	532	INTRON	Ca_00853	--	--
Ca3_P2_35652779	Ca3	35652779	GTT/GTTTT	AAGTGTGGTGGTGG TGGT	CCACTGTCCAGTCTCT GCAA	60.0	499	INTRON	Ca_00853	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_35655203	Ca3	35655203	ATTTTGTGTTGTTTTG/ATTTTG	GGTCGTTCTTCAGGAAT GGA	TGAATCATCCAAGTGC CAAA	60.0	717	DRR	Ca_00853	--	--
Ca3_P2_35656833	Ca3	35656833	TAAAAAAA/TAAAAAAA	TCGAGCCATTTTCTTC TTCA	TTCCATGTGTTGTGCC AAGT	60.0	970	DRR	Ca_00854	--	WRKY
Ca3_P2_35662531	Ca3	35662531	GGTCCT/G	TTCGATTATAAATGGGA CCACA	CGTGTCTAGAACACAC ACGGA	59.8	399	INTERGENIC	--	--	--
Ca3_P2_35664034	Ca3	35664034	ATTTT/ATT	GCATTTGGCCACATTC TTT	TGTAACACGTCGACCA ATCAA	60.0	711	INTERGENIC	--	--	--
Ca3_P2_35678085	Ca3	35678085	TTCT/TT	TTGAGCACGACAGAAT CACC	ACAATGGCCCAACTCT GTTC	60.0	441	DRR	Ca_00855	--	--
Ca3_P2_35678189	Ca3	35678189	GTT/GT	GAAACAGAGTTGGCCA TTGT	ACATGCCATAACAACCT GCA	60.1	191	DRR	Ca_00855	--	--
Ca3_P2_35679181	Ca3	35679181	ATTTT/TTT/ATTTT/TTT	TTCATTCTTTGGCTTGG GAC	CGTCATGGCTGTGGCT TTAT	60.9	959	DRR	Ca_00856	R	SBP
Ca3_P2_35679729	Ca3	35679729	TTCTCTCTCTCT/TTCTCTCTCT	GCCACGACCATGACGT ACTA	GCCAAATGGGGTTTT CCTT	60.0	252	DRR	Ca_00856	R	SBP
Ca3_P2_35683554	Ca3	35683554	TTAAT/TT	TGAAGACAAGGATCCC AAGG	CTGGAATGTGGGCAGT TCTT	60.1	555	INTRON	Ca_00856	R	SBP
Ca3_P2_35685531	Ca3	35685531	ATTTT/TTT/ATTTT/TTT/TTT	GAAATAGGCAGAGACA GGTTCAA	CCTCTGCTCTATGCATT GCC	60.9	985	INTERGENIC	--	--	--
Ca3_P2_35685757	Ca3	35685757	TAA/TA	TGCAAAATCGATCTCTC CTTC	GGCCCCATAGTTTTTC CAAT	60.0	580	INTERGENIC	--	--	--
Ca3_P2_35685874	Ca3	35685874	AA/AATA	TGCAAAATCGATCTCTC CTTC	GGCCCCATAGTTTTTC CAAT	60.0	580	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35686882	Ca3	35686882	AATATATATATATATA/AATATATATATA	GCATCAGCATTTCCGA TCT	CACTCGATAGTGGCTG CTGA	60.2	393	INTERGENIC	--	--	--
Ca3_P2_35692305	Ca3	35692305	C/CAAA	CCTCGTGACCCGACAC TTAT	CACTCTATTTGGGCCG TGTT	60.0	816	DRR	Ca_00858	R	ZF-HD
Ca3_P2_35694757	Ca3	35694757	TAAAAAAAA/TAAAAAAAAA	CATTAAAGGCGGAAC AAAA	TGTGCCAATTAGGGAT TAAACT	57.7	164	INTERGENIC	--	--	--
Ca3_P2_35697688	Ca3	35697688	TAAAAA/TAAAAA	TTTCATATCCACCCGTC AAA	TGAATTTGCCTAATTG GTCC	58.9	628	INTERGENIC	--	--	--
Ca3_P2_35699071	Ca3	35699071	CTGTAATGTAAT/CTGTAAT	ACGAATCTCTCAACCAT CGG	TGAGGCTCTCTTTGTG ACTTTG	59.7	711	INTERGENIC	--	--	--
Ca3_P2_35699306	Ca3	35699306	TAAAA/TAAAAA	GCTTCCTGGTAGGACA AACAA	TGAGGCTCTCTTTGTG ACTTTG	59.7	455	INTERGENIC	--	--	--
Ca3_P2_35703336	Ca3	35703336	CAAAAA/CAAAAAA	CGGATATGCGGACAAA AACT	TTAGCTTTGGGGTTTG ATGG	59.9	600	INTERGENIC	--	--	--
Ca3_P2_35703384	Ca3	35703384	A/ATATATAT	CGGATATGCGGACAAA AACT	TTAGCTTTGGGGTTTG ATGG	59.9	600	INTERGENIC	--	--	--
Ca3_P2_35703988	Ca3	35703988	CA/CATAATAA	CCATCAAAACCCAAAGC TAA	CACTGTTCTTTCACAA CTCTCG	59.1	942	INTERGENIC	--	--	--
Ca3_P2_35706702	Ca3	35706702	AAAATTAAATT/AAAATT	TCGGCCACTATTCTCTC CAC	CGTTGTGCCTAAATTG GGAT	59.8	985	INTERGENIC	--	--	--
Ca3_P2_35708125	Ca3	35708125	CTATATAGTATATA/CTATATA	ATTTGGGAGCTAGCAA AGCA	CATATCCAACCTCAAAGT CGCAA	60.1	593	INTERGENIC	--	--	--
Ca3_P2_35709940	Ca3	35709940	AT/ATCGT	TGTGTGATGTGATGTGT GCC	CCCTCTCCACTGTTGC TCTC	60.0	524	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/Pil)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35711338	Ca3	35711338	AT/A	AAACCACGTCCTAA TCC	TGCGGTTTGATTCCAT TTT	60.3	388	INTERGENIC	--	--	--
Ca3_P2_35712326	Ca3	35712326	AATATATATATA/AATATATATATATA	TCGAAATTACACCGCA ACA	TGGCAAATGAGGGAC AAAT	60.3	519	INTERGENIC	--	--	--
Ca3_P2_35725765	Ca3	35725765	A/AT	TGACACGATTAATATCG CTTTGA	GCACCCCTCCTTTAGA GTCC	60.1	647	INTERGENIC	--	--	--
Ca3_P2_35725827	Ca3	35725827	TAAAAA/TAAAAAA	AAATCATAAGAACAGG AGGATCG	GCACCCCTCCTTTAGA GTCC	60.1	549	INTERGENIC	--	--	--
Ca3_P2_35725900	Ca3	35725900	CTAAA/CTAAAAGTAA	TGTGTGTGTCTACCAAA ATACTCG	TTTCCACACTCTAATCG GGG	59.9	743	INTERGENIC	--	--	--
Ca3_P2_35726187	Ca3	35726187	TG/T	GGACTCTAAAGGAGGG GTGC	TTTCCACACTCTAATCG GGG	59.9	326	INTERGENIC	--	--	--
Ca3_P2_35726503	Ca3	35726503	A/AC	CCCCGATTAGAGTGTG GAAA	GCACTTTCACATGGTG TGGT	59.4	410	INTERGENIC	--	--	--
Ca3_P2_35726533	Ca3	35726533	TTATATA/TTATATATATA	CCCCGATTAGAGTGTG GAAA	GCACTTTCACATGGTG TGGT	59.4	410	INTERGENIC	--	--	--
Ca3_P2_35726898	Ca3	35726898	CAAAAAAAAA/CAAAAAAAAAA	CAACCACACCATGTGAA AGTG	ACGCATACGGCATTTTT CTC	60.1	803	INTERGENIC	--	--	--
Ca3_P2_35730551	Ca3	35730551	CATT/CATTAATT	TTAAAAGGCCATGGGC ATAA	TGGTGGTGCTGGACAA TTAG	59.6	125	INTERGENIC	--	--	--
Ca3_P2_35733605	Ca3	35733605	CTTT/CTT	TCTCCCTTTCTTTCA TTT	AAAAACGTTAATTTGAG ACAGCAA	59.3	360	INTERGENIC	--	--	--
Ca3_P2_35733690	Ca3	35733690	AATTTTATTTT/AATTTT	TCTCCCTTTCTTTCA TTT	TGGGGAATTCATACTTA TCCAAA	59.6	767	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35734649	Ca3	35734649	A/AAT	CTGCGTGCATCATTG ATTC	TGTTCAATCCAAATTGA AAATG	59.7	860	INTERGENIC	--	--	--
Ca3_P2_35740511	Ca3	35740511	TCC/TC	GTCGTGAATTTCCCTT TCA	TGCCGCATTGATTCATT TTA	60.0	547	DRR	Ca_00861	--	CPP
Ca3_P2_35740818	Ca3	35740818	TAAAAAA/TAAAAAA	GTCGTGAATTTCCCTT TCA	TGCCGCATTGATTCATT TTA	60.0	547	DRR	Ca_00861	--	CPP
Ca3_P2_35741226	Ca3	35741226	TGG/TG	CATCCGAAAAATAATGG CGT	CGATGACTAACGGTCG ACAA	59.7	588	DRR	Ca_00861	--	CPP
Ca3_P2_35741530	Ca3	35741530	C/CG	TGCAGGTTCACTTTCCA ACA	CATTTTCATCCATCCACC CTC	60.1	683	DRR	Ca_00861	--	CPP
Ca3_P2_35743869	Ca3	35743869	TCC/T	AATTGGTCTTTGTGAC AGTCA	TGTTTTGTTCATTTTCG GTCA	59.0	384	INTERGENIC	--	--	--
Ca3_P2_35746621	Ca3	35746621	CTT/CTTT	TTGTTAGGGCTCGATCT GAAA	ATCGTTCAAGCACGTA TCCC	60.0	538	INTERGENIC	--	--	--
Ca3_P2_35746767	Ca3	35746767	ATTTTTTTTTTT/ATTTTTTTT	AAAGCCTCGTATATGCA CCG	TGCGAACAAGTTCATA GCATTT	59.8	510	INTERGENIC	--	--	--
Ca3_P2_35746875	Ca3	35746875	ATATTATTATT/ATATTATTATTATT	AAAGCCTCGTATATGCA CCG	TGCGAACAAGTTCATA GCATTT	59.8	510	INTERGENIC	--	--	--
Ca3_P2_35749541	Ca3	35749541	ATTG/ATTGTTTTG	TGAAGATTGGTTAGGC CTGG	GTTGCGGAAACAAC GTCA	59.7	495	INTRON	Ca_00862	D	--
Ca3_P2_35751166	Ca3	35751166	GCTTCTT/GCTT	TTGATAAAGCCTGGAA GCGT	CTTTCACCACTTCCC GAT	60.0	209	INTRON	Ca_00862	D	--
Ca3_P2_35751286	Ca3	35751286	TCCCCCCC/TCCCCCCC	ATCGGGAAGTGGTGTG AAAG	ACCTTGGTCTGATTC GATG	59.9	464	INTRON	Ca_00862	D	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_35765376	Ca3	35765376	GTATATATATATA/GTATATATATATATA	ACATTTGGTCTGGGTCA AGC	CATGGTTCCTCGTTCC TGTT	60.0	327	DRR	Ca_00862	D	--
Ca3_P2_35766292	Ca3	35766292	AGGGTGGG/AGGG	CTATTCGTGTGCGCTG AAAA	AAAGGCATTGGAGTAG GACG	59.2	612	DRR	Ca_00862	D	--
Ca3_P2_35767362	Ca3	35767362	AAAAA/AAAAATAAAA	GGGTGCTTCCTCAATCT TCA	GACTTTGGAAGTCGGC AAAA	60.2	798	INTERGENIC	--	--	--
Ca3_P2_35768780	Ca3	35768780	T/TTC	CCTTATCCCCGAAATTT GAA	GCGGATAGCAAATCGT TCAT	60.1	271	INTERGENIC	--	--	--
Ca3_P2_35768860	Ca3	35768860	TAAAAA/TAAAAAAA	CCTTATCCCCGAAATTT GAA	GCGGATAGCAAATCGT TCAT	60.1	271	INTERGENIC	--	--	--
Ca3_P2_35770921	Ca3	35770921	GTAAT/GT	GCATGGTGCAGTGAAA GAGA	AATTGAGGTCCCGTCA GTTG	60.0	448	DRR	Ca_00863	U	bZIP
Ca3_P2_35776584	Ca3	35776584	TTATATAT/TTATATATAT	GGTGGTTTTGCACTTTT GCT	TCACATACTCGCCAGA CTGC	60.0	712	DRR	Ca_00865	R	G2-like
Ca3_P2_35779416	Ca3	35779416	CTTTTTTTTTTTTT/CTTTTTTTTTTT	GCAAATCCTCTGCTCCT GTC	TTCCATTTCACTCACCA CCA	59.9	548	DRR	Ca_00866	K	NF-YA
Ca3_P2_35779467	Ca3	35779467	TA/TTATAA	GCAAATCCTCTGCTCCT GTC	TTCCATTTCACTCACCA CCA	59.9	548	DRR	Ca_00866	K	NF-YA
Ca3_P2_35779513	Ca3	35779513	GAAAAAAA/GAAAAAAA	GCAAATCCTCTGCTCCT GTC	TTCCATTTCACTCACCA CCA	59.9	548	DRR	Ca_00866	K	NF-YA
Ca3_P2_35779977	Ca3	35779977	TACAACAA/TACAA	TGGTGGTGAGTGAAAT GGAA	GTGAAATGCAAGGCC AAAT	59.9	176	DRR	Ca_00866	K	NF-YA
Ca3_P2_35783291	Ca3	35783291	TAAAAAAA/TAAAAA	TGGAAGTCAACTCAAT GCG	TGCTTCGGAAAAATCTA GATGAA	59.0	303	INTRON	Ca_00866	K	NF-YA

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35783476	Ca3	35783476	ACTATTC/AC	TGGAAAGTCAACTCAAT GCG	CTTACATCGAGCCGAC ACAA	59.9	745	INTRON	Ca_00866	K	NF-YA
Ca3_P2_35783609	Ca3	35783609	ATGT/ATGTGT	TGGAAAGTCAACTCAAT GCG	CTTACATCGAGCCGAC ACAA	59.9	745	INTRON	Ca_00866	K	NF-YA
Ca3_P2_35784516	Ca3	35784516	A/AG	TGGTATGCTCTTCCCG AAC	TCCAGCTTCTGTTTCAA GACC	59.5	486	INTERGENIC	--	--	--
Ca3_P2_35784715	Ca3	35784715	TAAAAA/TAAAAA	GGTGCTGCTCCTGAAT TAGC	GGCTCCAATCTAATGG GGTT	60.2	798	INTERGENIC	--	--	--
Ca3_P2_35784745	Ca3	35784745	TAAAAAAA/TAAAAAAA	GGTGCTGCTCCTGAAT TAGC	GGCTCCAATCTAATGG GGTT	60.2	798	INTERGENIC	--	--	--
Ca3_P2_35787094	Ca3	35787094	TAAAAAAA/TAAAAAAA	AGCATTAGGGTGAATC GTGC	AACTTGAAGCGTGAAG GCAT	59.9	732	INTERGENIC	--	--	--
Ca3_P2_35787147	Ca3	35787147	ATTTTTTT/ATTTTTTTTT	AGCATTAGGGTGAATC GTGC	AACTTGAAGCGTGAAG GCAT	59.9	732	INTERGENIC	--	--	--
Ca3_P2_35788163	Ca3	35788163	GATAAATATTTTATAAA/GATAAATATTT TATAAATATTTTATAAA	CCTTCACCTTAGGCCAT TGA	CACCTTGATTTTACCAC ACTCG	59.5	645	INTERGENIC	--	--	--
Ca3_P2_35789381	Ca3	35789381	TATAAAATAAAATAAA/TATAAAATAAA A	ATGGCTACTGCTCGTTT GTT	AAACGTGGGGCACATT TTAG	59.9	766	INTERGENIC	--	--	--
Ca3_P2_35791544	Ca3	35791544	TAGCCA/TAGCCAGCCA	AAGTGATACACCGACC GTCA	TGAATGACGCCTTCTT CCTC	60.3	455	INTERGENIC	--	--	--
Ca3_P2_35795684	Ca3	35795684	ATTTTTTT/ATTTTTTTTT	GACCATGGCATTGAGT TCCT	GGTCTCCAGCTCAAGA TTGC	60.0	676	INTERGENIC	--	--	--
Ca3_P2_35796430	Ca3	35796430	CTTTT/CTTT	GCAATCTTGAGCTGGA GACC	GGCACAAGTCAAATGG TCAA	59.5	909	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35798935	Ca3	35798935	CATAGAATAGAAATAGAAT/CATA GAATAGAATAGAAT	AGCTCAGTGCAACGAT TGTG	AGTGCATCATTTGTCCA CCA	60.0	355	INTERGENIC	--	--	--
Ca3_P2_35799328	Ca3	35799328	CTTT/CT	TGGTGGACAAATGATG CACT	TCACCCGAATATTCAA AAGA	59.4	293	INTERGENIC	--	--	--
Ca3_P2_35799677	Ca3	35799677	ATTTT/ATTTT	TAACTGCATTTGATTGC GGA	TGCTTTTGCAAGTGT TTGA	59.5	610	INTERGENIC	--	--	--
Ca3_P2_35800877	Ca3	35800877	TGAG/TGAGAG	GCGTTCCAAGAACAC CAAT	TTTGATGCAATTCAACT CGG	59.7	535	INTERGENIC	--	--	--
Ca3_P2_35801766	Ca3	35801766	TAA/TA	TTACCATGATTGAGGCA CCA	CCTTGTGTTGGTTTGGT TGG	60.2	395	INTERGENIC	--	--	--
Ca3_P2_35802689	Ca3	35802689	TGGTCGG/TGGTCGGTCGG	TTGGTTGTGCTAACATG GGA	CAACATCCACACATTCA CACG	60.9	217	DRR	Ca_00867	O	--
Ca3_P2_35805111	Ca3	35805111	CATATATATAT/CATATAT	TTTAGCATCGTGGTTTC CTTT	TGCTAAATAAATCCG CCAA	59.7	521	INTERGENIC	--	--	--
Ca3_P2_35806267	Ca3	35806267	CAAAAAAAAA/CAAAAAAAAA	CCATGAACTCTTCCAA GCA	CGAAATCCATGGCTC TTTTTA	60.4	976	DRR	Ca_00868	--	--
Ca3_P2_35809465	Ca3	35809465	TAAAAAAAAA/TAAAAAAAAAAAAA	CTGTGTTCCCGTGAGA ACCT	TGCGGTTTGTGTTTG TGTT	60.1	795	INTRON	Ca_00868	--	--
Ca3_P2_35809496	Ca3	35809496	CAAA/CAAAA	CTGTGTTCCCGTGAGA ACCT	TGCGGTTTGTGTTTG TGTT	60.1	795	INTRON	Ca_00868	--	--
Ca3_P2_35809695	Ca3	35809695	CAAAAA/CAAAAAA	CCGGAAGGAAATCC AAAT	TGCGGTTTGTGTTTG TGTT	60.1	297	INTRON	Ca_00868	--	--
Ca3_P2_35809791	Ca3	35809791	CTTTTT/CTTTTTT	CCGGAAGGAAATCC AAAT	TGCGGTTTGTGTTTG TGTT	60.1	297	INTRON	Ca_00868	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35811026	Ca3	35811026	TCC/TC	TGTGTGCGTGTGTTG AGAA	TGGTAGTAAATCACTC GCAGTTG	59.3	743	INTERGENIC	--	--	--
Ca3_P2_35811115	Ca3	35811115	TTTTTATTTATTTATTTATTTATTTT A/TTTTTATTTATTTATTTATTTT	TTTTGGGTTTCTCACTT GCC	TGGTAGTAAATCACTC GCAGTTG	59.3	455	INTERGENIC	--	--	--
Ca3_P2_35811467	Ca3	35811467	CTATAT/CTAT	TGAACAAATAAAATTCA ACTGCG	TCTGAATTTCTCCCGT GAT	59.5	450	INTERGENIC	--	--	--
Ca3_P2_35811730	Ca3	35811730	CTATAT/CTATATAT	TGAACAAATAAAATTCA ACTGCG	TCTGAATTTCTCCCGT GAT	59.5	450	INTERGENIC	--	--	--
Ca3_P2_35812032	Ca3	35812032	ATTTTTTTTTTTTT/ATTTTTTTTTT	TCCACGGGAGAAATTC AGAC	GCTCATGTGCGAAATG CTAA	60.0	727	INTERGENIC	--	--	--
Ca3_P2_35813539	Ca3	35813539	TAAAA/TAA	GATCATATGGCAAACCA CCC	ACACACTTCCCAATGT GCAA	60.0	168	INTERGENIC	--	--	--
Ca3_P2_35828389	Ca3	35828389	ATTT/ATT	ATCCGCGATTGAGATA GGTG	CACACCGAAAGAACA ATGC	59.2	791	INTRON	Ca_00870	--	--
Ca3_P2_35832602	Ca3	35832602	CTATAT/CTAT	TTGGACACCACAGACC AAAA	GGTGTGAATTGAGG GCAG	60.5	697	DRR	Ca_00871	--	--
Ca3_P2_35832906	Ca3	35832906	GCA/GA	TGGGGCTTCAAAGGTA TGAC	TTTGCAATCTTTTCGTT ATTTTT	57.2	930	DRR	Ca_00871	--	--
Ca3_P2_35833491	Ca3	35833491	TTA/T	TGTGAGAAAGCATCAAA ACCT	CAAACACGGTCGGTG TCCT	60.0	238	DRR	Ca_00871	--	--
Ca3_P2_35838680	Ca3	35838680	ACCTTTTG/ACCTTTTGCCTTTTG	AGGACCAAGCGGTAAT GTTG	GGATCTGTTCTGTGT GCCT	60.1	338	INTRON	Ca_00872	--	--
Ca3_P2_35839159	Ca3	35839159	ATTTTTTTTTTTTT/ATTTTTTTTTT	GCACACAGGAACAGAT CCAA	CCGGATAAATGCATGG AAAT	59.6	504	DRR	Ca_00872	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35839497	Ca3	35839497	GT/GTCCTCTTAACT	ATGGAATTGCATGATT GGT	GGTTGAATTTTGCCG CTACA	60.0	514	DRR	Ca_00872	--	--
Ca3_P2_35848406	Ca3	35848406	TCTAACT/TCTAACTAACT	TAATCGCAACCTCCCAT CTC	GAATGTTCAAGAAGGC TCGC	60.0	645	DRR	Ca_00873	S	--
Ca3_P2_35848490	Ca3	35848490	A/AC	TAATCGCAACCTCCCAT CTC	GAATGTTCAAGAAGGC TCGC	60.0	645	DRR	Ca_00873	S	--
Ca3_P2_35852219	Ca3	35852219	AAGGAATTGACTAG/AAG	CCGGCCTGTCAGACCT AATA	TGGCCAACAAGACAAT TTCA	60.1	639	INTERGENIC	--	--	--
Ca3_P2_35853994	Ca3	35853994	ATTTTTTTTT/ATTTTTTTTT	GTCATGGAACGCAACC TCTT	AGTGGCGTCGCACTAA CTTT	59.9	814	DRR	Ca_00875	--	--
Ca3_P2_35856021	Ca3	35856021	ATTTTTTTTTTT/ATTTTTTTTTTTTTTT	CTTTGACCGAAGCATT GGC	ACCCCAAAAAGGAGGT GTTC	60.2	435	INTERGENIC	--	--	--
Ca3_P2_35856163	Ca3	35856163	T/TATA	CTTTGACCGAAGCATT GGC	ACCCCAAAAAGGAGGT GTTC	60.2	435	INTERGENIC	--	--	--
Ca3_P2_35859165	Ca3	35859165	TTATATATATATATA/TTATATATATAT ATA	AATGCGGAAACGAATTT GAG	AATCACTCACCACCAC CACA	59.8	375	INTERGENIC	--	--	--
Ca3_P2_35859927	Ca3	35859927	TGGG/TGGGG	GAAATCAATTGAAAGAA AAGCCA	TGTCACAATGTTATCT TCACAAAAA	59.9	808	INTERGENIC	--	--	--
Ca3_P2_35859979	Ca3	35859979	ATCTTCTT/ATCTT	AAACGTGATAATTGCTT ATGGG	TGGCTTTTGTGGAAGA TTTTG	59.3	205	INTERGENIC	--	--	--
Ca3_P2_35862589	Ca3	35862589	ACCC/ACC	TTCAACTGTTCTACGG AACA	TGGGGTTTCCAAAAGT TCAG	59.9	654	INTERGENIC	--	--	--
Ca3_P2_3586328	Ca3	3586328	GTTTTTTTT/GTTTTTTTTT	TGTCCCAACTAAACCG TTC	TACGACTACATGACCG TGCC	59.6	850	DRR	Ca_21349	--	ZF-HD

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35873093	Ca3	35873093	TC/T	TTCAATGGGAATGGGA ATGT	GTCTCCGACACCGACA CTTT	60.2	663	INTERGENIC	--	--	--
Ca3_P2_35873417	Ca3	35873417	TATAAATAAATAAATAA/TATAAATAA	GCCATGCCATGTTACC ATTT	GTCTCCGACACCGACA CTTT	60.2	470	DRR	Ca_00878	O	--
Ca3_P2_35874357	Ca3	35874357	CTT/C	AGCTACCCCCACCACTT CTT	ACACGTAGGCCACGAT GATT	60.4	243	DRR	Ca_00878	O	--
Ca3_P2_35874648	Ca3	35874648	ATTTTT/ATTT	AGCTACCCCCACCACTT CTT	TGGATCTTGCCTTCCA GTTT	59.7	701	DRR	Ca_00878	O	--
Ca3_P2_35874800	Ca3	35874800	TTAT/TT	AGCTACCCCCACCACTT CTT	TGGATCTTGCCTTCCA GTTT	59.7	701	DRR	Ca_00878	O	--
Ca3_P2_35890580	Ca3	35890580	A/AC	GAAGTGGCTGAAACAG AGGC	CTCGTATAGGGTGGC AAAA	60.0	461	INTERGENIC	--	--	--
Ca3_P2_35887062	Ca3	35887062	CT/CTAATAATT	GCAACATGAAAGCACG TTTG	CGTTGGAAC TTGGAAC CATT	59.8	507	INTERGENIC	--	--	--
Ca3_P2_35889852	Ca3	35889852	TT/TTAT	GACCCGTCGGAAC TTT GTAA	TTAATCGAAGGAGGGT GTGG	59.9	415	INTERGENIC	--	--	--
Ca3_P2_35894033	Ca3	35894033	AACCTTTTACC/AACC	CACACAAATTGGTTGGT GCT	TCAAAAGTTTGACTCCT AAACGG	59.7	508	INTERGENIC	--	--	--
Ca3_P2_35894525	Ca3	35894525	GTATATATATATATA/GTATATATATATA TATATATATA	TGAAACCTTTTACCAGA CTCCAA	GTTAATCAAAGGGCCG ACAA	59.9	952	INTERGENIC	--	--	--
Ca3_P2_35895341	Ca3	35895341	CAAAAA/CAAAAAA	TTTCCTTAGGACGCGAA GAA	CGGAAGTTCCAATGGA GAAA	60.0	553	INTERGENIC	--	--	--
Ca3_P2_35895922	Ca3	35895922	TTT/TTTTTTCTT	ATACGGCAAAAACAGC CATC	TAGATAAACCCACCGG CTCA	60.5	464	DRR	Ca_00881	DO	WRKY

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35897194	Ca3	35897194	GTTATTTT/GTTATTTTATTT	TAGGAAAGGGCCAATG TCAG	AGTAGGAGGAGGGT GTGGT	59.8	266	DRR	Ca_00881	DO	WRKY
Ca3_P2_35900336	Ca3	35900336	CTTTTTT/CTTTTTT	GTGACGTTGTATTGCG ATGG	CCAAAACGGGGAGAA ACAA	59.9	656	DRR	Ca_00882	Q	Nin-like
Ca3_P2_35901183	Ca3	35901183	ATTTTTTTTT/ATTTTTTT	TTGTTTCTCCCGATT TGG	TTTTTCTCAATCCACG GGT	59.4	607	DRR	Ca_00882	Q	Nin-like
Ca3_P2_35910653	Ca3	35910653	TAAGAAG/TAAG	TAATTTTCGTCTCCAT GCC	AGCCAAATCCAACATT CAC	59.8	521	INTERGENIC	--	--	--
Ca3_P2_35911655	Ca3	35911655	AG/A	GCATGCGACTCATTTAC CAA	TCGAATTATTTTGAGT TGGTTTG	59.5	599	INTERGENIC	--	--	--
Ca3_P2_35914804	Ca3	35914804	TTGTGTGTGTGTGTGTGT/TTGTGTG TGTGTGTGTGT	CCTTGAAGTCCCGTGA TGAT	GGGATAGGAAGGACGA GGAC	59.9	617	INTERGENIC	--	--	--
Ca3_P2_35917238	Ca3	35917238	AC/A	ATCTTAGCCCACTCAAT CCG	GTGTCGTAAGCCTCCT CGAA	60.4	522	INTERGENIC	--	--	--
Ca3_P2_35918984	Ca3	35918984	GAATT/GAATTTAAATT	TGGAAGGAAGGAGGAG GATT	GAGATTCGATTGAGG GCAA	60.2	825	INTERGENIC	--	--	--
Ca3_P2_35919061	Ca3	35919061	T/GAATAAA	TTCAATCCCGTAAAAAG GCA	TTGCAAAAACGAAGAA CACG	59.9	936	INTERGENIC	--	--	--
Ca3_P2_35919080	Ca3	35919080	AATAAAGA/AATAAGATAAAGA	TGAGAGGTCTGCAAA GAAAA	TTGCAAAAACGAAGAA CACG	59.9	788	INTERGENIC	--	--	--
Ca3_P2_35919142	Ca3	35919142	GC/GCAC	AGGGATGGTGATCAGT TTGG	GAAACTCCATGAGAGC TCGG	60.0	520	INTERGENIC	--	--	--
Ca3_P2_35919349	Ca3	35919349	CTTTTTT/CTTTTTT	TTGCCCTCAAATCGAAT CTC	GAAACTCCATGAGAGC TCGG	60.0	315	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_35922731	Ca3	35922731	ACCC/ACC	ACTTCAGAAGGAGTT GGCA	CGACCAGAGCTCCCAT CTTA	60.4	646	DRR	Ca_00884	--	--
Ca3_P2_35925530	Ca3	35925530	TTAAT/TTAATAAT	CGGTGAACAACCTCCA ACTT	GAGTCTGCGTTGGTCC AAAT	60.1	458	INTRON	Ca_00885	--	--
Ca3_P2_35925572	Ca3	35925572	CTTTTT/CTTTTTTT	CGGTGAACAACCTCCA ACTT	GAGTCTGCGTTGGTCC AAAT	60.1	458	INTRON	Ca_00885	--	--
Ca3_P2_35928406	Ca3	35928406	TTGCCTG/TTG	CGAAAGGTAGCGCAT GGTC	TCAAACACTAATGATGC CCA	57.5	647	DRR	Ca_00886	R	NAC
Ca3_P2_35928795	Ca3	35928795	ATTTTT/ATTTTTT	GATGGGCATCATTAGT GTTGA	TTCAGTTGCACCTCAA CGTC	59.9	336	DRR	Ca_00885	--	--
Ca3_P2_35929392	Ca3	35929392	T/TG	AAGGAAATGCAAGTCG TCGT	CGTTCACATCAACGTTT TCA	58.2	425	DRR	Ca_00885	--	--
Ca3_P2_35932284	Ca3	35932284	AAG/A	GGTTCCTAGCATGTGG GCAT	ATTGCATTGGGGGTT GTAA	60.1	845	DRR	Ca_00887	BT	GATA
Ca3_P2_35935534	Ca3	35935534	CAA/CAAA	TGGAACCTGGGTTGAG GTAG	GAAAATTGACCCAAA GCCA	59.9	633	DRR	Ca_00888	--	--
Ca3_P2_35935554	Ca3	35935554	AA/AATA	TGGAACCTGGGTTGAG GTAG	GAAAATTGACCCAAA GCCA	59.9	633	DRR	Ca_00888	--	--
Ca3_P2_35936442	Ca3	35936442	GAAAAAAAA/GAAAAAAAA	CCACATCCATGTTTCAC CAA	CGGTGTAAGGTCGTGG AGAT	60.0	254	DRR	Ca_00888	--	--
Ca3_P2_35941651	Ca3	35941651	CATATATAT/CATATAT	CAAGTCCAACCGTGA AGAT	TCGGGACGTTACACAT AGCA	60.1	251	INTERGENIC	--	--	--
Ca3_P2_35947189	Ca3	35947189	C/CTATGTCTCTG	GGTTACAAGGCCTCAC GGTA	ATTCAGAAATGCACCC CATC	59.8	300	DRR	Ca_00889	J	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35947619	Ca3	35947619	CAA/CA	GATGGGTGCATTCT GAAT	TTGAAATTTGACCGCA TCA	60.1	830	DRR	Ca_00889	J	--
Ca3_P2_35947883	Ca3	35947883	CTTT/CT	TCTGTCTAGCCGTAGT CCTG	TTGAAATTTGACCGCA TCA	60.1	434	DRR	Ca_00889	J	--
Ca3_P2_35950711	Ca3	35950711	ATTTA/ATTTAAATTACATGCAATTTTA	CATGCGATGGAATGA ATTG	GTAAAGTTGGCACAGG GGAA	60.0	479	INTERGENIC	--	--	--
Ca3_P2_35960562	Ca3	35960562	AGTTTGATT/AGTTTGATTGTTTGATT	TCCGACTTGGTAAACA GCA	TTTGGACGAAATAAAT TGAAAA	59.0	398	DRR	Ca_00891	V	GRAS
Ca3_P2_35960868	Ca3	35960868	TAA/TAAA	GGATGCTACATTTCTTG GTGG	TGAAGGAGGGAGAAAC ATGG	60.0	835	DRR	Ca_00891	V	GRAS
Ca3_P2_35963982	Ca3	35963982	CAAAAAAAAA/CAAAAAAAAA	CACAGAAGTGTGATGT CTTTAGTTTG	ACGCTAGTACAGCCAC CGAT	59.8	819	INTERGENIC	--	--	--
Ca3_P2_35966241	Ca3	35966241	GTATCCAATAATAT/GTAT	CCCTATCGAGTTTAAGG GCA	TTTGAGTACAACGAATT TGAAAGTG	59.6	494	INTERGENIC	--	--	--
Ca3_P2_35967842	Ca3	35967842	TAAAAAAAAA/TAAAAAAAAA	TTGATTATGAGCACCAA GCG	TGTATTAAAGTCATTT CCCCC	60.0	716	DRR	Ca_00892	C	--
Ca3_P2_35973469	Ca3	35973469	AC/A	TGCCAGTGATCATCGA AAAA	AGGGGCAAAGGTAACA AAGC	60.5	374	INTRON	Ca_00892	C	--
Ca3_P2_35973692	Ca3	35973692	CG/C	TGCCAGTGATCATCGA AAAA	TTCTGTGAAGGATGCA GCAG	60.1	778	INTRON	Ca_00892	C	--
Ca3_P2_35974404	Ca3	35974404	G/GGA	TAGCAACATCTGCTGCA TCC	ATCACACGGGAAATCT GAGC	60.1	721	INTRON	Ca_00892	C	--
Ca3_P2_35981540	Ca3	35981540	ATTTTTTTT/ATTTTTTTTT	ATCAAACCAATGGACC CAA	TCATAAACCTGCATTT GTGAAG	59.2	527	DRR	Ca_00893	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_35981806	Ca3	35981806	GAAAAA/GAAAAAA	ATCAAACCAATGGACC CAA	TCGAAACTTTGAGAG ATGGC	59.4	770	DRR	Ca_00893	--	--
Ca3_P2_35982476	Ca3	35982476	TGG/TG	TCGAAAAGAAGTTTATC CGCA	TGAATTGCTGTAGCCT GTGG	59.9	408	DRR	Ca_00893	--	--
Ca3_P2_35982788	Ca3	35982788	ATTT/ATT	CGGAGCCGTAGGATTG ATTA	CGTGCAGGGTGGAGTT TATT	60.0	324	DRR	Ca_00893	--	--
Ca3_P2_35986617	Ca3	35986617	CCA/CCACA	GGTGGATTCTTTGCTTC CAA	AGGTGCAAGTGCAAGT TCCT	59.9	479	INTRON	Ca_00893	--	--
Ca3_P2_35990406	Ca3	35990406	ACTG/A	TGAATTTACACCTGCGC CTC	GCTCGAGATGAAGGGA CTTG	60.0	331	INTERGENIC	--	--	--
Ca3_P2_35994489	Ca3	35994489	CT/CTAAATATT	TGAATGATGTTTCATTC CATCA	GAATTCGGAACAAAC GTCA	60.0	311	INTERGENIC	--	--	--
Ca3_P2_35996017	Ca3	35996017	T/TTA	GCTTTGTGGCAACCAT TTT	GATCCAGATTGCCTGC ATT	60.0	766	INTRON	Ca_00895	E	--
Ca3_P2_35997682	Ca3	35997682	GTT/GT	GTGCTTTTGTTCGGTC CAT	ACAAATGAGGCAATA CGGC	60.0	768	INTRON	Ca_00895	E	--
Ca3_P2_35998171	Ca3	35998171	CAAA/CAA	TGTAGCTTCATTCGTGC CAG	ATGCTGATTGGTGTGT CCAA	60.0	727	DRR	Ca_00895	E	--
Ca3_P2_35998366	Ca3	35998366	CAAAAAAAAAAAAA/CAAAAAAAAAAA	TGTAGCTTCATTCGTGC CAG	ATGCTGATTGGTGTGT CCAA	60.0	727	DRR	Ca_00895	E	--
Ca3_P2_36003419	Ca3	36003419	TGGG/TGGGG	TCAATTGTCACCGCATT TGT	CAAAAGTTGTTGGCTG CTCA	60.0	370	INTRON	Ca_00896	OPR	--
Ca3_P2_36006229	Ca3	36006229	CAA/CAAAA	GGTTGCTGAGCCAAC CTTC	ATGTTGAATTTCTGCCA GCC	60.1	549	INTRON	Ca_00896	OPR	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36012310	Ca3	36012310	ATTTTT/ATTTTT	ACACGAAAGCATCAAA CCC	TTTATCAATGGGGTGG CAAT	60.0	444	DRR	Ca_00897	--	--
Ca3_P2_36016163	Ca3	36016163	TAAAAAAAA/TAAAAAAAA	CAACTGCACAGATGGA TTGG	AATTTGCAATTTGATCC CCA	60.1	650	DRR	Ca_00900	O	CAMTA
Ca3_P2_36016763	Ca3	36016763	TAA/TA	CGCGGAACAAGAATCA AAAT	ATCTCGCGAAGGTGAG AGAA	60.1	384	DRR	Ca_00900	O	CAMTA
Ca3_P2_36016803	Ca3	36016803	GTTTTTTTTTTT/GTTTTTTTTTTTTT TTTT	CGCGGAACAAGAATCA AAAT	ATCTCGCGAAGGTGAG AGAA	60.1	384	DRR	Ca_00900	O	CAMTA
Ca3_P2_36016832	Ca3	36016832	TAAAAAA/TAAAAAA	CGCGGAACAAGAATCA AAAT	ATCTCGCGAAGGTGAG AGAA	60.1	384	DRR	Ca_00900	O	CAMTA
Ca3_P2_36018756	Ca3	36018756	TAAAA/TAA	GGGCTTCAACTTCCACT TCA	TGTATCCAAGGGGCA TAAA	60.1	498	INTRON	Ca_00900	O	CAMTA
Ca3_P2_36019541	Ca3	36019541	AT/ATGT	ACCTTTGGATTTCATGTT TGG	CCGATAGCCATTGGA CACT	60.0	614	INTERGENIC	--	--	--
Ca3_P2_36020478	Ca3	36020478	ATT/ATTT	AGGTGAAGGTTGCGTT AGTGA	TCAAATTGTGTGGGAG AAACA	59.0	536	INTERGENIC	--	--	--
Ca3_P2_36021252	Ca3	36021252	GAT/G	GTTTGCGGATTGTTGTT GAGT	TATTTTAGGACCGCCT GACG	60.1	442	DRR	Ca_00901	O	CAMTA
Ca3_P2_36025976	Ca3	36025976	ATTTTTT/ATTTTTTTT	CAACGGAATAAACCG TCTTTC	AACGGCGAATCTAAGT GCAT	59.7	579	INTERGENIC	--	--	--
Ca3_P2_36027369	Ca3	36027369	AATATATATAT/AATATATAT	GCTGATTCAAAAAGCCC TCA	TGTGCATTTTATTTTGT TTGGAA	59.4	375	INTERGENIC	--	--	--
Ca3_P2_36027559	Ca3	36027559	CGA/C	GCTGATTCAAAAAGCCC TCA	CATGAACACCCTATCTA GCACAA	59.2	467	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36032758	Ca3	36032758	ATTTTT/ATTTTTTT	GGTCATTTTGGTTCAGC GTT	TCGATTGGATAGTGCC ATCA	60.0	705	DRR	Ca_00902	S	bZIP
Ca3_P2_36040095	Ca3	36040095	TAAAAAAAA/TAAAAAAAA	TGTTGCACTATCGGCG TAAA	TTTAAACAGGCAGGG TTGC	60.1	782	INTRON	Ca_00902	S	bZIP
Ca3_P2_36040732	Ca3	36040732	ATTTT/ATTT	CCACCACTGCAGAAGT GAGA	TCCGAAGTGGAGAGTG TGAA	59.4	461	INTRON	Ca_00902	S	bZIP
Ca3_P2_36040968	Ca3	36040968	CAAA/CAAAA	CCACCACTGCAGAAGT GAGA	TGTTGGTAAGATTTTGT GAAAATTG	59.4	510	INTERGENIC	--	--	--
Ca3_P2_36041204	Ca3	36041204	ATT/AT	TTCACACTCTCCAGTTC GGA	AAGTCGACGTTTGTGA AGAGTTC	59.8	699	INTERGENIC	--	--	--
Ca3_P2_36042265	Ca3	36042265	ATTTTTTTT/ATTTTTTTTTT	CTCCAGTTTGGACCTT CAA	GTTCCGCCATTTTGTTC CTC	59.6	210	INTERGENIC	--	--	--
Ca3_P2_36043188	Ca3	36043188	A/AT	TGGAATGAATTAACCA TCACG	GCCACAAATCATGCT GAAA	59.7	245	INTERGENIC	--	--	--
Ca3_P2_36044685	Ca3	36044685	TAA/TAAAAA	TGTCAAATATCAAGGG GGATG	TTTGTGGCTGTATTG GCAG	59.7	722	INTERGENIC	--	--	--
Ca3_P2_36045650	Ca3	36045650	ATT/ATTT	TGTGATTGAAAAGATG GTCAAAA	GGGGTACGGAGTGGA GGTAT	60.1	622	INTERGENIC	--	--	--
Ca3_P2_36046088	Ca3	36046088	GTTTTTTT/GTTTTTTTTT	ATACCTCCACTCCGTAC CCC	GGCCTTGCATGATTG AAAC	60.5	416	INTERGENIC	--	--	--
Ca3_P2_36048215	Ca3	36048215	CTTTTTTTTTT/CTTTTTTTTTT	AACCGCCATCTATCCC TAC	GGACGTTGAAAAGCAG AAGC	60.0	468	INTRON	Ca_00903	A	--
Ca3_P2_36053633	Ca3	36053633	TAAA/TAAAAA	AAAAAGGGTTGTTGCC AGA	AACGGGATTAGGGATT TTGG	60.0	581	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36055468	Ca3	36055468	TATA/TATAATA	GCTCAATCCTATCCCA CAA	ATGATGGTCAATGCAA AGCA	60.1	591	INTERGENIC	--	--	--
Ca3_P2_36059105	Ca3	36059105	ATTTTTTTTT/ATTTTTTTT	GACCTACTTCCATGGG CAAA	TCTAAACCCGAACAG AAGG	60.1	562	INTRON	Ca_00904	A	--
Ca3_P2_36067685	Ca3	36067685	GTTTTTTTT/GTTTTTTTTT	GCATTTACTGCATTCTG CCC	GGCCAAACTCCGAAGT ACAA	60.1	529	INTRON	Ca_00904	A	--
Ca3_P2_36076083	Ca3	36076083	ATAAAA/ATAAAATTAAAA	TGTCAAAATTGGATTG CCA	CCTTGTTGAAACAAATG CAAGA	60.1	539	INTERGENIC	--	--	--
Ca3_P2_36086627	Ca3	36086627	AC/ACC	ATTCCAACGGAAACAT CCA	CTCCCAACAAAGCCT ACGA	60.2	605	INTRON	Ca_00907	I	--
Ca3_P2_36087882	Ca3	36087882	CTTTTTTTTTTTTT/CTTTTTTTTTT TTT	GCAAAGGGAGAAAAGC AGTG	CACTATGGCAAGGTTT GGTT	60.0	348	INTRON	Ca_00907	I	--
Ca3_P2_36088258	Ca3	36088258	AT/ATT	AACCGAACCTTGCCATA GTG	AGACAGATTACCCACG GCTG	60.1	355	INTERGENIC	--	--	--
Ca3_P2_36089072	Ca3	36089072	GAAAAAAAAA/GAAAAAAAAA	CACCTACTAAAAAGCGT GCTGA	TCCAAAAACAAACAAAG CCC	60.0	146	INTERGENIC	--	--	--
Ca3_P2_36089210	Ca3	36089210	CAAAAAAAAA/CAAAAAAAAA	GGGCTTTGTTTTGTTTT GGA	AATAAGGGGAAAAGG CCAA	59.8	185	INTERGENIC	--	--	--
Ca3_P2_36089981	Ca3	36089981	TAAAGTCAA/TAA	AATACGAATCATTGGAG CTTTTT	AAACTGGTTGAGTGA CGGC	60.2	167	INTERGENIC	--	--	--
Ca3_P2_36092729	Ca3	36092729	ATTTTTTT/ATTTTTTTTT	TGGAATAGGCTAGACC GTCG	TTTCCGATTTGGTCTAA CTTGAA	60.0	691	INTERGENIC	--	--	--
Ca3_P2_36096942	Ca3	36096942	GAAAAAA/GAAAAAA	AAGGGAGGAACACAAA AATTGA	TTTCGAACAGGGGCTT CTAA	59.8	390	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36097056	Ca3	36097056	TGG/TG	GCCATTCTTAGAAGCC CCT	TTTGCCTGGATATTCC CTG	59.9	485	INTERGENIC	--	--	--
Ca3_P2_36097089	Ca3	36097089	TATAA/T	GCCATTCTTAGAAGCC CCT	TTTGCCTGGATATTCC CTG	59.9	485	INTERGENIC	--	--	--
Ca3_P2_36098483	Ca3	36098483	TATGCT/TATGCTCTTTGGCATGCT	TGTTAACGCGCCTCAAA TAA	GGCAATTGCTATAATC CCCA	59.8	521	INTERGENIC	--	--	--
Ca3_P2_36101762	Ca3	36101762	AACATATATA/AA	TTCCCGGAAGTGAATT GAAG	GAAGCAACCCAAAGTT TCCA	60.1	492	INTRON	Ca_00908	K	--
Ca3_P2_36107876	Ca3	36107876	ATTTT/ATTT	CAATCCCTTTAACTTCG CCA	GGTGGGTGACAATGAT TTCC	60.0	658	INTERGENIC	--	--	--
Ca3_P2_36109027	Ca3	36109027	CTTTT/CTTTTT	TCCATGCCATCAAAATC AAA	TTTCGTGAAGCATACT TCCA	59.3	316	DRR	Ca_00909	J	--
Ca3_P2_36109234	Ca3	36109234	AAAATA/AA	TCCATGCCATCAAAATC AAA	GACCCATTCACTCAAC CGAT	59.8	813	DRR	Ca_00909	J	--
Ca3_P2_36109369	Ca3	36109369	CTTG/CTTGTTG	TGGAGTATGCCTTCAC GAAA	TGCCGTGGTTAAGGGA ATAG	60.0	652	DRR	Ca_00909	J	--
Ca3_P2_36110040	Ca3	36110040	CATA/CATATA	TCCCTTAACCACGGCAT TAG	GGCAAAGGGTGAGGTC ATTA	59.9	643	DRR	Ca_00909	J	--
Ca3_P2_36114057	Ca3	36114057	ATTT/ATTTT	TATGTGCAGAAGCAAG TGGC	TTTGGGAGGAGTCGAA AATG	60.0	421	INTRON	Ca_00910	--	--
Ca3_P2_36117243	Ca3	36117243	GAAAAAAA/GAAAAAAA	TGAATGATTGAGCCAG CAAG	AGAAGGATGTCGAAAA GCGA	60.0	393	DRR	Ca_00911	D	--
Ca3_P2_36118869	Ca3	36118869	TA/T	CATCGTCCTCTTCTGCT TCA	TCAAATCTGGAAAGGT TGGG	59.9	579	INTRON	Ca_00911	D	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36120455	Ca3	36120455	TGGG/TGG	AAAGCACCTGCAAGAA GGAA	GGCTTGGTCTCTTCCA ATCA	60.2	479	INTRON	Ca_00911	D	--
Ca3_P2_36120818	Ca3	36120818	TA/TAA	TGATTGGAAGAGACCA AGCC	CAATGGTGCAACAAAC TTGG	60.0	680	INTRON	Ca_00911	D	--
Ca3_P2_36123850	Ca3	36123850	TAA/TA	CCCCACAAAATCGGCT AGTA	TGTTTGACATGCAATTC GGT	60.0	876	INTERGENIC	--	--	--
Ca3_P2_36124148	Ca3	36124148	GAAAAAA/GAAAAAAA	TTGGACAAAGATAGGG CCAC	TGTTTGACATGCAATTC GGT	60.0	174	INTERGENIC	--	--	--
Ca3_P2_36128642	Ca3	36128642	ATTTTTTT/ATTTTTT	ACTAACGGAACGACGA ATGG	AAAGTCGAGGTGCTTT TTGC	59.5	657	INTERGENIC	--	--	--
Ca3_P2_36129655	Ca3	36129655	GATATA/GATA	TTGCTCGTTTGATTGGT GTG	TTTTGTGATTTTACGT AAGGGTA	57.1	589	DRR	Ca_00912	YU	--
Ca3_P2_36129790	Ca3	36129790	T/TC	TTGCTCGTTTGATTGGT GTG	TTTTGTGATTTTACGT AAGGGTA	57.1	589	DRR	Ca_00912	YU	--
Ca3_P2_36131712	Ca3	36131712	CAA/CAAA	GGCGTGAAAAGTGACT GGAT	TGTTTCCTAGTACCGT GCCC	60.0	471	INTRON	Ca_00912	YU	--
Ca3_P2_36135574	Ca3	36135574	ATT/AT	CAAATTAATTGGTTTGG ATTTGA	TTTAGCACCCTTCTGG TGTG	59.8	873	DRR	Ca_00913	--	M-type
Ca3_P2_36135942	Ca3	36135942	A/AC	ATAAAAATGCATGCACG CTG	TGAAGCAAACGTGTCA AAGC	60.0	525	DRR	Ca_00913	--	M-type
Ca3_P2_36136545	Ca3	36136545	CA/CATACATACATA	GCTTTGACACGTTTGCT TCA	ATTGTGGGAAGTGCTT ACGG	60.0	368	INTRON	Ca_00913	--	M-type
Ca3_P2_36138195	Ca3	36138195	TAAAAAAA/TAAAAAAA	AGCTAATGAGCGGAAG CAAA	AATCTCCAAATTGGTG GTGG	59.6	558	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36141214	Ca3	36141214	TGCCACC/T	AAAGAGCAAGGCTGAT CCAA	AAAAACGTTTCGGGCT TACA	59.6	570	INTERGENIC	--	--	--
Ca3_P2_36148820	Ca3	36148820	TAAA/TAAA	TTGCTTATGTCTCACGG CTG	CACCTTTGGAAGCAAA CAGAG	59.9	901	INTERGENIC	--	--	--
Ca3_P2_36154002	Ca3	36154002	AA/AACA	TTATTTTTCGGGCTTTT GTCA	CTTCCATTTCAGGGT TTGT	60.0	839	DRR	Ca_00916	A	GeBP
Ca3_P2_36157100	Ca3	36157100	G/GCTCCCTTG	TGAATCAATCATCGCCA AAA	CATGACTTAATGGCGT GGTG	60.0	435	INTRON	Ca_00916	A	GeBP
Ca3_P2_36157685	Ca3	36157685	CT/CTAT	ACAAAGGGATGGGGAA AGAC	TACCGAAACACATGAC GGAA	60.0	644	INTRON	Ca_00916	A	GeBP
Ca3_P2_36161068	Ca3	36161068	ATTT/ATTTT	TTGCATCTCCCATGAT TGA	TTTGGGTCGCTTTTAT TTTT	59.8	443	INTERGENIC	--	--	--
Ca3_P2_36167042	Ca3	36167042	GTTTTTTTT/GTTTTTTTTT	TTTTGACCCATCCAAGA AGG	CCCCGTCTAATTAGCC AACA	60.0	459	DRR	Ca_00918	KTDL	--
Ca3_P2_36168799	Ca3	36168799	CTCATAAGTCA/CTCA	GCCTGCGAAAGACAAA GTTC	ATTTCAGGAGCTGCT GTTT	60.0	610	INTRON	Ca_00918	KTDL	--
Ca3_P2_36173279	Ca3	36173279	CTTTTTTT/CTTTTTTTT	CATTGGAATGGAACT GCTT	ATGCTGCAAGGGTTAT TTGG	60.0	596	INTERGENIC	--	--	--
Ca3_P2_36176812	Ca3	36176812	GAAAAAAAA/GAAAAAAAAA	TAATGCCACACACT CCA	TTCTCATCTGCAATGC TGC	60.1	515	DRR	Ca_00919	R	bHLH
Ca3_P2_36177769	Ca3	36177769	A/AC	TCAATGAAGCAATGAG GGCT	CCAATGCCCTCAGGT ACTA	59.9	534	INTRON	Ca_00920	--	--
Ca3_P2_36177820	Ca3	36177820	GTCTCT/GTCT	TCAATGAAGCAATGAG GGCT	CCAATGCCCTCAGGT ACTA	59.9	534	INTRON	Ca_00920	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_36178035	Ca3	36178035	TC/T	CTCAATGAAGCAATGAG GGC	GCATTCTCCGGTCTTAT CCA	60.0	898	INTRON	Ca_00920	--	--
Ca3_P2_36178743	Ca3	36178743	TAA/TAAA	TGGATAAGACCGGAGA ATGC	TCCTTATAAAATTATCA TGCACTCAA	58.3	690	DRR	Ca_00921	Q	B3
Ca3_P2_36178911	Ca3	36178911	ATTT/ATT	TGGATAAGACCGGAGA ATGC	TCTCGAACTAGAAAA GAACAAAA	58.0	812	DRR	Ca_00921	Q	B3
Ca3_P2_36179397	Ca3	36179397	CTTTTTTTTT/CTTTTTTTTT	AAAGACTACGCATATAT TTACCCC	TGCATTGAGTGATGA CGTG	59.2	527	DRR	Ca_00921	Q	B3
Ca3_P2_36182833	Ca3	36182833	GTAA/GTAATTTAA	AGCATGCAGCAACAGA GAGA	TTGCCAAAGGATTGAT GTGA	60.0	415	INTERGENIC	--	--	--
Ca3_P2_36184874	Ca3	36184874	AAAA/AAAATAAA	AACTGTCAACACGTTGA GTATCG	GGCGTACACATGTCTT TGGA	59.6	395	INTERGENIC	--	--	--
Ca3_P2_36186889	Ca3	36186889	GT/GTT	ATGCCCTTGTTGGTAG GGTG	TGCATTGCCAACATAG ATTCA	60.1	453	INTERGENIC	--	--	--
Ca3_P2_36195467	Ca3	36195467	TTTTATTATTATTATTATTATTAT TTATT/TTTTATTATTATTATTATT T	TATTGCCGACGTGAGT CTGA	TTCCCTTTCTTTTCGTC TGC	59.4	283	DRR	Ca_00923	--	bHLH
Ca3_P2_36199467	Ca3	36199467	TAA/T	CACTCAAGGGACTAGG AGCG	ACAGCCGAGACAGCAC CTAT	59.9	646	DRR	Ca_00924	--	--
Ca3_P2_36199876	Ca3	36199876	CTTT/CTTTT	ATAGGTGCTGTCTCGG CTGT	CATATTACCATCGATC CGC	60.1	109	DRR	Ca_00924	--	--
Ca3_P2_36200602	Ca3	36200602	CCCAGGT/CCCAGGTCCAGGT	TGCATTTTCATTCTCC CCT	ACTTTGTGCAATCCTTT GGC	60.1	489	CDS (large-effect mutations)	Ca_00924	--	--
Ca3_P2_36200954	Ca3	36200954	GGCATGC/GGCATGCATGC	GCCAAAGGATTGCACA AAGT	TTCCCGGCTTCAACAA TTAG	60.1	338	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36203025	Ca3	36203025	CACCTAC/CAC	ATCGAAGCCGGTTAGG TTTT	TACATCTTAATTGGGCC GGA	60.3	168	INTERGENIC	--	--	--
Ca3_P2_36204918	Ca3	36204918	ATTT/ATTTATTAAGTTT	GTCGTTGGAGTCTTTG CGAT	TTCACCAATGTTGACC GAA	59.9	452	DRR	Ca_00925	--	--
Ca3_P2_36205967	Ca3	36205967	GT/GTCT	GCATGGCATCAACAAG AATG	CATCAGAAGTCTGTTG CCGA	60.0	467	DRR	Ca_00925	--	--
Ca3_P2_36207336	Ca3	36207336	T/TGTTGGCAATTC	TACCCCATAGTCATCC CAA	CAACTCCAGTGGTTTC GTCA	59.7	532	INTRON	Ca_00925	--	--
Ca3_P2_36207565	Ca3	36207565	CTTT/CTTTT	TCCCTAGAGGCTATGT CCCA	GTTCAAACCTCGTTGC CTCC	59.7	836	INTRON	Ca_00925	--	--
Ca3_P2_36207784	Ca3	36207784	GA/GAA	TGGGTTCAATGACCACA TCA	GTTCAAACCTCGTTGC CTCC	59.7	237	INTRON	Ca_00925	--	--
Ca3_P2_36208259	Ca3	36208259	CTT/CTTACATATAATTTT	GAGGCAACGAAGTTTG AACC	GGTTTCGTCGCTGTTT GAGT	60.2	675	INTRON	Ca_00925	--	--
Ca3_P2_36218021	Ca3	36218021	TG/T	TTGATGTCTCCCAAG CTG	TAATCAGATGATCGCG CAAG	59.9	480	INTRON	Ca_00927	--	CO-like
Ca3_P2_36218063	Ca3	36218063	CAAAAAAAAA/CAAAAAAAAA	TTGATGTCTCCCAAG CTG	TAATCAGATGATCGCG CAAG	59.9	480	INTRON	Ca_00927	--	CO-like
Ca3_P2_36219342	Ca3	36219342	GTTT/GTT	CATGTGGCGAAGAGAG TGAA	GTATTCCTTTGGGCG TGAA	59.9	531	INTERGENIC	--	--	--
Ca3_P2_36219993	Ca3	36219993	TCA/T	TTCACGCCAAAGGAA ATAC	ACCGGTGATGACTCCA GTTC	60.0	757	DRR	Ca_00928	--	--
Ca3_P2_36222692	Ca3	36222692	AA/AAGTGGTCTCA	AGGAAATTCGATTGGCT GTG	ACGCTTGCTGATTCCA GAGT	60.0	761	INTRON	Ca_00928	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36226234	Ca3	36226234	AATAGAT/AATAGATAGAT	TGGAGCCCATCGAAAT AAAG	CCACATGGTGAAGAGC AGAA	59.8	729	INTERGENIC	--	--	--
Ca3_P2_36226493	Ca3	36226493	ATTTTT/ATTTTTTT	GTTGAGTTTGTGGAA TGGG	GTTCCATTTCGATTTC GTG	60.3	532	INTERGENIC	--	--	--
Ca3_P2_36226833	Ca3	36226833	CGAGGAGG/CGAGG	CACGAAATCCGAAATG GAAC	TTGTTTGCTCTGATTT GGAGA	59.9	537	INTERGENIC	--	--	--
Ca3_P2_36228493	Ca3	36228493	AA/AACA	CAGAAGTTGCAGCACA AGGA	ATCATCACAGCACATC CTGC	59.7	588	INTRON	Ca_00929	J	--
Ca3_P2_36230517	Ca3	36230517	T/TG	TGGGACAATTGTTAGCA CGA	TCCAAAGGAAAGGAC TGGA	59.6	372	DRR	Ca_00929	J	--
Ca3_P2_36230990	Ca3	36230990	T/TA	TCCAGTCTTTCTTTT GGA	TGAGTTAAAGGACCAC ATGCC	60.0	353	DRR	Ca_00929	J	--
Ca3_P2_36231579	Ca3	36231579	ACTCTCT/ACTCT	TCGAATTTTAAACAA AACCCA	TTAAACCAGTTCGGTT CGG	60.0	717	DRR	Ca_00929	J	--
Ca3_P2_36234537	Ca3	36234537	GAAAAA/GAAAAAA	ACCACACCTTTTCAGA TGC	TCTGCTGGTTTGGAG TTCT	59.8	157	INTERGENIC	--	--	--
Ca3_P2_36236307	Ca3	36236307	CTAAA/CTAAATAAA	GCCGTTGAAAAATTGTG GTT	ATGTTGATTCCAGCC ACTC	59.9	239	DRR	Ca_00931	O	--
Ca3_P2_36238941	Ca3	36238941	CTTTTT/CTTTTT	CCGCTTCAGAATCATG GAAT	GTGGAAACGATTTC TTCA	59.5	292	INTERGENIC	--	--	--
Ca3_P2_36240433	Ca3	36240433	TAAAAAAA/TAAAAAAA	TTGTTTTGAATTTGGG CAG	TTCCAAATCTCACCAT TCATT	58.4	859	INTERGENIC	--	--	--
Ca3_P2_36241653	Ca3	36241653	CC/CCAC	TTCGCAGAAAACTATG CCC	TCCGTATTCTGAATTTGA GACAA	59.6	808	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36246782	Ca3	36246782	ATTTTTTTTT/ATTTTTTTTTT	TCATTTTGAGCGTTT GACA	CATGCTGTATGCTTAG GCCA	59.9	577	DRR	Ca_00932	TO	--
Ca3_P2_36249313	Ca3	36249313	A/AT	TTCCATCTATTGGTTC GCC	GGATAGCGGATTTTC GGAT	60.2	578	DRR	Ca_00933	O	--
Ca3_P2_36250776	Ca3	36250776	AAATAATAATAATAATAA/AAATAAT AATAATAATAA	GCAAAGCCAAACCGCT ATAA	AACGCTAACGTTGGTT CCAC	60.0	935	DRR	Ca_00933	O	--
Ca3_P2_36252617	Ca3	36252617	T/TTGCTAGTATAA	TCAATTTGGGAATCCCT TGA	CCATCCAAACACCATTT CCT	59.6	420	INTERGENIC	--	--	--
Ca3_P2_36254231	Ca3	36254231	GTTTTTTTTT/GTTTTTTTTTT	TGCCGATGTAATCTACC GAA	CGCCATTAGAAGTGGG AAAA	60.1	652	DRR	Ca_00934	O	--
Ca3_P2_36255251	Ca3	36255251	TAAAAAAAAA/TAAAAAAAAA	CCTAACGCATATGCCAA GGT	TATTCGTCAACAAGGG AGGG	59.9	631	DRR	Ca_00935	--	--
Ca3_P2_36255389	Ca3	36255389	GAAA/GAA	CCTAACGCATATGCCAA GGT	TATTCGTCAACAAGGG AGGG	59.9	631	DRR	Ca_00934	O	--
Ca3_P2_36257643	Ca3	36257643	GTTTTTTTTTTTTT/GTTTTTTTTTTT	ACAGACACACACATTG GGA	ATGGTGCCATGAAGAA GGAA	60.5	721	DRR	Ca_00936	--	MYB_related
Ca3_P2_36274255	Ca3	36274255	G/GCAACAT	TGGGTTTTTCATTGTTT GGT	AAGCCGACTTCAAGAA GGAC	58.5	419	DRR	Ca_00937	J	Dof
Ca3_P2_36274277	Ca3	36274277	T/TA	TGGGTTTTTCATTGTTT GGT	AAGCCGACTTCAAGAA GGAC	58.5	419	DRR	Ca_00937	J	Dof
Ca3_P2_36279811	Ca3	36279811	CTTTTTTTT/CTTTTTTTTT	GCTTAAGGCTGACAC CCGA	TGGAAACATTCTAGGC CGTC	60.1	607	INTRON	Ca_00938	R	--
Ca3_P2_36282822	Ca3	36282822	TGCT/TGCTGTTTGGCT	AGGTCCATGCCAGTGA AAAC	AAGTTGCTCATGGATC GGTT	59.6	363	DRR	Ca_00938	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36283526	Ca3	36283526	ATTTTTTTTT/ATTTTTTTTTTT	GCGGTCGTGTGACAGG TACT	TCTTATGCCGTTTCTC TCG	60.2	654	DRR	Ca_00938	R	--
Ca3_P2_36286597	Ca3	36286597	ATTTTTTT/ATTTTTTTTT	TCATTTTGGCACTTAC CACC	TGCCTGAATTTATTGG GAATG	59.8	754	INTERGENIC	--	--	--
Ca3_P2_36286847	Ca3	36286847	AACA/AA	TGTGGGATAAGAAAA GACACG	CGGGCATTAGAGATCC ACAT	59.9	581	INTERGENIC	--	--	--
Ca3_P2_36288728	Ca3	36288728	TAAAAAAA/TAAAAAAA	TCGTCGAAAAACGTGA AAA	TCTTGGTCGTGTCCAT GAAA	60.1	707	INTERGENIC	--	--	--
Ca3_P2_36290289	Ca3	36290289	TAAAA/TAAAA	CACCAAGACGGAACA CAAA	ATCAAAGCGAATTTT GAGA	57.4	408	INTERGENIC	--	--	--
Ca3_P2_36291284	Ca3	36291284	GTT/GT	TCAGAGTTTATTTACCC CACTCAA	GGTTTGGTTCCTTCGG TTTT	60.2	562	INTERGENIC	--	--	--
Ca3_P2_36295270	Ca3	36295270	TTGTTTTCATGTTT/TTGTTT	TGTAGAGAACGGAAT GGGG	TAAGTGCGCAGGATT GAAC	60.1	593	INTRON	Ca_00939	--	--
Ca3_P2_36299818	Ca3	36299818	AT/ATTT	ACCATGTTATTGCTGCA CGA	TGGCAAAATTCACATCC TGA	60.0	492	INTRON	Ca_00939	--	--
Ca3_P2_36303469	Ca3	36303469	GTTTTTTTTT/GTTTTTTTTT	GCAAACATGGTAATTG GCA	CAAAAATTGTCACGTC GGTG	60.0	469	INTERGENIC	--	--	--
Ca3_P2_36307893	Ca3	36307893	T/TCTACTAATC	CGTAAATAGCAGTGTT GTTTCG	TCTGCTGTATCAAGTG GCAAA	59.5	573	INTERGENIC	--	--	--
Ca3_P2_36308195	Ca3	36308195	T/TC	TTTGCCACTTGATACAG CAGA	TTGAACCTAAACGATGA CACCTT	59.9	309	INTERGENIC	--	--	--
Ca3_P2_36308619	Ca3	36308619	GTTTTTT/GTTTTTTTT	TTTGCCACTTGATACAG CAGA	GAGACCCGAGTTTGGT TTCA	60.1	835	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36312854	Ca3	36312854	AAA/AAATTAAGTAA	CTATGCACGAGTTGG GGTT	CAATCAAGAAGCGCAT TGAA	60.0	586	DRR	Ca_00941	D	TCP
Ca3_P2_36318491	Ca3	36318491	AATAT/AAT	TTGATTTCACGGTTA CCA	TATTCAAATAGCGGCC ATCC	59.9	607	INTRON	Ca_00941	D	TCP
Ca3_P2_36320561	Ca3	36320561	CTTTTTTT/CTTTTTTTTTT	GTCTCAAGCAATCCTCA GCC	CAACGAGAGAGTGGAT GGGT	60.1	442	INTRON	Ca_00941	D	TCP
Ca3_P2_36320888	Ca3	36320888	CAAAAAAAAA/CAAAAAAAAAA	ACCCATCCACTCTCTCG TTG	TTTTCTTATGCAAGGCC AGC	60.3	417	INTRON	Ca_00941	D	TCP
Ca3_P2_36324338	Ca3	36324338	TTTCT/TT	CAACAGGCCAACATAAA ATGA	GGAATGTTTCATGGAC ACCC	60.0	330	INTERGENIC	--	--	--
Ca3_P2_3632559	Ca3	3632559	ATTTTTTTTTTTT/ATTTTTTTTTTTT	TTTGAGTCTAACCCGAA CCAA	GTGGGGTAGGCAGAGA CAAA	60.1	765	INTERGENIC	--	--	--
Ca3_P2_36327376	Ca3	36327376	ATTTTTTT/ATTTTTTT	TCAAATTTGCAAGTTG GTCC	TTGTTTTCCCCCAATTC TTG	59.8	504	INTERGENIC	--	--	--
Ca3_P2_36327903	Ca3	36327903	ATTTTTTTTT/ATTTTTTTTTTTTTT	CAAGAATTGGGGGAAA ACAA	ATACATCTCGCCACAAT GGG	60.7	296	INTERGENIC	--	--	--
Ca3_P2_36328591	Ca3	36328591	GAA/GAA	CACGATGAAATCACTAT GAAAAGC	CGTTCAGACCTCCAT TGTT	60.0	440	INTERGENIC	--	--	--
Ca3_P2_36340133	Ca3	36340133	A/AGTAGAGATATAATTG	TAGCCCGTCACAATTA GGG	CTCTTTCTTCCCTCCG CTC	60.5	910	DRR	Ca_00942	--	HB-other
Ca3_P2_36344189	Ca3	36344189	GCCC/GCC	GGCCTTTTGATCCTCTA GGC	TGCAATTTTATCACAT CCCC	59.7	777	DRR	Ca_00943	R	C2H2
Ca3_P2_36344245	Ca3	36344245	CATAT/CAT	GGCCTTTTGATCCTCTA GGC	TGCAATTTTATCACAT CCCC	59.7	777	DRR	Ca_00943	R	C2H2

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_36351449	Ca3	36351449	TA/TAA	AAGACCAACATTGGGG ACAA	CGATTCAAGTGTGCGA TGTC	60.3	473	INTERGENIC	--	--	--
Ca3_P2_36351563	Ca3	36351563	TAAAAAA/TAAAAAA	AAGACCAACATTGGGG ACAA	GCCTGCAATGAACCGT AAGT	60.1	873	INTERGENIC	--	--	--
Ca3_P2_36352882	Ca3	36352882	AT/ATT	TCACCTCGAGCAACAA GTG	AAGCACCATTGTAGTT TTCATGT	59.0	380	INTERGENIC	--	--	--
Ca3_P2_36355454	Ca3	36355454	GTT/GT	TTTTGGCACTGGGATCT TTT	CCGGCCTCCTTAACAA ACTA	59.2	795	DRR	Ca_00944	--	--
Ca3_P2_36356666	Ca3	36356666	CAAAAAAAAA/CAAAAAAAAA	ATTTAAAGTCACGCGG AGC	TCCAGGTATGCGGTAG TTCC	60.0	373	DRR	Ca_00944	--	--
Ca3_P2_36362238	Ca3	36362238	CATTAAATTAATTAATT/CATTAAATTA ATTAATTAATTAATT	GAAATCGACCTGGGG AAAT	GATCGTCGTTTCTT GCTC	60.1	289	INTERGENIC	--	--	--
Ca3_P2_36363400	Ca3	36363400	ATTTTTTT/ATTTTTTT	CAATGCATATGGACGG AATG	GACGACAAAGGATATT CATGAGC	60.0	352	DRR	Ca_00945	--	NF-X1
Ca3_P2_36369683	Ca3	36369683	AATA/AA	TTTTCTGTATCGGCCAT TCC	GGAATCTGCATTTTCT CCA	60.2	660	INTRON	Ca_00945	--	NF-X1
Ca3_P2_36371742	Ca3	36371742	ATTTTTTT/ATTTTTTT	GGGTTTCTAGTCCCC CAAG	TGTTTTTCATTATGTG CCG	59.4	483	INTERGENIC	--	--	--
Ca3_P2_36371828	Ca3	36371828	GT/GTTAT	GGGTTTCTAGTCCCC CAAG	TGTTTTTCATTATGTG CCG	59.4	483	INTERGENIC	--	--	--
Ca3_P2_36372036	Ca3	36372036	TAAAAAA/TAAAAAA	GGGTTTCTAGTCCCC CAAG	TGTTTTTCATTATGTG CCG	59.4	483	INTERGENIC	--	--	--
Ca3_P2_36377150	Ca3	36377150	GAAAAAAA/GAAAAAAA	TGAAAAACAATCGTGGT GGA	AGGCAACACATGAAA AGGG	60.0	565	INTRON	Ca_00946	D	WRKY

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36381407	Ca3	36381407	ATTTTT/ATTTTTTT	TTTGTGAGCGCATTT GTG	CCATGCTTCCCACGTC TAAT	60.0	352	INTERGENIC	--	--	--
Ca3_P2_36383257	Ca3	36383257	A/AC	CACAATGACCACCAAA TCG	GCACCCATCATACGTG TCAG	60.0	436	INTERGENIC	--	--	--
Ca3_P2_36383999	Ca3	36383999	AT/ATGTTT	TGGCACTGTTTTGGTCT TTG	TGGACCCAAAATTTC CATA	60.0	605	INTERGENIC	--	--	--
Ca3_P2_36393062	Ca3	36393062	TC/TTTTTTCC	TTCAAGAATTACGGGC TGG	CCACCAGTCAGGCCAA TAAT	59.8	585	INTERGENIC	--	--	--
Ca3_P2_36396966	Ca3	36396966	AAAATT/AAAATTCAAATT	CTCACATCTGATCGAAG GCA	ACTGTAACCTTGTGCT CCCG	60.2	332	INTRON	Ca_00950	P	--
Ca3_P2_36397163	Ca3	36397163	TTATATATAT/TTATATATATAT	CTCACATCTGATCGAAG GCA	TGCAGCAGCAGAACCA TTAC	60.0	708	INTRON	Ca_00950	P	--
Ca3_P2_36398787	Ca3	36398787	T/TC	GTTTGGCCATTTGCAAC TTT	ACGATGTGTGGCCCAA TTAT	60.1	545	DRR	Ca_00950	P	--
Ca3_P2_36399143	Ca3	36399143	ATTTTT/ATTTTTTT	ATAATTGGGCCACACAT CGT	TGCAATGTGGAATCA GAGAA	59.3	208	DRR	Ca_00950	P	--
Ca3_P2_36399524	Ca3	36399524	T/TG	ATAATTGGGCCACACAT CGT	AACAAGCAAGCGCAAC ACTA	59.7	712	DRR	Ca_00950	P	--
Ca3_P2_36400923	Ca3	36400923	TAAA/TAAAA	TCCTGAACAAGCTTCC GAGT	CAAGCTTGCCAATGTT CAAA	59.8	434	INTRON	Ca_00951	H	--
Ca3_P2_36400979	Ca3	36400979	TTATA/TTATATA	TCCTGAACAAGCTTCC GAGT	CAAGCTTGCCAATGTT CAAA	59.8	434	INTRON	Ca_00951	H	--
Ca3_P2_36408046	Ca3	36408046	AATATATATA/AATATATATATA	TTAGGAATGCCTTGCTT GCT	CTGTGTCTGGGCCCTT AAAA	60.1	727	DRR	Ca_00952	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36410216	Ca3	36410216	ACCCCCC/ACCCCCC	CGGAAATGTCATGTG GGTC	ATGTTTGCCACTTGCT CCC	60.0	458	DRR	Ca_00953	--	HSF
Ca3_P2_36410249	Ca3	36410249	GAAAAAAAAA/GAAAAAAAAA	CGGAAATGTCATGTG GGTC	ATGTTTGCCACTTGCT CCC	60.0	458	DRR	Ca_00953	--	HSF
Ca3_P2_36410296	Ca3	36410296	GTTTTTTT/GTTTTTTTTT	ATGGTTGTTTCATCGTC CAT	ATGTTTGCCACTTGCT CCC	60.0	126	DRR	Ca_00953	--	HSF
Ca3_P2_36414062	Ca3	36414062	TGG/TGGG	GATGCGCTATCCAAC TTAC	GCCGCCACATATCAT TTAT	59.6	659	INTRON	Ca_00954	G	--
Ca3_P2_36416411	Ca3	36416411	CAAAAAAAAA/CAAAAAAAAA	AGGAGTTTTCGGTGAC ATGG	CATCGAGGTTTCTGCT CAT	60.1	623	INTRON	Ca_00954	G	--
Ca3_P2_36418781	Ca3	36418781	GAAAA/GAAA	TCTCCTTACCACATCG GTC	ACGTAGAAACAATGGC CGTC	60.0	929	INTRON	Ca_00954	G	--
Ca3_P2_36420292	Ca3	36420292	GGAGC/G	TGTTTTTCGCTCATCCA TTG	TGGTAGAAATCACGAT GCCA	60.1	710	INTERGENIC	--	--	--
Ca3_P2_36420971	Ca3	36420971	AATATATATATAT/AATATATATAT	TGGCATCGTGATTCTA CCA	GGCCATGGTGATTGTA AAGG	60.2	746	INTERGENIC	--	--	--
Ca3_P2_36422241	Ca3	36422241	ATTTT/ATTT	GTGGACCTTCCAAGGA TGAA	CGTTGTTTGAGGTTTG CTGA	59.9	895	INTERGENIC	--	--	--
Ca3_P2_36426774	Ca3	36426774	TAGATGAAGATGAAGATGAAGATGA/TA GATGAAGATGAAGATGAAGATGAAGAT GA	TCAAAGGAAGCTTAGC CCAA	GCAACGCTTCTCTG TTTC	60.0	861	CDS (large-effect mutations)	Ca_00956	GM	WRKY
Ca3_P2_36427924	Ca3	36427924	CAATATAAAT/CAATATAAATATAAAT	TGGCCCTTTATCACAA TCA	TTTTGGTTGTTCAATC GCA	60.1	493	INTERGENIC	--	--	--
Ca3_P2_36429101	Ca3	36429101	TAAAAA/TAAAAA	CCATCTTGCGAAATGTG AAG	AAATTTAACGACGCTCC ACG	60.1	397	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36429786	Ca3	36429786	G/GA	AGGGATGCACCACTG TAAC	AGAGAAGAAACCTGGT GCGA	60.0	593	INTERGENIC	--	--	--
Ca3_P2_36429931	Ca3	36429931	GCTTCTTCTTCTTCTTCT/GCTTCTT CTTCTTCTTCTTCTTCTTCT	AGGGATGCACCACTG TAAC	AGAGAAGAAACCTGGT GCGA	60.0	593	CDS (large-effect mutations)	Ca_00957	H	--
Ca3_P2_36431158	Ca3	36431158	CT/CTGTT	CCCATTGCTGTATTG CCT	TAGTCCAACCAATCT CCA	60.3	530	INTRON	Ca_00957	H	--
Ca3_P2_36431342	Ca3	36431342	TTG/TGAACTG	CCCATTGCTGTATTG CCT	TTGCATCAGGCTTGTA CCTG	59.9	694	INTRON	Ca_00957	H	--
Ca3_P2_36435267	Ca3	36435267	T/TAACACAG	CGAAAAATTCCTGAACC ATCC	AAGGTGGAGGAGGGAA AAGA	60.0	787	DRR	Ca_00957	H	--
Ca3_P2_36439660	Ca3	36439660	TACCAACCAACCAACC/TACCAACCAAC CAACCAACC	TAATGGGGCCAGTTTG CTAC	TAAGGAAAATACCGGA CGCA	60.4	441	DRR	Ca_00959	R	--
Ca3_P2_36443024	Ca3	36443024	TGAGAGA/TGAGA	TTGCAATTGAAGTTCCC ACA	GGCAAGCTCATTTCTG CTTC	60.1	427	INTRON	Ca_00959	R	--
Ca3_P2_36443050	Ca3	36443050	ATG/A	TTGCAATTGAAGTTCCC ACA	GGCAAGCTCATTTCTG CTTC	60.1	427	INTRON	Ca_00959	R	--
Ca3_P2_36443105	Ca3	36443105	GCATCAT/GCAT	TTGCAATTGAAGTTCCC ACA	GGCAAGCTCATTTCTG CTTC	60.1	427	INTRON	Ca_00959	R	--
Ca3_P2_36446380	Ca3	36446380	CAAAAA/CAAAA	TTTCCGCATAGAAATC GGG	ATCCCAAATTGCACCTA TCC	59.8	407	DRR	Ca_00960	O	--
Ca3_P2_36447416	Ca3	36447416	AGCTGC/AGCTGCTGC	GGACACCAACGCTCC ACTT	GAGCAAGAAGTGTCGA AGCC	60.1	210	CDS (large-effect mutations)	Ca_00960	O	--
Ca3_P2_36454087	Ca3	36454087	CGAT/CGATCATATTGGAT	TGATTCGGTTGTGCTG TGT	CGTGACAGCCCATAGT TGAA	59.7	931	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
Ca3_P2_36455748	Ca3	36455748	AC/AGTTTTACTCTTAATACATC	TCAAATTACAACAAGG CGA	CGTAAGGGAGCAAAGT GGTC	59.7	792	INTERGENIC	--	--	--	--
Ca3_P2_36455997	Ca3	36455997	GTAAATTT/GTAAATTTGTTTATAAATTT	ATTAACCACTTTGCCGA CGA	GACGCAACAACGTAAG GGAG	60.7	532	INTERGENIC	--	--	--	--
Ca3_P2_36456355	Ca3	36456355	AATTTTTTTT/AATTTTTTTTAAATTTTTTTT	GACCACTTTGCTCCCTT ACG	AAGTCTCAAAACAAACCA CCGA	59.6	585	INTERGENIC	--	--	--	--
Ca3_P2_36458050	Ca3	36458050	AG/A	TGGGTCCAAAAGTGG TATC	CAATTGGCCACTTGA ATGA	59.5	772	INTERGENIC	--	--	--	--
Ca3_P2_36458200	Ca3	36458200	A/ATTCTCAT	TGGGTCCAAAAGTGG TATC	TGTTTTGCAAGGTGAAT TGG	59.6	910	INTERGENIC	--	--	--	--
Ca3_P2_36458326	Ca3	36458326	ATTTTTTT/ATTTTTTTT	TTTGCAAAGTGCGGT AGTT	TGTTTTGCAAGGTGAAT TGG	59.6	525	INTERGENIC	--	--	--	--
Ca3_P2_36458434	Ca3	36458434	GATCAT/GAT	TTTGCAAAGTGCGGT AGTT	ATCAATAATTGGGCAG ACGC	59.9	753	INTERGENIC	--	--	--	--
Ca3_P2_36458751	Ca3	36458751	TAAAAAAAA/TAAAAAAAA	CCAATTCACCTTGCAA ACA	ATCAATAATTGGGCAG ACGC	59.9	248	INTERGENIC	--	--	--	--
Ca3_P2_36460868	Ca3	36460868	ATT/ATTTT	TACAGGAGCCGCTGAG ATTT	TGAAGCGTGGTGCTTC TCTA	59.7	523	INTRON	Ca_00962	--	--	--
Ca3_P2_36465593	Ca3	36465593	A/AAGTT	AAGCGCGTGGTAATA ATGG	AATTCCTCTGCTCACA ATGA	59.7	664	INTERGENIC	--	--	--	--
Ca3_P2_36468870	Ca3	36468870	CAAAAA/CAAAA	TAACCAAAAGGAGGAC AGCG	ATCTTGAAAGATTGGC CGTG	60.1	542	INTERGENIC	--	--	--	--
Ca3_P2_36469879	Ca3	36469879	GAAAAAAAA/GAAAAAAAAA	CGTTAAGAACCAAAAG GGCA	TTGGGAGCAACTTTAC CCAC	60.0	534	DRR	Ca_00964	A	B3	

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36472177	Ca3	36472177	GAAAAAA/GAAAAA	GAGTCCCGCCTTGAAT CATA	GCAGGTACCACTGGGA TTGT	59.9	370	INTRON	Ca_00964	A	B3
Ca3_P2_36472539	Ca3	36472539	TAAAAAAA/TAAAAAAA	GAGTCCCGCCTTGAAT CATA	AGGGGATGTTTGTTC CCC	60.0	627	INTRON	Ca_00964	A	B3
Ca3_P2_36477906	Ca3	36477906	CAAAAAA/CAAAAAA	TGGCATTGCAAAATAGA TGG	ATGTCGTCGGCAATAA CACA	60.0	465	INTERGENIC	--	--	--
Ca3_P2_36480664	Ca3	36480664	T/TG	AAATAGAAGGGGTGT TGGG	AAAGAGTGGATCGCCT CAAA	59.8	164	INTERGENIC	--	--	--
Ca3_P2_36486572	Ca3	36486572	TAAA/TAAAA	AATTCGTGATTTGTG GGG	CCTTGCACTTGGA AGAGA	59.5	713	INTERGENIC	--	--	--
Ca3_P2_36489025	Ca3	36489025	GTT/GT	CGGGAACATGAAAGGA AGAA	ATCCAAATCCAACCCA CAA	60.0	720	DRR	Ca_00965	--	--
Ca3_P2_36490446	Ca3	36490446	TA/TCACA	CAGGGTCACGTGCTCA AAAT	TCCAAGATCAGTTGAC TGCG	60.0	333	DRR	Ca_00965	--	--
Ca3_P2_36497213	Ca3	36497213	C/CTTGTTTTGTATATGG	CGCAGATCCCCATACT TTC	TGTTGAGCTCCCCAA TTTA	60.4	871	INTERGENIC	--	--	--
Ca3_P2_36497594	Ca3	36497594	CAA/CAA	TTATTCTGTCAATGAAC CGCC	TGTTGAGCTCCCCAA TTTA	60.4	178	INTERGENIC	--	--	--
Ca3_P2_36498592	Ca3	36498592	TATAGATA/TATA	TTCTTGACGGGCTGA TTAT	TCAATAATTTCCCATC TCCAA	58.4	577	INTERGENIC	--	--	--
Ca3_P2_36498648	Ca3	36498648	TAC/TACAC	TTCTTGACGGGCTGA TTAT	TTACAGAAATCTCTCA AATGG	59.2	678	INTERGENIC	--	--	--
Ca3_P2_36498881	Ca3	36498881	TC/T	TTCTTGACGGGCTGA TTAT	CATGGGAATAATGCTT GGCT	59.9	709	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36500472	Ca3	36500472	GAT/G	TGGTAGGAAAGCCAAC GAGT	TTTTCAGACGGAAGC TTTT	60.0	708	DRR	Ca_00967	S	--
Ca3_P2_36500819	Ca3	36500819	TAAAAAAAAA/TAAAAAAAAA	ATTTGTGTTTGAACG GGG	TTTTCAGACGGAAGC TTTT	60.0	596	DRR	Ca_00967	S	--
Ca3_P2_36502102	Ca3	36502102	GACTGCAA/GACTGCAACTGCAA	AACCAAGCAACCACAC ACA	TTGCTGCGGATGATGT AGAG	60.0	762	INTRON	Ca_00967	S	--
Ca3_P2_36508250	Ca3	36508250	T/TTC	TTGATTCGTGTGATTGG TATGA	GGCCAACGACTTCCTA TTGA	60.1	130	INTERGENIC	--	--	--
Ca3_P2_36512527	Ca3	36512527	TA/TATACTTAA	TTGCACACTATGCCTTC GAC	CCCCACAAAACCTAT GTTG	60.1	662	DRR	Ca_00968	A	--
Ca3_P2_36516587	Ca3	36516587	GAAAAAAAA/GAAAAAAAA	CTTCTTCTCTCCACGA CCG	TGCCAAATGAAAGATG ACCT	58.1	656	INTERGENIC	--	--	--
Ca3_P2_36518859	Ca3	36518859	TAAAAAA/TAAAAA	TGATCAAGGAGTATCAC GGG	GGAGTCACCTTTTGT GAAGC	58.8	525	INTERGENIC	--	--	--
Ca3_P2_36521786	Ca3	36521786	CTT/CTTGTTATT	TTTGTGGCATTGACACC TTT	TGCGTTCAACTACTATG CCG	59.9	628	INTERGENIC	--	--	--
Ca3_P2_36522315	Ca3	36522315	CAA/CAAA	CGGCATAGTAGTTGAA CGCA	TTGTTCTTGAGGATA GCAAAAA	60.1	381	INTERGENIC	--	--	--
Ca3_P2_36522650	Ca3	36522650	ACCC/ACCCC	TTTTTGCTATCTCCAA GAACAA	CGTCATTGTTTAATT CTTGTG	58.7	465	INTERGENIC	--	--	--
Ca3_P2_36525538	Ca3	36525538	AAT/AAAATCTTTAT	TCCAAGGACTAAAACGT CCAA	TCCAAGAGACTCATC CCAAA	59.7	519	DRR	Ca_00969	--	--
Ca3_P2_36526742	Ca3	36526742	AAA/AAATTAA	AAGTCGCCAACGCAAT AAAC	CTCTTTGTGCAACAG GCAA	60.0	827	DRR	Ca_00970	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36527391	Ca3	36527391	CT/C	GCCATAAATTGTGTTG GGG	AAATTTGCCGTTTGGT GAG	60.0	387	DRR	Ca_00970	--	--
Ca3_P2_36529799	Ca3	36529799	AAAGA/AA	CCCTATCCAACATTGAT GGG	ACCAAAGTGGTGAAC TTGC	60.0	722	DRR	Ca_00971	U	--
Ca3_P2_36530182	Ca3	36530182	T/TC	GATTAGCAGGAGTGC CGAG	TCGGATCGACTCTTTG GAAC	60.2	686	DRR	Ca_00971	U	--
Ca3_P2_36533542	Ca3	36533542	CTTTTT/CTTTTTTT	ACTATTCTACATTTGT TGGGCA	TGCGAACGATGGATGA GTAA	60.2	953	INTERGENIC	--	--	--
Ca3_P2_36550076	Ca3	36550076	CAAAAAA/CAAAAAAAA	TGGGGATCAAACTCT TTCC	CCCAAGTCCAAGTCC AAAA	59.9	579	INTRON	Ca_00973	I	B3
Ca3_P2_36560979	Ca3	36560979	TAAAAAAAAA/TTCAAAAAAAAAA AA	ATCTGATTTGAGCAATG GGC	GGTAAGGCCATTTTGG GTAA	58.8	452	INTERGENIC	--	--	--
Ca3_P2_36565372	Ca3	36565372	T/TATTTA	CGGTACAAGACGTCCA ACCT	TGTATGCAACCACGAG GAAA	60.1	600	INTERGENIC	--	--	--
Ca3_P2_36571020	Ca3	36571020	ATTTTTTT/ATTTTT	TACCGAATCCTTTGTCC TGC	GAGTTTGCGCGTTTAA GAGG	60.0	772	DRR	Ca_00977	--	NAC
Ca3_P2_36573606	Ca3	36573606	GATAT/GAT	CGGATTGTCATGTTTCA TGC	TGATGATGGTTGGAGA TGGA	59.9	598	INTRON	Ca_00977	--	NAC
Ca3_P2_36576249	Ca3	36576249	TAAAAAAAAA/TAAAAAAAAA	CCATACTCAATGCAAAA TCGTT	AGAAAAACATGCGTTG TCCC	60.0	590	INTERGENIC	--	--	--
Ca3_P2_36577180	Ca3	36577180	GAAAAAAAAA/GAAAAAAAAA	AAGGAATTCATGCCTG CAAC	CTTCAATGCTCGACTG CAAG	59.7	309	INTERGENIC	--	--	--
Ca3_P2_36593212	Ca3	36593212	GAAAAAAAAA/GAAAAAAAAA	CAGCAGTATCACCCCA ACCT	TGGAACCCCTTGCTTGA TTTC	60.1	448	INTRON	Ca_00979	M	HB-other

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36596139	Ca3	36596139	GAAAAA/GAAAAA	AAAGTTTTGGCAAGT GGA	AGAGCAAGGAAACGGA ATCA	59.8	596	INTERGENIC	--	--	--
Ca3_P2_36597752	Ca3	36597752	ATTTTT/ATTTTTTT	TTGTTTCGTAGGCGA GACT	TTTCATGCGGTTGTG GTTA	60.0	380	INTERGENIC	--	--	--
Ca3_P2_36597966	Ca3	36597966	TAAAAAA/TAAAAAA	TAACCAACAACCGCATG AAA	TCAATTTCTTAAAGAG GTGGCA	60.1	242	INTERGENIC	--	--	--
Ca3_P2_36608541	Ca3	36608541	T/TA	TGGCTCAAAGATAGGA TGGG	CCCTTCCTCCATCAATC TCA	60.0	315	DRR	Ca_00981	--	--
Ca3_P2_36609637	Ca3	36609637	CATATAT/CATAT	ATTGAAATGCGGGTTCT CAG	TTGATCACAACGAGGA GCTG	60.0	519	DRR	Ca_00981	--	--
Ca3_P2_36609660	Ca3	36609660	CTT/CTTT	ATTGAAATGCGGGTTCT CAG	TTGATCACAACGAGGA GCTG	60.0	519	DRR	Ca_00981	--	--
Ca3_P2_36613694	Ca3	36613694	AT/A	CAGGGGTAAAATCCAC GAGA	GGATGAATGCGAAACT TTTGA	60.1	792	INTERGENIC	--	--	--
Ca3_P2_36614124	Ca3	36614124	TGTA/T	TTGCATTCAAAGTTT CGC	TGTGGCTCAACGAGAG ATTT	58.4	277	INTERGENIC	--	--	--
Ca3_P2_36616040	Ca3	36616040	AAATTGATAATTGAT/AAATTGATAATTG ATAATTGAT	CACCAAGATTCACCTCC GTT	GCATTCTCTCATCCAA AGG	59.6	785	INTRON	Ca_00982	J	bHLH
Ca3_P2_36616270	Ca3	36616270	TT/TTAT	CCTGTGCTTGTTCCA CTTT	CAAACCTCTTTCTCGG CTG	60.0	725	INTRON	Ca_00982	J	bHLH
Ca3_P2_36618059	Ca3	36618059	CAAA/CAAAA	TCCTCTGCCGCTTGATA TTC	ATACTCAGGCCGCCAT CTTT	61.0	587	DRR	Ca_00983	T	--
Ca3_P2_36618106	Ca3	36618106	CAAGAAG/CAAG	TCCTCTGCCGCTTGATA TTC	CCATTTGTTGAACGAC ACCA	60.4	772	DRR	Ca_00982	J	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36624066	Ca3	36624066	ATTTTTTT/ATTTTTT	TCACTCTCCGTCATT TCC	TGTGGTGCAGTGAAA TCAT	60.0	563	INTERGENIC	--	--	--
Ca3_P2_36624385	Ca3	36624385	CAAAAAAAAA/CAAAAAAAAA	TGATTCCACTGCACCA CAT	TGCAACACAACCTCTT TGC	59.9	517	INTERGENIC	--	--	--
Ca3_P2_36624455	Ca3	36624455	ATTTTTTT/ATTTTTTTT	TGATTCCACTGCACCA CAT	TGCAACACAACCTCTT TGC	59.9	517	INTERGENIC	--	--	--
Ca3_P2_36624904	Ca3	36624904	GTTT/GTTTCTTTTTT	TGCAAGGAGTTTGTGT TGC	AACATAAAGAACAGA GCGGAGA	59.4	211	INTERGENIC	--	--	--
Ca3_P2_36625899	Ca3	36625899	TTATTTATTTA/T	ATTTCACTGACTGTGCG CCT	CAACAGGAAGGGGATT AGAAAA	59.5	356	INTERGENIC	--	--	--
Ca3_P2_36627027	Ca3	36627027	CTTTTTTTTTTTTT/CTTTTTTTTTTT	CATGGTGAGTGCCATG TGTT	TTGCGATTACCTCAAAA TTCG	60.1	502	INTERGENIC	--	--	--
Ca3_P2_36636712	Ca3	36636712	CTTTTTT/CTTTTT	CGGATAACACTTGTGTG TGAGTTT	GTCTTTTCTTGATCCCG ACG	59.7	776	INTERGENIC	--	--	--
Ca3_P2_36638153	Ca3	36638153	TG/T	TCGTCAACTCGCAACT ATC	AAAAAGCCAACAATTC TAGAAACA	59.6	487	INTERGENIC	--	--	--
Ca3_P2_36638232	Ca3	36638232	AATTTT/A	TCGTCAACTCGCAACT ATC	AAAAAGCCAACAATTC TAGAAACA	59.6	487	INTERGENIC	--	--	--
Ca3_P2_36639234	Ca3	36639234	TG/T	CAAACAACGCGTGAAA GAAA	TAGTTCGGTTCGGTTC GATT	59.6	735	INTERGENIC	--	--	--
Ca3_P2_36647114	Ca3	36647114	GAAAAAA/GAAAAAA	TGACTTTCGTCCCTCTG CTT	TGTACCAGAATGGATG GCAA	59.9	447	DRR	Ca_00985	U	--
Ca3_P2_36647346	Ca3	36647346	CCTTCTT/CCTT	TGACTTTCGTCCCTCTG CTT	AACGGTCGATAAACGT GGAC	59.9	821	DRR	Ca_00985	U	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36652791	Ca3	36652791	TGGG/TG	TCACAAAGAAAGCCAG CTCA	TCCAGAGCTTTTCATG GCTT	60.0	451	DRR	Ca_00986	--	bZIP
Ca3_P2_36654188	Ca3	36654188	TT/TTAT	TGGCTTCATTATGGGAT TCA	GGCTCCAAAAATAGCC AACTT	59.6	499	INTERGENIC	--	--	--
Ca3_P2_36673352	Ca3	36673352	CAAAAAA/CAAAAAA	GGGGAACAATGAAAAA GACAA	CGTCTTCGAACACTGT GCAT	59.9	855	DRR	Ca_00988	P	GRAS
Ca3_P2_36673542	Ca3	36673542	TATAC/T	TGTTGTTAGCATTACG CTATTC	TTTTTCGACCACAAGA GGT	59.6	408	DRR	Ca_00988	P	GRAS
Ca3_P2_36677699	Ca3	36677699	ATTTT/ATTTT	TCAGACCGTGAACCAA CCA	TAAGTATGGCCTCTT GCCC	61.3	716	DRR	Ca_00989	--	--
Ca3_P2_36678142	Ca3	36678142	CA/CAA	GGGCAAGAGGCCCAT CTTA	AAGAAAAGAAAAATGT TGCGG	59.7	424	DRR	Ca_00989	--	--
Ca3_P2_36678243	Ca3	36678243	GAA/GA	GGGCAAGAGGCCCAT CTTA	AAGAAAAGAAAAATGT TGCGG	59.7	424	DRR	Ca_00989	--	--
Ca3_P2_36681076	Ca3	36681076	A/AT	ATGGAATGCAATTAGG CTGG	AACAACCAACCGAAAG ATGG	59.8	475	INTERGENIC	--	--	--
Ca3_P2_36681303	Ca3	36681303	ATTTTTTTT/ATTTTTTTT	CCATCTTTCGGTTGGT GTT	TAATCCAGCTGTTGG CCTC	60.2	182	INTERGENIC	--	--	--
Ca3_P2_36682375	Ca3	36682375	GTTTTTTTTT/GTTTTTTTTT	ACAAGGATCATTCCT GCC	TTGTCCGAACATCGAT GAAG	59.6	194	INTERGENIC	--	--	--
Ca3_P2_36682594	Ca3	36682594	GTTTTTTTTT/GTTTTTTTTT	TTCATCGATGTTGCGA AAA	CCAACTCGGTTCAITTA CTCG	59.6	536	INTERGENIC	--	--	--
Ca3_P2_36688981	Ca3	36688981	TTCCTTATCTTTATCTTTATC/TTCTTTAT CTTTATCTTTATCTTTATC	AGGGGAGACAACCATA GGCT	GTGATGTGATTGGCTG GTTG	60.0	862	DRR	Ca_00990	O	C3H

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36690698	Ca3	36690698	TAAA/TAAA	TTGTTGTATTGGGCTG GACA	TTGGGGAAAAGAGCTA AATCC	59.6	355	DRR	Ca_00991	--	--
Ca3_P2_36690863	Ca3	36690863	TAAAAAAA/TAAAAAAA	TTGTTGTATTGGGCTG GACA	AAGCATGGAACGTGT GTTG	59.6	769	DRR	Ca_00991	--	--
Ca3_P2_36694628	Ca3	36694628	AATTATTATTATTA/AATTATTATTAT TA	ATGTGGGCGATATAT GAGG	ATTGGGACTGGGAGAG TGTTG	60.0	790	INTERGENIC	--	--	--
Ca3_P2_36695647	Ca3	36695647	A/AAAC	TTTGTTTTCTTCATGG CCC	CAAAATCCTACATTTTG GGATATACA	59.5	649	INTERGENIC	--	--	--
Ca3_P2_36695663	Ca3	36695663	GAAAA/GAAA	TTTGTTTTCTTCATGG CCC	CAAAATCCTACATTTTG GGATATACA	59.5	649	INTERGENIC	--	--	--
Ca3_P2_36697642	Ca3	36697642	ATT/AT	CGACGCATATTTCAAAT GACTT	TCTTTTGCAACAGGTT GGT	60.5	634	INTERGENIC	--	--	--
Ca3_P2_36697708	Ca3	36697708	AC/A	CGACGCATATTTCAAAT GACTT	AGTTGCATGCTTCTTTT GGC	60.4	645	INTERGENIC	--	--	--
Ca3_P2_36699656	Ca3	36699656	TTAT/TTATAT	TGCCGTATAATCATGCA ACC	TGTGTGTTTGTGAATCT TAGCG	58.9	759	INTERGENIC	--	--	--
Ca3_P2_36700703	Ca3	36700703	T/TTG	AATTGGCTATGGTTGCT TCG	CCATTGACCCGAAACA TATTC	59.1	462	INTERGENIC	--	--	--
Ca3_P2_36702095	Ca3	36702095	GTTTTTTTTT/GTTTTTTTTT	ACGTCAATGGCAGTGT GTGT	CGGAATTTGAATCCAC GACT	59.9	634	INTERGENIC	--	--	--
Ca3_P2_36706321	Ca3	36706321	GTATATATATA/GTATATATA	TAAATTGTGGGTTAGGC GGA	CGTCCAACCTCGTAAC TGGT	60.3	513	INTERGENIC	--	--	--
Ca3_P2_36707043	Ca3	36707043	CT/C	CTCCTCCCAGTGGTAA CAAA	CAGTGAAAAATTGAATC CCCA	59.8	595	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_36707318	Ca3	36707318	TA/TAAA	CAAAACAGTTTGGGG ATTCA	CATTTGACCTTACGTCC ATCC	59.3	502	INTERGENIC	--	--	--
Ca3_P2_36707636	Ca3	36707636	TTTTATTATT/TTTTATTATTATTAT T	CAAAACAGTTTGGGG ATTCA	GATGATGGAAGGGGAT GAGA	59.8	868	INTERGENIC	--	--	--
Ca3_P2_36707907	Ca3	36707907	ATTTTTTTT/ATTTTTT	TGGACGTAAGGTCAAA TGGA	GATGATGGAAGGGGAT GAGA	59.8	384	INTERGENIC	--	--	--
Ca3_P2_36710235	Ca3	36710235	TAT/TATCAT	GCCAACACAAAATCGA TCC	CTGTTCTCCACGTCGG ATTT	60.1	370	INTERGENIC	--	--	--
Ca3_P2_36712698	Ca3	36712698	CA/C	AGTGCTGGAGGCTGTG TTTT	TCTCTTCCCAGGTGCT GACT	60.0	329	INTRON	Ca_00995	O	MYB
Ca3_P2_36713875	Ca3	36713875	CAAAA/CAAAAAA	TGAGAAAGGCATGCAA GATG	AACGCATCCAGTGATC AACA	60.1	568	INTRON	Ca_00995	O	MYB
Ca3_P2_36716843	Ca3	36716843	GC/G	TTTTATTGAGGGGTGA CCG	GATGGATTGGTCGTGA GGTT	59.8	554	DRR	Ca_00995	O	MYB
Ca3_P2_36723949	Ca3	36723949	C/CTA	CCTCCCGTCCTTGTGAT CTA	AAGAACGTGGGTTTGG TTTC	58.9	385	DRR	Ca_00996	--	--
Ca3_P2_36725525	Ca3	36725525	TA/T	CTGTGGCAGATCCCAA ACTT	GGGAATCCGATTACC CTTT	59.1	329	INTERGENIC	--	--	--
Ca3_P2_36730803	Ca3	36730803	ATGT/A	CGGTAACGTGCAAAAG AAAT	GATTAATTGAGTTGAA AGGCTTG	58.5	584	DRR	Ca_00997	--	--
Ca3_P2_36732284	Ca3	36732284	TGCAGCAGCAGCAGCA/TGCAGCAGCA GCAGCAGCAGCA	CCCTTTCGCATTTGTT TGT	ACAGAGGTTGGGTTCT GGTG	60.0	624	CDS (large-effect mutations)	Ca_00997	--	--
Ca3_P2_36735770	Ca3	36735770	AATAAATAAATAAATAAATAAATA/ AATAAATAAATAAATAAATA	TACGTGGCCTATTAGGT GGC	GCATATGGTGATTGCT GACTCT	59.2	648	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_36735874	Ca3	36735874	TAAAAAA/TAAAAA	TACGTGGCCTATTAGT GGC	CGGCGGAGTCAGGTAA TAAA	60.1	834	INTERGENIC	--	--	--
Ca3_P2_36735945	Ca3	36735945	AT/ATT	TACGTGGCCTATTAGT GGC	ATGGGTAACCGGTGT ATCA	59.9	874	INTERGENIC	--	--	--
Ca3_P2_36737503	Ca3	36737503	GTTTT/GTTTTT	TTGATGAAGCAAATTCG GAG	AATTGTGGGTCAATG GAAA	60.0	237	INTERGENIC	--	--	--
Ca3_P2_36751775	Ca3	36751775	C/CCTATTAACAAGGAAA	TAACATCCATGGCCTCA CAA	CGGTTTGCTCTTGGAT AATGG	59.3	835	INTRON	Ca_00998	--	C2H2
Ca3_P2_36752313	Ca3	36752313	AT/ATT	ACGAATCAACTGGCCT ACG	GTTGAAGGTGGCTGCT TGTT	60.3	429	INTRON	Ca_00998	--	C2H2
Ca3_P2_36752520	Ca3	36752520	AAGTAGTAGTAGTA/AAGTAGTAGT AGTAGTAGTA	ACGAATCAACTGGCCT ACG	AGGCAATGTACAATG GAGG	59.8	602	INTRON	Ca_00998	--	C2H2
Ca3_P2_36752957	Ca3	36752957	GTTTTTTTT/GTTTTTTTTT	ACAACCTGCGCAATTTT ACC	TCCTCAGCAACTTGCA CAAC	60.0	305	INTRON	Ca_00998	--	C2H2
Ca3_P2_36753275	Ca3	36753275	TTTTTAATGAATTTTAAATG/TTTTTTAA TG	ACAACCTGCGCAATTTT ACC	TGCGAACCAACCAATT ATGA	59.9	632	INTRON	Ca_00998	--	C2H2
Ca3_P2_36756795	Ca3	36756795	TAAAAA/TAAAAA	AAGTGCTTGTGCTGG AGTG	TCGTGCATCTACAAA CAAAA	59.4	529	INTERGENIC	--	--	--
Ca3_P2_36756835	Ca3	36756835	ATTATATTTTATTTATATTTT/ATTATA TTTT	AAGTGCTTGTGCTGG AGTG	TCGTGCATCTACAAA CAAAA	59.4	529	INTERGENIC	--	--	--
Ca3_P2_36761612	Ca3	36761612	CAAAAA/CAAAAA	CAATTTTGTGGGTGG GAC	CCGAATTTAAGCATTTG GGA	59.9	918	INTERGENIC	--	--	--
Ca3_P2_36763028	Ca3	36763028	CTTT/CTTTT	ATGCAATGGGAAATGG TGTT	TACGGGTGGAAATGTG TTCA	59.8	589	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_36763413	Ca3	36763413	T/TA	TGGTTTGGTTGTTGGAT CTG	TCAAAACAACCTCTACC GGG	60.0	864	INTERGENIC	--	--	--
Ca3_P2_36768622	Ca3	36768622	GAAAAAAAA/GAAAAAAAAA	CCACATGCAACAAAAT TCA	CAAGGTTTTCCACAATT TTCC	58.5	843	INTERGENIC	--	--	--
Ca3_P2_36772130	Ca3	36772130	ATTTTT/ATTTT	GCTTTGCACCCTCTTT ATCC	GAGGCATTGGTGATG GTTT	59.8	128	INTERGENIC	--	--	--
Ca3_P2_36773167	Ca3	36773167	TATATAAATA/TATATA	ATTTGCTTCTTCACA CGG	GGCACGGTTGAAATTA ACGA	60.9	752	INTERGENIC	--	--	--
Ca3_P2_36834412	Ca3	36834412	GTTTTT/GTTTTTTT	GTACCTCCACCCCAT TTT	GGAAGTTCCGGAATA CATTTT	59.6	597	DRR	Ca_01008	K	GRAS
Ca3_P2_36888821	Ca3	36888821	CATATATATATATATATATATAT/CAT ATATATATATATATATATATAT	TGATGTCACTGGTGCT GAAA	TTTCAAGGCTGCACC GTAT	60.6	499	INTRON	Ca_01015	O	--
Ca3_P2_36932559	Ca3	36932559	GAAAAAAAAAAAA/GAAAAAAAAA	GTTACGATTTTCATTGG CGA	CTTTGGTATGTTGGGC CTGT	59.9	917	DRR	Ca_01018	--	WRKY
Ca3_P2_37017817	Ca3	37017817	AATATATATATATATATATATATAT ATATATA/AATATATATATATATATATA TATATA	CAGAAGGCCAGGAGAA GAAA	TGTGCGTGAAATTTC TGGT	60.2	707	INTERGENIC	--	--	--
Ca3_P2_37030222	Ca3	37030222	AATATATATATATATATATATATA/A ATATATATATATATATATATATA	GAAAAGCCCATTTGTC TCG	AAAGGTTTGAAATGG ATGGTC	59.2	593	DRR	Ca_01031	G	C3H
Ca3_P2_37033553	Ca3	37033553	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATAT ATATAT	TGGGCATTGACAGTT GAAA	TGGTGAAAGGATTATT GGCA	60.3	454	INTRON	Ca_01031	G	C3H
Ca3_P2_37082941	Ca3	37082941	TAAAAA/TAAAAA	GACTCCACCTCCCTTT CTT	GAAAATTTGTTGGACG GCAT	59.8	465	DRR	Ca_01034	R	--
Ca3_P2_3712839	Ca3	3712839	TCC/T	TGACACACCCACCCAC TAAA	GACTGAGATGATGATT CACTTTGC	60.1	520	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_37594905	Ca3	37594905	TTATATATATATATATATATATAT/TTAT ATATATATATATATATATATATA	GTCCGCCCTAAAAAGG TAGC	TCAAAACACCACATCAA AACG	59.5	188	INTERGENIC	--	--	--
Ca3_P2_3777233	Ca3	3777233	CAATAATAATAATA/CAATAATAATA ATAATAATA	TCTCTGGCAACCGTTCT TCT	GAGCTGTGCTTGGCA ATCA	60.0	594	DRR	Ca_21336	--	--
Ca3_P2_37875029	Ca3	37875029	GT/GTT	ATGGCGTGACTGAACA TGAA	AAGGGCAAGATCCCAA AAAC	60.3	672	INTERGENIC	--	--	--
Ca3_P2_3798409	Ca3	3798409	ATAGTA/ATA	AATTTGAAGCCACTGCT GCT	AGCATCTCCCTTCAAAA GTCA	58.9	753	INTERGENIC	--	--	--
Ca3_P2_37989883	Ca3	37989883	GTATATATATATATATATA/GTATATA TATATATATATATATATATA	TGTCACGGGTGGACAA ATTA	TAGGCGATTGTAGGGC TTTG	60.2	749	INTERGENIC	--	--	--
Ca3_P2_37991623	Ca3	37991623	TAAAAAAAA/TAAAAAAAAA	TAGATTCGCCACGAGTC CAG	TGGTAGCGGACAATTT TTGTT	60.4	793	DRR	Ca_01140	--	--
Ca3_P2_38009510	Ca3	38009510	GTTTTTTTTT/GTTTTTTTTT	TTCATGGATCAATAAAA TTAGATAGGC	TAACCGAAATCGGAA GTCG	60.1	577	INTERGENIC	--	--	--
Ca3_P2_3803273	Ca3	3803273	CTATTATTATTATTATT/CTATTATTA TTATTATTATTATT	TGACAGTCAGAGTGC ATCC	TCTCTGGCAACCGTTC TTCT	60.0	436	INTERGENIC	--	--	--
Ca3_P2_38064707	Ca3	38064707	TTATATATATATATATATATATATA TATAT/TTATATATATATATATATAT ATATATATATAT	ATTTTGCACCACCACA TTT	CGCCATATTCAAACAA ATTCA	59.8	944	INTERGENIC	--	--	--
Ca3_P2_38102155	Ca3	38102155	TTAATTATATATA/TTA	AGAAGCCATCGCAAC TACT	GCGGAGATTTCACGGT GTAT	60.0	227	INTERGENIC	--	--	--
Ca3_P2_38129457	Ca3	38129457	CATATATATATATA/CATATATATATA TATATA	CAAAAGCCGACCAAAA ATTA	GGGCATGGGCAATAAT CTAA	59.8	398	INTERGENIC	--	--	--
Ca3_P2_38136282	Ca3	38136282	GTTTTTTT/GTTTTTTT	CGAGGTGAAATTGTGA AGCA	AACCATGTGATCCAAA CACG	59.3	381	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_38138552	Ca3	38138552	CTAT/CTATAT	CGAGGCATCCTTGT AGG	AAAAACGTTCAAGTTA ATGCAA	58.0	506	INTERGENIC	--	--	--
Ca3_P2_38139076	Ca3	38139076	A/AC	TTGCATTAACTTGAAC GTTTT	TCAGGCCAACCCAGTA CATT	60.4	416	INTERGENIC	--	--	--
Ca3_P2_38141259	Ca3	38141259	TTA/T	GGAAAGTCATGATGC CTTTTT	GTCATTTGTAAATGGC GGCT	60.0	436	INTERGENIC	--	--	--
Ca3_P2_38141514	Ca3	38141514	ATTTTTT/ATTTTTTT	CGCCATTACAAATGA CACT	TCGTCAAATATTTAG CGCAT	58.8	536	INTERGENIC	--	--	--
Ca3_P2_38144557	Ca3	38144557	ATTTGTT/ATT	GCACAAGAGCTGACTT TCCC	CCCACTTACAAATGGC TGCT	60.1	791	INTRON	Ca_01158	C	--
Ca3_P2_38146150	Ca3	38146150	TAAAAAAAA/TAAAAAAAA	CAACCCTTCTGTGCCAA TTT	ATTTGCAATGCTCGT CTTT	59.9	545	INTRON	Ca_01158	C	--
Ca3_P2_38149794	Ca3	38149794	T/TA	AGTTATTACATGCGCA GGG	TTAACCATGTGTCAAG GTCTG	57.0	287	DRR	Ca_01158	C	--
Ca3_P2_38149993	Ca3	38149993	ATTA/ATTAACCTTA	AGTTATTACATGCGCA GGG	GCCAAACAGTGTGTGA ATTCTG	58.2	752	DRR	Ca_01158	C	--
Ca3_P2_38154708	Ca3	38154708	CGGAGGA/CGGAGGAGGA	AGAGCGGAAAAGTTAT CGCA	TTCATGTTGCCCTTT GACA	59.0	477	DRR	Ca_01160	L	MYB_related
Ca3_P2_38155393	Ca3	38155393	ATTTT/ATTT	GTTTTCGCCAATTTT ATT	AGGGTGACATTCGT GCAT	60.3	484	DRR	Ca_01160	L	MYB_related
Ca3_P2_38156627	Ca3	38156627	ACTCT/ACT	CTGCAAGAGGGTAAA ACCA	ATGTTCTGAAAATGAG GCGG	60.1	560	INTRON	Ca_01160	L	MYB_related
Ca3_P2_38162427	Ca3	38162427	GTACTIONA/GTACTA	TCCAGGCGAGATAGCA AGAT	GTGGTCCAGGAAAAGC AAGA	60.2	811	INTRON	Ca_01160	L	MYB_related

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_38164329	Ca3	38164329	TG/TGAGAGAGAG	TATCCCCAATTCCTAG CCC	CAAGATGCTGGCACAG AAAA	60.0	740	INTRON	Ca_01160	L	MYB_related
Ca3_P2_38170265	Ca3	38170265	TAA/TA	CCCAGATCTGCCTAAT GGAA	GATGGGTTTGAACAT CCAG	60.2	594	INTRON	Ca_01160	L	MYB_related
Ca3_P2_38174447	Ca3	38174447	A/AT	TTCACATCCACACTCAT CGG	CTGGCACTGGCATTCC TAAT	60.1	628	DRR	Ca_01161	--	NF-YA
Ca3_P2_38174640	Ca3	38174640	GTTTTTTTTT/GTTTTTTTTT	ATTTCAACCCTACAGCCA TGC	CTGGCACTGGCATTCC TAAT	60.1	145	DRR	Ca_01161	--	NF-YA
Ca3_P2_38178356	Ca3	38178356	GTTTTTT/GTTTTTTT	GATTCGCCTGCTATCAA AGG	TCCGTCTGATCAATCG TCTG	59.8	374	INTRON	Ca_01161	--	NF-YA
Ca3_P2_3818047	Ca3	3818047	G/GGA	ATGCTCTGCACTTGCA GCTA	TTTCATCGCCTCAAAGT GTTG	59.8	707	INTERGENIC	--	--	--
Ca3_P2_38183694	Ca3	38183694	TAAA/TAAAA	CGACACGCACAAACCT TTTA	AACCTTCTTCGTTTCGT GGA	59.7	856	INTERGENIC	--	--	--
Ca3_P2_38189173	Ca3	38189173	TAAAA/TAAAA	TGGGTTAGGGGACAT CATA	TGAAAATGGCCATCAA AACA	59.9	499	INTERGENIC	--	--	--
Ca3_P2_38197547	Ca3	38197547	TAAAA/TAAA	GTAACAGGCAGGACCT CAGC	TTTCTCTCCTGTCGG CTAA	59.9	444	INTERGENIC	--	--	--
Ca3_P2_38201387	Ca3	38201387	CTTTTTTTTT/CTTTTTT	ATTGTGGAGATTGGTG GAGC	GTCGCAGGCAGCTTTA TAGG	60.0	427	INTRON	Ca_01163	E	--
Ca3_P2_38205894	Ca3	38205894	TAAAAA/TAAAAA	ACAACACTCGGCCTATC ACC	CTCCCCCTTCTCCAGG ATAG	60.0	768	DRR	Ca_01163	E	--
Ca3_P2_38205985	Ca3	38205985	GATA/G	ACAACACTCGGCCTATC ACC	CTCCCCCTTCTCCAGG ATAG	60.0	768	DRR	Ca_01163	E	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca3_P2_38206711	Ca3	38206711	GAAAAAAAAA/GAAAAAAAAA	CTATCCTGGAGAAGG GGAG	GCTATTGCATTGGAGT TGCTC	59.9	706	DRR	Ca_01163	E	--
Ca3_P2_38206767	Ca3	38206767	AAGAG/AAG	CTATCCTGGAGAAGG GGAG	GCTATTGCATTGGAGT TGCTC	59.9	706	DRR	Ca_01163	E	--
Ca3_P2_38208971	Ca3	38208971	T/TCTC	CTGGGAAGATGAAGG GTCA	CTTTCCTCCATCGGATT TGA	60.0	537	INTERGENIC	--	--	--
Ca3_P2_38208982	Ca3	38208982	ACTTCTTTCTTTCTTT/ACTTCTTTCT TTCTTTCTTT	CTGGGAAGATGAAGG GTCA	CTTTCCTCCATCGGATT TGA	60.0	537	INTERGENIC	--	--	--
Ca3_P2_38212511	Ca3	38212511	GTTTTTTT/GTTTTTTT	ATTCAGCTCCCCCTGA GATT	TCAGAGGGATCGGACA TAGG	60.0	665	INTRON	Ca_01164	T	WRKY
Ca3_P2_38215897	Ca3	38215897	CTT/CTTCTCTTCATT	TGTTGCCTGGAATGA GTTG	TGTCGATTGAAATCG AGTC	60.0	688	DRR	Ca_01165	R	--
Ca3_P2_38219046	Ca3	38219046	TCC/TCCC	GGTGAGGTTCTTGCAA CCAT	TATGCATGGTGAAAA GCGA	60.2	655	DRR	Ca_01166	Z	B3
Ca3_P2_38219080	Ca3	38219080	TAAAAA/TAAAAA	GGTGAGGTTCTTGCAA CCAT	TATGCATGGTGAAAA GCGA	60.2	655	DRR	Ca_01166	Z	B3
Ca3_P2_38219148	Ca3	38219148	A/AC	CTACCGGCTACTTTCTT GCG	TATGCATGGTGAAAA GCGA	60.2	463	DRR	Ca_01166	Z	B3
Ca3_P2_38219165	Ca3	38219165	TAAAAA/TAAAAA	CTACCGGCTACTTTCTT GCG	TATGCATGGTGAAAA GCGA	60.2	463	DRR	Ca_01166	Z	B3
Ca3_P2_38219214	Ca3	38219214	TTCT/TT	CTACCGGCTACTTTCTT GCG	TATGCATGGTGAAAA GCGA	60.2	463	DRR	Ca_01166	Z	B3
Ca3_P2_38221107	Ca3	38221107	TTCCTC/TCTC	CCACTGGTGGATTGAG AGGT	GAGAACTCATGTGCCG GAAT	60.1	566	CDS (large-effect mutations)	Ca_01166	Z	B3

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_38225612	Ca3	38225612	G/GC	CCACCATCCTTGTCCTT TTT	CCCCTCTCCACGTTT AGTT	60.4	444	DRR	Ca_01167	R	--
Ca3_P2_38228425	Ca3	38228425	A/AGTGTGAATAC	ATGATCCACTGAGATTC CGC	CCAGAGTGTGACGCTT TTGA	60.0	472	DRR	Ca_01168	R	bHLH
Ca3_P2_38228566	Ca3	38228566	GAA/GAAA	AAATGTGAAAGCATGAG GGG	TGTCCACTTCTCTCGGC TTAC	60.3	796	DRR	Ca_01168	R	bHLH
Ca3_P2_38233215	Ca3	38233215	ATA/ATAGTA	TTCGCGATTGCCAATAT AGC	TCCGATGCTTATTTGTT AGTCAA	59.8	137	DRR	Ca_01169	G	--
Ca3_P2_38237845	Ca3	38237845	GTATA/GTA	GAGATTGCTTTCCATT CCA	ACATGAGCTCCTGGAC TGCT	60.0	733	INTRON	Ca_01169	G	--
Ca3_P2_38240356	Ca3	38240356	TCCCC/TCCC	GTGGTGAGTTCAGTTC CGGT	ACCGTTAGAGGAGAGG AGCC	59.8	475	INTERGENIC	--	--	--
Ca3_P2_38241149	Ca3	38241149	A/AAT	GGCTCCTCTCCTCTAAC GGT	GACAAGTGCAACAATTT TCATCA	60.0	527	INTERGENIC	--	--	--
Ca3_P2_38241254	Ca3	38241254	AAA/AAAAAATAA	TTGATGAAAATTGTTGC ACTTG	TTGCTAACACAAAAGTA TTTGAATGTC	59.9	189	INTERGENIC	--	--	--
Ca3_P2_38241297	Ca3	38241297	TTTATT/TTT	TTGATGAAAATTGTTGC ACTTG	TTGCTAACACAAAAGTA TTTGAATGTC	59.9	189	INTERGENIC	--	--	--
Ca3_P2_38326832	Ca3	38326832	ATTTTTTTTTTTT/ATTTTTTTTTTT	TGCGGCTTTCACCTGTGA TCA	GCAGCCGCTGTCGTAT ATTT	60.3	533	INTERGENIC	--	--	--
Ca3_P2_38417598	Ca3	38417598	CTATATATATATATATATATATATA/ CTATATATATATATATATATATATA TATA	GTTGGTGGCGTTTTCA ACTT	TGTAGCCCAAAAGAGA CCCA	60.6	226	DRR	Ca_01193	T	--
Ca3_P2_3847338	Ca3	3847338	CATATATATATAT/CATATATATATATAT AT	AGGAAGAGTGGAGTTG CGAA	ATTTTGTTTCGGAGGC TTTT	59.9	496	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_38612369	Ca3	38612369	TAAAA/TAAAA	TTTGAAGCTCTCGCT TGA	TGCGACCTCATGAAGA CTAAAA	59.9	423	DRR	Ca_01216	--	GeBP
Ca3_P2_38665334	Ca3	38665334	CTT/CTTCATT	CCCCTTCATCAGTGGT GAGT	TCTTCTCCTCCCAAAG CAA	59.9	257	INTERGENIC	--	--	--
Ca3_P2_38690322	Ca3	38690322	AATATATATATATATATATAAATATAT ATATATATATATATATATATATATA	GAAGCAGGAGGAGGA AAAC	TGTCAATGAGGATTAT GCCAA	59.0	910	DRR	Ca_01224	K	Trihelix
Ca3_P2_38690500	Ca3	38690500	TTAA/T	GGCAGCTAGCTTGAGG GATA	TGTCAATGAGGATTAT GCCAA	59.0	559	DRR	Ca_01224	K	Trihelix
Ca3_P2_38690878	Ca3	38690878	GAAAAATAAAAAATAAAAA/GAAAAATAAA AA	TTGGCATAATCCTCATT GACA	CCAAACAAGACCTC CGAA	60.1	469	DRR	Ca_01225	--	NAC
Ca3_P2_38697951	Ca3	38697951	T/TA	GTACGACACCGCAATT CCTT	CTATTGAGGTCTTTGG ACCG	57.3	434	DRR	Ca_01227	O	--
Ca3_P2_38729060	Ca3	38729060	GATATATATATATA/GATATATATATATA TA	CAGATCATGTCGGAGC TTCA	CCTTTCTCTCTTGCCC TTC	60.2	535	INTERGENIC	--	--	--
Ca3_P2_38735210	Ca3	38735210	GTGTTG/GTG	CACCTGCACAACTTCC AAA	TGGTGTACTCCCTTC CTTCA	59.6	220	INTERGENIC	--	--	--
Ca3_P2_3873650	Ca3	3873650	GAAAAAAAAA/GAAAAAAAAA	GCTGTTGGTTAGTCGG GGTA	GCAGTAATGCATCCGT TGAA	59.7	631	INTERGENIC	--	--	--
Ca3_P2_38764047	Ca3	38764047	TAAAAATAAAA/TAAAAATAAAAAATAAA A	TGGGCTCCGAGAGTCT TATG	CGTGGATTAATCGCTA CCGT	60.0	253	DRR	Ca_01234	--	bZIP
Ca3_P2_38783791	Ca3	38783791	ATTTTTTTTT/ATTTTTTTTT	TCCACCCCTAATGACA GTT	AACATTGTCAAATCTA CTCTCAA	57.0	690	INTERGENIC	--	--	--
Ca3_P2_38788784	Ca3	38788784	CTGCTT/CTGCTTTGCTT	GGCTAAACAAGGGAA CGGT	TTTATTGCCAACAGCAA CCA	60.1	581	DRR	Ca_01237	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_3881329	Ca3	3881329	AAAAATATATAAAATATATAAAATA/AA AATATATAAAATATATAAAATATATAAA TA	AGGTAGGCAAGTCTGA GGCA	CAAACGCATGACCAAG ACAG	60.3	773	INTERGENIC	--	--	--
Ca3_P2_38870959	Ca3	38870959	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATA/AAATAATA TAATAATAATAATAATAATAATAATA ATAATAA	TTTGCATATGACATTGA AAGCA	TGAAACAGGCAATCTTT CCC	60.1	292	INTERGENIC	--	--	--
Ca3_P2_38906965	Ca3	38906965	TTT/TTTCTT	AATTTTGGGTCACCGAA TCA	CGTAAATGATGTGGCA TTCG	60.0	496	INTERGENIC	--	--	--
Ca3_P2_38988784	Ca3	38988784	TGAGAGAGAGAGAGAGAGAG/TGAG AGAGAGAGAGAGAGAG	CTTCAACCGCAAAAAC AAT	GGAATGGGTTTATGG CTTT	60.0	966	INTERGENIC	--	--	--
Ca3_P2_38998818	Ca3	38998818	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	GTATTGGGGCGTCACT TTTC	AGGTGGGGGTAAAAAC AAGC	60.2	213	INTERGENIC	--	--	--
Ca3_P2_39051137	Ca3	39051137	AG/AGCG	AGTTTCATTTTTGCCCG TTG	TTCCAACCGTGATTT TGA	59.9	467	DRR	Ca_01267	--	bHLH
Ca3_P2_39106800	Ca3	39106800	ATTTTTTTTTTT/ATTTTTTTTTTT	AAAGTTGTTGGAATGG CTGG	AGACAACCATCTAGG GTTTCA	57.7	400	INTERGENIC	--	--	--
Ca3_P2_39317786	Ca3	39317786	CATATATATATATATATATAT/CATAT ATATATATATATATAT	AGGACCATTCATCCT GTCA	TGCATCCAACGAGCA CTAA	60.4	664	INTERGENIC	--	--	--
Ca3_P2_39355870	Ca3	39355870	TAAAAAAAAA/TAAAAAAAAA	TGCGAGATCGAAGATTT GG	CGACGCGACTGGATTG TAA	60.8	725	INTERGENIC	--	--	--
Ca3_P2_39367471	Ca3	39367471	ATTTTTTTTTTT/ATTTTTTTTTTT	GGAAAAGCCATCAAC CAGA	GAGTTGATTTTGACCTT TCCA	59.0	296	INTERGENIC	--	--	--
Ca3_P2_39374463	Ca3	39374463	TAAAAAAAAA/TAAAAAAAAA	GGGGACTTCATTTTCG GATA	TCCCATACCTTTACCA CATCC	59.9	754	INTRON	Ca_01301	--	--
Ca3_P2_39401096	Ca3	39401096	ATTTTTTTTTTT/ATTTTTTTTTTT	ATTTGGGTCAAGGATG ATGC	GCTTTGCTTGCCCATTT TTA	60.2	940	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_39417852	Ca3	39417852	AAT/A	TGAGTTGTGAGATGCTT CCCT	CCTTTGCAATTTTCTTT GCC	59.7	692	INTERGENIC	--	--	--
Ca3_P2_39465898	Ca3	39465898	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/GTTATTAT TATTATTATTATTATTATTATTATTA TTATTATTAT	GAAGTTCGCTTCCTCCA AAA	TTGGCAGTACCAACGA ATGA	60.1	358	DRR	Ca_01313	--	--
Ca3_P2_39488222	Ca3	39488222	GATATATATATATA/GATATATATATA	CCACTCAAACGTGTCGA GCAA	CAATCCACCACATGTA CCCA	60.1	634	INTERGENIC	--	--	--
Ca3_P2_39571556	Ca3	39571556	GAAAAAAAA/GAAAAAAAA	AATTTGTTTCGGCAATT CCA	GCAAAAGTGGCTGATG ACAA	59.8	553	INTERGENIC	--	--	--
Ca3_P2_39611074	Ca3	39611074	T/T/C	ACCGGACACGATATCA GGAG	TGCTTCAACAAAGGCA AACA	60.4	474	INTRON	Ca_01338	--	--
Ca3_P2_39611327	Ca3	39611327	CAAA/CAA	TGTTTGCTTTTGTGAA GCA	CCCAATTTCGAAGCTC TCTG	59.9	198	INTRON	Ca_01338	--	--
Ca3_P2_3962696	Ca3	3962696	AAAAATATT/AAAAATATTAATATAAA ATATTT	AGTTCCATGGGCTTTTC CTT	AGACTGTGGCACACAA TGGA	60.2	552	INTERGENIC	--	--	--
Ca3_P2_3963300	Ca3	3963300	CAAAAAAAAA/CAAAAAAAAAAAAA	TCCATTGTGTGCCACA GTCT	TCTAGTCCGCGACTCA ACCT	60.0	505	INTERGENIC	--	--	--
Ca3_P2_39663553	Ca3	39663553	TAAAAAAAA/TAAAAAAAA	GTGGCCACGTATCGAG GTAG	TCCAAAAGAAATCATG GGG	59.7	516	INTERGENIC	--	--	--
Ca3_P2_39670282	Ca3	39670282	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	TGGTGCGACAATCATT ACC	TGGATATCGAACCTC ACCT	59.4	720	INTERGENIC	--	--	--
Ca3_P2_39763068	Ca3	39763068	CAGAGAGAGAGAGAGAGAGA/CAGAGA GAGAGAGAGAGA	GGTCGCACATTGTCAT CATC	AAAGGTTTCGACCACG TCAC	60.0	522	INTRON	Ca_01363	R	--
Ca3_P2_39810656	Ca3	39810656	TTA/TTAAATATA	ATGGGGATGTTGATCC AGAA	TCAACGTCCCAAATG ATGA	59.9	744	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_39866735	Ca3	39866735	C/CT	ACAGTCTTTGGTTCGAT GGG	CTGCCCAAAGACAC AAAT	60.0	288	INTRON	Ca_01372	--	WRKY
Ca3_P2_39926798	Ca3	39926798	CT/CTGTAT	CATCTGCAGCCAAAAC TCA	GTGTGGGCTTTTCCTT TGAA	60.1	418	INTERGENIC	--	--	--
Ca3_P2_39933774	Ca3	39933774	TT/TTTTAT	ATGTCATGCACCTTGT GCC	TCCGTGTTGTCAAGATT AGTCG	60.2	493	INTERGENIC	--	--	--
Ca3_P2_39988476	Ca3	39988476	GTTTT/GTTT	AGAACAGAGCTGGCCT CAAA	ATTGCAAGAAAACCAG CACC	60.1	148	INTERGENIC	--	--	--
Ca3_P2_4017573	Ca3	4017573	TAA/TAAA	ACCACAGATCACCAGT CGCT	ACGTCCAAGGTAAGGG CTTT	60.0	683	INTERGENIC	--	--	--
Ca3_P2_4042829	Ca3	4042829	GATATATATATATATATATATAT/GAT ATATATATATATATATATATATAT	ACACGAAGAGCAGGAT CGTT	AAACAAAAATAAAAACT CGGAGACA	59.5	743	DRR	Ca_21325	QR	--
Ca3_P2_4043334	Ca3	4043334	AATATATATATATATATATATATAT A/AATATATATATATATATATATATATA TATATA	TTCAAAATTCAAACTT CGATTG	TTGCATTGGAATAGA CAAGTCA	59.6	522	DRR	Ca_21325	QR	--
Ca3_P2_4073796	Ca3	4073796	CT/CTT	CTCAACATCCACCATGC AAT	TGCAAAATTCATCAAAT GCATAA	60.3	746	INTERGENIC	--	--	--
Ca3_P2_4076583	Ca3	4076583	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATT/ATATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTATT	ATAGTCCTCACCCACG CATC	AAGCGTACCTGTGGGA ATTG	60.0	607	INTERGENIC	--	--	--
Ca3_P2_4121386	Ca3	4121386	CTTT/CTTTT	GACTGGACGTAACCCA CGTT	AGCATTGTGCTTACGA CGAA	59.5	379	DRR	Ca_22386	--	--
Ca3_P2_4132295	Ca3	4132295	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AAAAA	CGTGTGAGAAAACCTC GACA	CAACCCAAGTTCGAA ATGC	60.5	261	INTERGENIC	--	--	--
Ca3_P2_4132392	Ca3	4132392	TTATATATATATATATAT/TTATATATA TATATATATATATATAT	CGTGTGAGAAAACCTC GACA	GAAGGCCAAGTTCCAA ATGA	60.1	738	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_4622794	Ca3	4622794	ATATTATTATTATTATTATTATT ATTATTATTATTATTA/ATATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTA	TTGTCAAGTTAGGGCA CATTTT	TCTTGAAGTGTGTGC CATT	59.1	627	INTERGENIC	--	--	--
Ca3_P2_4655846	Ca3	4655846	CATTTAGGA/CATTAGGATTAGGA	GGGGATTGCTTGAGTC CATA	CTACCAAAGGGGAAGA AGGC	60.1	356	INTERGENIC	--	--	--
Ca3_P2_4689138	Ca3	4689138	TAAAAA/TAAAAAA	CAGCTTGCAATTGCTTT TGA	TTGCTCCTACGTATCTC CCG	60.2	888	INTERGENIC	--	--	--
Ca3_P2_474304	Ca3	474304	GTTTTT/GTTTTTT	ACGTTGCGAGCAGAGA TTTT	TTGGCTTCTGAATTG GTCC	60.1	655	INTERGENIC	--	--	--
Ca3_P2_4766178	Ca3	4766178	CTATATATATATATATAT/CTATATATA TATATATATAT	AGGCGAAAGCGCACTA TTTA	GCAAGTCAGGAAAATG GGAA	60.1	753	INTRON	Ca_22087	T	YABBY
Ca3_P2_4787200	Ca3	4787200	CA/CATA	GTGTCGGATGTCTGAC GCTA	GACGACTTGCTACTGG ACGA	59.9	450	INTERGENIC	--	--	--
Ca3_P2_4869501	Ca3	4869501	GAAAAAAAAA/GAAAAAAAAA	CCCGGTCGTAGAGAGA AAGA	TTGCTTGGACTTTGAA GCCT	60.0	665	INTERGENIC	--	--	--
Ca3_P2_488374	Ca3	488374	ATTTTTTTTT/ATTTTTTTTTT	TTTGCGTTACGAATTG ATGA	ACAAAATACCAAGTGC CCCA	60.2	361	INTERGENIC	--	--	--
Ca3_P2_4898542	Ca3	4898542	AATATATATATATATATATATATAT/ AATATATATATATATATATATATAT ATATAT	GCCAAAAACGAACCAC AAAC	GCCCGCTTTGATAGCT GATA	60.3	491	INTERGENIC	--	--	--
Ca3_P2_4943052	Ca3	4943052	GTTTTTTTTT/GTTTTTTTTT	GCCACAAAATGGTCCA AAA	TATGTTGGTTAGGGG GCTG	59.8	582	INTERGENIC	--	--	--
Ca3_P2_4944486	Ca3	4944486	AATATATATATATATATATATATA/ ATATATATATATATATATATATATA TATATATATA	AATCGACATTCGACCCA CTC	CCCGCTCTGATAGGT GATA	60.1	398	INTERGENIC	--	--	--
Ca3_P2_4965548	Ca3	4965548	ATTTT/ATTTT	CGGGGAATGTGATTGA TAGG	GTTGGAGAGATCGGTG GAAA	60.1	948	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_4965627	Ca3	4965627	T/TGAG	TGCAATCTGGAGCAG AGAA	GTTGGAGAGATCGGTG GAAA	60.1	510	INTERGENIC	--	--	--
Ca3_P2_4966098	Ca3	4966098	CTTTTTTT/CTTTTTTT	TTTCCACCGATCTCTCC AAC	AAACCCGCTCCTTTCAA AAT	59.9	514	INTERGENIC	--	--	--
Ca3_P2_4975195	Ca3	4975195	AATATATATATATATA/AACATATATATAT ATATATA	CAAAGTTCAATACGCCA GCA	AGGTTTTGGCGTAACT CCCT	60.0	455	INTERGENIC	--	--	--
Ca3_P2_5031216	Ca3	5031216	TA/T	AAAAACAGGAGGGGCT GAGT	TTGTCCGAAGAACCCT TGTC	60.1	742	INTERGENIC	--	--	--
Ca3_P2_5089285	Ca3	5089285	CAAAAAAAAA/CAAAAAAAAA	TGCCAAGAAAACCAT GAA	GCCAACCAACATTGTG TCAG	60.0	700	INTERGENIC	--	--	--
Ca3_P2_5160337	Ca3	5160337	GAAAAAAAA/GAAAAAAAA	TTTTTCCGACTTTGTG CITT	GGCTAAATTACATTTGT GGTCCC	60.8	315	INTERGENIC	--	--	--
Ca3_P2_5182639	Ca3	5182639	ATTTTTTTTT/ATTTTTTTTT	TCTCTTTCTAAACTAG GCAACCA	TTGAGGTGGCCAAAGC TACT	59.9	492	INTERGENIC	--	--	--
Ca3_P2_5239462	Ca3	5239462	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TGAGATCAGTTTTTGTG GAGGA	CAGTCACCACCTTGC TTTT	60.1	482	INTERGENIC	--	--	--
Ca3_P2_5268526	Ca3	5268526	T/TATTTACAAGCAG	GGTTTGCTTGCTCCAAT GTT	GGTCCTTGGACACTT TTGA	59.9	657	INTERGENIC	--	--	--
Ca3_P2_5269970	Ca3	5269970	CAACAATAA/CAA	GATTGGCACGTGATT AACA	TTCTCGCTTTCGTTTCG TTT	60.0	563	INTERGENIC	--	--	--
Ca3_P2_5270478	Ca3	5270478	TATCAATC/TATC	ACGAAACGAAAGCGAG AAAA	CGACCTCGAAATAATC GGAA	60.0	521	INTERGENIC	--	--	--
Ca3_P2_5278342	Ca3	5278342	ATT/AT	CACCCAGTTTTGAGG GTAA	TTTGCCAATCGATTATC GTG	59.5	549	DRR	Ca_20669	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_5286221	Ca3	5286221	ATTT/ATT	CACCCCTCCCAAAACAT CT	TTGTGAGTGCATTGAT TTGT	59.5	876	INTERGENIC	--	--	--
Ca3_P2_5288032	Ca3	5288032	AATATATATATATATATATATAT/ATA TATATATATATATAT	AGAAGGTCGCATCTCC AAGA	TGGCACTTGATTCACT CGC	59.9	456	INTERGENIC	--	--	--
Ca3_P2_5347423	Ca3	5347423	CAATAAATAATAATAATAATAATA ATAATAA/CAATAAATAATAATAATA TAATAATAA	TTGCTCCTACGTATCTC CCG	TTGTGACAATTTGATGG TTCTAAA	58.6	563	INTERGENIC	--	--	--
Ca3_P2_5389213	Ca3	5389213	AATTATTATTATTATT/ATTATTATT ATTATTATTATT	AAGAGACTTCGCGTCC AAAA	CAAGTTTCAACAAATAA ATGCACA	59.1	229	INTERGENIC	--	--	--
Ca3_P2_5403691	Ca3	5403691	ACTCTCTCTCTCTCTCT/ACTCTCTC TCTCTCTCT	GAGAGGAGCCAACG AACA	TGAACCTGTTGAAGTG AAGCA	59.5	326	INTERGENIC	--	--	--
Ca3_P2_5447948	Ca3	5447948	TAAAAAAAAA/TAAAAAAAAA	GCATGAAGACGAATGA GCAA	CATCCCTCTAACCCCA CAAA	59.8	667	DRR	Ca_20658	--	--
Ca3_P2_5448109	Ca3	5448109	AAAAATTTAAAAATTTAAAAATTT/AAAAAT TAAAAATTT	GCATGAAGACGAATGA GCAA	GTTTCAAGGGCTTCTTT CCC	60.1	918	DRR	Ca_20658	--	--
Ca3_P2_5502243	Ca3	5502243	TG/T	TGCGTTTTCTGCATT CTG	ATTCTGCGCGACTATC AACC	60.2	661	INTERGENIC	--	--	--
Ca3_P2_5502450	Ca3	5502450	GTATATATATATATA/GTATATATATA TATA	TGCGTTTTCTGCATT CTG	ATTCTGCGCGACTATC AACC	60.2	661	INTERGENIC	--	--	--
Ca3_P2_5507746	Ca3	5507746	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATAT ATATATATATATAT	TATTTTGGATTTTGGGC TCG	GGAGGGATAAGGTTTC TCGC	60.0	427	INTERGENIC	--	--	--
Ca3_P2_5520403	Ca3	5520403	GTATATATATATATATATATATA/G TATATATATATATATATATATA	CAAATGACGACGACGA TGAC	GAATGATGACAATGCG GTTG	59.9	503	INTERGENIC	--	--	--
Ca3_P2_5689239	Ca3	5689239	GA/GATTATGTTA	TTGGTCAATGTGGCTTC TCA	TGAACTCTGAGCGTGT GACC	60.0	439	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_5689325	Ca3	5689325	ATTT/ATT	TTGGTCAATGTGGCTC TCA	TGAACCTGAGCGTGT GACC	60.0	439	INTERGENIC	--	--	--
Ca3_P2_571479	Ca3	571479	GTT/GTTGATT	GTGAGTGGTGAGGGC TAAT	TTGCATACCTCGTATCA TCCC	59.8	407	INTERGENIC	--	--	--
Ca3_P2_5864065	Ca3	5864065	AAGAG/AAG	TGAGTGGTGGGCTGTG ATTA	ATGCAATGCGTATATG CCAA	59.9	731	INTERGENIC	--	--	--
Ca3_P2_6057834	Ca3	6057834	TTATATATATATAT/TTATATATATATA TATAT	AATTCATAGAAAGCAG GGGG	TCCTTGCCTGGTCTGA CCTT	59.8	734	INTERGENIC	--	--	--
Ca3_P2_613347	Ca3	613347	ATTTTTTTTT/ATTTTTTTTT	TGGAGCTTTGTTTGG CCT	AGTAAGTGTCTGCTT GGGC	60.2	409	INTERGENIC	--	--	--
Ca3_P2_615331	Ca3	615331	CAAAAAAA/CAAAAAAA	CAAGTTTTGGTCTGGC GTT	TGAAATTATGGGTGGG CATT	60.0	513	DRR	Ca_22653	--	Trihelix
Ca3_P2_6243942	Ca3	6243942	CTTATT/CTT	TGATGGACTTCGTGCT CTTG	CCTCAGGATAAAACAG CCCA	60.1	298	INTERGENIC	--	--	--
Ca3_P2_6289426	Ca3	6289426	CATATATATATAT/CATATATATATAT AT	CGGTTCAAGTGCATT GAA	CCTTACAAGGCCACC AATA	59.8	457	INTERGENIC	--	--	--
Ca3_P2_62942	Ca3	62942	AATATATATATATATATATA/AATAT ATATATATATATATATATATA	TTCTCTCGAGGATAGT CGA	AGTTAAACGAGGGTT TGCC	60.4	936	INTERGENIC	--	--	--
Ca3_P2_6353465	Ca3	6353465	CATTATTATTATTATTATTATTATTA TTATTATTATT/CATTATTATTATTATT TATTATTATTATTATTATTATTATTA TTATTATT	ATTTTAGCCGCGACA ACTA	TGGACATCCAGAAGC TACC	60.1	427	INTERGENIC	--	--	--
Ca3_P2_6386934	Ca3	6386934	TGG/TGGG	TGTACGAGAAGGTCGT GTGC	GCCCCAACGCAAGCTA TTTC	59.9	574	INTRON	Ca_24834	--	Trihelix
Ca3_P2_6587330	Ca3	6587330	T/TA	TTGAAGGGTTGCATGA ATGA	GGAGGTCGAAAATGAC CAAA	59.9	741	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_6774329	Ca3	6774329	ATTTTTTTT/ATTTTTTT	TCTTCTCTCTAGGAC GGG	GGGTAGTCTTTGGAG AACACA	58.2	138	DRR	Ca_16559	R	NAC
Ca3_P2_6780457	Ca3	6780457	A/ACAAT	GGATGCTTCGTTGGT GTTT	TTTGAACCAAGATGCA GCAG	60.0	832	INTRON	Ca_16557	R	NAC
Ca3_P2_6788233	Ca3	6788233	AATTATTAT/AAT	TTTTCACTATTGTGTG AAATCAGT	TTTCTACCATTATCCC GCT	58.5	826	DRR	Ca_16556	R	NAC
Ca3_P2_6790470	Ca3	6790470	T/TA	GGCTGGCTACTTAGGG ATCA	GACCTCGTCCAGCTTT TCAG	60.0	582	INTERGENIC	--	--	--
Ca3_P2_6821985	Ca3	6821985	TTATATATATATATATATATATA/TT ATATATATATATATATATATATATA TATA	GCGTGATCCCAAGCTA CAAT	CATCTTTTAAGGTGCG GGTG	60.5	139	INTERGENIC	--	--	--
Ca3_P2_6838667	Ca3	6838667	AGCA/AGCAGGATCCAATGCAATGGCA	GGAACCCCAATCAT CATC	GCAGCCAATTTTGTG CATA	59.7	547	CDS (large-effect mutations)	Ca_16550	R	bHLH
Ca3_P2_6844921	Ca3	6844921	GACACACACACA/GACACACACACA CACA	CATCTCCCATCCTGGTA AGC	TCAGCCACTCCAAGCT TTTT	60.0	734	INTERGENIC	--	--	--
Ca3_P2_6909242	Ca3	6909242	ATCTCTCTCTCTCTC/ATCTCTCTCT CTCTCTCTC	GCCTCTTAGGACTTCG GCT	TCAAAGTGAAGTGCAAT GAAAAA	59.8	656	INTERGENIC	--	--	--
Ca3_P2_70555	Ca3	70555	TATGAGTTATGA/TATGAGTTATGATGA ATGAGTTATGA	CAAGTAAACGCACGTG AACC	TACCCACACCCCATTT TTA	59.9	582	INTERGENIC	--	--	--
Ca3_P2_7076805	Ca3	7076805	C/CCCGAATGT	TCTTCGATTCCATTCCA ACC	TTGGGGGAGACGATAT TCTG	59.9	701	INTERGENIC	--	--	--
Ca3_P2_7223058	Ca3	7223058	TA/TATACA	AGGTTATGTCGTCCGT CAGG	GCGTAGTGGGAGCTTG TAGG	59.9	767	INTERGENIC	--	--	--
Ca3_P2_7228177	Ca3	7228177	GAGTTACATAGTTACATA/GAGTTACAT A	CTGTTGGGCAAGGGAT CTAA	ACAGCGCTTTTGTGCT TTTT	60.1	463	DRR	Ca_16534	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_726429	Ca3	726429	ATTTTTTT/ATTTTTTTT	TCTGTATCTTACCAAC AAGGC	GTTTGTGTCGGCTTA CGGT	60.0	715	INTERGENIC	--	--	--
Ca3_P2_7312652	Ca3	7312652	TAAAAAAAA/TAAAAAAAAA	CGCAAGATTTTACCTAC CTGTG	TGATCAAGCTTCCAGT CCAA	59.4	720	DRR	Ca_16529	--	LFY
Ca3_P2_7330454	Ca3	7330454	AG/A	CCAACAAAAGGACGGA AGAA	TTTTGTCCCAACAATCT CCC	59.8	605	INTERGENIC	--	--	--
Ca3_P2_7340219	Ca3	7340219	T/TTA	GCCATCTTATGAAATCT TTGGG	TGTGCGTGTGTGAAAG TGAA	59.9	865	INTERGENIC	--	--	--
Ca3_P2_7367436	Ca3	7367436	CGAAGAAGA/CGAAGA	TGATTGTTTGTCTGGTG GGA	CACTCTCTCTCTTGGC CTTG	60.0	331	INTERGENIC	--	--	--
Ca3_P2_7368189	Ca3	7368189	AAATAATAATAATAATAATAA/A AATAATAATAATAATAA	ATTGGGGCAATAACCAAC CAA	TGGTGCATTGTGGAA AATA	59.9	854	INTERGENIC	--	--	--
Ca3_P2_7385240	Ca3	7385240	TAAAA/TAAAAA	AATCGGTGAGGAAAT GCAG	AGCAAAGTGTTCCTGCC CTTG	60.3	567	INTERGENIC	--	--	--
Ca3_P2_7440399	Ca3	7440399	TGGTGGTGGTGGCGGTGGT/TGGTGG TGGTGGCGGTGGTGGTGGCGGTGGT	ATCACAGAGATCCAATC GCC	TTCATCACCTCCTCCG AATC	60.0	384	CDS (large-effect mutations)	Ca_16525	R	--
Ca3_P2_7467677	Ca3	7467677	AACATTAGA/AACATTAGACATTAGA	CCACACCCCTCACACTT TCT	AGCAAAGGGGATGAAA AGGT	59.9	461	INTERGENIC	--	--	--
Ca3_P2_7494196	Ca3	7494196	T/TC	TTGCTTTGGTTTGATGT GGA	GAAGTTGCCTTAGTGG CAGG	59.9	694	INTERGENIC	--	--	--
Ca3_P2_7535269	Ca3	7535269	TAAAAAAAA/TAAAAAAAAA	TATCCCTCACCCCTCCT TTT	GCATCTTTATATCTGGC GACC	58.7	343	INTERGENIC	--	--	--
Ca3_P2_7543380	Ca3	7543380	TAAAAAAAAA/TAAAAAAAAA A	ACAAAAGGCCACCAAG AAAA	CGGACCAAAGTGGTCA ATGT	60.8	619	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_7549569	Ca3	7549569	T/TACTCAAGTTTAGCAC	TGTCTACGCTAGCACG AACAA	TGTGGCGAGATATTT GTAGTG	58.7	618	INTERGENIC	--	--	--
Ca3_P2_7580880	Ca3	7580880	TAAAAAAAA/TAAAAAAAA	GTGGTTCGGAAAAGA TGAA	CCCATCCATTCCCTA TCT	60.0	373	INTERGENIC	--	--	--
Ca3_P2_7636412	Ca3	7636412	CTTATTATTATTATTATTATTAT TATTATTATTATTATT/CTTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATT	TGGCCTTGTTGTATTG CAT	CTGAATTGCGTGTGC TGGT	59.8	566	INTERGENIC	--	--	--
Ca3_P2_7749695	Ca3	7749695	G/GACT	GCTTGGTTTTCTGGTT TGA	ACCTTGAATCGTGCC TCTA	60.0	870	INTERGENIC	--	--	--
Ca3_P2_7788612	Ca3	7788612	ATTT/ATT	CCTCAGATGAGAGCCA GGAC	TGGGTAACATATGCC CAAC	59.7	582	INTERGENIC	--	--	--
Ca3_P2_7792015	Ca3	7792015	TAT/TATTATCTTTCCCTAAT	TAGGTAAAGTGTTG GCCG	TGAGGATAGATGCAG GTCA	59.2	611	INTERGENIC	--	--	--
Ca3_P2_781722	Ca3	781722	CAA/CAAAA	AAAACGCGCCACTAAT GACT	AGCAAGAGTGCAAAGT CGGT	60.1	546	DRR	Ca_22643	V	B3
Ca3_P2_7880432	Ca3	7880432	TCTAG/T	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGGCT CGG	59.9	503	INTERGENIC	--	--	--
Ca3_P2_7922530	Ca3	7922530	TTATATATATATATATAT/TTATATATA TATATATAT	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGGCT CGG	59.9	504	INTERGENIC	--	--	--
Ca3_P2_794982	Ca3	794982	GTTTTTTTTTT/GTTTTTTTTTT	TAGAGGGAGGAGTGTC AAGA	GGTGATATAGACGGG CAGA	59.9	686	INTERGENIC	--	--	--
Ca3_P2_7959750	Ca3	7959750	TTAATTTGATTATGTTAAGTAATTTGATT ATGTTAA/TTAATTTGATTATGTTAAGTA ATTTGATTATGTTAAGTAATTTGATTAT GTAA	TTGGCATAGGTCATGG AAGTT	TTTGCAATGTTGCTAG CTG	60.0	848	INTERGENIC	--	--	--
Ca3_P2_8059631	Ca3	8059631	GTTT/GTT	TGTGCGACCATCTACT GCTC	GCAATCTCCTCAACTC GGTC	59.8	813	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca3_P2_9092559	Ca3	9092559	AA/AACA	CATGTCCCAAAATAG CCC	TCTTTCAAGTGGGTG GGTC	59.9	304	INTERGENIC	--	--	--
Ca3_P2_9186815	Ca3	9186815	CTATATATATATATATATATA/CTAT ATATATATATATATATATA	TCCACAAACACGATAAC ATTGA	TGTAACAAGCATTGTG GGG	59.6	693	INTERGENIC	--	--	--
Ca3_P2_9189477	Ca3	9189477	AATATATATATATATATATATATAT ATATAT/AATATATATATATATATAT ATATATATATATATAT	AAAGTTTGGTTGGAG ATACG	TTGGCTGCAAAATATC CCTC	60.0	856	INTERGENIC	--	--	--
Ca3_P2_9241046	Ca3	9241046	TTTTATTTATTTATTTATTTAT/TTT TATTTATTTATTTATTTATTTATTTA T	TTTGATGTTGTGGAAA TGAAA	GCACATGTTACCGAC ATTC	60.0	445	DRR	Ca_20955	--	--
Ca3_P2_9289555	Ca3	9289555	TTATATATATATATATATAT/TTATA TATATATATATATATATATAT	GAACCAAGTTGCATGG GAAT	CCTAGGGACTTCGTGG TTGA	60.1	651	INTERGENIC	--	--	--
Ca3_P2_9306348	Ca3	9306348	AATATATATATATATATATATA/AATAT ATATATATATATATATA	TCCAGGTGAAAAGTAAC GCC	TGCTGAGCAAAACACT CTGG	60.2	432	DRR	Ca_20961	--	Trihelix
Ca3_P2_9327176	Ca3	9327176	GTTTTTTTTT/GTTTTTTTTT	TTGGAACTTTCTCCGTT TGG	TTAATGGCAAAACAG GGGA	60.3	647	INTERGENIC	--	--	--
Ca3_P2_939073	Ca3	939073	GTT/GTTTT	ATTGGTTCTGCTCTGG GTTG	GGGACCACAGCACCTA TGTT	59.9	296	INTERGENIC	--	--	--
Ca3_P2_9426071	Ca3	9426071	CAAAAAAAAA/CAAAAAAAAA	CCATAAAACCATTTCCA TTGC	TACTCTAGCAACCACC GCCT	59.9	262	INTERGENIC	--	--	--
Ca3_P2_943806	Ca3	943806	ATCT/ATCTCT	GTGAATTCATCCCATG CCC	AGCCCTGGTAAGCCTT TTGT	60.1	515	INTERGENIC	--	--	--
Ca3_P2_9577976	Ca3	9577976	AGG/AGGG	TTGCGTTCAAAGACTCG ATG	TGAATTGCAGAAATCCC ATGA	60.0	575	INTRON	Ca_20977	--	--
Ca3_P2_959453	Ca3	959453	CAAA/CAA	CCTATCACGGATCAGC ACAA	TACGGTGCTAGGGAAC CAAC	60.0	924	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_10092984	Ca4	10092984	GTTTTTTTT/GTTTTTTTT	CGCACGAGTAACACGT CATT	ACGCGGAACAAATATT GTCA	59.0	432	INTERGENIC	--	--	--
Ca4_P2_10108026	Ca4	10108026	GTAATAATAATAATAATAATAAT /GTAATAATAATAATAATAATAA TAAT	AACCGAATGAATGAA CGG	AAGCGCACAGGAAAC CTTA	59.9	551	INTERGENIC	--	--	--
Ca4_P2_10173137	Ca4	10173137	ATTTTTTT/ATTTTTTTT	CCCGTTATTTTGACGA AACA	TGTGTTGAGTGGTGGC ATTT	60.0	791	INTERGENIC	--	--	--
Ca4_P2_10180518	Ca4	10180518	AT/A	AGGGCTGGAATTAGTT GGCT	CAGATGACAACCGAAA GCAA	59.8	321	DRR	Ca_08489	G	--
Ca4_P2_10233239	Ca4	10233239	GACAATTATTTGGTACAATTAT/GACAA TTATTTGGTACAATTATTTGGTACAATT AT	TGTCGGTTGTTGCTTGA AGA	ATACAATCATTTCCTCG CCA	60.2	403	INTERGENIC	--	--	--
Ca4_P2_10253630	Ca4	10253630	GAAAAAAA/GAAAAAAA	TGTGTTTGAATGGGCAA AAA	CTTCATTTAAACGCCCC AAA	59.9	312	INTERGENIC	--	--	--
Ca4_P2_10310413	Ca4	10310413	CAAAAAA/CAAAAAA	GAGGAGGAGGTGGAG GGTAG	TTGTGCACCATCGATC ATTT	59.9	732	INTERGENIC	--	--	--
Ca4_P2_10460957	Ca4	10460957	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATATAT	TTAATTTCAATGGCGG GTAG	TCACATTGAGCTTTTGG TCG	59.8	428	INTERGENIC	--	--	--
Ca4_P2_10624424	Ca4	10624424	TTAATAATAATAATAATA/TTAATAAT AATAATAATA	GGATGTCCCAAGGGT TTTT	GGATGATTCTGGAGCG AGAC	59.8	303	INTERGENIC	--	--	--
Ca4_P2_10657750	Ca4	10657750	T/TCTAACACTCTTTCC	ATACAAAAACATTTGGG CCG	TTCACATGAAGTGGCG AGAC	59.8	417	DRR	Ca_04301	--	--
Ca4_P2_10661685	Ca4	10661685	CTTTTTTTTT/CTTTTTTTTT	GGAGAAATGAGTGAAG GTGGA	AAATACCACTCGAGGT CCCA	59.4	801	INTERGENIC	--	--	--
Ca4_P2_10758002	Ca4	10758002	AATATATATATATATATATATATATAT ATATATATATATATATATATATATATAT ATATATATATATATATATATATATATAT TATATATATATATATATATATATATAT	ACATAGCCAAAAACCGA TGC	ATCCAACGGTTAACGA ATGC	59.8	579	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_10793822	Ca4	10793822	AT/ATGGT	TGGTGAAATAGATTAG GACGAGA	CTGAACATTTGCATGCT CTCA	60.0	943	INTERGENIC	--	--	--
Ca4_P2_10939792	Ca4	10939792	G/GAGTGTGGTC	GCAGCAAAAAGGGATA ACCA	AAGAAACCTCGTGTGC CATC	60.1	231	DRR	Ca_04328	GMW	NAC
Ca4_P2_10954430	Ca4	10954430	AATATATATATATATATA/AATATAT ATATATATATATATA	TTCGTGAATTAGTTTTC CGTGA	TAACGTAACATGCCATT GCC	59.4	554	INTERGENIC	--	--	--
Ca4_P2_10993124	Ca4	10993124	CAAAAAA/CAAAAAAA	CCTAAACCCTAACCC CAA	AGCACCCCAAAAAGA AAGT	60.0	613	INTERGENIC	--	--	--
Ca4_P2_1104791	Ca4	1104791	GATAATAATAATAATAATAATAA TAATAATAATA/GATAATAATAATAA TAATAATAATAATAATAATAATA ATA	AAATTCCATCAGCTTCT TTGAA	AAGAGAGGCAATGTTC CACG	60.3	579	DRR	Ca_07743	--	NAC
Ca4_P2_11070438	Ca4	11070438	T/TATTACG	TTTGCCCAATAAAGAG CAC	AACAACTTTTCGCAACC ACC	60.0	701	DRR	Ca_04340	J	--
Ca4_P2_11077353	Ca4	11077353	TTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCT C	TAGTTCAGACGTGCATT CGC	TTGCTTCAGAGGCACA AATG	60.0	701	INTRON	Ca_04340	J	--
Ca4_P2_11203626	Ca4	11203626	TTATATATATATATATATATATATA TATATATATATA/TTATATATATATATA TATATATATATATATATATATATA	TCGGGGCTGTTTGTTA AGA	GCGATAATGAGTCGT TTGC	60.6	487	INTERGENIC	--	--	--
Ca4_P2_11206085	Ca4	11206085	TTATATATATATATATATATAT/TTATA TATATATATATATATAT	GATTGCCACATGCTCA CATC	CTCGTGCAAGTGCAAG TGAT	60.1	467	INTERGENIC	--	--	--
Ca4_P2_11209323	Ca4	11209323	TAAAAAA/TAAAAAA	TTAGTGTGAATTGACG GCG	CAATGCCTAGAATCAC GGGT	60.0	960	INTERGENIC	--	--	--
Ca4_P2_11220000	Ca4	11220000	AAATAATAATAA/AAATAATAATAAA	ATTTCCTCGTGACCG ACC	CTGATAGACCGACACA CACACA	59.7	465	INTERGENIC	--	--	--
Ca4_P2_11228979	Ca4	11228979	ATGATATT/ATGATATTGATATT	CCCATGTAAGTGAGTG AAATCG	GGCTTGCAATGATGCTA AATTC	59.7	694	INTRON	Ca_04355	G	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_11259655	Ca4	11259655	CATTATTATTAT/CATTATTATTAT TTATTAT	TGTTGGTCGTTGAAAT GGA	AACCATCATGAAAGG TGGA	60.2	629	INTERGENIC	--	--	--
Ca4_P2_11268024	Ca4	11268024	AAAGAA/AAA	TAGTGCCCTCCAAAG GATG	GCGTTGAGGTGTCAAC TGTC	60.4	733	INTERGENIC	--	--	--
Ca4_P2_11285447	Ca4	11285447	C/CAA	TCCACATGCACCTGTG AACT	AGTAGTGCTCAAACC ACGG	60.2	382	DRR	Ca_04361	GE	GATA
Ca4_P2_11291621	Ca4	11291621	ATTT/ATTTT	GATGAAAGTTTTTGGT TGCC	AGCGCAGTGTTAACGT TCCT	59.9	946	INTERGENIC	--	--	--
Ca4_P2_11300403	Ca4	11300403	ATATTATT/ATATT	GTGTTACTTCCGCCGTT GAT	TGTCAAGTTGTTTCATG CTGC	59.9	185	INTERGENIC	--	--	--
Ca4_P2_11309352	Ca4	11309352	AATGAT/AATGATGAT	AAGAGCTACCTACGGA GGGC	ACCCAACAGCAAAACC AAAC	59.9	354	INTRON	Ca_04363	--	--
Ca4_P2_11311504	Ca4	11311504	A/ACAC	TGATGGTTGGCCTAAAT GGT	TTGCTGAAGACTGATG CCAC	60.0	463	DRR	Ca_04363	--	--
Ca4_P2_11326193	Ca4	11326193	CATATATA/CATA	CACCTGGATTGTTTGTG TGC	ATATTGGTCAAGCTGC TGCC	60.2	272	INTRON	Ca_04365	--	M-type
Ca4_P2_11337922	Ca4	11337922	TAAA/TAAAA	ATCGAGGAATAACAG GACG	GGCCATCATTTGTCCC TCTA	59.9	770	INTERGENIC	--	--	--
Ca4_P2_11340703	Ca4	11340703	CG/C	TCATCACCGTCCAATT CAA	CTCCTTGCCCAATTGT TGT	60.0	333	INTERGENIC	--	--	--
Ca4_P2_11368276	Ca4	11368276	CG/C	TGATGAATTTTCATTCA CCAATC	TCCCAAGGTCAATTAG GCAG	60.1	116	INTERGENIC	--	--	--
Ca4_P2_11404509	Ca4	11404509	TTTCTC/TTTCTTCTTC	GATGTGGGTAAGCTTG GAGG	TGATGGTTCATGTGGT GGTC	60.2	508	DRR	Ca_04374	--	bZIP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_11427452	Ca4	11427452	AATATATATATATATATAT/AATATATATATATATATATAT	TATCCGCATGTGGACA AAAA	TTGGGTTGAATTTTCT GGTG	59.8	555	INTERGENIC	--	--	--
Ca4_P2_11433750	Ca4	11433750	TTTGATT/TTT	TATGCCATGATTCTCGG ACA	AATTGGAGCCGGAAGT TTCT	60.1	515	INTRON	Ca_04378	S	--
Ca4_P2_11435815	Ca4	11435815	AAC/A	CGGAGGTTTCAGTTCA GCTC	GTGAATTGGTCGAGCG GTAT	60.0	906	DRR	Ca_04378	S	--
Ca4_P2_11448454	Ca4	11448454	AATATATATATATATATATATAT/AA TATATATATATATATATAT	ATCACCGCCCATATTAT CCA	TGAAGGTGATTGACAC AAGGA	59.1	882	INTERGENIC	--	--	--
Ca4_P2_1144979	Ca4	1144979	CATATATATATATATATATATATAT A/CATATATATATATATATATATATATA	AACGCATGCAATCTATT CCC	ATTGTTGGCGTCTTCC AAAC	60.0	813	INTERGENIC	--	--	--
Ca4_P2_11461111	Ca4	11461111	AG/AGATATG	TGCAACTTTCATCCTCA CCA	CCCCCTTCTTCTTCAC TTC	60.0	703	INTERGENIC	--	--	--
Ca4_P2_11472631	Ca4	11472631	AC/A	TTTCTTGTCTCCTCGGT TGG	TTTGTCTGTTACGCA CTG	59.3	632	INTERGENIC	--	--	--
Ca4_P2_11477897	Ca4	11477897	GATATATATATA/GATATATATATATA TA	CGGCTTCTCTTCAATGC TCT	AACACACCCCAATTG CATT	60.1	463	INTERGENIC	--	--	--
Ca4_P2_11484974	Ca4	11484974	ATTTTTTTT/ATTTTTTTTTTT	TTTATCACTCCTCAATT CGGGT	TGTAAGTGCAGACAAAT TGTGATA	57.5	202	INTERGENIC	--	--	--
Ca4_P2_11505808	Ca4	11505808	GACA/GACAAAAACA	GCAATGATGACGGTGT ATCG	CATGAACCATGATGTC GAGG	59.9	470	INTERGENIC	--	--	--
Ca4_P2_11506583	Ca4	11506583	CTTA/CTTAATTA	CTCGACATCATGGTTCA TGG	CGGATCTATGCATGGG ATAA	58.4	507	INTERGENIC	--	--	--
Ca4_P2_11514114	Ca4	11514114	AAAACA/AAAACAAACA	TGGATTATGTAATGGG CTGG	TCGCCGAGTTTCAACT CTTT	60.0	509	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_11514646	Ca4	11514646	AT/ATT	AAGAGTTGAACTCGG CGAA	AAGCCACATTTTGGT CAAG	60.0	700	INTERGENIC	--	--	--
Ca4_P2_11529329	Ca4	11529329	TTGTGTGTGT/TTGTGTGT	TTCAAGATGTCGCTGCA ATC	CCAATCTTCCCCTTTTG TCA	59.9	368	INTERGENIC	--	--	--
Ca4_P2_11549653	Ca4	11549653	TAA/TAAAA	AAATTCGTAAAGGTCCA CCG	CCAACGGTGTGCATAA TGAG	60.0	729	INTERGENIC	--	--	--
Ca4_P2_11551467	Ca4	11551467	TTTTTTTAATTTTTTA/TTTTTTTA	ATCCAAAAGCCCCAAT AAC	TCACTGTTGCATCTCCA AGC	60.0	844	INTERGENIC	--	--	--
Ca4_P2_11567821	Ca4	11567821	CA/CACGAATA	TTTCTTTTGCCCTCATT TCAA	TTCCACCTGATCATCAT TTCA	58.9	463	INTERGENIC	--	--	--
Ca4_P2_11635720	Ca4	11635720	CTTCCCCATTCCCCA/CTTCCCCA	TCTGCATTGTGTTGCTG AGG	AAAGCCGCATTTAGAA GCA	60.0	500	INTERGENIC	--	--	--
Ca4_P2_11648302	Ca4	11648302	G/GAGAACAT	TGTGGTACTGGCAA ACCA	GCTGCAACATTGCTTTA CGA	60.0	455	CDS (FRAME SHIFT)	Ca_04392	J	--
Ca4_P2_11850311	Ca4	11850311	AATATATATATATATATATATAT/AA TATATATATATATATATATAT	AAATGGGAGCTCCATG ATGA	TTGGATCTTGTTCACAA TGTTCTT	59.9	253	INTERGENIC	--	--	--
Ca4_P2_11866901	Ca4	11866901	TATAATAATAATAATA/TATAATAATA	GAATAGACCAGGCCAG ACCA	CTATTAGCCTGACAA GGCG	59.9	493	INTERGENIC	--	--	--
Ca4_P2_11926596	Ca4	11926596	GATATATATATATATATATATATAT/AT GATATATATATATATATATATATAT	TGCCTTGTCTTCTCT GCT	TTCAGCATTTCCCATTC TCC	60.0	526	DRR	Ca_04414	O	Trihelix
Ca4_P2_11931582	Ca4	11931582	TGAAAAACAAGAAGAAAAACAA/TGAAA AACAAGAAGAAAAACAAGAAGAAAAAC AA	CAAAGAACCTGTGACG AGCA	TTTAGTTAACGCAGGC ACCC	60.1	480	INTRON	Ca_04415	O	Trihelix
Ca4_P2_11973466	Ca4	11973466	GTT/GTTT	AGCATGGGGATGTAGC TCAA	CTTGAGGACAAAACG GTGT	60.0	338	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_11976075	Ca4	11976075	GTTTTTTTTTTT/GTTTTTTTTTTT	AGCAACCCCTCGAATCT TCA	ATCCAAATTGGCATCC TTG	59.8	777	INTERGENIC	--	--	--
Ca4_P2_12027795	Ca4	12027795	AAAAAAGAAATAAAAGAAATAAA/AAAA AAGAAATAAA	GATGTCGTCATGGCTG TTTG	TCATTGCGTCTTTAGT GCG	60.0	510	INTERGENIC	--	--	--
Ca4_P2_12032031	Ca4	12032031	AGGGG/AGGGGG	CCGCCCCGACTTAATAAA TGA	AAACGGCAACGGTTGT AAAG	60.0	813	DRR	Ca_04429	--	S1Fa-like
Ca4_P2_1203846	Ca4	1203846	AT/A	TGACCAAGATTTTTCCC CTG	ACATCCCATCCAACCA CAGT	60.1	585	INTRON	Ca_07750	I	--
Ca4_P2_12063275	Ca4	12063275	TTTTA/T	TTTTGTGTGCGTTTGAC TGA	AACCACCAAAATACCTT TCAAGA	59.0	694	INTERGENIC	--	--	--
Ca4_P2_12135685	Ca4	12135685	ATTTTTTTTT/ATTTTTTTTT	TTTCCAAATCTTGACT CGG	AGTGGTCGGTGAGTGC TCTT	59.9	383	INTERGENIC	--	--	--
Ca4_P2_12140267	Ca4	12140267	TTCTCTCTCTCTCTCTCTCTCTCT/TT CTCTCTCTCTCTCTCTCTCTCTCTCT CTCT	AAAATATGCCGATCAC TCG	AGAGAAAGGGGGAGCA AAAC	59.7	441	INTERGENIC	--	--	--
Ca4_P2_12197695	Ca4	12197695	AATGAT/AAT	CGGTGGTGAGGAAGT AAAA	TGCATCTGCTTTACCA TGA	60.2	329	INTERGENIC	--	--	--
Ca4_P2_12298586	Ca4	12298586	TACCA/TACCAACACCA	TGGCAAGTTTGTTCAA TGTG	TTTTTGGGGTGATATTG TCG	58.3	454	INTERGENIC	--	--	--
Ca4_P2_12313260	Ca4	12313260	G/GA	ATATTTTCGATGTGCAG GGC	TGAAGGAGGCTTCTAG GACG	59.6	545	DRR	Ca_04455	J	--
Ca4_P2_12334767	Ca4	12334767	C/CTATT	GTCCTCCAATGACCC AAAA	AGGTTAGGTGTCCTGT CAAG	59.2	377	INTERGENIC	--	--	--
Ca4_P2_12342974	Ca4	12342974	AAAGGAAGCCCTG/A	TACCCAGCACTGGTAAA GGC	AGGGGTGTTCCAGTCA ACAG	60.0	374	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_1235200	Ca4	1235200	TAAAAAAAA/TAAAAAAAAA	AAGGATGCATTAGCC GATG	CTTGTTCACCTGTGTG GGC	60.5	493	INTERGENIC	--	--	--
Ca4_P2_12471352	Ca4	12471352	TG/TTCAATACAAG	CCGTACAGCTACCTTT GCAG	TCAAACCTCCATGCTT GACT	58.3	253	DRR	Ca_04469	Z	bHLH
Ca4_P2_12480535	Ca4	12480535	CAT/CATACAAAAT	CAAGTTTGTCTTACAT GGTCG	AAGTTGTCTTTTGTG CCC	60.2	438	INTERGENIC	--	--	--
Ca4_P2_12480728	Ca4	12480728	GTTTT/GTTT	GGGCACAAAAGCACA ACTT	TTCCATTGGTGAATTAA AAACG	58.9	258	INTERGENIC	--	--	--
Ca4_P2_12481811	Ca4	12481811	TAAA/TAAAA	CGAATCAAGGTGAAT CTCAA	AATGCGTGTTTTGTG CCC	60.0	781	INTERGENIC	--	--	--
Ca4_P2_12487827	Ca4	12487827	ATTTTTTTT/ATTTTTTTT	GGGTGGAAGATGTTGC TGAT	AGGTAAAGGCGTGAGGT TGTG	60.2	682	DRR	Ca_04471	R	C3H
Ca4_P2_12490666	Ca4	12490666	TGTAGTAGTAGTAGTAGTAGT A/TGTAGTAGTAGTAGTAGTAGT TAGTAGTAGTAGTAGTA	GGAATATGGCAGCAGA CGAT	GCCTGCATATGGCTAA GAGC	60.0	734	DRR	Ca_04472	R	NAC
Ca4_P2_12493248	Ca4	12493248	ATATTTATTATTATTAT/ATATTTATTAT TTATTATTATTAT	GTTGAGGGGAACAAGG TTGA	TCTGAAAACGGACGAG GAAT	59.7	462	DRR	Ca_04473	--	--
Ca4_P2_12504806	Ca4	12504806	CAAA/CAAAAA	TGGCACCAAGATACC ATCA	TGCAACCGCAATATTTA CCA	60.0	328	INTRON	Ca_04474	--	MIKC
Ca4_P2_12505639	Ca4	12505639	GTCTTAAA/GTCTTAAATCTTAAA	GCAAGGACAAGGGATG TAGG	TCAACCGCAATTGAGA TTTTTC	60.1	677	INTERGENIC	--	--	--
Ca4_P2_12506017	Ca4	12506017	ATTTTTTT/ATTTTTTTT	TCAATTGCGTTGAATT ATCA	AAGCTGCTCTCAACAC CCAT	59.9	485	INTERGENIC	--	--	--
Ca4_P2_12506512	Ca4	12506512	TAAA/TAA	ATGGGTGTTGAGAGCA GCTT	AGACAGCCCAGAAAGC ACAT	59.9	227	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_12518595	Ca4	12518595	ATTTTTTT/ATTTTTTTT	GGAGCCTTACACATGT GGCT	TCATTGTGAGATTGTC ACGTT	58.1	364	INTERGENIC	--	--	--
Ca4_P2_12519771	Ca4	12519771	A/AT	AGCATAGCCTTGCTTTC CAA	GATCGTCCCAATAATG CACC	60.2	227	INTERGENIC	--	--	--
Ca4_P2_12522756	Ca4	12522756	ATTTTTTT/ATTTTTTT	TTGTTGAACGCCAGAA CTTG	TAGAGGAGGGGTAGGA GGGA	60.0	317	INTRON	Ca_04475	C	bZIP
Ca4_P2_12523831	Ca4	12523831	TTGCT/TT	GCTGCTGCCACTTGTA ATCA	GGTACGGAATGGGACA AAAA	59.7	482	INTRON	Ca_04475	C	bZIP
Ca4_P2_12524149	Ca4	12524149	AC/ACC	GCTGCTGCCACTTGTA ATCA	GAAATTTGGACCCCA TCAA	59.6	523	INTRON	Ca_04475	C	bZIP
Ca4_P2_12524698	Ca4	12524698	GAAAAAAAA/GAAAAAAAAA	TGGCATCAGAGATATG GTCCT	TTTGGGTCTCCAACT CAGG	60.1	284	INTRON	Ca_04475	C	bZIP
Ca4_P2_12528293	Ca4	12528293	AT/ATT	TTCTTCGACCAACAAA ACC	CATGGGACCCTAGCGT TAAA	60.0	573	DRR	Ca_04475	C	bZIP
Ca4_P2_12528630	Ca4	12528630	TAAAAA/TAAAAA	TAACGCTAGGGTCCCA TGTC	AGCTTCTTGAGCCAT GTCA	60.9	211	DRR	Ca_04475	C	bZIP
Ca4_P2_12529769	Ca4	12529769	AATA/AATATA	AACGTGTTCAAACG GAGC	GCAAAGCAAATGAAGT AGGCA	60.4	111	INTERGENIC	--	--	--
Ca4_P2_12529895	Ca4	12529895	TAA/TAA	AACGTGTTCAAACG GAGC	ACAACACCTTATTCTGC GCC	60.1	630	INTERGENIC	--	--	--
Ca4_P2_12529954	Ca4	12529954	CTTTT/CTTTTT	AACGTGTTCAAACG GAGC	AGCTTAGCTGGGTGGG TTTT	60.1	707	INTERGENIC	--	--	--
Ca4_P2_12529978	Ca4	12529978	T/TC	AACGTGTTCAAACG GAGC	AGCTTAGCTGGGTGGG TTTT	60.1	707	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_12531515	Ca4	12531515	ATT/ATTT	TTTGCTTCCAATTGGT GAT	AATTCAAGGCCATGT GAGG	59.9	712	INTRON	Ca_04476	--	--
Ca4_P2_12532996	Ca4	12532996	C/CA	ATGAATTTGATGAGCAG GGC	GTTCCAGTTGCCCTGT GTTT	60.0	349	DRR	Ca_04477	K	MYB
Ca4_P2_12542560	Ca4	12542560	TAAAAAA/TAAAAAAA	TGCCAAATTGTGTTGT CGT	TATGACGGGAATGCAT TTGA	59.9	631	INTERGENIC	--	--	--
Ca4_P2_12551844	Ca4	12551844	TGAAGAAGAAGAAGAA/TGATGAA GAAGAAGAAGAAGAA	CCATTCCTTTGCAACG TGT	CCAATCAAGCAGGTT GGTT	60.0	472	INTERGENIC	--	--	--
Ca4_P2_12552603	Ca4	12552603	TTA/TTATA	TGCAGACCCAAAGAGT GACA	TCCAAATTTGCTGTTGT TGC	59.7	708	INTERGENIC	--	--	--
Ca4_P2_12555453	Ca4	12555453	AAT/AATTTAT	TAAACTGCAGCGCAAT CAC	AGATCATCTCCTTCCTG CGA	59.9	335	DRR	Ca_04478	A	EIL
Ca4_P2_12559174	Ca4	12559174	TAG/TAGAG	AGTTCAAGAAACCCCG GAGT	GGCACGTGGAGAAGAG ACAT	60.3	496	INTRON	Ca_04478	A	EIL
Ca4_P2_12561730	Ca4	12561730	CTT/CTTT	ATTTTGGGAGTTCCAT CGG	AAATTGTCCGATGTTGA AAGC	59.1	655	INTERGENIC	--	--	--
Ca4_P2_12561884	Ca4	12561884	AATAT/AAT	TCGTCTATGCGAGTCG TAACA	TTCAAACCTAAGCCACT GCAT	59.8	727	INTERGENIC	--	--	--
Ca4_P2_12561951	Ca4	12561951	TAAAA/TAAAAA	TCGTCTATGCGAGTCG TAACA	TTCAAACCTAAGCCACT GCAT	59.8	727	INTERGENIC	--	--	--
Ca4_P2_12561994	Ca4	12561994	ATTTTT/ATTTTTTT	TCGTCTATGCGAGTCG TAACA	TTCAAACCTAAGCCACT GCAT	59.8	727	INTERGENIC	--	--	--
Ca4_P2_12562229	Ca4	12562229	TAAAAA/TAAAAA	TCGAAAGTTTTGATGTC TCCC	TTCAAACCTAAGCCACT GCAT	59.8	472	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_12562479	Ca4	12562479	CAAAA/CAA	TGCAGTGGCTTAGGTT TGAA	TGTGGTGGGTCAGTCC AGTA	60.0	642	INTERGENIC	--	--	--
Ca4_P2_12563798	Ca4	12563798	GTTTT/GTTTT	TGTGATTTGGGTCAT TGGT	TCACAAATCGAAATGC GGTA	60.1	672	INTERGENIC	--	--	--
Ca4_P2_12566101	Ca4	12566101	TAAAAA/TAAAAA	GTTGTGAATCAACTGG CCC	CGGAGAGAATATGGAA AGACTGA	59.7	558	INTERGENIC	--	--	--
Ca4_P2_12566654	Ca4	12566654	AG/A	TCAGTCTTTCCATATTC TCTCCG	AAAACCCAGGAGGTCA GCTT	60.1	619	INTERGENIC	--	--	--
Ca4_P2_12567928	Ca4	12567928	AATATATATAT/AATATATAT	ATTCGGCAATTCTACCC CTT	GAGGTAGAGCTCGACG ATGG	60.0	446	INTERGENIC	--	--	--
Ca4_P2_12570942	Ca4	12570942	T/TC	GGCTCACATCAGGAAT GGAT	CACCAGATCCCAATTT GCTT	59.9	654	DRR	Ca_04479	E	--
Ca4_P2_12571013	Ca4	12571013	GTATATA/GTATA	GGCTCACATCAGGAAT GGAT	GGCTCTGGTCATTGG ATGT	59.9	968	DRR	Ca_04479	E	--
Ca4_P2_12572622	Ca4	12572622	TAAAAAAAA/TAAAAAAAAA	TGGAAGAGCATGCAAA ACAA	TGAGATCTTGAGGCAT GGTG	59.8	644	INTERGENIC	--	--	--
Ca4_P2_12573367	Ca4	12573367	AAT/A	GGGACTACTTTCGCGA TTCA	TGTTAATTGAAACATGC GACA	57.7	402	INTERGENIC	--	--	--
Ca4_P2_12573605	Ca4	12573605	CAATTAAAT/CAATTAAATAATTAAAT	GGAGGCAGAGAATATG ATACGG	AGATTTGGCGCGCTTT ACTA	60.0	884	INTERGENIC	--	--	--
Ca4_P2_12577207	Ca4	12577207	A/AC	TGGAAGAGCATGGGTG TGTA	GAAGTGCAATGGCTGA CAGA	60.0	577	INTRON	Ca_04480	L	--
Ca4_P2_12577562	Ca4	12577562	T/TC	TCTGTCAGCCAATGCA CTTC	CAGGAATGCCAAACC AAAT	59.8	409	INTRON	Ca_04480	L	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	Indels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_12577604	Ca4	12577604	CTTTTTTTTT/CTTTTTTT	TCTGTCAGCCAATGCA CTTC	CTGTCAACGCAACA AAGA	59.9	561	INTRON	Ca_04480	L	--
Ca4_P2_12578159	Ca4	12578159	CTTTTTTT/CTTTTTTT	TCTTTGTTGGCTGGTGA CAG	ACCCAATGCCTAAGAA GCCT	60.1	289	INTRON	Ca_04480	L	--
Ca4_P2_12578358	Ca4	12578358	TAT/TATACCAGCAT	AGGCTTCTTAGGCATTG GGT	ATTCTTGTAAATCCCGC GTTG	60.0	346	INTRON	Ca_04480	L	--
Ca4_P2_12580791	Ca4	12580791	T/TTA	AAATTGCGCTCTGATT GCT	CTTAACCCAATTGGGA GGCA	59.9	946	INTRON	Ca_04480	L	--
Ca4_P2_12581069	Ca4	12581069	TAA/TA	TTTTAGTTGCCGCTTT TTG	CTTCAGGAGGGTGATA CCGA	60.1	468	INTRON	Ca_04480	L	--
Ca4_P2_12585143	Ca4	12585143	A/ATCTACAT	TGACGGGACAATTAC AAAA	AAAAAGACCATGTCAA GCCG	60.1	144	DRR	Ca_04480	L	--
Ca4_P2_12586799	Ca4	12586799	AC/A	AACCTAATAAGCCCG AAGC	ATGACCCGTACCTTGT TTGC	59.9	833	INTERGENIC	--	--	--
Ca4_P2_12588156	Ca4	12588156	TAAA/TAA	ACAATTCGAAGATACC CCC	GATGTGGTCGTTGTCG AGTG	60.2	506	INTERGENIC	--	--	--
Ca4_P2_12588357	Ca4	12588357	TAAAAAAAAA/TAAAAAAAAA	ACAATTCGAAGATACC CCC	GATGTGGTCGTTGTCG AGTG	60.2	506	INTERGENIC	--	--	--
Ca4_P2_12589173	Ca4	12589173	ATTTTTTTTT/ATTTTTTTT	CTTTCGAGATCTGATGC GTG	ACAACGTCTCCATTAC GCC	60.0	753	INTERGENIC	--	--	--
Ca4_P2_12589362	Ca4	12589362	CTTTTTTTTT/CTTTTTT	CAATGGTCTTTTGGG GTTT	ACAACGTCTCCATTAC GCC	60.0	615	INTERGENIC	--	--	--
Ca4_P2_12589473	Ca4	12589473	G/GA	TGTGGCATTTTGGTAAT GCT	ACAACGTCTCCATTAC GCC	60.0	200	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_12592291	Ca4	12592291	ATA/ATACAAATACTTGATGTA	TGACTGCCGCTTTGTCA TTA	TTTCGATTCAAACCCAA ACC	59.8	588	DRR	Ca_04481	R	--
Ca4_P2_12592831	Ca4	12592831	AATATATATATATAT/AATATATATAT	TGCAAAATGTGCGATA GAGG	AGCCATTATGATGGA CGAT	59.2	732	DRR	Ca_04481	R	--
Ca4_P2_12593132	Ca4	12593132	AT/ATGTTGT	TCACTGTAAGTCCATGC CTCC	GCCCTTGTCAAAACAA GTTGA	60.1	454	INTERGENIC	--	--	--
Ca4_P2_12593182	Ca4	12593182	TAAA/TAAA	TCACTGTAAGTCCATGC CTCC	GCCCTTGTCAAAACAA GTTGA	60.1	454	INTERGENIC	--	--	--
Ca4_P2_12594768	Ca4	12594768	T/TCTG	AGGAAGACCTGCCTCC TCTC	GCACAACCAACAGGT CAAA	59.6	570	INTRON	Ca_04482	R	--
Ca4_P2_12597000	Ca4	12597000	AT/ATCTAATGGT	CACATGGTTCCAGGTT CCTT	CTTATGGCGTGGCCTT AAAC	59.6	820	DRR	Ca_04482	R	--
Ca4_P2_12598611	Ca4	12598611	CAA/CA	GGACCAACCCCTCTGC ATAA	TACGATGCAGTGAAAC TCCG	59.9	466	INTERGENIC	--	--	--
Ca4_P2_12599330	Ca4	12599330	TAAAAAA/TAAAAAA	CGGAGTTTCACTGCAT CGTA	TTTGAGCGGTTGTTAT GTCG	59.7	374	INTERGENIC	--	--	--
Ca4_P2_12600801	Ca4	12600801	TAAAAAA/TAAAAAA	ACAGCGTTGTGCTTAC GATG	GGGACAACGAACCTA GTCA	60.0	870	INTERGENIC	--	--	--
Ca4_P2_12601482	Ca4	12601482	CAA/CAA	TTAATTCGCTTGGGATC AGG	AGCGCTACATCTCATT GGTG	58.9	185	INTERGENIC	--	--	--
Ca4_P2_12604165	Ca4	12604165	CTTTTTTTTTTTT/CTTTTTTTTTTT	CGATTTCACTTCCCAAA CTT	AGCAGCAGAAAGCATG GACT	60.2	209	INTERGENIC	--	--	--
Ca4_P2_12637168	Ca4	12637168	TAAAAAAA/TAAAAAAA	GTGGCTGCATTGATAT GGTG	CAAACTCACTTCAGGT GCCA	59.7	697	DRR	Ca_04486	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_12639362	Ca4	12639362	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT	TGCTTAAATGGCCAG ACTT	CGAAATTGATGTCGGT TACA	57.1	336	INTERGENIC	--	--	--
Ca4_P2_12644877	Ca4	12644877	CATATATATATATATATAT/CATATATAT ATATATATATATAT	TCACTTGTAGTATGAC CACACA	TTTGAGGCCATTAGTT GGG	59.9	877	INTERGENIC	--	--	--
Ca4_P2_12665662	Ca4	12665662	AATATATATATAT/AATATATATATATAT	TTACCCCAATCCCCTAC ACA	GCTTTTGAATGAAAG CAAA	58.0	142	INTERGENIC	--	--	--
Ca4_P2_12676299	Ca4	12676299	CATATGTGATATGTGATA/CATATGTGA TATGTGATATGTGATA	GATCTCGGGTTAGATG GTCG	TCCACTCTCGCTCTCA ATCC	60.5	740	INTERGENIC	--	--	--
Ca4_P2_12700504	Ca4	12700504	CAAAAAAAAA/CAAAAAAAAA	ACATGCACGACTCATAC CCA	TTTTTCGTGTTTCGGTT GTAA	58.3	570	INTERGENIC	--	--	--
Ca4_P2_12702239	Ca4	12702239	ATTTTTTTTTTT/ATTTTTTTTTTTT	TTTTGGAATCATATGTT ACCAATT	TTTTCGACTCAAAACAC CCC	59.9	483	INTERGENIC	--	--	--
Ca4_P2_12715012	Ca4	12715012	TA/TATAGAAAGA	AGAAGCGATGCAGACA ACTTT	AGGGGCGAATATCGCT AACT	60.1	373	INTERGENIC	--	--	--
Ca4_P2_12724267	Ca4	12724267	GAAAAAAAAA/GAAAAAAAAA	CCAAGTGCAATGACGA GCTA	CAAGGATATGGATCCA ATGTGA	59.6	610	INTERGENIC	--	--	--
Ca4_P2_12738952	Ca4	12738952	GATATATATATATATATATATA/GATA TATATATATATATATATATATA	CCTCGCAGCTGTAAAT GGT	TCTGGGTGAGACGACA ATCA	60.2	631	INTRON	Ca_04493	--	FAR1
Ca4_P2_12784480	Ca4	12784480	TATAATAATAA/TATAATAATAAAT AA	TAAAGCCATCATCAATG CCA	GACAAACCATGCACAA GTGG	60.0	524	INTERGENIC	--	--	--
Ca4_P2_12788740	Ca4	12788740	TTATATATATATATATATATA/TTATAT ATATATATATATATATATA	TCACATGCGTCCAATT TTG	AAAACGTGGGCCAGC TAAC	60.2	845	INTERGENIC	--	--	--
Ca4_P2_12852660	Ca4	12852660	AATATATATAT/AATATATATATAT	CATTCTCTATGCCAC GCA	AACCTGTGCTCTCAAG GGG	59.0	593	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_12866217	Ca4	12866217	GGG/GGGAGCTTTATTTTTGG	TAGACTCCACTAAGCCC CCA	CCTTCCAACGCAACATT TCT	60.1	294	DRR	Ca_04506	T	FAR1
Ca4_P2_12885868	Ca4	12885868	ATTTTTTTTT/ATTTTTTTTT	AGGTCATTGGTGTGCA AGGT	TGAAGCTGACTGCACT TTGG	60.2	666	DRR	Ca_04508	R	--
Ca4_P2_12892488	Ca4	12892488	CTTTTTTTTTTTTTTT/CTTTTTTTTT TTTT	TACCGACCATTCTGTCC TCC	TGGCATGAAGTGCAC CAAT	60.0	296	INTERGENIC	--	--	--
Ca4_P2_12904478	Ca4	12904478	ATTTTTTTTT/ATTTTTTTTT	GCTTCCGCCCTAAAAA TAC	ACCGTATTGTTTCTCCG TCG	60.0	519	INTERGENIC	--	--	--
Ca4_P2_1297403	Ca4	1297403	TAAAAAAAA/AAAAAAAAA	TGTTATAGCAAATTGCC ACTGTC	CTCTCAAATATGATGT GACAAAA	57.5	542	INTERGENIC	--	--	--
Ca4_P2_12999105	Ca4	12999105	TTATATATATATATATATATAT/TTA TATATATATATATATATATATAT	TTTTCATGATTGTTGCG GTT	AGATACGAAAGCCAAA TGCG	60.2	971	INTERGENIC	--	--	--
Ca4_P2_13028368	Ca4	13028368	CTTGTTG/CTTGTTGTTG	TGCACGCTCCACATTAT TTC	CTTTCTGGGGCAAATT GAA	60.0	367	INTRON	Ca_04525	T	bHLH
Ca4_P2_13068436	Ca4	13068436	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT ATATATAT	GCTCAATTTTCTTAGG GCG	TGTCGCAACAATTGTC TCTT	58.4	432	INTERGENIC	--	--	--
Ca4_P2_13068683	Ca4	13068683	CTATATATATATATATATATATATA TATATAT/CTATATATATATATATAT ATATATATATATAT	TGCGACATTTGTAGAG TTTCAA	TGAAAAACATAATAGGT CCCCTT	58.0	292	DRR	Ca_04530	--	G2-like
Ca4_P2_1309061	Ca4	1309061	GAAAAA/GAAAAAA	AGCTACAAAATGGGA ATGG	CCACGGTACCGAAAA TGAT	59.7	237	INTERGENIC	--	--	--
Ca4_P2_13096912	Ca4	13096912	TTATATATATATATATAT/TTATATATA TATATAT	TTACCTTAACACCCCG CAC	TTCCGCACTACGACT TCCT	59.9	316	INTERGENIC	--	--	--
Ca4_P2_1310245	Ca4	1310245	ATTTTTTTTT/ATTTTTTTTT	TGAAATTGCTTGATTT GCTTT	CGACCGATTTATCCG TCTC	59.5	825	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_13133292	Ca4	13133292	ATTTT/ATTTTT	CAGCCGCCTCCAAC TTAC	CCATCCATGCAATTGA CAC	59.8	408	INTERGENIC	--	--	--
Ca4_P2_13162283	Ca4	13162283	T/TAATAA	TCGTGCGAGTATTCAA ACG	ATGGCAATGCATCAAT CAA	59.9	524	INTERGENIC	--	--	--
Ca4_P2_13325790	Ca4	13325790	ATTTTT/ATTT	TTGATCATCCTATTTCA AAAGTTCA	ATTTTCGACTCCACACA CGG	61.0	640	INTERGENIC	--	--	--
Ca4_P2_13386456	Ca4	13386456	AATTATTATTATTATTATTATTAT TTATTATTATTATTATTATT/AAATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATT	CGGTAGGTGCTAAAAT GCC	CGGTCCTTTTCCAACA CATT	60.0	346	INTERGENIC	--	--	--
Ca4_P2_13387249	Ca4	13387249	AATATATATATATATATATATATAT ATATATATA/AAATATATATATATATATA TATATATATATATA	ATCAGCTCATGCTTTGA TCG	CCTTTTGGTCTCTCAAC CGA	60.2	615	INTERGENIC	--	--	--
Ca4_P2_13433311	Ca4	13433311	TA/T	CGAGCAAACACAATGAA TGG	TTGGTTGGTTCATTGG TTGA	59.8	569	INTERGENIC	--	--	--
Ca4_P2_13467814	Ca4	13467814	GATATATATATATATATATATATAT AT/GATATATATATATATATATATAT ATATATATAT	AAGTTGATTGTCCACAC AGGC	ACGGTGGATCCCTTCT CAAT	60.7	703	INTERGENIC	--	--	--
Ca4_P2_13509527	Ca4	13509527	ATTTT/ATTTTATTAATAAAATTTATTTT	CCTCTTCACGGTGCTC ATTT	CCTCGTTTTAAGCCCA ATCA	60.1	158	INTERGENIC	--	--	--
Ca4_P2_13601854	Ca4	13601854	T/TC	GAAAACTGCCACTTACC GGA	TTCCGACAATAATTTAA ACGGT	57.7	625	INTERGENIC	--	--	--
Ca4_P2_13604124	Ca4	13604124	GA/G	TTCAGACCCAGTTTCA TCA	GACATGTATCGTGTGC GGTC	60.0	631	INTERGENIC	--	--	--
Ca4_P2_13608641	Ca4	13608641	ATT/ATTT	GGTGACGTGGCTTACT CTCC	CCCTTTCTGCATGGAC AAGT	60.1	413	INTERGENIC	--	--	--
Ca4_P2_13617448	Ca4	13617448	TG/TGG	GGGCCTTTTCTTCAGCT TTT	TGCATGTTATCCGCAAT CTC	59.7	713	DRR	Ca_04579	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_13620272	Ca4	13620272	A/ATAT	TCAACATGTGGTTGAA TTGG	ATTGGTGGGAGCAAGT TAGC	59.2	930	INTERGENIC	--	--	--
Ca4_P2_13643715	Ca4	13643715	GTT/GTTT	ATAGTTGTTGAAGGG CACG	GGGTGAAGAATGTATG CCAA	59.8	798	INTERGENIC	--	--	--
Ca4_P2_13643938	Ca4	13643938	AA/AATATA	GCTTCCGACAAAGGTC AGAG	GGGTGAAGAATGTATG CCAA	59.8	641	INTERGENIC	--	--	--
Ca4_P2_13650120	Ca4	13650120	GAT/GATCAATATAT	GAACTGGTATCGGGCT TGAA	CGTGCATTGAGCAACT GTCT	60.1	635	INTERGENIC	--	--	--
Ca4_P2_13655349	Ca4	13655349	AG/A	AATTCACAAGGTCCAGT GGC	GGGCATGATTTTTCCC CTAT	60.0	790	INTERGENIC	--	--	--
Ca4_P2_13657824	Ca4	13657824	ATATT/AT	TGCATGCATGAATAGT TTGA	TCTCCCAATGTATTG CTCA	60.2	395	INTERGENIC	--	--	--
Ca4_P2_13666161	Ca4	13666161	ACTG/ACTGCTG	CCCATTTACCTCTTTG GAA	TTCCCGCAACAAATAG ATCC	59.9	840	CDS (large-effect mutations)	Ca_04586	Q	B3
Ca4_P2_13691259	Ca4	13691259	GTT/GT	CCATTTATTCCGGCAT TTC	AGCCGACCAAACTA TTGG	60.0	271	INTERGENIC	--	--	--
Ca4_P2_13692964	Ca4	13692964	TGTATCAGTAT/TGTAT	TGTATCAAGTTCGTCA CCG	TTGATTTACGCCTGTT CCC	59.9	247	DRR	Ca_04590	--	--
Ca4_P2_13700589	Ca4	13700589	GATATATATATATA/GATATATATATATA	CCAAATCCCAATCAGC ATC	GCCCATACGCCTCTTA ACAA	60.1	825	INTRON	Ca_04591	--	--
Ca4_P2_1371815	Ca4	1371815	TATAATAATAATAATAATAATAATAA AATAATAATAATAA	ATGAAGTCCCCATGA GTGC	AGGCAAAAGGGAAGA CCAC	60.5	463	INTERGENIC	--	--	--
Ca4_P2_13730284	Ca4	13730284	TTATATATATATATATATATATAT/TTA TATATATATATATATATATATATAT	AACACATAACCACTTCG CCC	TGCAGCGAAATTATTC GAGA	59.5	458	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_13739989	Ca4	13739989	TA/T	TTTCTCCGCTTAGTGGT	AAATGATCAAATCGAAAGAAAAA	58.3	432	INTERGENIC	--	--	--
Ca4_P2_13743876	Ca4	13743876	GAA/GAAGCATATGCAA	CTGGTTTCATGCCCTCAAT	TCAAAGCACTAGCCACATGC	60.0	740	DRR	Ca_04598	R	MYB_related
Ca4_P2_13757687	Ca4	13757687	ACTTGC/AC	TAACTGTGCCATGTTCA	AAGATGGGAGAGGGGAAGA	60.0	649	INTRON	Ca_04600	--	NF-YB
Ca4_P2_13757858	Ca4	13757858	ATTTT/ATTTT	GCTCTCCATTTATCCAAGC	AGATGGGAGAGGGGAAGAA	60.0	327	INTRON	Ca_04600	--	NF-YB
Ca4_P2_13776936	Ca4	13776936	GTATATATATATA/GTATATATATA	TGTGTCTGCCATGAGTGT	ATATGCGGTTTCATCCTTGC	59.9	301	INTERGENIC	--	--	--
Ca4_P2_13784894	Ca4	13784894	T/TATA	ACCCAACAAGACTGAGGCAC	CCACTCCAAAACTCATGTTAGC	60.0	440	INTERGENIC	--	--	--
Ca4_P2_13800813	Ca4	13800813	CGGTTG/CG	CCGCACGTGAATTAAAAAT	TTCTGCTTCGATGTATCCC	60.0	645	DRR	Ca_04606	--	NF-YA
Ca4_P2_13808256	Ca4	13808256	T/TATATTC	TCGAGTTGAAACCCGAGAAA	CGGAGAAGTGAACGTGGAAT	60.1	525	INTERGENIC	--	--	--
Ca4_P2_13810887	Ca4	13810887	TTGA/TTGAATGA	GATTAGGTGTGCCTGACGC	GCTGAGATGAAGGCAAAATG	59.8	281	INTERGENIC	--	--	--
Ca4_P2_13815340	Ca4	13815340	TTTTTTATTTTT/TTTTTT	CAACCCTTGTGTTGTGTG	TGTCAAAGGGAAGTGCAAGA	59.4	265	INTERGENIC	--	--	--
Ca4_P2_13826688	Ca4	13826688	ATT/AT	TGGAACATGTGAAGCGGAA	GTTGAGGAAAACGCAAGAAG	59.9	898	INTERGENIC	--	--	--
Ca4_P2_13864543	Ca4	13864543	CTATATAT/CTATATATATATAT	AATGCAGCTGCTCAAAACCT	CCGGTCACTGATATATCCACAA	59.7	283	INTRON	Ca_04610	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_15012755	Ca4	15012755	AATATATATATATATA/AATATATATAT ATATATA	TACTCCCAATGGCGA CTTC	GACATTTCGAAC TTGAA TTTCCT	58.7	322	INTERGENIC	--	--	--
Ca4_P2_15016370	Ca4	15016370	CTAGT/CT	CTACAAATCGCCTTCC CAA	CATCATTCCATAACAAT GCCA	59.2	437	INTERGENIC	--	--	--
Ca4_P2_15045995	Ca4	15045995	CTATATATATATATATATATATATATA TATATA/CTATATATATATATATATATA TATATATATATATATA	GAAAATTATATTCTTTC CCAAATGC	GGAGGAGAGAGACGAA GGCT	60.1	402	INTERGENIC	--	--	--
Ca4_P2_15048181	Ca4	15048181	TA/TAA	CAAAAGCTGTACACCC CGT	AATCGATTGATTCAGC CCAG	60.0	528	INTERGENIC	--	--	--
Ca4_P2_15081049	Ca4	15081049	ATTT/ATTTT	TTTGCAACTCCATTC TT CCC	GATTCCTCCATTCTTAAC GCC	60.6	688	INTERGENIC	--	--	--
Ca4_P2_15095206	Ca4	15095206	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	TGACCGCTAAGTTGTG TGC	TTTTACCACTGCACAC GCAT	60.2	359	DRR	Ca_05591	D	LBD
Ca4_P2_15111425	Ca4	15111425	A/ATAAT	TTGCACTTTTGAGAAGT CACG	TCAAGAGGTAGCATT C CGAGA	60.0	949	INTERGENIC	--	--	--
Ca4_P2_15216075	Ca4	15216075	TAAAAAAAAA/TAAAAAAAAA	TGAACCAAAATCATCG CAA	AGGCTCTTGTTAAGCG ACCA	60.0	402	INTERGENIC	--	--	--
Ca4_P2_15221737	Ca4	15221737	ATTTTT/ATTTTTT	AGGGTGCGATCAGGTA AATG	AACAAGTGGTGCGATT GTGA	60.2	430	INTERGENIC	--	--	--
Ca4_P2_15234278	Ca4	15234278	AA/AATTAATAATAATA	AGGTTGTTACACCAAC CAA	TTGGGGTTATGTGTG TCG	60.4	439	INTERGENIC	--	--	--
Ca4_P2_15251363	Ca4	15251363	AAAATAAATAAATAAATAAATAAAT AA/AAAATAAATAAATAAATAAATA AATAAATAA	TCCTGAAACAAACGCAT TCA	AAATAGGTTAGGCCGT CCGT	59.9	685	INTERGENIC	--	--	--
Ca4_P2_15252487	Ca4	15252487	GTA/GTACATATATA	TTTTTGAGTGAAACCAG TTTGG	CCAACCATGTTGGTGT GCTA	60.4	533	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_15724429	Ca4	15724429	CTTCTTCCTCTTTCTCCTCTTT/CTTCT TCCTCTTT	TCGTTACCCCTCTCGTC ATC	GCCTGCCATCAATATT CACA	59.5	390	DRR	Ca_05532	R	ERF
Ca4_P2_1575145	Ca4	1575145	GAAATAAATAAATAAATAAATAA/GAAA TAAATAAATAAATAAATAAATAA	TGGAAAGCAATTAATCA CCG	AGTTCGCGCGCTTTTA TTTA	60.0	335	INTERGENIC	--	--	--
Ca4_P2_15764982	Ca4	15764982	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATAT AT	GGGGCTAAGGAGTTT GTGA	CGTCGCTGTGGCATT AATA	59.7	250	INTERGENIC	--	--	--
Ca4_P2_15786147	Ca4	15786147	ATTTTTTTTT/ATTTTTTTTTT	AAAGAAGGAAGGAAA TCGG	CTGGTGATGCGCTTAA TTTG	59.0	533	INTERGENIC	--	--	--
Ca4_P2_15867938	Ca4	15867938	CGCACTCGCGGATAT/C	TGGAGCAGGGATGTCA TGTA	AGATTTTCCCCACCCAA ATC	60.0	527	DRR	Ca_05521	T	bHLH
Ca4_P2_15877801	Ca4	15877801	CA/CAA	TCAAGCAACGACATTC TGC	AGCCAATGCAGAAGCA GTTT	60.0	785	INTRON	Ca_05520	T	bHLH
Ca4_P2_15882468	Ca4	15882468	AA/AAATATTTA	TGCATTGGGAGTTGTT TTG	TGTCGCGAGTTCTATC TGTA	59.6	317	DRR	Ca_05519	--	--
Ca4_P2_15882875	Ca4	15882875	CTA/CTACTGCTATTA	TCACAGATAGAACTCGC GACA	GTAAAGTGTGGGGT GCAT	59.7	730	DRR	Ca_05519	--	--
Ca4_P2_15885406	Ca4	15885406	A/AT	CCTCAGTGAGATCAAG GTTGG	TTTTTCCAATACATGC ACA	57.5	676	INTERGENIC	--	--	--
Ca4_P2_15885901	Ca4	15885901	TA/T	TGTGCATGTATTGGAA AAA	GAGATGATGCACCAA TCCA	59.5	493	INTERGENIC	--	--	--
Ca4_P2_15891601	Ca4	15891601	CTTTTTTT/CTTTTTTT	AATCGTATCCCCTTGTG GGT	CCGATGCTCCCTAGTT GCTA	60.4	965	INTERGENIC	--	--	--
Ca4_P2_15891918	Ca4	15891918	T/TA	CGACGTCAACACAAATT GC	AGATGCGCGGTGATTA GAGT	59.9	802	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_15891944	Ca4	15891944	CTTT/CTTTT	CGACGTCAACACAATT GC	AGATGCGCGGTGATTA GAGT	59.9	802	INTERGENIC	--	--	--
Ca4_P2_15892004	Ca4	15892004	AC/ACCGACTC	CGACGTCAACACAATT GC	AGATGCGCGGTGATTA GAGT	59.9	802	INTERGENIC	--	--	--
Ca4_P2_15892103	Ca4	15892103	AG/A	TAGCAACTAGGGAGCA TCGG	AGATGCGCGGTGATTA GAGT	59.9	292	INTERGENIC	--	--	--
Ca4_P2_15898293	Ca4	15898293	T/TA	CCTTCAAAATTTGTGAG TCCG	ATGGGAATTGGTGAAT GGAA	60.0	941	INTERGENIC	--	--	--
Ca4_P2_15903673	Ca4	15903673	CTTTTTTTTT/CTTTTTTTTT	GAAGGATGCAATGGAA GGAA	TGTGCGAGACCAATTC AAAA	60.2	822	DRR	Ca_05518	T	B3
Ca4_P2_15906376	Ca4	15906376	ATT/AT	TCACCAATTGGATTGCA AAA	GCTCCCTTCCAACATT CAA	60.1	553	CDS (FRAME SHIFT)	Ca_05517	T	S1Fa-like
Ca4_P2_15908188	Ca4	15908188	CTA/CTAATTA	ATGTCGATTGAAGTTGC TGC	CGAAGGTGCATGTCAA AGAA	59.8	827	DRR	Ca_05517	T	S1Fa-like
Ca4_P2_15917692	Ca4	15917692	TAA/TAAA	CCAGACAGGGAAGGAA GACA	GCCTTCATTTGGGTC ACAT	59.8	952	DRR	Ca_05516	--	bHLH
Ca4_P2_15923050	Ca4	15923050	GAAAAAAAA/GAAAAAAAA	CAACGGCTCTATTTC TTTC	GTCCTGTGTTTTGGC ACCT	60.0	419	DRR	Ca_05515	--	ERF
Ca4_P2_15926036	Ca4	15926036	AAAGA/AAAGAAGA	GTTTCCCTTACGCCAGA TGA	GCATTGCTGTATTGGT GCAT	59.6	532	DRR	Ca_05513	R	--
Ca4_P2_15926090	Ca4	15926090	ACT/ACTCT	AGCAGCACCCACCAAA TATC	TGCTGGTGTCTAGTT GGCA	60.4	674	DRR	Ca_05513	R	--
Ca4_P2_15930383	Ca4	15930383	CAAAAAAAAA/CAAAAAAAAA	ACCCACACAATGATCA CCT	CTGTGCTTTGTCCGTG CTTA	60.1	438	INTRON	Ca_05513	R	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_15932632	Ca4	15932632	GAAAAAAAA/GAAAAAAAAA	TGCTGCTTTGTGGTCT GAC	CAGGAGTACCCGACTG GTGT	60.0	811	INTRON	Ca_05513	R	--
Ca4_P2_15934332	Ca4	15934332	ACACACATTTCTAGCACACAT/ACACAC AT	CCCAATGCATACCAAAA GGT	CTGAGGACAGTGACTT GCCA	60.0	189	INTRON	Ca_05513	R	--
Ca4_P2_15937811	Ca4	15937811	TC/T	TCAGTTGATGTTCTGCC GAC	AACTATGTGCACCTAC CGCC	60.0	401	INTERGENIC	--	--	--
Ca4_P2_15939075	Ca4	15939075	AT/ATT	GTGCACCGGTAACGAA GTTT	TTCGTTGAGGTTTGG ATTG	59.9	452	INTERGENIC	--	--	--
Ca4_P2_15945430	Ca4	15945430	AAAA/AAAAATCAAA	AGTCCAGCCTCTGCAC AAAT	GGAGCAAGATGGAACA ATCAA	60.1	212	DRR	Ca_05512	O	C2H2
Ca4_P2_15950381	Ca4	15950381	ATTTTTTTTT/ATTTTTTTT	AAGCACGCTGCAATTG ATTA	AGATCCAGTCTCACGT CGCT	60.0	707	INTERGENIC	--	--	--
Ca4_P2_15950510	Ca4	15950510	GTTATTTTTATT/GTTATTTTTATTATTAT TTTTATT	AAAAGGGATTGTCTTCC CAGA	CAAAGGTAGCCCTGCT TCAG	60.0	601	INTERGENIC	--	--	--
Ca4_P2_15952722	Ca4	15952722	AG/A	ATTTCAACGTCAATCAC GCA	ACCCACCATAGCTACC ACCA	60.3	822	INTERGENIC	--	--	--
Ca4_P2_15956008	Ca4	15956008	AATTATTATTA/AATTATTATTATTA	CAATTCCAACCATTTGG GTC	TGGGTAGTGGGTTTG TTGT	60.1	540	INTERGENIC	--	--	--
Ca4_P2_15958115	Ca4	15958115	ATTAA/ATTAAAGTTAAA	TTTGGTTCACATGATCG CAT	CCCCTATTCACCGCAT AAGA	59.9	743	DRR	Ca_05511	--	C2H2
Ca4_P2_15958358	Ca4	15958358	CT/C	ACAAAGCTCAAACCTCG CAT	CCCCTATTCACCGCAT AAGA	59.9	342	DRR	Ca_05511	--	C2H2
Ca4_P2_15962161	Ca4	15962161	TAAAA/TAAAA	TTCAACCGAACCCATCT AGG	CCATGATGCACAATTC CTG	59.9	474	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_15962571	Ca4	15962571	ACTT/ACTTCTCTT	CAGGAAATTGTGCATCA TGG	TGGTGCATGACTGAAT GGTT	60.0	723	INTERGENIC	--	--	--
Ca4_P2_15966850	Ca4	15966850	TTATATAT/TTATAT	TTTGCTCGTAGAGGTG CTCA	TTGCCCTTACGACAC TATC	60.0	846	INTERGENIC	--	--	--
Ca4_P2_15969051	Ca4	15969051	CAA/CA	TAAGCGTTAACTTGCA CCC	TGGTTGTGGCGATTAC AAGA	60.1	494	DRR	Ca_05510	J	NF-YA
Ca4_P2_15982123	Ca4	15982123	AT/ATT	GGAAATAACGCAAAAAG GCA	TCAAAGTGCCATGAAT CCG	59.5	567	INTERGENIC	--	--	--
Ca4_P2_15983115	Ca4	15983115	AATT/AATTATT	TGATGTTGATGATATGA CGTGG	ATTGTTCTGCAATGAG GGG	59.9	729	INTERGENIC	--	--	--
Ca4_P2_15987672	Ca4	15987672	GTTACAA/GTTACAAATTACAA	TGAATGCATTGTTGCTG GTT	CTGGACTAAAACCAAC CGAA	60.0	224	INTERGENIC	--	--	--
Ca4_P2_15989208	Ca4	15989208	T/TC	AACAGCGCACAAAGTGT TTCA	TCTCATCCATATATTGC GAATCA	59.4	238	INTERGENIC	--	--	--
Ca4_P2_15990207	Ca4	15990207	ATA/ATATTA	GATTGTCCAACAAACGA GCTT	AATGGTAGTCCGTTTT GCCA	60.4	305	INTERGENIC	--	--	--
Ca4_P2_15998419	Ca4	15998419	G/GCTTAC	TTTTTCCAAACCAGGAA ACG	CCAATTACCACAAGCTT CCAA	60.0	300	INTERGENIC	--	--	--
Ca4_P2_16000633	Ca4	16000633	TACA/TA	CGATGTGATTTTGTAG TCAAGC	TATTTTCCGCACACCAA TGA	59.9	392	INTERGENIC	--	--	--
Ca4_P2_16025562	Ca4	16025562	TAAA/TAAA	TTGAACGATCAAAATTG GCA	CGTAGGGTTCACCAAG CAAT	60.0	744	DRR	Ca_05507	T	--
Ca4_P2_16027847	Ca4	16027847	A/AG	AATTTTGGCTTTTTCG TTG	ATCATATCCATCAAACG GGC	59.6	536	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_16028033	Ca4	16028033	CT/C	ATGCAACCTCCATTAGC CTG	TTGGTTTCTAACCCAAC TCATATTC	59.7	322	INTERGENIC	--	--	--
Ca4_P2_16028385	Ca4	16028385	GTTTTTTTT/GTTTTTTT	CCCTCGTGCACAAGTT CTTT	CATTTTGCATTGATAC ACACG	59.0	885	INTERGENIC	--	--	--
Ca4_P2_16028817	Ca4	16028817	CGTGTGT/CGTGTGTGT	TGATTTTACACAAGGGT AATTTTG	CGCCGCATACTGTAAT GGTA	59.6	951	INTERGENIC	--	--	--
Ca4_P2_16043366	Ca4	16043366	A/AG	CGCAAACGCTTTAGAAC TCC	ATGGACACGAGGGTTT TTCA	60.4	484	INTERGENIC	--	--	--
Ca4_P2_16046439	Ca4	16046439	GTTT/GTTTT	GCTTGTGGTGTGTTT GGTG	AGCAACAGGTGCTGCC TTAT	59.9	853	INTRON	Ca_05504	J	bHLH
Ca4_P2_16046471	Ca4	16046471	TATCATCAT/TATCAT	GCTTGTGGTGTGTTT GGTG	ATCTTCTCGGGTGCC TTTT	60.1	880	INTRON	Ca_05504	J	bHLH
Ca4_P2_16048595	Ca4	16048595	TG/T	GACCATTTTGGTGATT GGG	AGGTACCACCAACCAA GTGC	59.9	258	INTRON	Ca_05504	J	bHLH
Ca4_P2_16054222	Ca4	16054222	CTTAATTAA/CTTAA	CACAGGACAGGACGGT AGGT	GGATCCTTGAGGTTGT TCGT	59.0	626	DRR	Ca_05504	J	bHLH
Ca4_P2_16055262	Ca4	16055262	GCTT/G	TTCCCATTTTAATCCC ATCA	CCAGTGCGGAGAAAA ATAA	60.1	803	DRR	Ca_05504	J	bHLH
Ca4_P2_16055486	Ca4	16055486	CAAAAAA/CAAAAAA	TGCTGGTAGTCACGGG GTAT	CCAGTGCGGAGAAAA ATAA	60.1	229	DRR	Ca_05504	J	bHLH
Ca4_P2_16055970	Ca4	16055970	TAAAAAA/TAAAAAAA	AGCAACCTCGGTAGCA TCAT	ATTGAGTGTGTGGTAC GGGG	60.7	509	INTERGENIC	--	--	--
Ca4_P2_16056262	Ca4	16056262	TAAAAA/TAAAAA	AAGGGATGTATCCCG TACC	GGCGTATCCAATGGT TGAG	60.3	574	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_16057308	Ca4	16057308	CG/C	CAGGTCGGGATTCTTT TGA	CATACTTACCCGTGCA GCAA	59.8	705	INTERGENIC	--	--	--
Ca4_P2_16058692	Ca4	16058692	ATTTTTTTTT/ATTTTTTTTT	TGCGCAAGAATTGAAAT CAG	AACTCACCAACCAGAC ATTGA	58.0	828	INTERGENIC	--	--	--
Ca4_P2_16059109	Ca4	16059109	TAA/TA	TTGACGTGTCAAATGT GACTG	CGTCACTGACAGCGTA GCAC	60.7	346	INTERGENIC	--	--	--
Ca4_P2_16060314	Ca4	16060314	AAAAGAAA/AAAA	TTGGATGATACTTCTTC CGTCTC	AGAACCCCTGCAGGT TCAC	60.2	559	INTERGENIC	--	--	--
Ca4_P2_16063311	Ca4	16063311	AACATGCGCAAGAAATTC	AAGTTGGCGTGCTTGT TTCT	CATCATGGTGAAGGTC GTTG	60.0	666	INTRON	Ca_05503	K	MYB
Ca4_P2_16064554	Ca4	16064554	T/TTA	TTGCAAGTAGCTTCCCC ATT	AGGTGAGGTGAGGTGA TTGA	58.1	820	INTERGENIC	--	--	--
Ca4_P2_16064877	Ca4	16064877	GT/G	CACTTTCTCTTATTCCA CTTTCCC	GGCGACTTCCATTGGA CTAA	60.1	497	INTERGENIC	--	--	--
Ca4_P2_16065224	Ca4	16065224	CCTCTC/CCTC	TCAATCACCTCACCTCA CCT	GGCGACTTCCATTGGA CTAA	60.1	310	INTERGENIC	--	--	--
Ca4_P2_16066680	Ca4	16066680	CAAAA/CAAA	TCTCGATTGAAGTGCAT TGG	CATTAGAGTTCATTG GCGG	58.4	514	INTERGENIC	--	--	--
Ca4_P2_16066890	Ca4	16066890	ATTTT/ATTTT	AGAACCGATTTTGGTGA TGC	GGGACCAGTGATTTAA TTTAGCC	60.1	705	INTERGENIC	--	--	--
Ca4_P2_16067505	Ca4	16067505	CAAAAAAA/CAAAAAA	GGCTAAATTAAATCACT GGTCCC	TACATCTGCGGCCCTT TAAC	60.1	572	INTERGENIC	--	--	--
Ca4_P2_16072660	Ca4	16072660	ATATTAT/ATATTATTAT	GTCACAGCTCTGATGC CAAA	GCGATACGGAGTGAC ATCT	60.1	787	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanched scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_16080327	Ca4	16080327	CTTTTTTTTTTT/CTTTTTTTTTTT	TTCCTCACGTGATCCCT TTC	ACAATTGCTCCAACGG TCAT	60.4	567	INTERGENIC	--	--	--
Ca4_P2_16080441	Ca4	16080441	TAAAAAAAAA/TAAAAAAAAA	TTCCTCACGTGATCCCT TTC	ACAATTGCTCCAACGG TCAT	60.4	567	INTERGENIC	--	--	--
Ca4_P2_16081516	Ca4	16081516	TA/TAA	CATGCAATAAATTTAGA GCGAAGA	TGCAACAGATTGCCTT CAC	59.8	776	INTERGENIC	--	--	--
Ca4_P2_16086955	Ca4	16086955	GTATA/GTATATATA	CCTCCAATCCGGTATT TCA	CGTGCAACCTGCAGAT AATG	60.3	721	INTERGENIC	--	--	--
Ca4_P2_16089933	Ca4	16089933	A/AC	CCAAACAGAACTGGC AACA	TTTTTAAACATTGCAC CAGTGA	59.6	467	INTERGENIC	--	--	--
Ca4_P2_16095391	Ca4	16095391	GCAACAAC/GCAAC	TCGACGCGAGACATGT TAAA	GTGGAGGGAGCGATTG TGTA	60.2	437	INTERGENIC	--	--	--
Ca4_P2_16095440	Ca4	16095440	TA/TAA	AGCCCAAGAAAGAAAA CGCT	AAGGCAAAAGTCGTCC AATC	59.2	726	INTERGENIC	--	--	--
Ca4_P2_16095927	Ca4	16095927	GATAATATAATATAATATA/GATAATATA ATATAATATAATATA	TACAGAATCGCTCCCTC CAC	TACATGGTTCGGTTGG GTTT	60.1	665	INTERGENIC	--	--	--
Ca4_P2_16097658	Ca4	16097658	ATTTTTTTTT/ATTTTTTTTTTTT	GTGGAATGTAAGATCG CCGT	TCTTTGAACAATTGGCC CTC	60.1	307	DRR	Ca_05500	--	--
Ca4_P2_16097693	Ca4	16097693	GAAAAAA/GAAAAAA	GTGGAATGTAAGATCG CCGT	GCAACAGAGGAAGAG AAGGAA	60.0	535	DRR	Ca_05500	--	--
Ca4_P2_16098339	Ca4	16098339	TAAAAAAAA/TAAAAAA	CCTTCTTCTCTGTGTT TGCTC	CTCATACTGAGGGGA AAGCA	60.1	674	DRR	Ca_05500	--	--
Ca4_P2_16099117	Ca4	16099117	TAAAAAA/TAAAAAA	TTCAATCAAAATATAAA CGGCA	AGTTGACGATTGGTG TTCC	59.8	398	DRR	Ca_05500	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_16099943	Ca4	16099943	T/TGG	GGAAAAACAAAGTTCCCA ACC	TTTTGTTTGATGGCTTG CAG	59.8	748	INTERGENIC	--	--	--
Ca4_P2_16102523	Ca4	16102523	ATTTTTTT/ATTTTTTTT	GTTGAGTGGTGCGATG AAAT	TTCGAGTTGAGGTCCT TCTCA	60.0	820	DRR	Ca_05499	--	--
Ca4_P2_16103095	Ca4	16103095	TAAAAAAAAA/TAAAAAAAAA	TGAGAAGGACCTCAAC TCGAA	CAAATTCAAATAAGCA TGGATCA	60.2	628	DRR	Ca_05499	--	--
Ca4_P2_16114063	Ca4	16114063	TCTCAAACT/TCTCAAACTCAAAC ACT	AATATCGTCAGCGACCT GCT	TTTTGCCAATGAAGTTG TGC	59.7	544	INTERGENIC	--	--	--
Ca4_P2_16120236	Ca4	16120236	AATATATATATATATATATA/AATATATAT ATATATATA	TCGAAAGCATTCTCTC CAAA	TGGTTGACCTATTTAT GGTTGG	60.0	550	INTERGENIC	--	--	--
Ca4_P2_16123203	Ca4	16123203	GATATATATATATATATATATA/GA TATATATATATATATATATA	CTCTGCTTGTGGCACT TGA	CCCCAGCCCTCTATA TTTC	59.8	831	INTERGENIC	--	--	--
Ca4_P2_16138106	Ca4	16138106	TTTATTATTATTATTATTATTATTAT /TTTATTATTATTATTATTATTATTAT TATT	CAATGACATTACTTGGG CCTT	GGGAGAAGAAAAGAAT GGGAA	59.5	391	INTERGENIC	--	--	--
Ca4_P2_16175560	Ca4	16175560	CATATATATATATA/CATATATATATA	TGTTTGCTTGCTTTTGA TGC	GGTGTGTGAGGGGAA GGAA	59.8	269	INTERGENIC	--	--	--
Ca4_P2_16186698	Ca4	16186698	T/TC	TTGTTTACAAGAGATGT TTTGTCATT	AAACCACGACTCCAAG CAAT	59.6	372	DRR	Ca_05493	Z	--
Ca4_P2_16197589	Ca4	16197589	ATTACATTTACA/ATTACATTTACATT CA	CCTAAGTGAAGGCGAG CTTG	AGCTTGCAGTTTTCCT GTTA	59.9	513	INTRON	Ca_05492	--	C2H2
Ca4_P2_16237710	Ca4	16237710	ATCTCTCTCTCTCTCTCTC/ATCTCT CTCTCTCTCTCTCTCTC	ATTGATGGCTCCAGC ATAC	TAGCTAGGAGCGCTGT GTGA	59.9	468	INTERGENIC	--	--	--
Ca4_P2_16288880	Ca4	16288880	TAAAAAAAAA/TAAAAAAAAA	GGCATTTCAAACAATC CCT	TGATTGAATCCCACC CAAT	60.0	514	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
Ca4_P2_16313772	Ca4	16313772	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	TTTGGCATTTTGGACTA GGG	GCCCAATTCAGGCTT ATGA	60.0	283	INTERGENIC	--	--	--	--
Ca4_P2_16329274	Ca4	16329274	A/AAGCATAC	TTGGACGATAGTACCG TATTCAA	CGAAGCAATAGCAAG ACTGC	60.2	815	INTERGENIC	--	--	--	--
Ca4_P2_16444215	Ca4	16444215	TAGAGAGAGAGAAGAGAGAGAGAGAA GAGAGAGAGAG/TAGAGAGAGAGAAGA GAGAGAGAGAAGAGAGAGAGAAGA GAGAGAGAG	CGCTCCACTTTCAACAC TCA	AATTCGTAACGGCAG GTAG	60.0	322	INTERGENIC	--	--	--	--
Ca4_P2_16523278	Ca4	16523278	AATTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTAT/AATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTATTA TTAT	TTTCCCAGCCCTCTTAG ACA	TTGGTTGTTCTTCTCTGC ACA	60.3	451	DRR	Ca_05473	V	NAC	
Ca4_P2_16545258	Ca4	16545258	AATATATATATATATATATAT/AATATATA TATATATATAT	TTTGGGCTTACTTTTGT GAGAA	CAAAGAGTTACAACGA TGCGA	59.0	313	INTERGENIC	--	--	--	--
Ca4_P2_16626685	Ca4	16626685	TCCCCCCCC/TCCCCCCCC	TGTTTTGGGCACAACG ATTA	TCTGAAACGGCGACTT CTTT	60.0	580	INTERGENIC	--	--	--	--
Ca4_P2_1665800	Ca4	1665800	CATATATATATATATATATATATATATATA TATATATATATATATA	CATTGAAAGCGCGTTG ATAA	GGTGAATTGATTATATGC TGGAA	58.9	394	INTERGENIC	--	--	--	--
Ca4_P2_16713373	Ca4	16713373	AATATATATATATATATATATAT/AATATA TATATATATATATATATATATATATATAT	GCTTTGGCTTTCTCTC CTT	GTGGAAAAAGATGTGG ACGG	60.4	790	INTERGENIC	--	--	--	--
Ca4_P2_16728462	Ca4	16728462	TAAA/TAAAA	CATGGGGATGCTGCTA TTTT	CAACTTCCTCTTTTGGC ACA	58.9	388	DRR	Ca_05454	O	MYB	
Ca4_P2_16728592	Ca4	16728592	TAAAAAAAAA/TAAAAAAAAA	CATGGGGATGCTGCTA TTTT	CAACTTCCTCTTTTGGC ACA	58.9	388	DRR	Ca_05454	O	MYB	
Ca4_P2_1677374	Ca4	1677374	TAAAAAA/TAAAAA	TCCAACTAGTCCGAC GTGA	AGCTGCTGGAGGAGTT GGTA	60.0	450	INTRON	Ca_07795	--	--	--
Ca4_P2_16784125	Ca4	16784125	ATTTTTTTTTT/ATTTTTTTTTTTT	ACCTTGACACAACGGA AAGG	TCTTGCAATGCACCAC AAAT	60.1	614	INTERGENIC	--	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFS
Ca4_P2_16984107	Ca4	16984107	ATTTTTTTT/ATTTTTTT	TAACAAGGGTGCCATG TGTG	ATTGATTGGCAATGGT GGT	60.1	822	INTRON	Ca_05426	U	--
Ca4_P2_16985095	Ca4	16985095	ATTTTT/ATTTTTT	CATGAGACTCGTCAAG GCAA	GTGTGGAAGTGCCAA GGTT	60.0	914	INTRON	Ca_05426	U	--
Ca4_P2_17010261	Ca4	17010261	GAGACA/GAGACAGACA	GTTAGCCTCACAGCAC CCAT	GCTTCTAACTCGGCA GTGG	60.0	342	DRR	Ca_05422	--	G2-like
Ca4_P2_17017376	Ca4	17017376	TAAATAT/TAAATATCAAAAAATAT	AATCGTTCAATACCCCT CCA	ATCGGCACAAGTCAAC TTCC	60.1	392	INTERGENIC	--	--	--
Ca4_P2_17017613	Ca4	17017613	ATTTTT/ATTTTTT	GGAAGTTGACTGTGTC CGAT	TTGTTCTGAAAGAAAC GGGG	60.1	527	INTERGENIC	--	--	--
Ca4_P2_17018846	Ca4	17018846	ATT/AT	TTCTCCCCAGAATCAAT TTGT	ATTCCTTTTGCCTTTGC CTT	60.1	598	INTERGENIC	--	--	--
Ca4_P2_17029753	Ca4	17029753	ATTTTTTTTT/ATTTTTTTTT	ACCATTTCCTCCTGTGT TGC	CAAAAATTGAGGGTT CAAACA	59.0	728	INTERGENIC	--	--	--
Ca4_P2_17030182	Ca4	17030182	TAA/TAAAA	AAGATTTTGTGTTGAA CCCTCA	TCTCGCCTTTTGTATCG TCA	59.4	426	DRR	Ca_05420	R	bHLH
Ca4_P2_17038197	Ca4	17038197	T/TCGA	AGCCTTTGATCTTCCCC TGT	AGTGGAAGCTGAGGG AATG	60.1	326	INTRON	Ca_05419	C	bHLH
Ca4_P2_17044386	Ca4	17044386	CT/CTT	AAACAATTTACGCGAAT GCC	TATTAAGAGCCCGCA CAAC	60.0	896	INTERGENIC	--	--	--
Ca4_P2_17047766	Ca4	17047766	ATTTTTTTTTT/ATTTTTTTTTT	GAACCCAGTGACAAC TCCT	AAGCGACCAGTTGAAG GAAA	59.9	662	DRR	Ca_05418	DA	--
Ca4_P2_17047788	Ca4	17047788	ATTTTTTTTTT/ATTTTTTTTTT	GAACCCAGTGACAAC TCCT	AAGCGACCAGTTGAAG GAAA	59.9	662	DRR	Ca_05418	DA	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17047964	Ca4	17047964	GAAAAAAAAA/GAAAAAAAAA	AGAGGTCATTGGGTG GACA	AAGCGACCAGTTGAAG GAAA	59.9	453	DRR	Ca_05418	DA	--
Ca4_P2_17048363	Ca4	17048363	TAAAAAAA/TAAAAAAA	TTTCCTTCAACTGGTCG CTT	TCATCATCTTGCTCTCC ACG	59.9	527	DRR	Ca_05418	DA	--
Ca4_P2_17050258	Ca4	17050258	AGG/AGGG	GCGAAATGTTCTTCTCC TGC	TTTGGATAACCACTCC TACG	59.7	887	INTRON	Ca_05418	DA	--
Ca4_P2_17053264	Ca4	17053264	TAGTGATTAAGTGATT/TAGTGATTAAG TGATTAAGTGATT	TAGACGCGGAAAAACAG TGTG	GTCAGTGGAAAAGGGT GGAA	59.9	277	INTRON	Ca_05418	DA	--
Ca4_P2_17057323	Ca4	17057323	AAAATAAATAAATAAATAA/AAAATAAA TAAATAAA	AAAAATCCTCGATTGGA TAAAGA	TGTGTTAATTGAGGAC GTTGTTG	59.9	837	DRR	Ca_05417	--	--
Ca4_P2_17063810	Ca4	17063810	TAAAAAAA/TAAAAAAA	CAAAAGAAAAGCTTTAT ACGGTGA	TTCCGTTTATGTAGCA GCCC	60.1	558	INTERGENIC	--	--	--
Ca4_P2_17066705	Ca4	17066705	ATTTTT/ATTTTT	GGTGATGGAAGAAGGT GAGG	TTCCATCTAACGGTG GAGC	60.1	873	INTERGENIC	--	--	--
Ca4_P2_17067831	Ca4	17067831	TAAAAAAA/TAAAAAAA	TTCACCAACAGCCAGT ATCC	GTGAGTCATGGGACGG TTCT	60.0	402	INTERGENIC	--	--	--
Ca4_P2_17071722	Ca4	17071722	ATTTTTTT/ATTTTTTT	GGGCTGCTACATAAAC CGAA	TCCGACATGCCATTT GTTA	59.9	189	INTERGENIC	--	--	--
Ca4_P2_17074453	Ca4	17074453	TCTC/T	TTGTTGTGGTGGGAGT GAAA	AAGGACGGTGTGGCTC ATAG	60.1	332	CDS (large-effect mutations)	Ca_05416	--	bHLH
Ca4_P2_17081756	Ca4	17081756	TTATA/TTATATA	TACCGGAAGATTCGGA AATG	CTGCAGGTAAGCATCC CAAT	60.1	694	INTRON	Ca_05415	--	--
Ca4_P2_17081772	Ca4	17081772	TAATA/T	TACCGGAAGATTCGGA AATG	CTGCAGGTAAGCATCC CAAT	60.1	694	INTRON	Ca_05415	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17081881	Ca4	17081881	T/TTCC	TTTGTACAATGGGCACT CAA	CTGCAGGTAAGCATCC CAAT	60.1	295	CDS (FRAME SHIFT)	Ca_05415	--	--
Ca4_P2_17082915	Ca4	17082915	CTTTT/CTTTTT	TCAGCTCACTCTCGCTT TGA	TGATGGAAGAATAAGG GGTCC	60.1	503	DRR	Ca_05415	--	--
Ca4_P2_17089846	Ca4	17089846	T/TC	CCAACATTAAAACGGCC CTA	GACTTAAGGAGGGGG CTC	60.0	397	INTERGENIC	--	--	--
Ca4_P2_17089902	Ca4	17089902	ATTTTT/ATTTTTTT	CCAACATTAAAACGGCC CTA	TGTGCTAGGATTGCAC GGTA	60.3	574	INTERGENIC	--	--	--
Ca4_P2_17090015	Ca4	17090015	ATATTTATTTATTTATTT/ATATTTA TTTATTTATTT	CCAACATTAAAACGGCC CTA	GCATTTTCACAATGTG GTGC	60.0	698	INTERGENIC	--	--	--
Ca4_P2_17101140	Ca4	17101140	TAACAAC/TAACAACAAC	TGGTTTGATTATTGTG GTGC	CATTGGTTTAAACAAGT GTTGTTGT	59.3	472	DRR	Ca_05414	--	--
Ca4_P2_17101199	Ca4	17101199	A/AC	TGGTTTGATTATTGTG GTGC	GTTCTTTGAAATTGCAC GAATA	57.0	812	DRR	Ca_05414	--	--
Ca4_P2_17101268	Ca4	17101268	TAAAAAA/TAAAAAAA	TGGTTTGATTATTGTG GTGC	TCGAGAGTTGGGTCA GGTC	61.1	881	DRR	Ca_05414	--	--
Ca4_P2_17101583	Ca4	17101583	AG/A	TGATGTTAACTGACAAA TGCTGTTT	GTCGAGAGTTGGGTCA TGGT	60.0	322	DRR	Ca_05414	--	--
Ca4_P2_17102148	Ca4	17102148	AA/AAGA	ATGACCCAACTCTCGAC ACC	TCAGGTGATTGTTGAC CCAA	59.9	733	DRR	Ca_05414	--	--
Ca4_P2_17104717	Ca4	17104717	TAAAAAAA/TAAAAAAA	ATGATGTTTCCGTTT GCC	CGAAACGGATTTTAAC GGAA	59.9	455	INTERGENIC	--	--	--
Ca4_P2_17105095	Ca4	17105095	G/GGATAA	TTCCGTTAAAATCCGTT TCG	TGAATGGGACATGAAT CCTC	58.3	253	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_17114726	Ca4	17114726	GAAAA/GAAAAA	CAAAACAAGGGCACC AACT	TATTTGAAACGAACGG TCCC	59.8	736	DRR	Ca_05412	CR	Nin-like
Ca4_P2_17116278	Ca4	17116278	ATTT/ATTTTT	ACCGACCGAACACAAA AGAC	TTCAGCAAAGTGGTTC CAAA	59.3	623	DRR	Ca_05412	CR	Nin-like
Ca4_P2_17130703	Ca4	17130703	TAAAAA/TAAAAA	CCATGAAGGGGACAAA GATG	GCATGTAATGTTGGAA GCCC	60.3	931	INTRON	Ca_05411	CR	Nin-like
Ca4_P2_17133672	Ca4	17133672	AATATTTG/A	TGGGTATTTTCCTTC ATCA	TTTGA AAAATCCTTG CGG	60.0	522	INTRON	Ca_05411	CR	Nin-like
Ca4_P2_17133934	Ca4	17133934	A/AAAAGACTTAGTT	GAATTCGGGAAACACT CGAA	GATGTCATTACACCAT GCC	59.8	237	INTRON	Ca_05411	CR	Nin-like
Ca4_P2_17134051	Ca4	17134051	CAAAAA/CAAAA	GAATTCGGGAAACACT CGAA	GATGTCATTACACCAT GCC	59.8	237	INTRON	Ca_05411	CR	Nin-like
Ca4_P2_17135091	Ca4	17135091	CATA/CATATA	TGATATGGCAAAATACA CGGA	AGACATCCTCCGTAC CAAC	60.0	755	INTRON	Ca_05411	CR	Nin-like
Ca4_P2_17136748	Ca4	17136748	T/TC	GGTTGAATATGTAATC GCGT	TCAATTAAGCCCCTAAA GTCCA	60.0	590	INTERGENIC	--	--	--
Ca4_P2_17140168	Ca4	17140168	ACTTCTCT/ACTTCT	ATCATTGGCACTCCTT CAT	AAGCAACAACCTGTAG CCGT	59.9	675	INTERGENIC	--	--	--
Ca4_P2_17141313	Ca4	17141313	T/TC	TTTCAATCGTATCAAGT TTTTGC	AACTGAAAGGCCTAA TTCCAA	59.2	682	DRR	Ca_05410	CR	Nin-like
Ca4_P2_17141537	Ca4	17141537	ATT/AT	TGCAAAATCAACATAA AGGTTGT	AACTGAAAGGCCTAA TTCCAA	59.2	233	DRR	Ca_05410	CR	Nin-like
Ca4_P2_17141571	Ca4	17141571	TAAAAA/TAAAAAA	TGCAAAATCAACATAA AGGTTGT	AACTGAAAGGCCTAA TTCCAA	59.2	233	DRR	Ca_05410	CR	Nin-like

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17157304	Ca4	17157304	CAAAAAAAAA/CAAAAAAAAAAA	ATCTCCATCTCTGGACG GTG	ACGACGCATAGCAAGG TTCT	59.9	691	INTERGENIC	--	--	--
Ca4_P2_17157766	Ca4	17157766	TTAAT/TTAATAAT	AGAACCTTGCTATGCGT CGT	CATGGTGTGGACAAGA TTGG	59.8	501	DRR	Ca_05407	--	--
Ca4_P2_17159336	Ca4	17159336	A/AC	GCCACGCTCTAGGTG AGAT	CCTCAGGCCTGCAACT GTAT	60.3	222	DRR	Ca_05407	--	--
Ca4_P2_17166544	Ca4	17166544	ATTTTTTTT/ATTTTTTTTT	GCCAGACCATAAGTAG GCCA	TCATGTGGACACTTGG ATGAA	60.0	721	INTERGENIC	--	--	--
Ca4_P2_17167099	Ca4	17167099	AT/ATAGTT	TTCCACTCTCCACCATT TCC	CACCAACAAGGATCGG ATTT	59.8	429	INTERGENIC	--	--	--
Ca4_P2_17167273	Ca4	17167273	T/TC	TTCCACTCTCCACCATT TCC	CACCAACAAGGATCGG ATTT	59.8	429	INTERGENIC	--	--	--
Ca4_P2_17168225	Ca4	17168225	GAAAAAA/GAAAAAA	CTCTACCCCTTGAGAGT GTGTGG	TGGACGGAGTATGCAT TATTGA	60.3	581	INTERGENIC	--	--	--
Ca4_P2_17172228	Ca4	17172228	TAAAAAAA/TAAAAAAA	TCTCCAGCATGTAATTA CGGTTA	AAACGAAACATCCTCG TTGC	60.1	368	INTERGENIC	--	--	--
Ca4_P2_17172307	Ca4	17172307	ATT/AT	TCTCCAGCATGTAATTA CGGTTA	AAACGAAACATCCTCG TTGC	60.1	368	INTERGENIC	--	--	--
Ca4_P2_17185190	Ca4	17185190	TATAATAAAT/TATAATAATAAT	GTTGGCTTATGCTGTG CTTG	GGAAGTCGCTTTCCCA TAAA	59.2	651	INTERGENIC	--	--	--
Ca4_P2_17187280	Ca4	17187280	TTTACTTTATTACTTTAT/TTTACTTTAT	TTTGACACATACCTCTG ATCAAATC	CACAAAACCTTTCTGCTG CCA	60.0	659	INTERGENIC	--	--	--
Ca4_P2_17193639	Ca4	17193639	ATTTT/ATTT	AAGCAGCAAGGATCAC CAAT	CCCCATTAGTATTGCC GCTA	59.9	532	DRR	Ca_05405	T	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17193665	Ca4	17193665	TAAAAAA/TAAAAAA	AAGCAGCAAGGATCAC CAAT	GGTGGTTGGGTTTAGC AGAA	60.0	612	DRR	Ca_05405	T	--
Ca4_P2_17194134	Ca4	17194134	TAAA/TAAAA	TAGCGGCAATACTAATG GGG	AAACCGTTTCACTCCAC CAG	60.0	410	DRR	Ca_05405	T	--
Ca4_P2_17196085	Ca4	17196085	TTCTCTCTCTCTCTCTCTCTCTCT/TTCTCTCTCTCTCTCTCTCTCTCT	CCTCAACCATGGCCTG TACT	AGTTGCATTGGAGACA AGGG	60.1	118	INTERGENIC	--	--	--
Ca4_P2_17196504	Ca4	17196504	GTTTTTTTT/GTTTTTTTTT	CCTCAACCATGGCCTG TACT	AGGAGAATCAGGAGGA GGGA	60.1	889	INTERGENIC	--	--	--
Ca4_P2_17203357	Ca4	17203357	TAAGA/TAAGAAGA	TGTGCTCCATGTCTCTT TGC	CTCTTGGCTGGTAGCT TTGG	60.0	611	INTRON	Ca_05403	--	--
Ca4_P2_17206399	Ca4	17206399	ATTTTT/ATTTTT	AACCGTTTGATGCGAAA AAT	ATCTATTGCCATCTGCC AGG	60.1	925	INTERGENIC	--	--	--
Ca4_P2_17206661	Ca4	17206661	T/TA	AATCAATCAACCAAGAA CGGA	ATCTATTGCCATCTGCC AGG	60.1	598	INTERGENIC	--	--	--
Ca4_P2_17206969	Ca4	17206969	TAAAAAA/TAAAAAA	CCTGGCAGATGGCAAT AGAT	GAAAATGGATCCGACG AAGA	60.0	593	INTERGENIC	--	--	--
Ca4_P2_17209722	Ca4	17209722	CT/CTT	CCATTGAGAAAGGGC AAGA	AAGCCTCGGGTAAAT TGGT	59.8	442	INTRON	Ca_05402	C	--
Ca4_P2_17210187	Ca4	17210187	ATTTTTTTTT/ATTTTTTTTT	GTGTCAGTGACATGC TTGG	TAGCCTTCTGAATCCC CCT	60.0	626	INTRON	Ca_05402	C	--
Ca4_P2_17210535	Ca4	17210535	CTT/CT	TTCAGGGAGTTCCATCA ACC	TAGCCTTCTGAATCCC CCT	60.0	448	INTRON	Ca_05402	C	--
Ca4_P2_17210903	Ca4	17210903	TC/T	AGGGGGAATTCAGAAG GCTA	GTCACCTCTCCATCG AGCC	60.0	681	INTRON	Ca_05402	C	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17214428	Ca4	17214428	T/TG	GCTTTT TAGGCTGGG AATC	TTGGTCAATGCGGAAG TGTA	60.1	627	DRR	Ca_05402	C	--
Ca4_P2_17219620	Ca4	17219620	GTTTTTT/GTTTTT	GGAATGAGAGAGAGCG TTGG	TTATGCGATGCCAATTC AAA	60.0	563	INTRON	Ca_05401	O	--
Ca4_P2_17223825	Ca4	17223825	GAAAAGAAAA/GAAAA	TTTTCTGCATATCACTG CGA	GGCCTGGTTCTCAAAA TTCA	60.1	246	DRR	Ca_05401	O	--
Ca4_P2_17227245	Ca4	17227245	ATTTT/ATTT	CATTGACGACCAGGTTT GTG	TCAGACACCGTTGTGG GATA	60.0	732	INTRON	Ca_05400	YU	--
Ca4_P2_17228265	Ca4	17228265	GTTTTTT/GTTTTT	ATGAATCCGTGATTGAA GCC	CAGCACCTCAACAATA GGCA	59.9	564	INTRON	Ca_05400	YU	--
Ca4_P2_17243952	Ca4	17243952	A/AT	AGCTTTGCGATTCTATT GGG	CAACCGTTTGAAATGA CGA	59.6	501	INTERGENIC	--	--	--
Ca4_P2_17247653	Ca4	17247653	GAAAAAAAA/GAAAAAAAAA	TTTATGTTTGCCCAACT CCC	TTTTTAGGGACGCAATT CAAA	59.6	539	INTERGENIC	--	--	--
Ca4_P2_17247848	Ca4	17247848	TAAAAAAAA/TAAAAAAAAA	TTTATGTTTGCCCAACT CCC	TTTTTAGGGACGCAATT CAAA	59.6	539	INTERGENIC	--	--	--
Ca4_P2_17247936	Ca4	17247936	TAAAAA/TAAAA	CAAGACATTGGGGACA AACA	TCTGGCCAAAAATTAG CTTCA	59.8	851	INTERGENIC	--	--	--
Ca4_P2_17248915	Ca4	17248915	T/TC	ATCCCAAAATTCATGCCA AAA	GCCCTCTTTGAGTTG GAAA	59.3	396	INTERGENIC	--	--	--
Ca4_P2_17250466	Ca4	17250466	GATC/GATCCGATAGTATC	GGCCAACCTGACCCAA AATA	ACACACTTTGGTTTTTC GGC	60.0	402	INTERGENIC	--	--	--
Ca4_P2_17250760	Ca4	17250760	A/AC	GCCGAAAAACCAAAGT GTGT	CGTTGGATTCTTTCTC CTC	58.7	514	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17250847	Ca4	17250847	ATTTT/ATTT	GCCGAAAAACCAAGT GTGT	CGTTGGATTCCTTCCT CTC	58.7	514	INTERGENIC	--	--	--
Ca4_P2_17253834	Ca4	17253834	AAATAA/AAA	TGCAATATCATTTTCAT GTTCTTG	TGATGAAGTGAGTCGC TTGG	60.0	843	INTERGENIC	--	--	--
Ca4_P2_17253939	Ca4	17253939	T/TA	TCAACATCTAGTTAGAG GTGCAAAA	TGATGAAGTGAGTCGC TTGG	60.0	780	INTERGENIC	--	--	--
Ca4_P2_17254087	Ca4	17254087	G/GATTTATC	AAACTCCCTTACTTTGA AAGTGG	TGATGAAGTGAGTCGC TTGG	60.0	212	INTERGENIC	--	--	--
Ca4_P2_17254750	Ca4	17254750	GTAATAA/GTAA	CAAATATTGTGCCAGCC AAA	TCTTAATCTTGACCAGC CCG	60.2	898	INTERGENIC	--	--	--
Ca4_P2_17257056	Ca4	17257056	ATTTT/ATTT	CCAACAAGCATTACATT GCG	ACGTTGACATTCCAGC ATGA	60.1	423	INTERGENIC	--	--	--
Ca4_P2_17257099	Ca4	17257099	ATTTTTT/ATTTTTTT	CCAACAAGCATTACATT GCG	ACGTTGACATTCCAGC ATGA	60.1	423	INTERGENIC	--	--	--
Ca4_P2_17257163	Ca4	17257163	ATTTTTTT/ATTTTTTT	TGTACGCCAAAGTAATG CCA	TCCAATGAAATTAAACG CAAA	58.2	897	INTERGENIC	--	--	--
Ca4_P2_17257948	Ca4	17257948	AATTACTATTACTAT/AATTACTAT	ACATGGCAGTTGGAT TCAT	TGGGTACCCACCTTA GTTT	58.3	602	INTERGENIC	--	--	--
Ca4_P2_17257974	Ca4	17257974	AATA/AATATA	ACATGGCAGTTGGAT TCAT	TCATGGGTACCCACCT TTAG	59.7	605	INTERGENIC	--	--	--
Ca4_P2_17259822	Ca4	17259822	TGA/T	ATCGTATGCCAAACTCA GGC	CGTGTGTGCATTGGAA TTGT	60.4	422	INTERGENIC	--	--	--
Ca4_P2_17263202	Ca4	17263202	CAA/CA	TAAACCAGTTTGGTTC GGC	GGTTCAAAATGGCGTT GAGT	60.0	729	INTRON	Ca_05398	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17263445	Ca4	17263445	CT/CTT	CGTTCAATTTTCAAC GGT	GGTTCAAATGGCGTT GAGT	60.0	658	INTRON	Ca_05398	R	--
Ca4_P2_17264416	Ca4	17264416	TAAAAAAAAAAAAA/TAAAAAAAAA	CCATTGCCTAGCTCTG CAT	TTCCCAACTGGAACCT TGTC	59.9	156	INTRON	Ca_05398	R	--
Ca4_P2_17278734	Ca4	17278734	CTTTTTTT/CTTTTTTTTT	CCCAGCGAGTAATCA AGAG	AGCTTCACGAGGCTTA TCCA	60.0	710	DRR	Ca_05394	R	--
Ca4_P2_17280110	Ca4	17280110	ATT/AT	CATTGGCTGCTTTGTG CTA	GCAATATGGAGCCACG GTAT	59.8	596	DRR	Ca_05395	R	--
Ca4_P2_17284874	Ca4	17284874	GATA/GA	TTGAATATGAGCCTCCA AGAGA	CTTGTTGAGGCTTTGG GTGT	60.1	794	DRR	Ca_05393	R	--
Ca4_P2_17285160	Ca4	17285160	ACT/A	CATTTCCTTGAGTCAT GAGAGG	CTTGTTGAGGCTTTGG GTGT	60.1	310	DRR	Ca_05393	R	--
Ca4_P2_17286686	Ca4	17286686	CATTGGATTGGATTG/CATTGGATTG	TGCATTTTCATGCCTTTG CTA	TGATTAGCCCGTATTTT GGG	59.8	648	INTRON	Ca_05393	R	--
Ca4_P2_17290871	Ca4	17290871	GTTTAATT/GTTTAATTTTAATT	CCAAGTATGGCAGGTG GAAT	TCATGAGCTAGAATGG TTGTAAAAA	59.3	615	INTERGENIC	--	--	--
Ca4_P2_17291312	Ca4	17291312	AAT/A	AAAATTATCGCGTGACG CTT	TAGATCACCCACACCA ACGA	60.0	590	INTERGENIC	--	--	--
Ca4_P2_17291561	Ca4	17291561	T/TA	TCGTTGGTGTGGTGA TCTA	TGTCGGTCACGTCATC ATTT	60.0	450	INTERGENIC	--	--	--
Ca4_P2_17292884	Ca4	17292884	ATCTTCTT/ATCTT	GGGACTATTTTCGCAT TCA	GCGGATCGGATTATG TTAT	59.8	233	DRR	Ca_05392	R	--
Ca4_P2_17293698	Ca4	17293698	TAAAAAAAAA/TAAAAAAAAA	TCACATCCGTTGAACGA AGA	TTTGTTTTATTAGTTTT GGTGTGG	57.4	652	DRR	Ca_05392	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17297028	Ca4	17297028	TA/TAA	TTTGCTCAGCTGTGT GAC	TCATCAGCTGGACAAC TTCG	60.0	607	INTRON	Ca_05392	R	--
Ca4_P2_17297165	Ca4	17297165	TATATATATAAT/TAT	TTTGCTCAGCTGTGT GAC	TCATCAGCTGGACAAC TTCG	60.0	607	INTRON	Ca_05392	R	--
Ca4_P2_17297693	Ca4	17297693	TATA/TATAATA	CGAAGTTGTCCAGCTG ATGA	CCACGAGGATCGGACA GTAT	60.0	528	INTRON	Ca_05392	R	--
Ca4_P2_17299468	Ca4	17299468	CTTTTTTT/CTTTTTTTTT	GACCAACGCAACAAG GATT	TCGAGGCAAGGTTAGA AGGA	59.9	671	DRR	Ca_05391	TBLD	--
Ca4_P2_17312805	Ca4	17312805	TATTATTGATTATTGATTATGATGATT GATTATTGAT/TATTATTGATTATTGATT ATTGATTATTGATGATTGATTATTGAT	AGCGAACCAGTAGCTT CAAA	ACGCATAGCTGCATCC TCTT	60.0	509	INTRON	Ca_05391	TBLD	--
Ca4_P2_17313521	Ca4	17313521	TAAA/TAA	GCTAGACAGTTTGCC TTCG	AAGGCTCCTGCAAGCA TTTA	60.0	966	INTERGENIC	--	--	--
Ca4_P2_17314621	Ca4	17314621	ATTTTT/ATTTTT	ACGCGATTGAGAACAA AAGG	CTTCCCACTCACAGT CCAT	60.0	604	DRR	Ca_05390	M	--
Ca4_P2_17314963	Ca4	17314963	TGGGG/TGGGGG	ATGGACTGTGAGTGGG GAAG	CAATGGAGAGGTTCTG GACA	59.7	156	DRR	Ca_05390	M	--
Ca4_P2_17315192	Ca4	17315192	TAAA/TAAAA	ATGGACTGTGAGTGGG GAAG	TTGGTCCAACAGCTTG ATGA	60.2	716	DRR	Ca_05390	M	--
Ca4_P2_17315979	Ca4	17315979	ATT/ATTT	GTGACGGGCACTCCAT AACT	ATACCGTCTCATGCCT CTCG	60.2	704	DRR	Ca_05390	M	--
Ca4_P2_17316090	Ca4	17316090	A/AG	GTGACGGGCACTCCAT AACT	AGGTCCGCTCTGATTG AAGA	60.0	757	DRR	Ca_05390	M	--
Ca4_P2_17317909	Ca4	17317909	ATTTTT/ATTTTTT	CTCAAAAGTGGGATAG GGCA	ACAGCGTGAAACAAGA TCCC	60.1	429	INTRON	Ca_05390	M	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17318086	Ca4	17318086	A/AG	CTCAAAAGTGGGATAG GGCA	ACAGCGTGAACAAGA TCCC	60.1	429	INTRON	Ca_05390	M	--
Ca4_P2_17318109	Ca4	17318109	AA/AATATTA	CTCAAAAGTGGGATAG GGCA	ACAGCGTGAACAAGA TCCC	60.1	429	INTRON	Ca_05390	M	--
Ca4_P2_17321092	Ca4	17321092	CGATGATGATGATGATG/CGATGAT GATGATGATGATG	CATCGGCAAGACTGA GTGA	CGATGGTGCGATAGC AGAA	60.0	582	INTERGENIC	--	--	--
Ca4_P2_17322906	Ca4	17322906	AATATATATATATATATATATATA/A ATATATATATATATATATATA	TCATCCATAGAGCAGT GGCA	CGATCACGATTGTGTT TGG	60.0	225	INTERGENIC	--	--	--
Ca4_P2_17323787	Ca4	17323787	TAA/TAAA	CTTGGTACAGTTTGG CGAT	TCTTGTGTTGTGGGT TTCA	60.0	490	INTERGENIC	--	--	--
Ca4_P2_17323828	Ca4	17323828	CATATA/CATA	CTTGGTACAGTTTGG CGAT	TCTTGTGTTGTGGGT TTCA	60.0	490	INTERGENIC	--	--	--
Ca4_P2_17327734	Ca4	17327734	ATTTT/ATTT	CGAACACAACGATAAGA TCTCG	TGCACTTAATTGCCAA CGA	60.3	876	INTERGENIC	--	--	--
Ca4_P2_17328369	Ca4	17328369	GAAAA/GAAAAA	ACACGTGCAATATCGG TGAA	TTCAACAAGTTTTCGAT ACGGA	59.6	429	INTERGENIC	--	--	--
Ca4_P2_17328665	Ca4	17328665	GAA/GAAAA	ACACGTGCAATATCGG TGAA	TCCTCCCTCTTTATCAT GCC	59.1	750	INTERGENIC	--	--	--
Ca4_P2_17328879	Ca4	17328879	GTTTTT/GTTTTTTT	CGTGATAAACGTGCAT CAA	TCCTCCCTCTTTATCAT GCC	59.1	244	INTERGENIC	--	--	--
Ca4_P2_17329245	Ca4	17329245	TCACA/TCA	GGCATGATAAAGAGGG AGGA	TAACCTCTCACGTGCA ATCG	59.9	386	INTERGENIC	--	--	--
Ca4_P2_17329310	Ca4	17329310	AC/A	GGCATGATAAAGAGGG AGGA	TAACCTCTCACGTGCA ATCG	59.9	386	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17337403	Ca4	17337403	CAA/CAAA	AATGGCTGCCGTTATTTG	AACAACATTTGCCTTCCCTG	60.0	198	INTERGENIC	--	--	--
Ca4_P2_17339262	Ca4	17339262	CTTTTTTTTT/CTTTTTTTT	ACTTGGGAACCCGAAGAAGT	AGAGTAGCCGGCAAGGTCTC	60.9	707	INTERGENIC	--	--	--
Ca4_P2_17342951	Ca4	17342951	ATTTTTTT/ATTTTTT	TTTAGCTTAGCTCCTATGCGG	GGCTTAGCTTGGTCTCATGC	60.0	918	DRR	Ca_05389	A	--
Ca4_P2_17353180	Ca4	17353180	TAAAAAAAA/TAAAAAAAA	GCTTAGGTGGACTTATGGGC	CGATCCATTATTTCACTGGGA	59.8	379	INTERGENIC	--	--	--
Ca4_P2_17354406	Ca4	17354406	TA/T	TTGTTCTTCTGTGGACACCA	AATATGTCATAATTGACCGAATCA	57.5	464	INTERGENIC	--	--	--
Ca4_P2_17354782	Ca4	17354782	TAAAAAAAA/TAAAAAAAA	TATTGATTCGGTCAATTATGACA	TGGATTAGGCCTTGAAATGCAT	59.7	728	INTERGENIC	--	--	--
Ca4_P2_17355433	Ca4	17355433	ATTTTTTTTT/ATTTTTTTTTT	AAAGGACCCCGAAAAA GAAA	TGAGGCTTATAGCCCCAATG	60.1	334	INTERGENIC	--	--	--
Ca4_P2_17360464	Ca4	17360464	TTATATATATATATAT/TTATATATATATATATATATATATATATATAT	GTGTGCGATTGAGTTGAACG	CTTGCTGGGCTTTTCAAGAC	60.0	579	INTRON	Ca_05388	T	NAC
Ca4_P2_17361143	Ca4	17361143	TGAGAGAGAGA/TGAGAGAGAGAGAGAGA GAGA	GTCTTGAAAAGCCAGCAAG	CCTACCCTGCTCAAAGTTGC	59.9	469	INTRON	Ca_05388	T	NAC
Ca4_P2_17365284	Ca4	17365284	TA/TAA	CCCCGGCTTACACATTTCTTA	TATTGGTGTAAACCGAATCGCA	60.0	557	INTRON	Ca_05388	T	NAC
Ca4_P2_17365456	Ca4	17365456	TAAAAAAAA/TAAAAAAAA	TGCGTTCGGTTACACCAATA	ACGTAGAAAGGGCGGAAGAT	60.1	397	INTRON	Ca_05388	T	NAC
Ca4_P2_17366027	Ca4	17366027	GAAAAAAAA/GAAAAAAAA	AAGAACATCTCCGCCCTTT	GGCAGTGGATTCAATTCGTT	59.9	325	INTRON	Ca_05388	T	NAC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17367667	Ca4	17367667	AC/ACC	TAAATGTGATTGCGAG CGA	ATGCATGGAGGTGATG ATGA	59.9	284	INTERGENIC	--	--	--
Ca4_P2_17372359	Ca4	17372359	CC/CCCTCACTAC	TGCATAAACAAAGATCG GGT	CGTGTTCGAAGGGTC ATCT	60.0	691	INTERGENIC	--	--	--
Ca4_P2_17372607	Ca4	17372607	TAAAAAAA/TAAAAAAA	TCTGTCCAAACCACATT TCAA	CGTGTTCGAAGGGTC ATCT	60.0	455	INTERGENIC	--	--	--
Ca4_P2_17375359	Ca4	17375359	ATAGGATT/ATAGGATTAGGATT	TTTCACCGAGTAGCTTG AGGA	TCTCCTTGAAGTGTGC AACAA	59.5	649	INTERGENIC	--	--	--
Ca4_P2_17375692	Ca4	17375692	TAAAAAAAAA/TAAAAAAAAA	TTGTTGCACACTTCAAG GAGA	TCGTAGTTGGTCACCG ATCA	60.1	435	INTERGENIC	--	--	--
Ca4_P2_17375846	Ca4	17375846	CTTTTTTT/CTTTTTTT	TTGTTGCACACTTCAAG GAGA	TCGTAGTTGGTCACCG ATCA	60.1	435	INTERGENIC	--	--	--
Ca4_P2_17376469	Ca4	17376469	CAAAAAAAAA/CAAAAAAAAA	TGATCGGTGACCAACT ACGA	AACACATTGAAGATG GGGG	59.6	536	DRR	Ca_05387	R	--
Ca4_P2_17376716	Ca4	17376716	ATTTTTTTT/ATTTTTTTT	CCCCCATCTTCAATGT GTT	AGATGTAGCAACGCA ACCA	59.3	698	DRR	Ca_05387	R	--
Ca4_P2_17379518	Ca4	17379518	TG/T	AACAAATGGTGATCAC GAA	TCTTCATTGGTCTCGT GCTT	58.4	740	INTRON	Ca_05387	R	--
Ca4_P2_17380152	Ca4	17380152	AT/ATT	GCAACCGAACCAAGT AAAG	GGAATCAATGCAAGC CCTA	60.0	200	INTRON	Ca_05387	R	--
Ca4_P2_17380447	Ca4	17380447	CG/C	TAGGGCTTTGCATTGAT TCC	CAACCTCATCCACTTC CGT	60.0	352	INTRON	Ca_05387	R	--
Ca4_P2_17388357	Ca4	17388357	TAAAAAAAAA/TAAAAAAA	AAATCGCCATTGGAAC TTG	CACGATCATGTGTTCC ACAA	58.9	308	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17408958	Ca4	17408958	ATGTTGT/ATGT	CCAAAGAATTTCCGAC CAA	CTCCTCCCCTCAAATC TCC	60.0	567	INTERGENIC	--	--	--
Ca4_P2_17420097	Ca4	17420097	TA/TAA	TCGTTC AACCATTCGAT CAT	TCCGAATGAGTGACCA AAATC	59.9	612	INTERGENIC	--	--	--
Ca4_P2_17421248	Ca4	17421248	G/GTTTAA	CCCGTGAGTTGTTGGA AGTT	TCGATAATTTGAAACCG CCT	59.5	569	INTERGENIC	--	--	--
Ca4_P2_17423293	Ca4	17423293	TTATATA/TTA	GTGTGGGTTGGCTTTC ATCT	GAAACGCTATGATGCC GTAAA	60.1	492	INTERGENIC	--	--	--
Ca4_P2_17431572	Ca4	17431572	GC/G	TCTGTCAATCCTGCCAT TTTT	TCGCAATGAGTCTCCC TCTT	60.0	858	INTRON	Ca_05384	K	--
Ca4_P2_17431624	Ca4	17431624	T/TG	TGTCCCTCATTATAAGC ACCC	TCGCAATGAGTCTCCC TCTT	60.0	606	INTRON	Ca_05384	K	--
Ca4_P2_17435255	Ca4	17435255	GTACTACTA/GTACTA	TCAAGCTGCTTTCAATG GTG	GAGGCCAATGGAGTGG TTTA	59.9	241	INTRON	Ca_05384	K	--
Ca4_P2_17436350	Ca4	17436350	CTTTTT/CTTT	AAGATCCTGCCCTCAA GAT	TGCTCCAATGAGTGG TGAC	59.9	459	INTRON	Ca_05384	K	--
Ca4_P2_17437453	Ca4	17437453	T/TG	CTTGCTTTTGAGACCT TGC	CATCCAAGGCAAGGAA CAAT	59.9	463	INTRON	Ca_05384	K	--
Ca4_P2_17437950	Ca4	17437950	TTGT/TT	ATGGGTTCCCATGAAAA TCA	CAATGCCGCACTCATT ACAC	60.1	585	INTRON	Ca_05384	K	--
Ca4_P2_17438191	Ca4	17438191	ATTTTTTTTT/ATTTTTTTT	ATGGGTTCCCATGAAAA TCA	ACCGAGTGAATGGCCA TAAG	60.0	757	INTRON	Ca_05384	K	--
Ca4_P2_17439449	Ca4	17439449	AC/A	CATCAACTATCCCCACA CCC	ATGAGGCCCAAGAAAC CTCT	60.1	571	INTRON	Ca_05384	K	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17443644	Ca4	17443644	GAAAAAAAA/GAAAAAAAA	GTTGGTGTGGCTTT GCTT	CGTTGGTTACAGAG GCAT	60.0	768	DRR	Ca_05384	K	--
Ca4_P2_17448021	Ca4	17448021	TATTTTCATTTTC/TATTTTCATTTTCATT TTC	GAGTTGAGGAAACAAT ATGTCAAA	TTCTTTTCTGCGATTT CTCG	59.6	654	INTERGENIC	--	--	--
Ca4_P2_17449171	Ca4	17449171	A/AG	TTCTTCACCGAGCTTT GTT	AATGCATGCTTGATGG TTCA	60.1	654	INTERGENIC	--	--	--
Ca4_P2_17457595	Ca4	17457595	ATT/ATTT	CTGCACGAAGGCAACA TAAA	TTGGACCACCTAACCT GCTC	60.1	795	DRR	Ca_05382	--	ERF
Ca4_P2_17463034	Ca4	17463034	A/AT	AGAAATAAATCACGAG TAACCAAA	TTGCGGATTCCCAGTT ACTC	60.1	734	INTERGENIC	--	--	--
Ca4_P2_17463437	Ca4	17463437	ATTTT/ATTTTGTATTTT	GAGTAACGGGAATCC GCAA	GATACTTTGGCCGTGA CGTT	60.0	385	INTERGENIC	--	--	--
Ca4_P2_17463503	Ca4	17463503	TTTTATTATTATTATT/TTTTATTAT TTATTATTATTATT	GAGTAACGGGAATCC GCAA	GATACTTTGGCCGTGA CGTT	60.0	385	INTERGENIC	--	--	--
Ca4_P2_17464247	Ca4	17464247	C/CGAGG	ACCACTCACCAACCTTC CAG	AACCCGGAGACCAAT TTAG	60.2	635	INTRON	Ca_05381	O	GRAS
Ca4_P2_17470566	Ca4	17470566	TGGG/TGG	TGGTGCAACCACTCTG CTAT	TCCACTTGAAGCAGC TTTT	60.0	425	DRR	Ca_05380	AB	--
Ca4_P2_17470593	Ca4	17470593	GTTTTTTTTTTTTT/GTTTTTTTTTTTT T	TCCTTGCAACATTTGTT TGG	TCCACTTGAAGCAGC TTTT	60.0	157	DRR	Ca_05380	AB	--
Ca4_P2_17470871	Ca4	17470871	GTGGCTA/GTGGCTAATGGCTA	GTCCCAACAAAGAAAG CAAA	CACTTGAAGAGGCTCC ATCC	59.8	343	DRR	Ca_05380	AB	--
Ca4_P2_17472385	Ca4	17472385	CACATCAA/CACATCAAAACATCAA	TAATGATCCCTAGGGG AGGG	CGCTTTAAGCCTGACA AAGG	60.0	376	DRR	Ca_05380	AB	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17475440	Ca4	17475440	GT/GTTGTTATT	CGGGCAGTAGCATTAG ATGG	GGATGAATGGGAGGTG GTTA	59.6	210	INTERGENIC	--	--	--
Ca4_P2_17480298	Ca4	17480298	ATATTATTATTATTAT/ATATTATTAT TAT	TTGTTGGCCGTCATAG CTA	GACCAATTACAAGCGA GGGA	60.1	617	INTRON	Ca_05379	O	--
Ca4_P2_17482178	Ca4	17482178	ATTTTTTT/ATTTTTTTT	TCCATCTGAACCTGAC TCC	TGCCCTAAGATGGTTT GGTC	59.9	445	INTRON	Ca_05379	O	--
Ca4_P2_17482484	Ca4	17482484	CGTTG/CGTTGTTG	TCCATCTGAACCTGAC TCC	AAGTTGGGTGATGAAG TGCC	60.0	628	INTRON	Ca_05379	O	--
Ca4_P2_17484481	Ca4	17484481	ATTTTTTTTT/ATTTTTTTTTT	TCGCCTGATGCTTGTA TTG	AGGAGGCTTTTCCACA GGTT	60.1	361	INTRON	Ca_05379	O	--
Ca4_P2_17489115	Ca4	17489115	GAAAAAA/GAAAAAA	CATCACCTCAGGGAA GAAA	CGGCGGCATCTACATT TTAT	60.0	575	DRR	Ca_05379	O	--
Ca4_P2_17489726	Ca4	17489726	AC/ACC	ATAAAATGTAGATGCCG CCG	CCAGCTTGTGACAAA AGCA	60.0	349	DRR	Ca_05379	O	--
Ca4_P2_17494020	Ca4	17494020	GAAA/GAAAA	GGGTGTGAAAAATGA AAGC	AGAATTGCTGCTGCTC AGGT	60.2	734	INTRON	Ca_05378	--	--
Ca4_P2_17494426	Ca4	17494426	AGG/AG	AAATCACACCAAAGCAA AAGC	CCGAAGCCGTTAACAT TCAT	60.0	674	DRR	Ca_05377	R	B3
Ca4_P2_17495202	Ca4	17495202	GT/G	GTGTGAAGTGGGGTTT GCTT	CGAAATTCATGCATTCA ACG	60.1	476	DRR	Ca_05377	R	B3
Ca4_P2_17495441	Ca4	17495441	AG/A	GTGTGAAGTGGGGTTT GCTT	CGAAATTCATGCATTCA ACG	60.1	476	DRR	Ca_05377	R	B3
Ca4_P2_17495808	Ca4	17495808	A/AT	TCATTGCTGAAGAGCA CGAT	TGCTCAACAACAGGAA GTGG	59.9	728	DRR	Ca_05377	R	B3

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17528276	Ca4	17528276	TGG/TGGG	AAGCTTTCCATAAGCCG TGA	GACAACGCAGAAGCAG AACA	60.2	911	INTRON	Ca_05374	R	NAC
Ca4_P2_17532742	Ca4	17532742	TAAA/TAAAAA	CCCATCTTGTGGTTC ACA	CTGAAAGGCATAAAG GCAA	60.2	954	INTERGENIC	--	--	--
Ca4_P2_17533392	Ca4	17533392	CTT/CTTT	CTTTTGTGCTGGCCAT TTT	GGCATTGTGCTGAGTG ATTTT	60.1	679	INTERGENIC	--	--	--
Ca4_P2_17533461	Ca4	17533461	AA/AATTA	CTTTTGTGCTGGCCAT TTT	TGCAAGAAGAAGGAAG CCAT	60.0	713	INTERGENIC	--	--	--
Ca4_P2_17533529	Ca4	17533529	GT/G	CTTTTGTGCTGGCCAT TTT	TGCAAGAAGAAGGAAG CCAT	60.0	713	INTERGENIC	--	--	--
Ca4_P2_17534928	Ca4	17534928	TAAAAAAAA/TAAAAAAAA	TTTTTGTGTGTGCG GTTT	TGTGTCAAAGATGGTA TTTCAATG	58.9	410	INTERGENIC	--	--	--
Ca4_P2_17534970	Ca4	17534970	AAAA/AAAAACATATTTCAA	TTTTTGTGTGTGCG GTTT	TGTGTCAAAGATGGTA TTTCAATG	58.9	410	INTERGENIC	--	--	--
Ca4_P2_17535175	Ca4	17535175	ACT/ACTCT	TTTTTGTGTGTGCG GTTT	GGCTGGAAGTGAGCTA GTGG	60.0	811	INTERGENIC	--	--	--
Ca4_P2_17545144	Ca4	17545144	TATTAAAAATAATTA/TATTAAAAAT AATTAAAAATAATTA	ATCCAAAAGTCGTCCA CAG	AAATCGGTTTCCCAG TACC	60.1	652	INTERGENIC	--	--	--
Ca4_P2_17545339	Ca4	17545339	TAAAAAAAA/TAAAAAAAA	ATGCCCTTATCGTCCTG ATG	AAATCGGTTTCCCAG TACC	60.1	537	INTERGENIC	--	--	--
Ca4_P2_17545627	Ca4	17545627	TAAAAAAAA/TAAAAAAAA	AGTTTAGGGGCAAGCA CTGA	TGCATCGGAGATCACA TCTT	59.2	363	INTERGENIC	--	--	--
Ca4_P2_17547225	Ca4	17547225	TTTATT/TTT	CAACATCAGATGCACAT GGA	TTCTGATCGTTTGGT GAAA	60.1	845	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17552174	Ca4	17552174	GTT/GTTT	AAGTGAGGCCACTGGA AAGA	ATGTGTTGGAACTTTC CGC	60.0	204	INTERGENIC	--	--	--
Ca4_P2_17552666	Ca4	17552666	TAAAAAA/TAAAAAAA	GCGGAAAAGTTCCAAC ACAT	ATTCGATTTTGTAGCG GTTG	60.1	536	INTERGENIC	--	--	--
Ca4_P2_17600797	Ca4	17600797	TC/T	AAGGGTGATGGACGAA AAAC	TTAAATGGTCGCATAG AGCAA	58.5	682	INTERGENIC	--	--	--
Ca4_P2_17600811	Ca4	17600811	TAAAAA/TAAAAAAA	AAGGGTGATGGACGAA AAAC	TCCAACAACATCAAAT CATCC	59.7	951	INTERGENIC	--	--	--
Ca4_P2_17601510	Ca4	17601510	TC/T	GGATGAATTTGATGTTG TTGGA	CCGTGTCTATCCCCAT TTTG	60.2	515	INTERGENIC	--	--	--
Ca4_P2_17604443	Ca4	17604443	TA/T	TATTGGGTAGCTTGGC CACT	TTCACACCTCACAGCA GGAC	59.9	977	INTRON	Ca_05371	S	--
Ca4_P2_17606592	Ca4	17606592	ATTTTTTTTT/ATTTTTTTTT	GCATTGTGAACAAATTA TCGTAGC	GCGGAAGTAGCGATCT CAAG	60.1	767	DRR	Ca_05371	S	--
Ca4_P2_17616508	Ca4	17616508	CAAAAAAAAA/CAAAAAAAAA	ACCAAACACCGGTAAG CAAG	AACAAAACGAACAACC CAGC	60.0	472	INTRON	Ca_05369	E	--
Ca4_P2_17617805	Ca4	17617805	GAAAAAAAA/GAAAAAAAA	CATCTAGTGTGGGGA ATGTGA	ACGTTTCGCCCTACAT CATT	59.5	838	INTERGENIC	--	--	--
Ca4_P2_17617845	Ca4	17617845	AATATATATATATATATATATAT AT/AATATATATATATATATATATAT	CATCTAGTGTGGGGA ATGTGA	ACGTTTCGCCCTACAT CATT	59.5	838	INTERGENIC	--	--	--
Ca4_P2_17628873	Ca4	17628873	TA/TACTTAAATAA	TACAAGCAATCGGTGAT CCA	CAGCGGCTTCAAACCT TTAG	60.0	559	INTERGENIC	--	--	--
Ca4_P2_17629803	Ca4	17629803	ATTTTTTT/ATTTTTTTTTTT	CTTTCCGCGAACACAT TTT	GTACATACATGGACGC GACG	60.0	587	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_1763030	Ca4	1763030	ATTT/ATTT	AAAGGCATCATTACGT TCA	ACATTTTGAAGGGCA TCTG	59.9	757	INTERGENIC	--	--	--
Ca4_P2_17631583	Ca4	17631583	TT/TTAGAAAT	TGCACCTTTTCATCGCTT TTG	ACATGGGATGGGATCT GTGT	60.1	347	INTRON	Ca_05367	Z	WRKY
Ca4_P2_17633397	Ca4	17633397	ACCC/ACC	GTGAGAGTGGAGCAGG GAAG	GTGCTCCAGCACATAG CTGA	60.2	649	INTRON	Ca_05367	Z	WRKY
Ca4_P2_17636026	Ca4	17636026	C/CCAAGATATA	GGCCTCATCTCTAGCC AATG	CCAAGGAAGTTTCACC AGGA	60.1	297	INTRON	Ca_05367	Z	WRKY
Ca4_P2_17636087	Ca4	17636087	GTT/GTTT	GGCCTCATCTCTAGCC AATG	CCAAGGAAGTTTCACC AGGA	60.1	297	INTRON	Ca_05367	Z	WRKY
Ca4_P2_17637226	Ca4	17637226	CTATT/C	ACACAAGTTAGGTGGG GCAG	CTGCATCTGTAGTGAG GCCA	60.0	346	INTRON	Ca_05367	Z	WRKY
Ca4_P2_17637458	Ca4	17637458	GAC/G	ACACAAGTTAGGTGGG GCAG	GCATGGCTTGATGTGA GAGA	60.0	475	INTRON	Ca_05367	Z	WRKY
Ca4_P2_1763837	Ca4	1763837	TTTTT/TTTTGTTTT	AGAAAAATAGCGGTGG TGGA	GGTTGATGAGCAATGC CTCT	60.2	390	INTERGENIC	--	--	--
Ca4_P2_17638808	Ca4	17638808	CAA/CA	GTTGCTTCAGGGGTTA CCAA	GACAACTGCAGCATCA ATGG	60.3	301	INTRON	Ca_05367	Z	WRKY
Ca4_P2_17640423	Ca4	17640423	CTTTTTT/CTTTTTT	CAAGAAGAAGTGGTGG GGAA	GAACCCTTTCCATCGA GTCA	60.1	524	DRR	Ca_05367	Z	WRKY
Ca4_P2_17649020	Ca4	17649020	TTTTAAA/TTTTAAATTTAAA	CCAAAGAGCTGAAATG CACA	GGAAGCCGAAAAACTA AGGC	60.2	399	DRR	Ca_05365	H	--
Ca4_P2_17651073	Ca4	17651073	CTTG/CTTTGTTTTTTGTG	ACGTTGACAGCCCAATT CAT	AGAAAAAGAAGCAACG GCAA	60.0	467	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFS
Ca4_P2_17653817	Ca4	17653817	AATATA/AATA	GATGTGAGGGCTTGCA ATTT	GGTGCAACTTTATTG GTCTG	58.1	870	DRR	Ca_05364	S	--
Ca4_P2_17654502	Ca4	17654502	CTTT/CTTTT	TTGTTTTGATCATTTG ACCA	AAACGAGAGCAGTGGT GTCA	59.5	262	DRR	Ca_05364	S	--
Ca4_P2_17656569	Ca4	17656569	GATA/GATATA	AATTTGGGGCGTTACAA ACA	GTGCAAGATCCGCTAC CAGT	60.3	427	INTERGENIC	--	--	--
Ca4_P2_17658487	Ca4	17658487	TAA/TA	GGCCATTGGTGTTT ATTA	CAAACCGAACGTTTCC TTGT	60.0	526	INTERGENIC	--	--	--
Ca4_P2_1765972	Ca4	1765972	ATTAACTTT/ATT	TATTGGGTGTGAATGC GAAA	TCTCAGCATGCACTG TATGAA	59.5	205	INTERGENIC	--	--	--
Ca4_P2_17661499	Ca4	17661499	TAAAAAA/TAAAAAA	TGGTAGCATCAATGAG CCTG	TCTTTGCTATGTGACC GAACA	59.3	690	DRR	Ca_05363	R	WRKY
Ca4_P2_17662013	Ca4	17662013	TAAAAAA/TAAAAAA	TGTTGCGTCACATAGCA AAGA	TTAACGGTTCGTTTCC AGG	60.0	719	DRR	Ca_05363	R	WRKY
Ca4_P2_17666631	Ca4	17666631	GAAAAA/GAAAA	GTGGGGCAATATGGT AAGA	AAACATGGCTTGATG TGAA	60.1	106	DRR	Ca_05361	--	--
Ca4_P2_17672684	Ca4	17672684	GATA/GA	TGTAGTCCCTCTGTCCC AAAA	CGGAAGATACCAAGTC GCAT	60.1	433	DRR	Ca_05360	--	--
Ca4_P2_17677636	Ca4	17677636	CT/CTT	GGGGGCCAAAATTAA GAGA	ATATTGGGGATGATGT GGGA	59.8	528	INTERGENIC	--	--	--
Ca4_P2_17689554	Ca4	17689554	ATTTT/ATTT	GGGGATACAAAGGATG AGGAA	AGGGGAGAGTGGGAA GAGAG	59.8	557	INTERGENIC	--	--	--
Ca4_P2_17692749	Ca4	17692749	ATTTT/ATT	GGGAGAAGTTGAACCC ATGA	TCCAACCACGGGTAGA TAGC	60.0	568	INTRON	Ca_05356	TU	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
Ca4_P2_17697196	Ca4	17697196	TAAAAAAAA/TAAAAAAAAA	GGAAATTGGAAAGTG GCA	ATAAGTTCCCCCTGC AATC	60.2	564	INTERGENIC	--	--	--	
Ca4_P2_17698774	Ca4	17698774	CAAAAAAAAA/CAAAAAAAAA	TGCTTGCACTCTGAAAT TCG	ATCACGGATTGACCTT GGAG	59.9	532	INTERGENIC	--	--	--	
Ca4_P2_1771183	Ca4	1771183	TATATATA/TATATATAACATATATA	GATCAATATCTCCATGC GGG	GTTGGGCACCGTCATA AAGT	59.9	423	INTERGENIC	--	--	--	
Ca4_P2_17713409	Ca4	17713409	ATT/AT	TCCGTCGTTTATTCTTT GGC	TGAATCGTTTGGAAAA TTCG	59.9	673	INTERGENIC	--	--	--	
Ca4_P2_17715218	Ca4	17715218	GAAAAAAAA/GAAAAAAAA	CTGTTCTCACATCACG CAT	GGAGTCACCTCCAAA TTGA	59.9	143	INTERGENIC	--	--	--	
Ca4_P2_17715291	Ca4	17715291	CTT/CT	TCAATTTGGAGGGTGA CTCC	TACCAGCTTTGGTTTCT GCC	60.2	250	INTERGENIC	--	--	--	
Ca4_P2_17715589	Ca4	17715589	TAAAAAA/TAAAAAA	TCAATTTGGAGGGTGA CTCC	AAAAATTGTCACCAT CCC	59.7	372	INTERGENIC	--	--	--	
Ca4_P2_17715629	Ca4	17715629	ATTTTTTTTT/ATATATTTTTTTTTTT	TCAATTTGGAGGGTGA CTCC	GCGCTGATGCAATACA TACAC	59.2	532	INTERGENIC	--	--	--	
Ca4_P2_17716034	Ca4	17716034	ATAA/ATAATTAA	TTTAGTGTGACGGGAT GGTG	GGTTTGAGAAACAAA ACTTGG	59.9	624	INTERGENIC	--	--	--	
Ca4_P2_17717044	Ca4	17717044	TGG/TG	TCTGTCAAAGTCGGTG CAAG	ATAATGGCGCCACAGA AAAG	60.1	821	INTERGENIC	--	--	--	
Ca4_P2_17720367	Ca4	17720367	CTGATCTTGATC/CTGATCTTGATCTTG ATC	ACCCTCAGCATGGTCA AAAG	TAGTGGTGGTCCCCCT AATG	59.9	480	DRR	Ca_05352	KL	bHLH	
Ca4_P2_17721034	Ca4	17721034	AT/A	CAAGACTTTGTGGGG GAAA	TCAGTTCTGTACAGT CGGC	60.0	413	DRR	Ca_05353	O	SRS	

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17725651	Ca4	17725651	TGTGTGAGAG/TG	CCCACTCCAGCACCTC T TAG	CTTGATGGCAAGCCGA TAAT	60.1	786	INTRON	Ca_05352	KL	bHLH
Ca4_P2_17727392	Ca4	17727392	AAAGTGGAGA/AA	GGGTGCCTCCTGTACA T CAT	GCGTTGACCGGATAGA TTGT	60.0	474	INTRON	Ca_05352	KL	bHLH
Ca4_P2_17735131	Ca4	17735131	GATATATATATA/GATATATATATATATA	TTTTTAAAGGGCCCGAT TG	TGGACGGTCAAAAATA GAAGAAA	60.0	345	INTERGENIC	--	--	--
Ca4_P2_17735379	Ca4	17735379	ATATT/AT	TTTTTAAAGGGCCCGAT TG	TGATTGTACGTCATCA AAATTC	59.9	554	INTERGENIC	--	--	--
Ca4_P2_17735574	Ca4	17735574	T/TA	TCACGATCGAAAAACCT ATTTG	AAACATGACAAAAGTTG ATGTTGAA	59.8	916	INTERGENIC	--	--	--
Ca4_P2_17738283	Ca4	17738283	ATTTTTTTTTT/ATTTTTTTTTTT	TTTTCCTTCATAATTG GCG	AACGTTGGAGGATGGA GATG	59.9	395	INTERGENIC	--	--	--
Ca4_P2_17740594	Ca4	17740594	GTTTTTTTT/GTTTTTTTT	ATATGGCAAGGAACAA CGGA	TACCTTGGAATTGGCT GGTC	59.9	664	INTERGENIC	--	--	--
Ca4_P2_17742712	Ca4	17742712	TG/TGG	CCCAAAATCAATTCCGT GAT	GCACCAAGCCCTGTA ACAT	60.0	576	INTERGENIC	--	--	--
Ca4_P2_1774381	Ca4	1774381	CCTTCTT/CCTTCTCTT	CACACGAGTGTCGCCT AAGA	TGGTATCCAGAGCCAT CACA	60.1	437	INTERGENIC	--	--	--
Ca4_P2_17744706	Ca4	17744706	A/ATAAAT	CAAAAGGTCAAAGTCT CGC	TCAAAAACAGATTCAAC TTCAACAA	60.1	466	INTERGENIC	--	--	--
Ca4_P2_17746874	Ca4	17746874	G/GA	CGATGGCAATTTGGTT TCT	ACTCGTCGCTGTCTTG GACT	60.1	543	INTERGENIC	--	--	--
Ca4_P2_17755784	Ca4	17755784	CTAAGTA/CTAAGTAAGTA	TGTTTTCTGAAAGCAG GATGA	TGAAAAGAAACCAACT GCCA	59.3	279	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_1775612	Ca4	1775612	TT/TTTCAATTTTGCT	GAGAAATGGAGAGGGA AGGG	TCGTCTGACACCACCA ACAT	60.0	718	DRR	Ca_07800	K	HSF
Ca4_P2_17756932	Ca4	17756932	ATT/ATTT	AGTGGGAGAGTGGTGT TTGG	AATGGTGTGGGTTGG TTTA	59.9	618	INTERGENIC	--	--	--
Ca4_P2_17757375	Ca4	17757375	T/TC	TAAACCAACCCACACC ATT	ACAATGCCTTTTGGCA CTC	60.1	252	DRR	Ca_05349	O	--
Ca4_P2_17757630	Ca4	17757630	CTT/CT	TAAACCAACCCACACC ATT	GGACCAATGTCTTTGA TGCC	60.3	689	DRR	Ca_05349	O	--
Ca4_P2_17758892	Ca4	17758892	GTTTTTTTT/GTTTTTTT	TTTGATGCAAAACAGTT CCTG	CGATGAAGGAGTTCTC AGCC	60.0	499	DRR	Ca_05349	O	--
Ca4_P2_17759108	Ca4	17759108	TAAA/TAAAA	GGCTGAGAACTCCTTC ATCG	CGCACCACTTTACATT CCT	60.0	431	DRR	Ca_05349	O	--
Ca4_P2_1776360	Ca4	1776360	TAA/TA	TGAGACCCTTAATCCCA CCA	TGGCCAAAAAGAGAAG GCTA	60.0	874	DRR	Ca_07800	K	HSF
Ca4_P2_17765663	Ca4	17765663	TAAA/TAA	TAAACCGTGGTAAAGG CTGG	GGCTTAAACATTGGTC GCAT	60.0	839	INTRON	Ca_05349	O	--
Ca4_P2_17766593	Ca4	17766593	TAAAA/TAAA	ATTGCATTGTGCTCCAC TTG	AGGGGTTGGTATAGTA GAAGGAA	57.4	512	DRR	Ca_05348	--	--
Ca4_P2_17769321	Ca4	17769321	GAACAAACAAACAAACAA/GAACA AACAAACAAACAA	GAGCCCATTCCTCCAAAG ATGA	TTCAGCCTCGACCAGT TTTT	59.9	814	INTRON	Ca_05348	--	--
Ca4_P2_17769598	Ca4	17769598	TCATCATCAACATCATCA/TCATCATCA CATCATCAACATCATCA	GTCTTTGATGGGACGG ATGT	TTCAGCCTCGACCAGT TTTT	59.9	126	CDS (large-effect mutations)	Ca_05348	--	--
Ca4_P2_17771969	Ca4	17771969	GTCTCTCT/GTCTCT	CATGGAAGAGATGCTG GGTT	CTTTTGGAAATCGGGAT GAGA	60.0	790	INTRON	Ca_05347	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17772365	Ca4	17772365	AAC TT/AAC TTACTT	TCTCATCCCGATTCCAA AAG	CGTAAGTTTCCCGTTC CAAA	60.0	387	INTRON	Ca_05347	R	--
Ca4_P2_17775890	Ca4	17775890	TAAA/TA	TGCATTCCAGCAAAAAGT ACCA	GGCACTGCCGTCAAAA GTAT	60.1	525	DRR	Ca_05347	R	--
Ca4_P2_17777647	Ca4	17777647	CATCTGAATCTGAA/CATCTGAA	CCTTAGGGGAGATTTG CATT C	TGCAGATAAATGGCCA AACA	60.1	852	INTERGENIC	--	--	--
Ca4_P2_1778100	Ca4	1778100	CAAAAAAA/CAAAAAAA	AGGGGACGTCTCCCAT TTAT	AGATAGGACCCCAACC ATT C	60.0	705	INTRON	Ca_07800	K	HSF
Ca4_P2_17793841	Ca4	17793841	ATTTTTTTTT/ATTTTTTT	CCATCCCACTACTAGC CAA	TTGACTTGGCCAAACA ACAC	59.6	472	INTERGENIC	--	--	--
Ca4_P2_17821019	Ca4	17821019	AAGA/AA	GGAAGTGTCTGATTGTT CCCA	AGATGTGGGCATGTGT TTCA	60.0	805	INTERGENIC	--	--	--
Ca4_P2_17821086	Ca4	17821086	AGGGGG/AGGGG	GGAAGTGTCTGATTGTT CCCA	AGATGTGGGCATGTGT TTCA	60.0	805	INTERGENIC	--	--	--
Ca4_P2_1782351	Ca4	1782351	TAA/TA	TGGTTTGGATTGGAG CTGT	TAGATCCGGAATGAAG ACCG	60.0	361	INTRON	Ca_07801	T	--
Ca4_P2_17823791	Ca4	17823791	TAAAAAAAAA/TAAAAAAAAA	TCTCATGTCTTGCAAAA TTCTTCT	TTTGTGATTGATTTTG CCGTT	59.4	354	INTERGENIC	--	--	--
Ca4_P2_17823999	Ca4	17823999	GTTTT/GTTT	TTGACCAATTTCACTTC GTG	AATAGGGGACCAAAA CTGC	60.2	571	INTERGENIC	--	--	--
Ca4_P2_17825906	Ca4	17825906	ATTTTTT/ATTTTTT	AAAAGGCCAACCAAAAT GCA	CCTCAATTCTCGATTTC CCA	60.0	555	INTERGENIC	--	--	--
Ca4_P2_17827610	Ca4	17827610	A/AT	TCAACTTCGGTGCTTGA CAG	TTGGGTACACGAACA ATGA	59.8	141	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17830486	Ca4	17830486	ATTTTTTTTT/ATTTTTTTTT	TGGCTTGCATTCTCATT CAG	TTTGGATGCATAGGCC ATT	60.3	296	INTERGENIC	--	--	--
Ca4_P2_17837344	Ca4	17837344	CTTTTTTTTT/CTTTTTTT	TAGCCCCTTGTCTGATG GGT	GAATGCCCTAAATGGG ACAA	59.8	403	INTERGENIC	--	--	--
Ca4_P2_17838219	Ca4	17838219	ATTTTTTTTT/ATTTTTTT	CATGGAAACCCTGATT GCT	GGTGTGGGATTGGTTG ATTG	60.0	634	INTERGENIC	--	--	--
Ca4_P2_17838269	Ca4	17838269	TTGACGAG/T	CATGGAAACCCTGATT GCT	GGTGTGGGATTGGTTG ATTG	60.0	634	INTERGENIC	--	--	--
Ca4_P2_17839861	Ca4	17839861	TGTGGTGGTGGTGGTGGT/TGTGGTG GTGGTGGTG	AAACACTGTTCCCCGAA GTG	GAGTCGGAAACCCGAT AACA	59.9	325	INTRON	Ca_18620	--	--
Ca4_P2_17843324	Ca4	17843324	TA/T	GGGGGAGACCTACCGT ATCT	AGAAACGGGTTGTGCC TATG	60.0	224	INTERGENIC	--	--	--
Ca4_P2_17847500	Ca4	17847500	CTCCTTTTCATC/CTCCTTTTCATCCTTT TCATC	TGAACGATGGTGGAAA GACA	GCAGAGCTCTTTGGCA GAGT	59.9	391	INTRON	Ca_18621	J	--
Ca4_P2_17848856	Ca4	17848856	AATAAATTATTATAA/AATAA	TCTGCTGAGACCCGTC TTTT	AAGCCAGGGCCAGAAA TTAT	59.9	602	INTRON	Ca_18621	J	--
Ca4_P2_17849606	Ca4	17849606	TGAGAGAGAGAGAGAGAGAGAGAT GAGAGAGAGAGAGAGAGAGA	AGTGTAAAGTGCCCAAG GTGG	TTTCCTCGGCTCTGTT CTGT	60.0	609	INTRON	Ca_18621	J	--
Ca4_P2_17851237	Ca4	17851237	AC/A	TTTCCTTGAAGCACAAG GCT	GGCGATATTACCGAG CTGA	60.2	308	INTRON	Ca_18621	J	--
Ca4_P2_17854136	Ca4	17854136	CCTCTCTCTCTCTCTCTC/CCTCTCT CTCTCTCTCTC	GCGAAGGGTTTTAGGG TTTC	TATAGCGAGAAGTTCC CCGT	60.0	521	INTRON	Ca_18622	K	WRKY
Ca4_P2_17862487	Ca4	17862487	CTTT/CTT	TTTCTTCGGATGGAAA TGC	ACAAAATGGCAATGC ACAA	60.0	571	INTRON	Ca_18623	--	WOX

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_17862773	Ca4	17862773	AGT/AGTGT	TTTTCTTCGGATGGAA TGC	ACAAAAATGGCAATGC ACAA	60.0	571	INTRON	Ca_18623	--	WOX
Ca4_P2_17863620	Ca4	17863620	CTTATTTGGAATTATTTGGAATTATT/CT TATTTGGAATTATT	TTTGATTGTGGCTTTTG CAG	ACGAGCTAAAGGATGG GTTG	59.2	540	DRR	Ca_18623	--	WOX
Ca4_P2_17865279	Ca4	17865279	CTTTTTTTTTTT/CTTTTTTTTTT	ATATGGAAAGTCGCCG TTTG	CCGAGGCAATAAAACA CCTC	59.6	494	INTERGENIC	--	--	--
Ca4_P2_17873426	Ca4	17873426	AAGGA/AAGGAGGA	CGAATGGAAAAAGCGA GTTT	CAATAATCCCCGCTCTT GAA	60.0	303	INTERGENIC	--	--	--
Ca4_P2_17882499	Ca4	17882499	ATTTTTTTTTTT/ATTTTTTTTTT	TTTCCAATATCGTTGC CGT	TGGGTGGGGATTTAAT TCTAGTT	60.0	756	DRR	Ca_18626	--	WRKY
Ca4_P2_17891	Ca4	17891	AATATATATATATATATATATAT/AATA TATATATATATATAT	TTTGGTGTCTTTGTGTC GAA	TGCCCTCGAAGGATTT TAAG	59.3	877	INTERGENIC	--	--	--
Ca4_P2_1791916	Ca4	1791916	AGTTAGTTTGTTA/AGTTAGTTTGTTAG TTTGTTA	CGATATTGCAAAATGGC GTG	CAATGATCACACCAAG GTCG	60.0	741	INTRON	Ca_07801	T	--
Ca4_P2_17942733	Ca4	17942733	CTATATATATATAT/CTATATATATATA TATAT	CATCGTCAGCACATCAC AAA	CTTAGGAGGTCTTGCC CCTC	60.2	447	INTERGENIC	--	--	--
Ca4_P2_17989441	Ca4	17989441	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TTGGTGATCGCAAAGA CATC	CCCTATTTTGCTTTGCT TGC	59.9	950	INTERGENIC	--	--	--
Ca4_P2_17999604	Ca4	17999604	ATATTTATTTATTTATTTAT/ATATTTATT TATTTAT	CAATCCACCCTTTGCA AGT	TCATGCTCTTGCTCTC CCC	60.3	472	INTRON	Ca_18641	I	bHLH
Ca4_P2_1800090	Ca4	1800090	C/CG	TCGATCCAAGGAAATAT GGC	AGAATGGGGGAAGCAA GAAT	59.9	616	INTRON	Ca_07801	T	--
Ca4_P2_18001317	Ca4	18001317	AAATAATAATAATAATAATAATAATA ATAATAATAAT/AAATAATAATAATAATA ATAATAATAATAATAATAATAATAATA AAT	TGGACCAATAGAGATT GAGCG	AAAACGTTCACTACTC GGTC	60.0	364	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_18033819	Ca4	18033819	A/AT	AGCACACGCCCTTGT ACTT	TCATTCCAGAAGGAGA TGGG	60.0	746	INTRON	Ca_18645	--	--
Ca4_P2_18033913	Ca4	18033913	CT/CTT	CTGAGTGACCTCCCTT CCAA	TCATTCCAGAAGGAGA TGGG	60.0	433	INTRON	Ca_18645	--	--
Ca4_P2_1805860	Ca4	1805860	CAAAA/CAA	AAAGAACATGACAAACC GGC	CTTACGTGCCTCCACC AAAT	60.0	657	INTRON	Ca_07801	T	--
Ca4_P2_18061059	Ca4	18061059	TATAATAATAATAATAATAATAA/TAT AATAATAATAATAATAATAATAATAA TAA	GAAGCGACCACCTGAA GAAC	CAGAACAAATGACGTG TCCC	59.0	536	INTERGENIC	--	--	--
Ca4_P2_18091373	Ca4	18091373	TCATCAC/T	CCACGGATGTGATTTA GCCT	GAAGCACCGTTCCTTC TTGA	60.4	401	INTERGENIC	--	--	--
Ca4_P2_18121565	Ca4	18121565	TAAGAAG/TAAG	GCTGCACCATGAGATC TTGA	ATGGTGCTGGAAGTTG CTTT	59.7	440	INTRON	Ca_18652	--	--
Ca4_P2_18196212	Ca4	18196212	ATTT/ATTTAATCTTTTT	GTGGTCCAGATTCTCC CAAA	TGTCGCTTCAGCAAAA AGAA	59.7	549	INTERGENIC	--	--	--
Ca4_P2_1820931	Ca4	1820931	AC/A	ATTTGCAGGATTTGAA CCA	TGACTGATTGTCGCTG ATGA	58.9	578	INTERGENIC	--	--	--
Ca4_P2_1822745	Ca4	1822745	TAAA/TA	TTTCTTTTCAGCAAAAG TACAACC	TTGAAAAGGGGTTCTC CAAA	59.5	320	INTERGENIC	--	--	--
Ca4_P2_1823869	Ca4	1823869	CTC/CTCTAATC	GCATCAACATGCTTACA CACG	GTGAAAAGCGTTTGA CCCT	59.2	444	INTERGENIC	--	--	--
Ca4_P2_1827582	Ca4	1827582	TATAATAATAAAT/TATAATAATAAT	TTCAACCCGATATCTC TCC	TGTGTCTCACCGCATT CATT	60.1	603	INTERGENIC	--	--	--
Ca4_P2_1828432	Ca4	1828432	TTTTTTTTA/T	TGTTCTCGTCTTCGTT CCT	CAACGCTGCAATTAC ATTC	60.3	138	INTRON	Ca_07803	T	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_1829151	Ca4	1829151	ATT/AT	AGGGGGCAGTGTAGAT TGTG	TGCAGCCCAAAATGTG TAAA	60.1	596	INTRON	Ca_07803	T	--
Ca4_P2_1831102	Ca4	1831102	TAAAAAAAA/TAAAAAAAA	TCCTGAGGAAAAATGTT GGC	GAGATTAAGCCGGAAG ACCC	60.0	768	DRR	Ca_07803	T	--
Ca4_P2_18314259	Ca4	18314259	CAAAAAAAAA/CAAAAAAAAA	TCACTGAAGGCTCAAG CTCA	TTCATCATTGTCGTCC AGG	59.5	348	INTERGENIC	--	--	--
Ca4_P2_1831456	Ca4	1831456	TTA/TTATA	TCCAATAAGGTGCCTA AGGA	GAGATTAAGCCGGAAG ACCC	60.0	256	DRR	Ca_07804	--	--
Ca4_P2_1831678	Ca4	1831678	GTTTTTTTT/GTTTTTTTTT	GGGTCTTCCGGCTTAA TCTC	TCAACCTTCTCTCCCC TTT	59.9	357	DRR	Ca_07804	--	--
Ca4_P2_1834191	Ca4	1834191	CTTTTTT/CTTTTT	ATTCTCGGGTCTCCAC CTT	TGCTGATTGTTAGACC GCAG	60.0	333	INTRON	Ca_07804	--	--
Ca4_P2_1835541	Ca4	1835541	CTTTTTTTT/CTTTTTTTTT	ACCATTCAAGGGTTCAC TGC	GCAATCGCGTTATGGA GACT	60.1	583	INTRON	Ca_07804	--	--
Ca4_P2_1837868	Ca4	1837868	ATGTGT/ATGTGTGT	GGACAATGTCTGGTCA GCAA	ATCCGTACTTGGACCC ACCT	60.6	523	INTERGENIC	--	--	--
Ca4_P2_1840597	Ca4	1840597	ATTCATTCAAAATTAATTCATTCAAAAT TAATTTTCATT/ATTCATTCAAAATTAATT TCATT	ACTCATAATTGCGTCTG CCC	TTCTCTCCATCTGCTG GCT	60.1	506	DRR	Ca_07805	--	--
Ca4_P2_18407838	Ca4	18407838	AATATATATATATATATATATATA/AAT ATATATATATATATATATATATA	TAATAGGAACCCACACC CCA	ATGCTCCGGTGAACAA TCTC	60.1	360	INTERGENIC	--	--	--
Ca4_P2_18446227	Ca4	18446227	GTTTTTTT/GTTTTTTT	TCTCACGGTTGTGAGG ACTG	GGTGGAGGTGAAGGTA AACAA	58.9	304	INTERGENIC	--	--	--
Ca4_P2_18462391	Ca4	18462391	GTTTTTTTTTTT/GTTTTTTTTTTT	AGGAAGGTGGATGCAG ATTG	TGGAAGAAAAGGAATC CGAA	59.6	455	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_1848187	Ca4	1848187	TATAATAATAA/TATAATAATAAA	AGAAGCAAAAGAGCCC TTCC	ATAGGAATATAGGCGC GGGT	59.8	323	INTERGENIC	--	--	--
Ca4_P2_1848385	Ca4	1848385	CA/CAATA	AGAAGCAAAAGAGCCC TTCC	TTTGGAAATTGTAAATC GCGG	60.0	805	INTERGENIC	--	--	--
Ca4_P2_1848879	Ca4	1848879	ATTTTTTTT/ATTTTTTTTTT	AACCGCGATTTCAAAT TCA	ATCGCGTGAGAACAAA GAGG	60.4	130	INTERGENIC	--	--	--
Ca4_P2_1849730	Ca4	1849730	ATTTT/ATTTTT	TTTGGGAGCAATAAAT TTCAA	ATCAACTGAAACGACC TGCC	60.1	228	INTERGENIC	--	--	--
Ca4_P2_18515805	Ca4	18515805	TATAAATAAATAAATAAATAAAT/T ATAAATAAATAAATAAATAAATAAA T	TTTTTGAGATTGGTACG GGA	TCAGCGTTTGTGTGTTG ACTT	58.5	738	INTERGENIC	--	--	--
Ca4_P2_18518061	Ca4	18518061	GTTTTTTTT/GTTTTTTTTT	AGCTAGACGAGTTCAG ACACCA	GTCGCAAGATGCGAAT GTAA	59.8	187	INTERGENIC	--	--	--
Ca4_P2_1855105	Ca4	1855105	TTTAT/TTTATTAT	CACGACCCTTCGATTG TTT	AAACCGAGTGCCAATT CTGT	59.7	430	INTERGENIC	--	--	--
Ca4_P2_18582757	Ca4	18582757	GTATATATATATATAT/GTATATATAT ATAT	CGAAGATTTTATGACAC GGGA	CGGTTAATTTCCACAC CGAC	60.2	806	INTERGENIC	--	--	--
Ca4_P2_1858416	Ca4	1858416	GAAAAA/GAAAA	ATGGTGACACAAAACA GGA	AAACCGATATGCCCTTT GAA	59.4	788	INTERGENIC	--	--	--
Ca4_P2_1860625	Ca4	1860625	C/CTA	TGAAGTGTCCAATGCC AAA	TAAAGGTGTTTTGTCC GCC	60.0	532	INTERGENIC	--	--	--
Ca4_P2_1861853	Ca4	1861853	AT/ATGAACCTT	TGAGGACAAAAGATCC CCTG	AGGGTCCACAGAAAAAT CGTG	60.0	870	INTERGENIC	--	--	--
Ca4_P2_1861881	Ca4	1861881	GTTTATTTATTTATTTATTTATTTAT TTATTTATTTATTTATTTATTTAT	TGAGGACAAAAGATCC CCTG	AGGGTCCACAGAAAAAT CGTG	60.0	870	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_1864820	Ca4	1864820	GATA/GATATATA	CTTCTGGGTGTCAGCA ATGA	AATCAAATCAACGTGTG CCA	60.0	432	INTRON	Ca_07807	P	MIKC
Ca4_P2_18649901	Ca4	18649901	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATATAT ATAT	CTCTTTGGTTCTACGGC TGC	TATGGCTTACGAGGGA CTGG	60.1	911	INTERGENIC	--	--	--
Ca4_P2_18651098	Ca4	18651098	AATATATATATATATATAT/AATATATA TATATATATATATAT	TGCTTTCTTTGATGTGC TGG	TTCCCCAAACATCATT TAGTT	59.6	385	INTERGENIC	--	--	--
Ca4_P2_1865918	Ca4	1865918	CATATATATATATATAT/CATATATATAT ATAT	TAAATGCCACCAGATC ACA	AAGGATGTGAGTAGCA GAAGTGC	60.0	848	INTRON	Ca_07807	P	MIKC
Ca4_P2_1867347	Ca4	1867347	ATTTTTTT/ATTTTTTTTT	GCAAACCGTGTTCG GAAT	ATTCCTCAACAGCTGCC AATA	60.5	560	DRR	Ca_07808	--	MYB_related
Ca4_P2_1867692	Ca4	1867692	ATTTTTTTTT/ATTTTTTTTT	GCAAACCGTGTTCG GAAT	TTGACCAAAACAAGCT GCAC	59.9	765	DRR	Ca_07808	--	MYB_related
Ca4_P2_1875458	Ca4	1875458	A/AC	GGCGCATAGCATTAT CAGT	ATGGTTGGAGTTGAG TTGC	60.0	265	INTRON	Ca_07808	--	MYB_related
Ca4_P2_18781017	Ca4	18781017	TAAAAAAAAA/TAAAAAAAAA	GAGAAACAACGAGG AAAC	ATTATTGCCCAATTC AAA	60.3	350	INTERGENIC	--	--	--
Ca4_P2_18819263	Ca4	18819263	ATTTTTTTTT/ATTTTTTTTT	TGTCGGTGCTTGAGTG ATTC	CCGGATGAAACAACA TTGA	59.4	804	INTERGENIC	--	--	--
Ca4_P2_18819341	Ca4	18819341	ATTTTTTTTT/ATTTTTTTTT	GAGAAAAGTTCTGCGC GATT	CCGGATGAAACAACA TTGA	59.4	771	INTERGENIC	--	--	--
Ca4_P2_18821207	Ca4	18821207	CATTATTATTATTATTATTATTATTC ATTATTATTATTATTATTATTATTAT T	AAAGTCGATTCTGGG GATA	ATGTGCCAAGCTTCGAC AATG	59.6	722	INTERGENIC	--	--	--
Ca4_P2_18836993	Ca4	18836993	TGG/TGGG	AGTGAAAAAGCAGAA GGCA	CAACTGCTAGACGTTG GGC	59.5	137	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_18860078	Ca4	18860078	TTATATATATATATATATATAT/TTA TATATATATATATATATATATATAT AT	GAGAAACTCCGCTCTT GTGG	GAACCCCGTCCAAC ACTA	60.0	700	INTERGENIC	--	--	--
Ca4_P2_18977694	Ca4	18977694	GAAAA/GAAAAA	TCGTGTCTCAAAATTC AGGAG	AGACGCTAGTTCGGCT TGAC	59.6	883	DRR	Ca_13997	A	--
Ca4_P2_18993059	Ca4	18993059	GTTTTTTT/GTTTTTT	CGTTAAGATGCGTTG CAGA	TCGCAACTTTTGTGGT TTTT	59.7	302	INTERGENIC	--	--	--
Ca4_P2_19009000	Ca4	19009000	TAAAAAA/TAAAAAAA	ATGGTATGCGAATTGC GAG	TGGGTTTAGTGGGACC TCTG	60.0	564	INTERGENIC	--	--	--
Ca4_P2_1904018	Ca4	1904018	AATATATATATATATA/AATATATAT ATATA	ACCCACTGAAACCCATT TGA	GGAGAAAGGGGTAAC GAAG	59.9	665	INTERGENIC	--	--	--
Ca4_P2_19045820	Ca4	19045820	A/AT	GGGCTTGCTTGGTTTG AATA	TCAACTGCACGTGTTA AATGC	59.8	825	INTERGENIC	--	--	--
Ca4_P2_19046060	Ca4	19046060	CAAAAAA/CAAAAAAA	TGAAATGAGATTAGAA CCACCAA	TCTTCACCTGCATCGA AATG	59.8	677	INTERGENIC	--	--	--
Ca4_P2_1906081	Ca4	1906081	GAAAAA/GAAAAAA	GTCATTGCTCGACACCT CCT	GGCAAACATCCATGTG ACAA	60.4	587	INTERGENIC	--	--	--
Ca4_P2_19106756	Ca4	19106756	CTATATATATATATATA/CTATATAT ATATATATATA	TTTTAAAGCGTCCCAT CAG	GCACTGTAAAGCCCT CCTT	58.5	367	INTERGENIC	--	--	--
Ca4_P2_19198535	Ca4	19198535	CTTTTTTTTT/CTTTTTTTTTTTTT	AGAGCGGGTGAGAAA TTGT	CGTGCTATTCGGCAAT CATA	59.7	707	INTRON	Ca_14019	O	--
Ca4_P2_19294536	Ca4	19294536	TTATATATATATATATATATATAT/TT TATATATATATATATATATATATAT ATAT	GCATACTCTGTCCTTT GTCC	GGCTGCCATCACTTCA TCTC	60.8	586	INTERGENIC	--	--	--
Ca4_P2_19322386	Ca4	19322386	AATATATATATATATATATA/AATAT ATATATATATATATATATATA	AAAAACGGCCTTAAAC ACA	ATGTTGTCCACATTGG GTGA	59.7	600	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_19387051	Ca4	19387051	CAAA/CAA	GGAGTACTCTGACAAC GTCCAA	ACGGTCTTCCAATCGA GATG	60.1	256	DRR	Ca_14033	O	--
Ca4_P2_19400429	Ca4	19400429	TGG/TG	CAACTGAGGCCGAATA CGTT	GGAGAGGCAGAAGAG GTGTG	60.0	814	INTERGENIC	--	--	--
Ca4_P2_19405152	Ca4	19405152	TAA/TAA	GACTGGACGTAACCCA CGTT	GATTTTGGGATGTGC TCGT	59.9	709	INTERGENIC	--	--	--
Ca4_P2_19412758	Ca4	19412758	TTATATATATATATATATATATATATA/ TTATATATATATATATATATATATATA TATA	TGGCTTTATCTATCGGT GCC	CGACCTGTTGGGTGAT TCTT	60.0	255	INTERGENIC	--	--	--
Ca4_P2_19424767	Ca4	19424767	ATT/AT	TTTATGGTTTGGCCCT GTA	TTGCGTTCAAAGTGT GGT	59.2	705	INTERGENIC	--	--	--
Ca4_P2_1943645	Ca4	1943645	CATATATATATATATATATATAT/CAT ATATATATATATATATATAT	GCACATGGTGTGAAC TGCT	TTGGGAGATGGAAGA AAAA	59.5	662	INTERGENIC	--	--	--
Ca4_P2_19498296	Ca4	19498296	TC/T	TTCATGCGGTCCCTTAA CTT	TTTAAATCCCGTGCAA ACG	60.8	433	INTERGENIC	--	--	--
Ca4_P2_19534272	Ca4	19534272	TAAAAAAAAAAAAAAAA/TAAAAAAAAA AAA	AATTGCACACAGATGGA TTGA	GGGTTTGATTTTCTCC CTCC	59.7	715	INTERGENIC	--	--	--
Ca4_P2_19643688	Ca4	19643688	CTTTTT/CTTTTT	GGTGCAAGTTGTTGAT GCAC	ATGCGATTACATGTT GGC	60.7	255	INTERGENIC	--	--	--
Ca4_P2_19678061	Ca4	19678061	C/CGGCTGGTACAA	ATTTTGGCAACGGCTG ATAC	CCACAATCCTCCGTG TCTT	60.0	492	INTERGENIC	--	--	--
Ca4_P2_19742155	Ca4	19742155	AATATATATATATATATATATATATA/ ATATATATATATATATATATATATA TATATATA	GGATGTTGATGTTTGGT CCC	TTAATACAGGCTGTGC CCCT	59.6	701	INTERGENIC	--	--	--
Ca4_P2_1975483	Ca4	1975483	C/CACCACAACACTCT	TGTGTTTGGTTCTACGG TGA	CGGCACCGGAATCTTA GTTA	60.1	796	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_19757541	Ca4	19757541	GAAAAAAAAA/GAAAAAAAAA	TATGAGGAAAATGGG CCAG	AACCTATTGCGAACGT CGTC	60.1	163	DRR	Ca_14064	U	GATA
Ca4_P2_19780699	Ca4	19780699	CTTGTAATTTGTAATTTGT/CTTGTAATT TGTAATTTGTAATTTGT	AGCAAACCAACAACCA CAA	TTTGTGACCACCACCTT CAA	60.0	484	INTERGENIC	--	--	--
Ca4_P2_19911140	Ca4	19911140	TAAAAAA/TAAAAAA	CCAACAACCAATTGCC TCT	GTTGCACTGGGACGAA AAAT	60.0	632	INTERGENIC	--	--	--
Ca4_P2_20030982	Ca4	20030982	CA/C	ACAACCTCTCATGCTCG CAA	TGAGGAAGAAGCTTCA AGGC	59.7	512	INTERGENIC	--	--	--
Ca4_P2_20035757	Ca4	20035757	AATATATATATATATATATATATATAT ATATAT/AATATATATATATATATATAT ATATATATATATATATATATAT	TCTCAAACGATTCGTCC AAA	CCTCCATTAAAGCCATT CCA	59.9	342	INTERGENIC	--	--	--
Ca4_P2_20061713	Ca4	20061713	GATATATATA/GATATATATATA	TGAATCCTAGTTGGTGA CTTGG	AACGTTTGATGAAACA ACATGA	59.4	627	INTERGENIC	--	--	--
Ca4_P2_20097233	Ca4	20097233	ATTT/ATTTT	TTGTGAAAACGTTCAAT GCC	CAAACGTCATTATGCA ACC	60.0	580	INTERGENIC	--	--	--
Ca4_P2_20097310	Ca4	20097310	CTA/CTAAATCTTTTATTA	ACGCCTTAGTGCTGG TTTA	AGTCGTTCTTTGGAGG GGTT	60.0	497	INTERGENIC	--	--	--
Ca4_P2_20108947	Ca4	20108947	TTATATATATA/TTATATATA	GGCTAACATATGGACT CGCC	TGGTCATTTTGACCTCC ACA	59.9	572	INTERGENIC	--	--	--
Ca4_P2_20141078	Ca4	20141078	CTAATAATAATAATAATAATAAAT AATAATAATAATAATAATAATAATAA TAA/CTAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA ATAATAATAATAATAATAATAA	TGACGAGTTGCCATGA GAAG	CGATTTTCAAACCCGT GAGT	60.0	790	INTERGENIC	--	--	--
Ca4_P2_20162535	Ca4	20162535	ATTTTTTTTT/ATTTTTTTTTT	TCCACACACAAATTGG AAA	TGCAGCCCAATCTAAA CCTC	60.2	819	DRR	Ca_17138	--	MYB_related
Ca4_P2_20186434	Ca4	20186434	AATA/AA	GAGCTGTCTCGGTCAG GAGT	CAATTCACAGGTAC GCTT	60.0	419	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_20189946	Ca4	20189946	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATT/TTTATTATTATTATTATTAT TTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT	ATTTCGGAGGAAGTAT GCC	TGCAAAAATTGATGGA GATGAG	59.1	503	INTERGENIC	--	--	--
Ca4_P2_20198875	Ca4	20198875	ATTT/AT	AAAATTTCAACCAAA CCCA	CGTTCGCGTCTTTA ATTT	59.3	391	INTERGENIC	--	--	--
Ca4_P2_2022623	Ca4	2022623	AAATAATAATAATAATAATAATA ATAATAA/AAATAATAATAATAA TAATAATAATAA	AACGTGTTTGAGTGC AAAA	TCGAGATGCGATTATG TGGA	60.2	819	INTERGENIC	--	--	--
Ca4_P2_20266418	Ca4	20266418	T/TGC	CTGCAGAATGTTGCA GAATG	ACCATCAAGGACCA ACAA	60.2	508	INTERGENIC	--	--	--
Ca4_P2_2032207	Ca4	2032207	TC/T	TGCTGAGTTCGAGGA AGGT	CACATCTCTGTTGCT CCA	60.0	517	CDS (FRAME SHIFT)	Ca_07822	D	--
Ca4_P2_2032547	Ca4	2032547	CTGTGTGTGT/CTGTGTGT	TGCTGAGTTCGAGGA AGGT	CACATCTCTGTTGCT CCA	60.0	517	INTRON	Ca_07822	D	--
Ca4_P2_20327473	Ca4	20327473	CATATATATATATATATATATAT ATATATATATATATA/CATATATAT TATATATATATATATATATA	TAAGGTCATGAGGGAT TGCC	CACCCCTTTCTTTTA TGC	60.7	521	INTERGENIC	--	--	--
Ca4_P2_2034424	Ca4	2034424	CTTTT/CTTTT	ACCAGATACCGACCA AAAG	TTCTGCATACTTGCTC ACG	60.0	352	INTRON	Ca_07822	D	--
Ca4_P2_20345579	Ca4	20345579	GTTTTTT/GTTTTTTT	TTGGTGAACCTTTGT TCATGT	TGTGGCCCATTTGT CACTT	60.2	640	INTERGENIC	--	--	--
Ca4_P2_2034663	Ca4	2034663	TACA/TACACA	ACCAGATACCGACCA AAAG	AGTTGCAAGTTTGT AGGC	60.3	570	INTRON	Ca_07822	D	--
Ca4_P2_2035160	Ca4	2035160	CAA/CA	TAATGCATGGCCTGAC AAAC	TGGGCAGCTTAGACTG GACT	60.0	692	CDS (FRAME SHIFT)	Ca_07822	D	--
Ca4_P2_2035225	Ca4	2035225	GGTTAA/G	CGCGCCAGAAGTATGT GATA	TGGGCAGCTTAGACTG GACT	60.0	275	INTRON	Ca_07822	D	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_2035282	Ca4	2035282	GTTTTTT/GTTTTTTT	CGCGCCAGAAGTATGT GATA	TGGGCAGCTTAGACTG GACT	60.0	275	INTRON	Ca_07822	D	--
Ca4_P2_2035697	Ca4	2035697	ATTT/AT	AGTCCAGTCTAAGCTG CCCA	TGGAATCATGCCATGC TAGA	60.2	436	DRR	Ca_07823	R	MYB
Ca4_P2_2035798	Ca4	2035798	A/AGTGT	AGTCCAGTCTAAGCTG CCCA	TGGAATCATGCCATGC TAGA	60.2	436	DRR	Ca_07823	R	MYB
Ca4_P2_20425177	Ca4	20425177	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATT/TTTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATT	AATGAAAAACCGTGCA AGC	ATTGGTGAATGGCAAT TGGT	60.1	529	INTERGENIC	--	--	--
Ca4_P2_20452006	Ca4	20452006	ATTTTTTTTT/ATTTTTTTTT	TAGCAATGCTTCTGTGC TGG	CCAGCTGCTGCATATT ACCA	59.9	564	INTERGENIC	--	--	--
Ca4_P2_20464790	Ca4	20464790	AATATATATATATATATATAT/AATATATA TATATATATATATAT	AACGTCTCTATGGCTCT ATGCTTT	TGGATTTGAATAATCG CCA	59.0	707	INTERGENIC	--	--	--
Ca4_P2_20471816	Ca4	20471816	GNNNNNNNNN/GNNN	ATTGGTAGCTGGAAC ACGG	AAAAACCCGGACATGC ATTA	60.2	575	DRR	Ca_17155	O	FAR1
Ca4_P2_20538748	Ca4	20538748	CAAAAAAAAAAAAA/CAAAAAAAAAAA A	GGGCTTATGGACAACA GCAT	CCATTGTCGTTGTGTT TGC	60.0	728	INTERGENIC	--	--	--
Ca4_P2_20545384	Ca4	20545384	CAAAAAAAAAAAAA/CAAAAAAAAAAA	GCAGTCGTTCCATTC GGT	ATATGGCAGGTAGAT CCCA	60.2	681	INTERGENIC	--	--	--
Ca4_P2_20548671	Ca4	20548671	GATATATATATATATATATATA/GA TATATATATATATATATATA	AAGTGGTGTTGGAATG AGCC	CACGGAATAATGCGG AAAT	59.8	236	INTERGENIC	--	--	--
Ca4_P2_20650435	Ca4	20650435	TTATATATATATATATATATAT/TTA TATATATATATATATATAT	CGTGTGAGAAAACCTC GACA	CACCCCTACAAGTCG CATT	60.0	733	INTERGENIC	--	--	--
Ca4_P2_20709240	Ca4	20709240	ATTTTTTT/ATTTTTTTTT	ACTTTGCCCATCAGTTT TGC	TCCGTTGGTGAAAGTT TGAA	59.1	251	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_20714850	Ca4	20714850	AAAAATGATTTTT/AAAAATGATTTTT AACAAAATGATTTTT	CATGTGGAAAGTAGGG GTGAA	ACAACGTCCGTCTGAG GTCT	59.8	930	INTERGENIC	--	--	--
Ca4_P2_20798632	Ca4	20798632	CAAAAAAAAAAAAAAAAA/CAAAAAAAAA AA	ACCTCGACTTAGGAGC CTCG	TTTGTCTGGGAAAAT GCTC	60.1	593	INTERGENIC	--	--	--
Ca4_P2_20798832	Ca4	20798832	TTTTATTATTATTATT/TTTTATTAT TTATT	TAGTGCTTTGCATGCC TCA	TTTGTCTGGGAAAAT GCTC	60.1	316	INTERGENIC	--	--	--
Ca4_P2_20870966	Ca4	20870966	ATTTTTTTT/ATTTTTTTT	ACTCATTGTGTGGCTT TCG	GTGGATGAAGGGGTA GGTT	60.1	776	DRR	Ca_19043	--	--
Ca4_P2_20904738	Ca4	20904738	TG/T	AGCGCCTGCTGTTCT AATA	GGAGAGAGATTGGCA GTGG	60.0	530	INTRON	Ca_19045	E	--
Ca4_P2_20912258	Ca4	20912258	CAA/CAAA	AGTGGGACAGCATTGG CTTA	ACTACACATTGCGAGC GCAC	59.9	611	INTERGENIC	--	--	--
Ca4_P2_20919644	Ca4	20919644	ATTTTTTTTT/ATTTTTTTTTT	TCAGAAATTGTCATT GTCCA	TTGTTGAAATCGGTTA TTTGA	59.5	719	INTERGENIC	--	--	--
Ca4_P2_21028015	Ca4	21028015	TAAAAA/TAAAAAA	TCCATGAGACCCAAC TCC	AGATTGGAACCAAGTG GTGG	59.8	499	INTERGENIC	--	--	--
Ca4_P2_21028273	Ca4	21028273	AATATATATATATATATAT/AAATATA TATATATATAT	CCACCATTGGTTCCAA TCT	AGGCCATCTAGCTAAG CACAA	59.1	380	INTERGENIC	--	--	--
Ca4_P2_21060178	Ca4	21060178	GC/G	GGATGATAACTCCTTC AAGCG	TGCTCATTTAATTGAC TGGGA	59.6	711	INTERGENIC	--	--	--
Ca4_P2_21071879	Ca4	21071879	T/TA	AATTGAGTGATCGAGT GGC	ATGACGCGTGTCCAAT TACA	60.0	837	INTERGENIC	--	--	--
Ca4_P2_21082826	Ca4	21082826	AAATAATAATAATAATAATA/AAAT AATAATAATAATAATA	GTGCGTGCTTTGGGAT TTTA	CGAACTGAAGAACGAT TAGGTG	58.9	332	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_21134198	Ca4	21134198	AATATATATATATATATA/AATATATAT ATATATATA	GCCATTCTCACTTGTC CAT	TCACTCCCAATCTCGA ACA	59.2	871	INTERGENIC	--	--	--
Ca4_P2_21134274	Ca4	21134274	TTATATATATATATATATAT/TTATATA TATATATATATAT	ACAAGTCGCCTTTTGA ATG	TCACTCCCAATCTCGA ACA	59.2	521	INTERGENIC	--	--	--
Ca4_P2_21181744	Ca4	21181744	A/ATGG	GAGGGAGATGATCGTG GAAA	GCTTCTTGAAAAAGC GTTG	60.0	294	INTERGENIC	--	--	--
Ca4_P2_21226048	Ca4	21226048	AAA/AAAAAGGAACCAA	CACGGCTCTACGAAGG AAAG	TGAACACCCCCAAGGT TAAG	59.8	287	INTERGENIC	--	--	--
Ca4_P2_2123443	Ca4	2123443	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	TATTTGTCGGGGCAGT TTTC	TAAACCAAGTGGCACA CCAA	60.0	695	INTERGENIC	--	--	--
Ca4_P2_21271302	Ca4	21271302	AATATATATATATATATATATATATAT ATATATATATATAT/AATATATATATATAT ATATATATATATATATATATAT	AAGAAAGGAAGAATGAA AGGGG	ATTAAATTGGGCCTTTT GCC	60.1	563	INTERGENIC	--	--	--
Ca4_P2_21317275	Ca4	21317275	CCAAAATCAAAATCAAAATCAAAATCAA AATCAAA/CCAAAATCAAAATCAAAATCAA AAATCAAA	AATCGCGAAAGTAGTC CCCT	TGCTGTGCTTTTGAG GATG	60.0	689	DRR	Ca_19065	R	C2H2
Ca4_P2_21376315	Ca4	21376315	CATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTA/CATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTA	CCCCCTCTAAACCAAC GTAA	CATTGGACTTGTGGCT TGTG	60.2	575	INTERGENIC	--	--	--
Ca4_P2_2139392	Ca4	2139392	TCCCCC/TCCCCC	TATCTGGAACGACGAC ATGC	TCGTTCCGCAATAAG AGGT	59.7	558	INTERGENIC	--	--	--
Ca4_P2_21426612	Ca4	21426612	ATTTT/ATTTT	TGCAGATAAATGGCCAA ACA	AGAACGGTTGCCAGAG AAGA	60.0	370	INTERGENIC	--	--	--
Ca4_P2_21426745	Ca4	21426745	CTCA/C	TGTGCAGATAAATGGC CAAA	CCACGAGGTTTGTGTT TCCT	60.0	620	INTERGENIC	--	--	--
Ca4_P2_2145836	Ca4	2145836	GAAAAAAAAA/GAAAAAAAAA	TAGGTGGCACCACCAT GATA	TATGCACCAGGACAAC CTCA	60.1	669	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_21731786	Ca4	21731786	TAAA/TAAAA	CTCCTTCACAAATTGC GGT	GGGGATTGTTGGAAAT GATG	60.0	171	INTERGENIC	--	--	--
Ca4_P2_21767863	Ca4	21767863	ATATTATTATTATTATTATTATT ATTAT/ATATTATTATTATTATTATTA TTAT	AATCACCCGAAACGAG ATTG	TCGTTTTTCACATAAGC GTTTT	58.9	632	INTERGENIC	--	--	--
Ca4_P2_21779923	Ca4	21779923	TATAATAATAATAATAATAATAA TAATAATAATAATAAAAAATAATA ATAATTATTATAATAACAATAAAT AATAATAATAATAATAATAATAA TAATAATAATAACAATAATAATAA ATAATAATAATAATAATAATAA	ACAATGCACCCTCCAAT TTC	TGTTTCTTGCCTCTGTT TTGAA	59.9	754	INTERGENIC	--	--	--
Ca4_P2_21804779	Ca4	21804779	CTGT/CTGTTATGT	CCGCATCATAAACAGC CTTT	CTAAAGCTGGTGCTTTT GGC	60.0	159	INTERGENIC	--	--	--
Ca4_P2_21840503	Ca4	21840503	CTTTTTTTT/CTTTTTTTTT	TCCTTTTTACCGCATG TTC	AATTGGCACTGGTTTAT GGG	59.7	415	INTERGENIC	--	--	--
Ca4_P2_21896851	Ca4	21896851	ATTTTTTTTTTTTTTT/ATTTTTTTTTT TT	CCGGAAATTTCAAAAC GAA	GTTGCTGCTGCTGATC ATGT	60.0	424	INTERGENIC	--	--	--
Ca4_P2_21910161	Ca4	21910161	ATTTTTTTTTTT/ATTTTTTTTTT	TGCCCGTAGTTGTACC ATGA	CGATGCAACGTGGAT TATG	60.0	383	INTERGENIC	--	--	--
Ca4_P2_22035290	Ca4	22035290	ATTTTTTTTTTT/ATTTTTTTTTT	TCGCGATTACGCTAAA TAGG	TTTGGTTCTACCTTGT CGG	60.0	800	INTRON	Ca_20139	--	--
Ca4_P2_22052600	Ca4	22052600	AATTATTATTATTATTATA/AATTATTAT TATTATTA	GGATGCGACCTGCTAC TGAT	GGATGCGACCTCCTAC TACG	59.7	801	INTERGENIC	--	--	--
Ca4_P2_22097668	Ca4	22097668	ATTTTTTTTTTT/ATTTTTTTTTT	TGAAGCACCTTTGATGA GGA	GACGTGATAACATGAA GGATGC	59.5	850	INTERGENIC	--	--	--
Ca4_P2_22134995	Ca4	22134995	CATAT/CAT	GCACCTATGGTGGCAA AAAC	TTTGATGCCACATTGA AGA	60.0	506	DRR	Ca_20134	J	--
Ca4_P2_22181064	Ca4	22181064	C/CTACTTG	GGTTGAACTGTTTTCG GGT	CGAACAACACGACACA CACA	60.3	426	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_22233819	Ca4	22233819	TTATATATATATATATATATATAT/TTA TATATATATATATATATATAT	GTGAAATTGAGGCATG AGCA	CGAAGCTCCCTACTTC GTTG	60.0	843	INTERGENIC	--	--	--
Ca4_P2_22234165	Ca4	22234165	CG/C	AATTGCCCCGACACTC TTA	TTGCTGGAAATGAAG AAAGC	59.5	209	INTERGENIC	--	--	--
Ca4_P2_22237363	Ca4	22237363	TAG/T	CCCTCTTGATTGGCAT GAT	AATAACAGCATGGCG GAAG	60.1	568	DRR	Ca_20127	--	ERF
Ca4_P2_22309344	Ca4	22309344	ATTTTTTTTT/ATTTTTTTTTT	TGCTTTGTTCAATTGCT TGC	AGTGCCAAGTAAGTT GCTGA	59.9	566	INTERGENIC	--	--	--
Ca4_P2_22324512	Ca4	22324512	TAAAAAAAAA/TAAAAAAAAA	CGCTGATTCATCCTTT CGT	TTGAATCCTTTCTGG GTGG	60.1	937	INTERGENIC	--	--	--
Ca4_P2_22327394	Ca4	22327394	TG/T	ACCTCTAGGAACGATG GCCT	GCGTGAAATTCGGGT AGAA	60.1	807	INTERGENIC	--	--	--
Ca4_P2_22334594	Ca4	22334594	ATTTTTTTTT/ATTTTTTTTTT	CAACATCCCTTGAACCA ACC	GGGGATTGCCAATTCA CTATT	60.0	291	INTERGENIC	--	--	--
Ca4_P2_22344704	Ca4	22344704	AATATATATATATATATATATATAT/ AATATATATATATATATATATATAT ATATAT	AAGGGATCAAAATCGC ACAA	TGTCATGTGAAATGCG ACAA	59.7	461	INTERGENIC	--	--	--
Ca4_P2_22361520	Ca4	22361520	ATTTTTTTTT/ATTTTTTTTTT	GAGTGCCTGGGATATG CTTT	GAGTTGGAACCTCGGA TGGA	60.1	676	DRR	Ca_20123	R	WRKY
Ca4_P2_22381273	Ca4	22381273	AATATATATATATATA/AATATATATAT ATATATATA	CAGTGGCGAAATCTGC ATTA	TGGACGTAGGTTGTTG TGGA	60.0	702	INTERGENIC	--	--	--
Ca4_P2_22412136	Ca4	22412136	TGGG/TGG	TAGGGGTTGAGTTGT CAGG	GTTATTCATAGCCTCC GCCA	60.1	197	INTERGENIC	--	--	--
Ca4_P2_22441886	Ca4	22441886	CTA/CTATA	TCCAATGGTGGAATA AACG	TCAATCACAAATTTCAA GGAGG	59.1	848	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_22664879	Ca4	22664879	AA/AAGA	TCGCGTTCGATTGTG ATA	GGTCATTCTTATTGATT GACCCA	60.1	570	INTERGENIC	--	--	--
Ca4_P2_22665150	Ca4	22665150	ATTTTTTTTT/ATTTTTTTTT	TCGCGTTCGATTGTG ATA	GGTCATTCTTATTGATT GACCCA	60.1	570	INTERGENIC	--	--	--
Ca4_P2_22665456	Ca4	22665456	GTTTT/GTTTT	TTCCTTCAAATCCATAC AAAAACA	TCAAACATTGGCATAC AACAA	59.0	300	INTERGENIC	--	--	--
Ca4_P2_22666443	Ca4	22666443	ATTCTACTTT/ATTT	CATCCAGTGGTTCGCA GTTA	GTGTACAAACCCATGT TGCG	59.9	632	INTERGENIC	--	--	--
Ca4_P2_22667821	Ca4	22667821	GGA/G	GTGAAGCTAGCAAGCC GAAG	TGAATGAAAGGACGGG AAAC	59.9	656	INTERGENIC	--	--	--
Ca4_P2_22668695	Ca4	22668695	TGG/TG	GTTTCCCGTCTTTCAT TCA	CAGTGACAAAAGGCCA ATCA	59.7	712	INTERGENIC	--	--	--
Ca4_P2_22674188	Ca4	22674188	CAAAAAAAAA/CAAAAAAAAA	AATGCATGTTGCACCAC AGT	GCTGAAAAGGAAGGGA AAGG	60.2	292	INTERGENIC	--	--	--
Ca4_P2_22674455	Ca4	22674455	AATATATATATATATATATA/AATAT ATATATATATATATA	AATGCATGTTGCACCAC AGT	ATGGACCGCTCAAAGA GAGA	60.0	805	INTERGENIC	--	--	--
Ca4_P2_22675513	Ca4	22675513	C/CCG	ATCAAATTGGATCCACG GAA	ATGGCAATTAGGGTGT GCTC	60.0	400	INTERGENIC	--	--	--
Ca4_P2_22675724	Ca4	22675724	TTT/TTTCTT	CACAGAAAACGAAACG CGA	ATGGCAATTAGGGTGT GCTC	60.0	325	INTERGENIC	--	--	--
Ca4_P2_22677817	Ca4	22677817	AC/ACC	TCTCCCCCTTTTGTATG ATG	TCCTAAGGCTGAACCC TCAA	59.8	546	INTERGENIC	--	--	--
Ca4_P2_22679339	Ca4	22679339	TAAAAAA/TAAAAA	GTGGGAAGGTTGAGGA TTGA	ACATCCCCAACTCAAG AACG	60.0	405	DRR	Ca_14477	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_22699364	Ca4	22699364	A/AAAG	GCAGAATGGGTCCTTG ATGT	GCTCGATAGAACCGAG TTGC	60.0	342	INTERGENIC	--	--	--
Ca4_P2_22701237	Ca4	22701237	GACAACA/GACAACAACA	ACCGCAATGAAATCAG GAAG	GTCTGCATTTTCTTGG CACA	59.8	726	INTERGENIC	--	--	--
Ca4_P2_22702092	Ca4	22702092	AAAT/A	GTCATTTGAAACGTGG GCTT	TATAAGCCCTCTGAAC CCCC	60.3	434	INTERGENIC	--	--	--
Ca4_P2_22702413	Ca4	22702413	CTTGAAA/CTTGAAATTTTTTGAAA	GTCATTTGAAACGTGG GCTT	CATGTTGGAGGGGCTA AAAA	59.9	717	INTERGENIC	--	--	--
Ca4_P2_22702639	Ca4	22702639	ATTTTTTT/ATTTTTTTT	GGCTTAAGAGAGGGGG TTCA	TGCATTACGCTCAAAG AAGC	60.0	728	INTERGENIC	--	--	--
Ca4_P2_22703169	Ca4	22703169	ATTTTTTT/ATTTTTTTT	GTGCAACAAGGAGCA ACAA	GCCTCCAATCCATGTC TGAT	59.9	322	INTERGENIC	--	--	--
Ca4_P2_22703292	Ca4	22703292	AT/ATGT	GTGCAACAAGGAGCA ACAA	AATATCGGACCAAGAC GACG	60.0	717	INTERGENIC	--	--	--
Ca4_P2_22704154	Ca4	22704154	CT/CTTT	CGTCGTCTTGGTCCGA TATT	TTTGTGCTATTGACGA TTTGAA	59.7	498	INTERGENIC	--	--	--
Ca4_P2_22718798	Ca4	22718798	ATTTTTTTT/ATTTTTTTT	TCAATAGAAGGTCGCAT CCC	TGCCAAAACAAATGAC GTGT	60.0	412	INTERGENIC	--	--	--
Ca4_P2_22719677	Ca4	22719677	TATAA/TA	TTTTGGCACGTCTTCTC AACT	CATCGACGATTGTACC AAAAA	58.5	548	INTERGENIC	--	--	--
Ca4_P2_22720347	Ca4	22720347	GAAAAAAAA/GAAAAAAAAA	ATGCCAAAACAAATGAC TGTT	TGTTTGTTTTGATTGC GAA	60.1	587	INTERGENIC	--	--	--
Ca4_P2_22723629	Ca4	22723629	CTTTTT/CTTTT	TCTAACCCGGCAACAT CAA	AGGCCACGAAAGTGAA GAGA	60.0	527	DRR	Ca_14476	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_22723833	Ca4	22723833	TGGGGG/TGGGGGG	TCTAACACCGGCAACAT CAA	AGGCCACGAAAGTGAA GAGA	60.0	527	DRR	Ca_14476	--	--
Ca4_P2_22727877	Ca4	22727877	TAAA/TAA	TTGGTTCCTTTATTAAC TAATTTTGG	GGGACAAACGTTTTTG CTATG	59.5	809	INTERGENIC	--	--	--
Ca4_P2_22735575	Ca4	22735575	AAAA/AAAATAAA	TTGAAGTTGTCGATCCC CTC	CATATTCAACGCAACAA CGC	60.1	553	DRR	Ca_14475	T	FAR1
Ca4_P2_22746108	Ca4	22746108	ACC/ACCC	GGAAGAAGCATGTGGG TTGT	TTGGCCTTGAGACCAG CTAT	59.8	721	INTERGENIC	--	--	--
Ca4_P2_22754464	Ca4	22754464	GTTT/GTTTT	TGAATTTTGGTCGATGT GAAA	ATGTTGCGGAAATTGA AAGG	59.9	705	INTERGENIC	--	--	--
Ca4_P2_22754706	Ca4	22754706	TCCC/TCC	CTTGATTCGGGTAACCA TCG	ATGTTGCGGAAATTGA AAGG	59.9	205	INTERGENIC	--	--	--
Ca4_P2_22755158	Ca4	22755158	ATTTTTTT/ATTTTTTTT	CTATGTGCGTCGTCAG GAAA	CCAAAAACGGTTTCAC CAGT	59.9	595	INTERGENIC	--	--	--
Ca4_P2_22765430	Ca4	22765430	ATT/ATTT	TGTTTCGTAATCAATGC CCA	TAGGCCCAAACCAAT CAAG	59.9	603	INTERGENIC	--	--	--
Ca4_P2_22765623	Ca4	22765623	CTT/CTTT	TGGGGACCTCCCAAT ATAC	TATGGCCGATGCTACA ACAA	60.1	219	INTERGENIC	--	--	--
Ca4_P2_22765775	Ca4	22765775	CATTAATT/CATT	TGTTGTAGCATCGGCC ATAA	GGTGTAGCCTTTGCTT GGAG	59.9	518	INTERGENIC	--	--	--
Ca4_P2_22766072	Ca4	22766072	AATATA/AATATATATA	TAATTACTTCCGCGGA TGC	GGTGTAGCCTTTGCTT GGAG	59.9	424	INTERGENIC	--	--	--
Ca4_P2_22766863	Ca4	22766863	T/TGG	GCATAATCAAAGCATT GGC	ATCGATTCTCAGTTGG ACCG	60.1	756	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_22767329	Ca4	22767329	AACAC/AAC	CCAACTGAGAATCGAT GGGT	TCTCCTTTCAAATCC TCAA	60.0	274	INTERGENIC	--	--	--
Ca4_P2_22780960	Ca4	22780960	TAAAAAAAA/TAAAAAAAAA	TCTATTTTGATGATGT TGC GTT	TGAGCTCTTAATCCCTT CATTTT	58.9	565	INTERGENIC	--	--	--
Ca4_P2_22783139	Ca4	22783139	AATATATA/AATATATATA	TCCAATTCATCAATGCC AAA	CCGTTTTATCTTGTTC TG TAGG	57.1	270	INTERGENIC	--	--	--
Ca4_P2_22789395	Ca4	22789395	GCCCC/GCCCCC	ACACCATTCCATGCTTC ACA	GTGGGGGTGTCTAAT GTGG	60.1	463	INTERGENIC	--	--	--
Ca4_P2_22791089	Ca4	22791089	CAAAAAAAAA/CAAAAAAAAA	AAATGCGCAAATGCATA CAA	GTGACTTTAGAGCCGC CATC	59.8	691	INTERGENIC	--	--	--
Ca4_P2_22791236	Ca4	22791236	TTTAAT/TTTAATTAAT	AAATGCGCAAATGCATA CAA	GTGACTTTAGAGCCGC CATC	59.8	691	INTERGENIC	--	--	--
Ca4_P2_22791929	Ca4	22791929	ATTTTTTTTT/ATTTTTTTT	CTCATTTTCATTCACCG GCT	CATGACAAATCCATCC CTTC	59.2	276	INTRON	Ca_14472	--	--
Ca4_P2_22792612	Ca4	22792612	ATTT/ATT	CCTTGAGTGAGTTTGAC AGGAA	AAACCATAAAGCCCA AACC	60.1	577	DRR	Ca_14472	--	--
Ca4_P2_22793825	Ca4	22793825	GTTTTTTTTT/GTTTTTTTTT	AGGAGGCAAGACGAAA ACAG	TGAAGTTCTGCCACTC GTCA	60.6	572	DRR	Ca_14472	--	--
Ca4_P2_22793993	Ca4	22793993	ATTT/ATT	CGAGTGGCAGAACTTC AAAA	GAATTATGCCGAAGT ACGA	58.8	318	DRR	Ca_14472	--	--
Ca4_P2_22798315	Ca4	22798315	CATAA/C	GCTTTATGAGCCCCATT TCA	CAGGGGAAATTTTGT GGTG	60.2	562	INTERGENIC	--	--	--
Ca4_P2_22799511	Ca4	22799511	AAATAA/AAA	CCAACACCAAGACA GTGG	TCACACAAATCACAC CGA	59.5	213	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_22799910	Ca4	22799910	AAAA/AAAAAATTAAA	TCGGTGTGATTGTGT GTGA	GTGCAATCATGCAATC AAGG	60.1	672	INTERGENIC	--	--	--
Ca4_P2_22800253	Ca4	22800253	CTAAACTCAAT/C	CCTTGATTCATGATTG CAC	CCTAAATTTTAAAGGC TAAATGG	59.7	165	INTERGENIC	--	--	--
Ca4_P2_22808161	Ca4	22808161	A/AC	CATGGTTTTCGCTTACC GTT	TTGGGTGATGTGGCAA AATA	59.8	559	DRR	Ca_14470	H	--
Ca4_P2_22808307	Ca4	22808307	ATT/AT	CATGGTTTTCGCTTACC GTT	TTGGGTGATGTGGCAA AATA	59.8	559	DRR	Ca_14471	Q	Nin-like
Ca4_P2_22808419	Ca4	22808419	TG/T	CATGGTTTTCGCTTACC GTT	TTGGGTGATGTGGCAA AATA	59.8	559	DRR	Ca_14471	Q	Nin-like
Ca4_P2_22809160	Ca4	22809160	AAAA/AAAAATAAATAA	GCCGTTAAATTCAGTG GGA	TTGGAGACAGTTGCTT CCCT	59.8	651	DRR	Ca_14471	Q	Nin-like
Ca4_P2_22815726	Ca4	22815726	ATTTTTTTT/ATTTTTTT	GGAAGGAGTCCCTTTA ACCC	CAACTCATTGGGAGC CATT	59.9	840	INTERGENIC	--	--	--
Ca4_P2_22816244	Ca4	22816244	AGGGG/AGG	TCCCAATGAGTTGGT GGAT	CAATTCCAATCAAAGC AAAC	57.3	358	INTERGENIC	--	--	--
Ca4_P2_22818481	Ca4	22818481	AT/ATCT	CAATTGCATGTTGAAAT GGTG	TGGCCATATTGTTTTG CAT	58.9	821	INTERGENIC	--	--	--
Ca4_P2_22821558	Ca4	22821558	ACTAGCTAGC/ACTAGC	CCTGGGTGAAGTCTTC TGCT	GAAGTGGCGGTGTTTT TCAT	60.0	569	INTERGENIC	--	--	--
Ca4_P2_22824416	Ca4	22824416	CCGT/CCGTACGT	TCTATCCCGGTGTGTA AGC	TGCACTCTAATGGGAT TATTTTGA	59.9	147	INTERGENIC	--	--	--
Ca4_P2_22825034	Ca4	22825034	T/TTA	TCCTCTAAACATTGTG TGTGTC	TCACTCTCTACTATGG AAGCCAA	59.5	609	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_22825336	Ca4	22825336	TTT/TTTGT	TGGCTTCATAGTAAGA GAGTGAA	AAATAACGTGTACGCG GGAT	59.2	546	INTERGENIC	--	--	--
Ca4_P2_22827669	Ca4	22827669	GAAAAA/GAAAAA	CATGCAGAAAATGCGA AAGA	AAGGGGAATAACCCAA CACC	59.9	881	INTRON	Ca_14469	--	EIL
Ca4_P2_22836441	Ca4	22836441	TAAAAAAA/TAAAAAAA	ATCTCCCAATCACCAC CTT	TCACCATACTCCCGA CACA	60.0	901	INTERGENIC	--	--	--
Ca4_P2_22837601	Ca4	22837601	CAAAA/CAAAA	TTGAAATGGCAAAGAG GGTC	ATGCATGGGTGAAAT ACCC	59.5	556	DRR	Ca_14468	--	--
Ca4_P2_22837725	Ca4	22837725	AAATAATA/AAATAA	TTGAAATGGCAAAGAG GGTC	ATGCATGGGTGAAAT ACCC	59.5	556	DRR	Ca_14468	--	--
Ca4_P2_22848263	Ca4	22848263	GTTTTTTTT/GTTTTTTTT	TTGTCAAGCCTGATAAG CCA	TCCAATGGGAAGGATA GTGG	59.7	219	INTERGENIC	--	--	--
Ca4_P2_22848996	Ca4	22848996	TAAAAAA/TAAAAAA	TTCATTATCTGTTCCCT CCCA	ACGACTGGCTAAGGTG CTGT	59.9	546	INTERGENIC	--	--	--
Ca4_P2_22850231	Ca4	22850231	GAA/GAAAATAA	TACGCCCAATTTACGTC ACA	GGCTCTGTTGTAGTAG CGGC	60.0	402	INTERGENIC	--	--	--
Ca4_P2_22851617	Ca4	22851617	CTAATA/CTAATAA	GCGGTTGGAGTTGCAT TAGT	TGCAGATCATGCCAAA TTGT	60.1	325	DRR	Ca_14467	--	--
Ca4_P2_22853847	Ca4	22853847	ATTTTTTTTT/ATTTTTTTTT	TCAAAACACATTGGAGG CAC	AAGCGTAAATGGCAGA TGTGT	59.7	344	INTERGENIC	--	--	--
Ca4_P2_22854209	Ca4	22854209	T/TC	CACATCTGCCATTTACG CTT	AAAATGGCACAAGGCA AACT	59.6	534	INTERGENIC	--	--	--
Ca4_P2_22854290	Ca4	22854290	GAAAAAAA/GAAAAAAA	CACATCTGCCATTTACG CTT	AAAATGGCACAAGGCA AACT	59.6	534	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_22856126	Ca4	22856126	GTTTATTT/GTTT	CCTGTCAACTCCAAGAA TCTCC	AAAGCCATATTTTAACC CAAAAA	58.2	666	INTERGENIC	--	--	--
Ca4_P2_22864646	Ca4	22864646	TAGAGAGA/TAGAGA	TGAGACTGCAATTTGG CTTG	ACGACGATGTTCAATC CACA	60.0	914	DRR	Ca_14466	S	--
Ca4_P2_22867224	Ca4	22867224	TTATTC/TTATTCATCATTC	TCACCACTGACCAACC CTTT	CACCACCACCACAAAA CACT	59.3	485	INTERGENIC	--	--	--
Ca4_P2_22867292	Ca4	22867292	TAAAAAAAA/TAAAAAAAAA	TCACCACTGACCAACC CTTT	CACCACCACCACAAAA CACT	59.3	485	INTERGENIC	--	--	--
Ca4_P2_22867454	Ca4	22867454	GAAAAAAAA/GAAAAAAAAA	GATCTTCATCCCCTGCA GAC	CACCACCACCACAAAA CACT	59.3	292	INTERGENIC	--	--	--
Ca4_P2_22867805	Ca4	22867805	ATTTTTTTTTTT/ATTTTTTTTTTT	GATCTTCATCCCCTGCA GAC	TTCCAAAAAGATAGTTT CACCTCA	59.2	555	INTERGENIC	--	--	--
Ca4_P2_22870716	Ca4	22870716	A/AC	GGAATCGGTGAAACCC AAAA	AGGTAACGCGATTTTAT GCG	60.1	786	INTERGENIC	--	--	--
Ca4_P2_22877567	Ca4	22877567	A/ATT	GCAATCTTGCTCCTGC GTAT	TTGCGACAACCTGGTG ATTC	59.7	582	INTERGENIC	--	--	--
Ca4_P2_22879215	Ca4	22879215	A/AAT	TCATCTGCGTTTTCTG CAC	ACCAATCCGAAGACGA TCAC	59.9	828	INTERGENIC	--	--	--
Ca4_P2_22884702	Ca4	22884702	CAAAA/CAAA	TTTGGTACCCAATTTTC CCA	GGTGAAAGCGTTTGAT GGAT	59.9	564	INTERGENIC	--	--	--
Ca4_P2_22889518	Ca4	22889518	ATTTTTTT/ATTTTTTTTTTT	TGGAGACTGTGGGTCT ACTGG	TCCACCCCAAAATTTTA TCA	60.0	901	INTERGENIC	--	--	--
Ca4_P2_22889580	Ca4	22889580	AC/A	GGGTCAGGATACTTAC AACCCA	TCCACCCCAAAATTTTA TCA	60.0	717	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_2289620	Ca4	22889620	TATAAAATAAAATAAA/TATAAAAT AAAAATAAAATAAAA	GGGTCAGGATACTTAC AACCCA	TCCACCCCAAAATTTA TCA	60.0	717	INTERGENIC	--	--	--
Ca4_P2_22890323	Ca4	22890323	GG/GGAGTCCATTATG	TGATAAAATTTGGGGT GGA	AGGTAGGAGCAAATC GCAA	59.8	622	INTERGENIC	--	--	--
Ca4_P2_22890995	Ca4	22890995	AGCAAGATTTT/AGCAAGATTTTATTTT GGCAAGATTTT	TTGCGATTTTGCTCCTA CCT	AGGCGCAACTTGCATT TACT	59.9	526	INTERGENIC	--	--	--
Ca4_P2_22892881	Ca4	22892881	TAAAAAAA/TAAAAAAA	CACGTGAGTTGATTTAA AAGTGA	TATGTTTGGGTGTGGG ACCT	60.1	186	INTERGENIC	--	--	--
Ca4_P2_22896917	Ca4	22896917	GTTTTTTTTT/GTTTTTTTTT	CGATGCGCATGATAGA AAGA	AACGGAACCCCACTTA AAGG	60.2	590	INTERGENIC	--	--	--
Ca4_P2_22897920	Ca4	22897920	ATTTTTTTT/ATTTTTTTTT	GGTTGGCTTGATCT CCAT	TGCTTGCTGTGAA CCTG	59.9	463	INTERGENIC	--	--	--
Ca4_P2_22898104	Ca4	22898104	ATTTTTTT/ATTTTTTTT	GGTTGGCTTGATCT CCAT	CCCTTTAAGTGGGTT CCAT	60.0	797	INTERGENIC	--	--	--
Ca4_P2_22898673	Ca4	22898673	CAAAA/CAA	AACCCCACTTAAAGG CAAC	AGGGTGAAGAAAGCTCA CACAA	59.9	684	INTERGENIC	--	--	--
Ca4_P2_22901962	Ca4	22901962	CAAAA/CAAA	AGGGACTCAGTTTCTG CGA	CAGACAAGCCTCTCGA TTCC	60.0	593	INTERGENIC	--	--	--
Ca4_P2_22902727	Ca4	22902727	ATT/ATT	CACTATGCAAAATGGC TCA	TCTCTTATGTGGGTG CCTC	60.1	186	INTERGENIC	--	--	--
Ca4_P2_22914105	Ca4	22914105	GTTTTTTTT/GTTTTTTTTT	AAAACCTTTTGCTTCC GTT	TCCTACAAAACTTCA TTCACAA	59.9	458	INTERGENIC	--	--	--
Ca4_P2_22914458	Ca4	22914458	CTTT/CT	ATTGCGCTTGCATCATC TTT	CCAAAGTTTCAACTCG AGACA	59.4	671	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_22915979	Ca4	22915979	GTTTT/GCGTTTTT	GGTGAAGGCTTACGA AACA	ACTCGGTGGATGGAAG ACAC	60.0	333	INTERGENIC	--	--	--
Ca4_P2_22920453	Ca4	22920453	TTA/T	GTGCCCCAAGAGGTAC TCAA	ATAACTGGGTGAGTT GCGG	60.0	429	INTERGENIC	--	--	--
Ca4_P2_22921547	Ca4	22921547	TAA/TAAAAATAAAAAA	TCGTCCGAACACAATCA CAT	TGATCTCTGCTTCTAC GTGT	59.9	311	INTERGENIC	--	--	--
Ca4_P2_22933272	Ca4	22933272	CAAATAAAAAATAAAAAAT/CAAATAAA AAT	CTATAGTGACCGCACT CCGC	TTCCAAAATTCAGGAAT CGC	60.0	774	INTRON	Ca_14461	--	--
Ca4_P2_22933918	Ca4	22933918	CTGAACAATT/CTGAACAATTGCGGTGA ACAATT	AGAAACCCAAAAGGG AAGA	TTTGAACCCAAGCTTCA ACC	60.1	750	INTRON	Ca_14461	--	--
Ca4_P2_22934181	Ca4	22934181	GCACACACA/GCACACA	AAGGGAATAGGGTCG AAGA	TTTGAACCCAAGCTTCA ACC	60.1	321	INTRON	Ca_14461	--	--
Ca4_P2_22943635	Ca4	22943635	GTT/GTTT	TGCATTAATTGAAGGG GAGC	TTTGCTTCAACAATTC CCC	59.9	112	INTRON	Ca_14461	--	--
Ca4_P2_22945533	Ca4	22945533	TAAAAAAA/TAAAAAAA	TGTTTTACCACCAGGA TCA	TTGGCATTITTAGTTGA AGTCG	59.3	758	INTRON	Ca_14461	--	--
Ca4_P2_22947061	Ca4	22947061	TAAAAAAA/TAAAAAAA	AACCACCACGGATCAA GAG	GGAAGGTAACATATGG GCGT	60.2	455	INTRON	Ca_14461	--	--
Ca4_P2_22947175	Ca4	22947175	CAAA/CAAA	AACCACCACGGATCAA GAG	TTAATGGGGGATTGT TGGA	60.0	966	INTRON	Ca_14461	--	--
Ca4_P2_22947623	Ca4	22947623	TTGTTCCAACCTGTTCCAACCC/TTGT TCCAACCC	ACGCCCCATAGTTACCT TCC	TTAATGGGGGATTGT TGGA	60.0	531	INTRON	Ca_14461	--	--
Ca4_P2_22947673	Ca4	22947673	TAAAAAAA/TAAAAAAA	TTCCAACAATCCCCAT TTA	AATGCAATAATGGACG GAGC	59.9	412	INTRON	Ca_14461	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_22969338	Ca4	22969338	CAG/C	GCATGTATGGTGTCTC GCAC	CATCCGCCATTTCTTA CCT	59.8	269	INTERGENIC	--	--	--
Ca4_P2_22970209	Ca4	22970209	ATTAAGACTTAAGA/ATTAAGA	TTCAAGTGGGATGGGA CACT	TACGCACCTGGTCCAA CATA	60.0	852	INTRON	Ca_14460	--	--
Ca4_P2_22973209	Ca4	22973209	TAAAAAAAA/TAAAAAAAAA	ATTTTATTGGCATCGG ATT	TGCGAATGTGCTTTCT GTCT	59.6	672	DRR	Ca_14460	--	--
Ca4_P2_22974338	Ca4	22974338	A/AAT	ATTTTGGGCGAAATCCT TTT	GAACCACTCATCCTCC CAAA	59.9	442	DRR	Ca_14460	--	--
Ca4_P2_22974622	Ca4	22974622	TGG/TGGG	ATTTTGGGCGAAATCCT TTT	GAACCACTCATCCTCC CAAA	59.9	442	INTERGENIC	--	--	--
Ca4_P2_22981343	Ca4	22981343	ATTTTTTTT/ATTTTTTT	TCCGCCGTTCTAAATC TTG	CAAGCCCTCTCCCTCT CTTC	60.5	874	INTERGENIC	--	--	--
Ca4_P2_22984796	Ca4	22984796	GTTTA/GTTTAAACTTTA	CAAATTCCTTTTAGTGC CACA	TGCTTATGTGTTCCATT TGCTC	60.1	802	INTERGENIC	--	--	--
Ca4_P2_22986372	Ca4	22986372	A/AT	GCCCATCTAAGCAACG AGAA	TTTACACATCAAACGCA TTAGAGA	58.9	468	INTERGENIC	--	--	--
Ca4_P2_22988646	Ca4	22988646	ATTTTTTT/ATTTTTTTT	ATGTGACACCCTAAACC CCA	TCGAAACTCACCTCCTT CGT	59.8	373	INTERGENIC	--	--	--
Ca4_P2_23002548	Ca4	23002548	ATTATTTTATTTTATT/ATTATTT ATTTATTTTATTTTATT	TCGATCGCTGATGTCAA ACT	TGGGCTTGACCTATGT GTGT	59.0	147	INTERGENIC	--	--	--
Ca4_P2_23002623	Ca4	23002623	TTTACTATTACTATT/TTTACTATTACTAT TACTATT	TTTATGGCGGCTGTTT TAC	ACGATGCATTTGATTGA TGTT	58.0	546	INTERGENIC	--	--	--
Ca4_P2_23013499	Ca4	23013499	CTA/CTATA	TCGGTTGGTACACACC AATT	AATTGGAGATAGCATC CCCTC	59.4	506	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_23018840	Ca4	23018840	AA/AATTA	CAAAATAAATCAAATGA TTGAAGTGA	GGCCTGACGACACAGC TAAT	60.3	651	INTERGENIC	--	--	--
Ca4_P2_23019641	Ca4	23019641	G/GT	CCAATTGGCCCTCATT GAC	GGAACCGTTGTTTCTT GGTC	59.4	445	INTERGENIC	--	--	--
Ca4_P2_23020256	Ca4	23020256	TTAT/TT	TCATGACCAAGAAACAA CGG	TCACATATCAAATGTTG GCACA	59.9	354	INTERGENIC	--	--	--
Ca4_P2_23027358	Ca4	23027358	GTTTTT/GTTTTTT	CCATTGGGAATTAGGC ATTG	ACAAACTGTGGGTGG GTTT	59.2	696	INTERGENIC	--	--	--
Ca4_P2_23027383	Ca4	23027383	TTTAT/TTTATTAT	CCATTGGGAATTAGGC ATTG	AAGTTGTGGATCGAT TCGT	59.4	868	INTERGENIC	--	--	--
Ca4_P2_23027444	Ca4	23027444	T/TC	CCATTGGGAATTAGGC ATTG	AAGTTGTGGATCGAT TCGT	59.4	868	INTERGENIC	--	--	--
Ca4_P2_23031555	Ca4	23031555	CGTGTG/CGTGT	AAACATTGAGACCATGT ATCGG	CAACTCGATCACCATC ATGC	60.1	163	INTERGENIC	--	--	--
Ca4_P2_23037799	Ca4	23037799	AC/ACC	TCGACAAAAGCAAAGCA ATG	GCGTTCTTGGTTTTC AGTC	59.7	349	INTERGENIC	--	--	--
Ca4_P2_23049316	Ca4	23049316	GAAAAAA/GAAAAAA	AGTGTGGGCTGCTTCA AAGT	TATTTTGAACGATCGG GAGG	59.9	327	INTERGENIC	--	--	--
Ca4_P2_23055622	Ca4	23055622	TAAGAA/TAAGAAAGAA	TGAATTAAGGATTGCA TGAACA	CCGTTGAATGAAAAT CACC	60.2	530	DRR	Ca_14459	--	--
Ca4_P2_23056577	Ca4	23056577	TAAAAA/TAAAAA	ATGAATAGCATGCCAC GACA	TCATGTGGGCTCATTT GGTA	59.9	771	INTERGENIC	--	--	--
Ca4_P2_23057259	Ca4	23057259	TAA/TA	TACCAATGAGCCACACA TGA	GTGTGATCCAAATCG TCCC	60.2	883	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_23058698	Ca4	23058698	ATTTT/ATTTT	CGGATATGAGTTTATG GACGA	CTCCCTTTTGAACAC ACA	59.7	434	INTERGENIC	--	--	--
Ca4_P2_23060077	Ca4	23060077	GAAAAAAAAA/GAAAAAAAAA	TGCATTTGGCAATTGA AGA	TCAACGCATGTGACTG CATA	59.9	254	INTERGENIC	--	--	--
Ca4_P2_23060568	Ca4	23060568	ATTTTTTTTT/ATTTTTTTTT	ATGGGCATTATGCAGT CACA	TTTGCCAATTATCATG TTTGC	59.8	766	INTERGENIC	--	--	--
Ca4_P2_23064176	Ca4	23064176	CAAGTAAG/CAAG	CTTTGAAAATTGGATGG CGT	CAGGTGCCAGAACTCCT GTTT	60.1	562	DRR	Ca_14458	R	--
Ca4_P2_23067690	Ca4	23067690	GTTTTTTTTT/GTTTTTTTTT	CGGAATAACTGACCG CAAT	GGAATCGAAAGTCGTG GAAA	60.1	373	INTERGENIC	--	--	--
Ca4_P2_23077402	Ca4	23077402	TAAAAAAAA/TAAAAAAAA	ACCAAAGAATCCATCG GTTG	TGAATTCATGTGTATTG TCGGA	58.9	842	INTERGENIC	--	--	--
Ca4_P2_23077444	Ca4	23077444	GTTTTTT/GTTTTTT	ACCAAAGAATCCATCG GTTG	TGAATTCATGTGTATTG TCGGA	58.9	842	INTERGENIC	--	--	--
Ca4_P2_23077586	Ca4	23077586	ATTTTTT/ATTTTTT	AAGAAAAGGTTGCGT TTGA	TGAATTCATGTGTATTG TCGGA	58.9	644	INTERGENIC	--	--	--
Ca4_P2_23077647	Ca4	23077647	ATT/AT	AAGAAAAGGTTGCGT TTGA	TGAATTCATGTGTATTG TCGGA	58.9	644	INTERGENIC	--	--	--
Ca4_P2_23078030	Ca4	23078030	GAAAAA/GAAAAA	TTTGAAGAACCAGAGTT TGAAGAA	TTCAATGCCCATAATCG TGA	59.9	656	INTERGENIC	--	--	--
Ca4_P2_23078167	Ca4	23078167	TC/T	TTTGAAGAACCAGAGTT TGAAGAA	TTCAATGCCCATAATCG TGA	59.9	656	INTERGENIC	--	--	--
Ca4_P2_23078243	Ca4	23078243	TAAA/TAAA	AAAAATCCGACAATAC ACATGAA	GAATGCGTACACCTTG ACGA	59.7	897	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_23078933	Ca4	23078933	AA/AAATGA	CCTGTTTTGGTTCAAGC CAT	ATGTTAAGGGACCGCA AATG	59.8	446	INTERGENIC	--	--	--
Ca4_P2_23078978	Ca4	23078978	AAGT/A	CCTGTTTTGGTTCAAGC CAT	ATGTTAAGGGACCGCA AATG	59.8	446	INTERGENIC	--	--	--
Ca4_P2_23079340	Ca4	23079340	CAAA/CAAAA	AATTGCAAGTGACTG GACC	CCGAGCCAAAATCCAA AATA	59.9	787	INTERGENIC	--	--	--
Ca4_P2_23098064	Ca4	23098064	AGT/A	GGCGGTCGAGAGTTTA TGTG	TGAGTGCCAACAAGCT GAAC	60.0	495	DRR	Ca_14457	R	MYB
Ca4_P2_23101001	Ca4	23101001	GAT/GATCAAT	GGTAGCTAAAACCACTT TTGCACT	CACCCACTAGGGGATG GATA	59.6	283	INTERGENIC	--	--	--
Ca4_P2_23104007	Ca4	23104007	AT/A	GAGGTAAAAGTGAGGG GTGGA	GCCGTTTAGTCGAAGT TTGG	59.7	383	INTERGENIC	--	--	--
Ca4_P2_23105473	Ca4	23105473	TGG/TG	ATGGGAGTTGAAGCAT TTGG	TTGTGCTTCACTTCTGA CCG	60.0	693	INTRON	Ca_14456	--	--
Ca4_P2_23108687	Ca4	23108687	C/CT	GTGGGTGGAATGGAAA TACG	GCATCGGGAGATACGT AGGA	60.1	659	DRR	Ca_14456	--	--
Ca4_P2_23111205	Ca4	23111205	ATTTTTTTT/ATTTTTTT	GCCGCCTTTTTAGGTTT TTC	CTCCGAATTACGAGGG ATCA	60.0	184	INTERGENIC	--	--	--
Ca4_P2_23121191	Ca4	23121191	GTATA/GTA	TAGTTGGATGTTGGGG AACC	AAAGTCTCCCAACAGA GCGA	60.0	898	INTERGENIC	--	--	--
Ca4_P2_23130145	Ca4	23130145	ATTTTTT/A	TGATGGAAGAAGTGGA GCAA	GGCCATTCTCCTCGTG TAAA	60.1	718	INTERGENIC	--	--	--
Ca4_P2_23130325	Ca4	23130325	TGGCCCTCG/TG	TGATGGAAGAAGTGGA GCAA	GGCCATTCTCCTCGTG TAAA	60.1	718	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_23134474	Ca4	23134474	ATTGTTGTTGT/ATTGTTGT	ATGCTGCGAAATTGTG AAA	AAAAGCGTTGTAATTG GATTGA	59.9	342	INTERGENIC	--	--	--
Ca4_P2_23135482	Ca4	23135482	GAAAAA/GAAAAA	ATTGAGCAATGAGAGG TCCG	GATGATGCATGCCATT TGAG	60.0	752	INTERGENIC	--	--	--
Ca4_P2_23135678	Ca4	23135678	CGG/CG	GGGATGAACACAGAAG GGTG	GATGATGCATGCCATT TGAG	60.0	504	INTERGENIC	--	--	--
Ca4_P2_23136851	Ca4	23136851	TAAAAAAAAA/TAAAAA	CCACCATTGCACTTCG TTT	ACCACCTTATTGTGG CTGC	60.0	727	INTERGENIC	--	--	--
Ca4_P2_23192116	Ca4	23192116	CTA/CTATA	TTCGAACAAATGATTC CCA	TAAACCAATGCCACACA TGG	60.2	640	INTERGENIC	--	--	--
Ca4_P2_23207027	Ca4	23207027	ATTGTTGTTGTTGTTGTTGTTGTTG TTGTTGTTGT/ATTGTTGTTGTTGTTG TGTGTTGTTGTT	TCCTATTGATTGCAT GCCT	GGTTCACCTTCGTCGT TCAT	60.0	569	INTERGENIC	--	--	--
Ca4_P2_23217567	Ca4	23217567	AATATATATATATATATAT/AATATATATA TATATATATATATAT	CTCTAGGGAAGCGACC TCCT	CCAACAACCATTTGG GAGT	60.7	633	INTERGENIC	--	--	--
Ca4_P2_23243883	Ca4	23243883	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATATAT ATATATATATATAT	GTTGCGAGTGCCAATTT TTC	ATGCATGTTGGGAAG AAAG	59.9	675	INTERGENIC	--	--	--
Ca4_P2_23312749	Ca4	23312749	AGACACACA/AGACACACACGACACAC A	TATGTGTCTTGTGGCG GTGT	GGTATTCGACCCTTTG ACCA	59.8	604	INTERGENIC	--	--	--
Ca4_P2_23313149	Ca4	23313149	CAAAAAAAAA/CAAAAAAAAA	AATCCTTGATGTTTGG CAG	TCACCAAGGGTTTGG TTGT	60.2	600	INTERGENIC	--	--	--
Ca4_P2_23352912	Ca4	23352912	G/GT	AAGAAGGGAAGGCA AAGC	TTTGCCATCATTGCTTT TGA	60.2	450	INTERGENIC	--	--	--
Ca4_P2_23421612	Ca4	23421612	TT/TTGT	GATGCCAGATGGGTAT GCTT	CGTTGCAATTGATGAG GATG	60.1	703	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_23474599	Ca4	23474599	ATTTTT/ATTTTTT	GCATTATTGATCCGCA GTT	GATGAGATGAGATTTC AGAGAGCA	60.0	599	DRR	Ca_14438	--	CPP
Ca4_P2_23494359	Ca4	23494359	AATATATATATATATATATATA/AATAT ATATATATATATA	CTCAAGGAACGCTT CACC	ATTGCGAGTCAGATTC CAGC	60.4	664	INTERGENIC	--	--	--
Ca4_P2_23500297	Ca4	23500297	AG/A	GAACCCCAAGCAAGAA TCAA	TGCACAAAAGCACTTCT GAAA	59.6	379	INTERGENIC	--	--	--
Ca4_P2_23525491	Ca4	23525491	GTTTTTTTTT/GTTTTTTTTT	TGAGATTATATGCACGC GGA	TGAATCGCGAAAGTAG TCCC	60.2	574	INTERGENIC	--	--	--
Ca4_P2_23575550	Ca4	23575550	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CATTGGTAAAAGTGAAA AATCCG	AACCGAAACAAATCGC ACAT	60.4	363	INTERGENIC	--	--	--
Ca4_P2_23583040	Ca4	23583040	TTATATATATATATATATATAT/TTATA TATATATATATATATATAT	AAGGAAGTGGTTGTTG ACGG	TTATGGGCGCAGTTTA GCAG	60.2	688	INTERGENIC	--	--	--
Ca4_P2_23721198	Ca4	23721198	AAACA/AAACAAACA	ATTTGTGTGCTTTGCC TGA	TGGCAATCGACTGAC TAAA	59.3	353	INTERGENIC	--	--	--
Ca4_P2_23756363	Ca4	23756363	TTATATATATATATATA/TTATATATAT ATATATATATA	TTGGAACGTAATTTGAT GCG	CCC GTTCTTCTGTAT GCTT	60.3	872	INTERGENIC	--	--	--
Ca4_P2_2379618	Ca4	2379618	CATATATATATATATATATATATATATAT ATATATAT	CGTTGCGTGGTTAAAA GTGA	CCATTGCGGTTCTTTTC ATT	59.9	604	DRR	Ca_07859	--	MYB
Ca4_P2_23828072	Ca4	23828072	TG/TCGG	TGTTGAAAACGGTCCG TACA	CTTCATCCGAGAGGC AGAG	60.1	744	INTERGENIC	--	--	--
Ca4_P2_23881120	Ca4	23881120	GATATATATATATATATATATATATATAT ATAT/GATATATATATATATATATATATAT ATATATATATATATAT	AAAAGTCGCATCCTG AAGA	ATTCTCAAACCCACCA TGA	60.2	801	INTERGENIC	--	--	--
Ca4_P2_2390421	Ca4	2390421	ATTTTT/ATTTTTT	GCACTTTGGTCCCTT ATT	TATTCCACGTATGCGT CTGC	59.7	168	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_23914195	Ca4	23914195	TAAA/TAA	ATCTTCGACCTCTACGT GGC	TCCTCCCCATTCTAGC CTTT	60.0	549	INTERGENIC	--	--	--
Ca4_P2_23957142	Ca4	23957142	GAAAAAAAA/GAAAAAAAA	TTTATAGTCGGTCGTTG GGC	ACCGACCCGCAAATAA GTAA	59.5	390	INTERGENIC	--	--	--
Ca4_P2_23960230	Ca4	23960230	AAATAATAATAATAATAATAAT/AA TAATAATAATAATAATAATAAT	GTCTGTGATTGGTGC AACG	AGGCCAATGAGGCAAG AGTA	59.8	617	INTERGENIC	--	--	--
Ca4_P2_23984716	Ca4	23984716	ATTT/ATTTACTAGTTT	GCATCAACCTTAGCTAC CCG	AAAACCTGGCCAAACC ATTG	59.8	605	INTERGENIC	--	--	--
Ca4_P2_24003800	Ca4	24003800	CATATATATATATATATATA/CATATATA TATATATATA	AGGTCATTTTCGAGTC CGA	TTTGCAATGCATTGGT GAT	59.9	502	INTERGENIC	--	--	--
Ca4_P2_24100684	Ca4	24100684	AATATATATATATATATATATA/AAT ATATATATATATATATATATATA TATA	AATGGTCCAAGGAAAA GGG	ATCCCAATTGGAACC TACC	59.9	753	INTERGENIC	--	--	--
Ca4_P2_24115337	Ca4	24115337	ATATATC/ATCTATATC	CACACGTGCATGGATA GAGG	TTCACCGTGGATGAAT TTGA	59.9	341	INTERGENIC	--	--	--
Ca4_P2_24140540	Ca4	24140540	ATTATT/ATATTTATT	TTATTTACCGTCGTGT CCA	TTGTGTGTGGCCGAT TTTA	60.0	234	INTERGENIC	--	--	--
Ca4_P2_24140557	Ca4	24140557	CATTATTATTATTATTATTA/CATTAT TATTATTATTATTATTA	TTATTTACCGTCGTGT CCA	TTGTGTGTGGCCGAT TTTA	60.0	234	INTERGENIC	--	--	--
Ca4_P2_24147447	Ca4	24147447	TAA/TAAAAA	GGAAACGACTTACAC CCGA	TCCCTTTGTCTTCTTG TGG	60.1	813	INTERGENIC	--	--	--
Ca4_P2_24148613	Ca4	24148613	CATTATTATTATTATTATTA/CATTATTAT TATTATTATTATTA	TTTCATCTTTGTTGCTG CAC	TTCGGGAGTCGATTAC GAGT	59.7	597	INTERGENIC	--	--	--
Ca4_P2_24174892	Ca4	24174892	GAAAAAAAA/GAAAAAAAA	ACAAGCGCAGTGGAAA AAGT	TATCCTCAACTCGGTCT GGG	60.1	524	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_24228039	Ca4	24228039	AATATTGATATATTG/AATATTGATATAT TGATATATTG	TGATCCTCCCATCCTAC CAA	TTGCGTCTTCTGTTTGA TGC	60.0	560	INTERGENIC	--	--	--
Ca4_P2_24273906	Ca4	24273906	TTATATATATATATATATATATATATA/ TTATATATATATATATATATATATA	GGGGGAGTTGTTATTC GGTT	GAAAAGTGTGTCGTG TGTC	59.3	646	INTERGENIC	--	--	--
Ca4_P2_24346747	Ca4	24346747	GCATATAACATATAAC/GCATATAAC	TGGTTTGTTCATTGGG CTT	GAAGCTTTGAAAACG GGTG	59.7	818	INTERGENIC	--	--	--
Ca4_P2_24355412	Ca4	24355412	AATATATATATAT/AATATATATATAT	TGCCATTTCAAATTTG TGG	AGGCACACCTGTAGC CAAC	60.2	376	INTERGENIC	--	--	--
Ca4_P2_24359275	Ca4	24359275	TAAAAAAA/TAAAAAAA	GGGAGGGTGGGAGTAA ATGT	TGTGGCTTTCCAATGTA CGA	60.1	571	INTERGENIC	--	--	--
Ca4_P2_24362931	Ca4	24362931	TAA/TA	GGTTTAGATGGGGAT CGTT	CCCCGAGTTGGTCCTT TATT	60.2	947	INTERGENIC	--	--	--
Ca4_P2_24368839	Ca4	24368839	TAAAAAAA/TAAAAA	TTTTCCGACTTGGTCC TTT	GGACTTTGGTTCTCTT GGCA	60.2	381	INTERGENIC	--	--	--
Ca4_P2_24378768	Ca4	24378768	GTTTTTTTTTT/GTTTTTTTTTTT	AGTCAATGTTGGCGAT CCTC	TCCACCATCTGATCTG GACA	60.0	627	INTERGENIC	--	--	--
Ca4_P2_24427573	Ca4	24427573	GTT/GTTT	CTGGAAAATCCTCCTCC TCC	TTCTGTCTCAACAATCTC CCC	60.1	346	INTERGENIC	--	--	--
Ca4_P2_24442934	Ca4	24442934	GCA/GCATTCA	TCGCCTTCAAAGAAAC CAC	GGCATGAAATCCATCA CCTT	59.8	568	DRR	Ca_20866	R	NAC
Ca4_P2_24445284	Ca4	24445284	GC/GCC	CTCGCCAAATCCATACA CCT	CACAGCACCAGGTTAT CCCT	60.0	383	INTERGENIC	--	--	--
Ca4_P2_2445413	Ca4	2445413	AATATATATATATATA/AATATATATAT ATATATATATA	GGAGGTCACAACCACT CCAA	ATTTGTGACGTTCCCTT CAA	60.4	504	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_24455402	Ca4	24455402	TTATATATATATATAT/TTATATATATATATATAT	AGCACCAAGCCACCA TTAC	AGCCTCTTTTGGGAC CACT	60.1	236	INTERGENIC	--	--	--
Ca4_P2_2445623	Ca4	2445623	AATATATATATATATATATATATATATATATATATATATA/AATATATATATATATATATATATATATATATA	GGAGGTCACAACCACT CCAA	CGGACTTTCGACTTTCT TGC	60.0	654	INTERGENIC	--	--	--
Ca4_P2_24478956	Ca4	24478956	CAA/CAAA	CGGTTCTACACAAGTTG CGA	TCGATTATGCGTAGGG AAGG	60.1	746	INTERGENIC	--	--	--
Ca4_P2_24479035	Ca4	24479035	ATTTTTT/ATTTTTTTTTT	CGGTTCTACACAAGTTG CGA	TCGATTATGCGTAGGG AAGG	60.1	746	INTERGENIC	--	--	--
Ca4_P2_24488859	Ca4	24488859	TAAA/TAAAA	TTGGAACCTCATGCAAA TGA	CGATACTACCCCTCG TTGT	60.0	557	INTERGENIC	--	--	--
Ca4_P2_24498031	Ca4	24498031	AT/ATT	TAGGCCGCGACAATTT ATCT	GAAGGAGGAAAAAGGC CAAC	60.1	798	INTERGENIC	--	--	--
Ca4_P2_24510502	Ca4	24510502	CTGGAACATTGGAACATTG/CTGGAACA TTG	CTGCAAAAGCCCTCAC AAAT	TCCTCTTGACACCAC AAGA	60.4	969	INTERGENIC	--	--	--
Ca4_P2_24540030	Ca4	24540030	TAAAAAAAA/TAAAAAAAA	CCGGTCAAATATTAAAC GTCAA	TTCATGGTGAAAGCATT GGA	60.0	308	INTERGENIC	--	--	--
Ca4_P2_24549935	Ca4	24549935	TAG/TAGAG	CGCATAAAGTGATCCC CAAT	TGATCGTTCAATTTCCA CTCA	59.1	563	DRR	Ca_20863	--	--
Ca4_P2_24553735	Ca4	24553735	GATTAT/GAT	TGGTGCGATTGTGGA AATA	GAGTAGATGTGCCAAC AGCG	59.5	361	INTERGENIC	--	--	--
Ca4_P2_24587937	Ca4	24587937	TNNNNNNNNNN/TNNNNNN	CTCTCATTCTCGTGCA TCG	AATGGAGAGGAGGGGA GAAA	60.0	290	DRR	Ca_20858	R	ERF
Ca4_P2_24647459	Ca4	24647459	CAAAAAAAAA/CAAAAAAAAA	TTGAAATGATGGATGG TTGAA	CTTGTTTTGGGAGGC ATTA	59.9	810	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_25011140	Ca4	25011140	GAAAAA/GAAAA	GGCTGAAATGGGAA TGAA	AGGTTTGATTTGTG CTGG	60.0	778	INTERGENIC	--	--	--
Ca4_P2_25036917	Ca4	25036917	T/TA	ATCCAAGTTGAGCAAG CATT	CATTGAGACTTTGCCA CGAA	59.8	605	INTERGENIC	--	--	--
Ca4_P2_25046968	Ca4	25046968	TGCTGAGCTGA/TGCTGA	ATGTTTCGTGCAATG CAA	AAGGTCAAGGGCCAAA AACT	60.0	601	INTERGENIC	--	--	--
Ca4_P2_25049378	Ca4	25049378	TAAAAAAAA/TAAAAAAAAA	GGACACTACCTTAACAT TTGAAAGC	CATTGAGACTTTGCCA CGAA	59.8	476	INTERGENIC	--	--	--
Ca4_P2_25053449	Ca4	25053449	ACTCT/ACT	ACGCATCCGTTGAATC TCC	TGGGGAATCATAAGCC TCAG	60.0	256	INTERGENIC	--	--	--
Ca4_P2_25053641	Ca4	25053641	TAAAAAAAA/TAAAAAAAAA	CTGAGGCTTATGATTCC CCA	CGATAAGGGTGTCGAG GAAA	60.1	154	INTERGENIC	--	--	--
Ca4_P2_25062584	Ca4	25062584	TAAAAAAAA/TAAAAAAAAA	AATCGACTCCCGAATC AAA	ACGTTCTTCGTTTCCCT GAA	59.7	524	INTERGENIC	--	--	--
Ca4_P2_25064267	Ca4	25064267	AATATATATATATATA/AATATATATAT ATATATATA	AATCCATCCCCTCTCA ACC	ACCGTTTTGGTGTCTT TGC	60.0	561	INTERGENIC	--	--	--
Ca4_P2_25070539	Ca4	25070539	TTTTATTATTATTATTATTATT/TT TTTATTATTATTATTATT	TTTGCAAAACCAATGA ATACTT	GTTTTGAGCCCATCA CGAT	59.9	596	INTERGENIC	--	--	--
Ca4_P2_25071336	Ca4	25071336	CA/C	TGAGACTGCTTGGCTA CCCT	ATCTGAATCATCCCAAG CCA	60.4	488	INTERGENIC	--	--	--
Ca4_P2_25097629	Ca4	25097629	CAAAAA/CAAAAAA	TCAATGATGGTGACTG GGA	TACCAATTGGTCTTG GGTC	59.6	820	INTERGENIC	--	--	--
Ca4_P2_25098043	Ca4	25098043	CAAA/CAAAA	ACCCCAAGAACGTTATG CAA	GTTTGGCATTCTGACTT CGC	60.8	525	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_25106094	Ca4	25106094	TAAAAA/TAAAAA	GTTGTCATGCAGAA GCAA	GAGGGGAGTGGAGAT GATGA	60.0	590	DRR	Ca_16560	--	--
Ca4_P2_25139153	Ca4	25139153	TCC/TC	TTGTGTTGCAATAGTGC TTGC	TGCTCCACATAAAGCG AAGA	59.6	642	INTERGENIC	--	--	--
Ca4_P2_25142345	Ca4	25142345	TTATATATATATATATATATATATA TA/TTATATATATATATATATA	AGCTGCTGCTACTGTT GGATT	CCCTTTGAACGCAGA AAAC	59.7	439	INTERGENIC	--	--	--
Ca4_P2_25144894	Ca4	25144894	GTATATTTATATTTATATTTATTTATA TTTATATTTATAT/GTATATTTATATTTAT ATTTATATTTATAT	GAACCAACACGGGCA TAAT	TCTTCGTTGCATCATGT GAAA	59.3	346	INTERGENIC	--	--	--
Ca4_P2_25145575	Ca4	25145575	TAAAAAAA/TAAAAAAA	TCACATGATCGAACGAA GACA	CCCATGTGCATGAGAC TTTG	60.1	845	INTERGENIC	--	--	--
Ca4_P2_25150451	Ca4	25150451	TAAATTTTAAATTTTAAATT/TAAATTT TAAATT	TAAATGCACATGCAAAA GCG	TCGCCAAAAACAATCAA TCA	60.1	370	INTERGENIC	--	--	--
Ca4_P2_25156464	Ca4	25156464	TTA/TTAAGTA	CGATGAATGACATGTGT TGG	GACGTGCTTAACAACT ACTTTGC	58.2	477	INTERGENIC	--	--	--
Ca4_P2_25164375	Ca4	25164375	A/AAT	AAATGAAGAAGGGTCG GTCC	TGCCACCATTATTGG GATT	60.0	444	INTERGENIC	--	--	--
Ca4_P2_25177814	Ca4	25177814	CAGAGAGA/CAGAGA	TCCTTGATCGGTTAAGT CGG	TAAAGGACCAAGTCGG GAAA	59.5	373	INTERGENIC	--	--	--
Ca4_P2_25178138	Ca4	25178138	GAAAAAAA/GAAAAAAA	TTTCCCGACTTGGTCT TTA	TGACTAACGCATTGCC AAAA	60.3	619	INTERGENIC	--	--	--
Ca4_P2_25180205	Ca4	25180205	GAAAAAAA/GAAAAAAA	AATCCTAAGCACACGA GGG	ATGACAACAATCATTCC GGA	58.8	592	DRR	Ca_16562	--	--
Ca4_P2_25182596	Ca4	25182596	TATATATATA/TATATATATAAATAT ATATATA	TGGTAACCTGCATTCA CCA	CTTTTGGTCCCCGACA TAGA	59.9	252	INTRON	Ca_16562	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_25186812	Ca4	25186812	TAAAAAAAA/TAAAAAAAA	CCACAGGGTTAAGTTT CGA	GCCAACTCTCCTCC TACC	60.1	657	INTRON	Ca_16562	--	--
Ca4_P2_25191410	Ca4	25191410	GTTTTTTTTT/GTTTTTTTTT	CCTGACCATTTAGCATC AATCA	CGGAATTTGGCATTAA GGA	59.9	567	INTERGENIC	--	--	--
Ca4_P2_25193095	Ca4	25193095	GAAAAAAAA/GAAAAAAAA	CATCACCCACCATTGAC AAG	CATCCACGAAACACTC ATGG	60.0	587	INTERGENIC	--	--	--
Ca4_P2_25205443	Ca4	25205443	TAGATTTGGCACAAAGATTGG/TAGA TTTG	GATGGAGGATCAGCCA CATT	ATGGTGAATGCCTCA AAG	59.9	648	INTERGENIC	--	--	--
Ca4_P2_25213751	Ca4	25213751	GAG/GAGATCATAG	TCATTCAACGTCATCGT ATCAA	TGTGTTGTATCAATAT CGAAGGC	60.3	562	INTERGENIC	--	--	--
Ca4_P2_25214544	Ca4	25214544	CAA/CAA	TCTCCATTTGCATAAG CCC	GGTGTGACCTTCCTT TTCA	59.9	347	INTERGENIC	--	--	--
Ca4_P2_25215378	Ca4	25215378	TA/TAA	GTCAATTGAGTTGCGA CGAG	TGGGAGTTTCCAACAT CTACG	60.0	886	INTERGENIC	--	--	--
Ca4_P2_25216110	Ca4	25216110	G/GC	AATTGGCAAGTTATCGC AGC	AAATGGCAGATCCAGA ATTITA	57.8	235	INTERGENIC	--	--	--
Ca4_P2_25220713	Ca4	25220713	C/CT	TGAATTCATACCGATC CAA	TGAATCCAAATTTGTG CGA	60.1	400	DRR	Ca_16564	--	--
Ca4_P2_25228841	Ca4	25228841	AATATATATATAT/AATATATATATAT TAT	ATGATTACCTCGGCATG GAG	AGCACGAGATCAAAGC ACAA	59.6	349	INTRON	Ca_16565	--	--
Ca4_P2_25235418	Ca4	25235418	TAA/TA	TCGATATTTGAGTTTGG TTTGG	TTGCAGCACATGTTTAT CCC	59.5	606	INTERGENIC	--	--	--
Ca4_P2_25241552	Ca4	25241552	GTTTTTTT/GTTTTTTT	CACTGCGTTTGCATATG ACC	AAGGAAGAGGCGAACA TGAA	59.8	434	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_25248594	Ca4	25248594	CTGG/CTGGAAACTCTATGG	TCCTTCAGGCTTAGAG GCA	TGGACGAAGAAATCG AAGG	60.2	346	INTERGENIC	--	--	--
Ca4_P2_25254264	Ca4	25254264	CTAA/CTAATTAA	GTGGCCCTAACTTCCA CTCA	CCAGGGAACAAGATC CGAA	59.9	717	INTRON	Ca_16567	CD	--
Ca4_P2_25259085	Ca4	25259085	TAAA/TAA	AAACACTTTTGCTCCCC ACA	TGGAGGTTGATTGGTC AAGA	59.1	918	INTERGENIC	--	--	--
Ca4_P2_25275223	Ca4	25275223	CAAAAA/CAAAAAA	TCTGCACCAATTGCCAT AAA	TCTTCAAGTGGGTGA ATCC	59.9	577	INTERGENIC	--	--	--
Ca4_P2_25290328	Ca4	25290328	GTTTTTTTT/GTTTTTTT	TCACACCGTGAGATTT CCA	GAGGCTCCAGATCGAA GTTG	60.0	629	INTERGENIC	--	--	--
Ca4_P2_25292705	Ca4	25292705	GTTAATTAA/GTTAA	GGCAGAAATTTGAACG TGGT	GGACAAAAGAAGAGCA AAAAGG	59.4	227	INTERGENIC	--	--	--
Ca4_P2_25300340	Ca4	25300340	AGATATATTCT/A	TGCACATGCTGGTAGA GACC	ATCAGGATTGGGTGCT CAAG	60.1	786	DRR	Ca_16570	--	Dof
Ca4_P2_25342530	Ca4	25342530	ATTTTTTTTT/ATTTTTTTTT	TCACCACAAACGGACT CAAA	GGATGCATATGTGATG GGTG	59.6	497	DRR	Ca_16572	J	--
Ca4_P2_25346612	Ca4	25346612	GTTTTTTTT/GTTTTTTT	TTGCATTGCTGCTGAT TTC	TTTAAACCCTTTGGTG CAG	60.0	404	INTERGENIC	--	--	--
Ca4_P2_25348226	Ca4	25348226	T/TCTAC	CGTCATTACAAATGCG ACTT	AACATGGGTTAGCATT GCC	59.8	896	INTERGENIC	--	--	--
Ca4_P2_25349410	Ca4	25349410	TA/TAA	TCGTTTGTGTCACACA TCT	TCAAACCAAGAGCA GGAAG	59.5	349	INTERGENIC	--	--	--
Ca4_P2_25352495	Ca4	25352495	GGTT/G	GGAAATGGTCTTTGAA AGCC	AGCCTTACGCATGTATT GCC	60.1	719	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_25352610	Ca4	25352610	T/TA	GGAATGGTCTTTGAA AGCC	AGCCTTACGCATGTATT GCC	60.1	719	INTERGENIC	--	--	--
Ca4_P2_25353098	Ca4	25353098	GA/GAAA	CGTCGCACTAAGACGA TGAA	GGGTAAGGGTACGTTG AGTCC	59.7	415	INTERGENIC	--	--	--
Ca4_P2_25353133	Ca4	25353133	GAAAAAAAA/GAAAAAAAA	CGTCGCACTAAGACGA TGAA	GGGTAAGGGTACGTTG AGTCC	59.7	415	INTERGENIC	--	--	--
Ca4_P2_25357817	Ca4	25357817	ATTTTTTTT/AATTTTTTTT	AAAATTCTGTTTGGGG ACC	ACATGCATGCAATTCAA TAGAG	57.8	677	INTERGENIC	--	--	--
Ca4_P2_25358106	Ca4	25358106	TTAAATAAATAAATAAATAA/TTAA ATAAATAAATAAATAA	GGGACTACTTTCGCGA TTCA	ATTACACGCTTCGAGA CGAA	59.5	842	INTERGENIC	--	--	--
Ca4_P2_25359522	Ca4	25359522	GATATAT/GATATATATAT	CGACAAAGCCTCACGA GTTA	GGAGCCACAAACGATT GACT	60.1	660	INTERGENIC	--	--	--
Ca4_P2_25365917	Ca4	25365917	ATTTT/ATT	AATTTTGTGCCCTCC AAT	TGCTATGGCACAAAGTC TCCA	60.4	547	INTERGENIC	--	--	--
Ca4_P2_25367189	Ca4	25367189	A/AT	TTTATTGTAGGTGGAG GCGG	GGCCAAATTGATGCAA AGTT	59.9	271	INTERGENIC	--	--	--
Ca4_P2_25393862	Ca4	25393862	TATTAATAATT/TATTAATAATAAATT	CAATTGGATTGTGGCTT CCT	CAGGCGTCGAACAATT CATA	59.7	909	INTERGENIC	--	--	--
Ca4_P2_25400137	Ca4	25400137	GAAAAA/GAAAAA	ACTGCATACGAGACA CACG	TTTGCTTCAATTGTTT TCTTTTG	59.7	286	INTERGENIC	--	--	--
Ca4_P2_25401216	Ca4	25401216	TCTGACTG/TCTG	CTTGATGATGAAAAGC AGCA	TATTCCTCGACTGGAA GTTG	59.9	628	INTERGENIC	--	--	--
Ca4_P2_25402747	Ca4	25402747	AAATAAAAT/AAATAAAATAATGAATA AAAAT	TTTGATATGTGGAAGCG CAA	CATTCCAACGTTTGA TGC	59.1	405	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_25434234	Ca4	25434234	CATA/CA	GATTATCCTCCTGCGGT CAA	TCCGCTCCTTACCATC ACTC	60.2	797	DRR	Ca_16576	O	MIKC
Ca4_P2_25439114	Ca4	25439114	TAA/TA	GAGGTGGAGAATGATT GGTCA	TCGAGACTTGGCTCAT GTTG	60.0	674	INTERGENIC	--	--	--
Ca4_P2_25456545	Ca4	25456545	ATTTTTTTTT/ATTTTTTTT	TTTGCTTTCAAACCGA AATC	TCGATGATAAAAATGAT CGAGTG	59.1	723	INTERGENIC	--	--	--
Ca4_P2_25457334	Ca4	25457334	ATTTTTTT/ATTTTTTTT	CATTTTACTCATCGATC TTTGTGG	TGGACAAAATCATGTCT CTTTGA	59.6	336	DRR	Ca_16577	--	--
Ca4_P2_25466972	Ca4	25466972	TAAAAAA/TAAAAAAA	TATAGGGAGCGGAACA CACC	TCTAACTCCAGGTAAC GCCG	60.3	840	INTERGENIC	--	--	--
Ca4_P2_25468010	Ca4	25468010	TTATATATATATATATATAT/TTATA TATATATATATATATATATATATAT	TTCAAATACAAATGTG ATGGAAAA	TTTTTGTTTCTTATTG TTTGACA	57.9	650	INTERGENIC	--	--	--
Ca4_P2_25468253	Ca4	25468253	ATTTTTTT/ATTTTTTTT	CAAAATACAAATGTGAT GGAAAA	TTTTTGTTTCTTATTG TTTGACA	57.9	648	INTERGENIC	--	--	--
Ca4_P2_25470351	Ca4	25470351	CTTTTTTTTT/CTTTTTTTTTT	TGCAATTATCCAAAGAT GTATGAAA	TCCTTTTGTCCGTCGT CTCT	59.8	479	INTERGENIC	--	--	--
Ca4_P2_25478172	Ca4	25478172	TAAAA/TAAAAA	TGTGATGCAGTTGCTC CATT	GACCTTGCTCTCTTGAT GGG	59.8	703	INTERGENIC	--	--	--
Ca4_P2_25492419	Ca4	25492419	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA A	ACTTGCTTCAATTGTGC GTG	GTAGGCACTACCGCAA CCAT	60.0	291	INTERGENIC	--	--	--
Ca4_P2_25494077	Ca4	25494077	TGGGGGG/TGGGGG	ACATGGATTGTTGGTG CAGA	TCTGAAATAACCGCCC TCAC	60.1	647	INTERGENIC	--	--	--
Ca4_P2_25496001	Ca4	25496001	TA/TAGCTCATAGA	CAATGGTTATGCGATTG CTG	TCGTAGCTCAATTGGC AGTG	60.0	215	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_2550001	Ca4	2550001	CTTTTTTT/CTTTTTTTT	GGTGACCGAAAACCAT CTTT	GGAATCGCTGGACAAA CAAT	59.9	705	INTERGENIC	--	--	--
Ca4_P2_25501013	Ca4	25501013	TAAAAAAA/TAAAAAAA	GGGCATTGGTAACTCC AAAA	CCAATTGTGCTCTCCT CTCC	59.8	909	INTERGENIC	--	--	--
Ca4_P2_25501416	Ca4	25501416	CTTT/CTTTT	TTGACACTGTTGGCAC CTAA	GAGTAGATCCGCGAGT CAGC	60.1	950	INTERGENIC	--	--	--
Ca4_P2_25502917	Ca4	25502917	T/TA	CCAGACGCGACACAC TAGA	GTTGCTAGAGTGAGGG GCAG	60.0	694	INTERGENIC	--	--	--
Ca4_P2_25512047	Ca4	25512047	CTTTATT/CTTTATTTTATT	GCCACTGAATTGTCGG AGAT	ACCCCAATGAATGAA AACA	60.0	324	INTRON	Ca_16579	S	--
Ca4_P2_25523236	Ca4	25523236	TAAAA/TAAA	TGTGGTGGTGATCCTT GAAA	GATTCTCGCATCTGCT AGGC	60.1	786	INTERGENIC	--	--	--
Ca4_P2_25527454	Ca4	25527454	TAAAAAAAAAAAAAAAAA AAAAA	TCATGTGTAATTTTAT CTCAAGGAA	GGCTTGATTGATTAC ATCCT	59.0	743	DRR	Ca_16580	--	--
Ca4_P2_25579370	Ca4	25579370	TAAAAAAAAA/TAAAAAAA	AAATCGGCTCCTTTTAA AACATA	TCTTCTCGACGTTTTT GGC	60.4	699	INTERGENIC	--	--	--
Ca4_P2_25580470	Ca4	25580470	GTTTTTTTT/GTTTTTTTTT	TTCTTTCTTTCTTTCT TCCG	GCAATCCATTGGCAA TTCT	59.9	453	INTERGENIC	--	--	--
Ca4_P2_25590282	Ca4	25590282	TAAAAAAA/TAAAAAAA	GCATGGATGCAACCTC CTAT	TGACCCCACTGCAA ATTA	60.0	400	INTERGENIC	--	--	--
Ca4_P2_25596032	Ca4	25596032	TTAT/TTATAT	AGTGATGTGGCAACA ATGA	TGCATTTTACAGCGCTT TTG	60.0	515	INTERGENIC	--	--	--
Ca4_P2_2560005	Ca4	2560005	AAAAAATA/AAA	TGGTGTCACATCTCA CCAA	TTCGTGTTCCGTTGAT GTGT	60.0	675	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_2560053	Ca4	2560053	TAATAATAATAA/TAATAA	TGGTGTCACTCATCTCA CCAA	TTCGTGTCCGTTGAT GTGT	60.0	675	INTERGENIC	--	--	--
Ca4_P2_25605220	Ca4	25605220	GATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATT/GATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATT	GTGGAATCACCATTCC CTG	GTATGTTGGCGCTTT GTTT	60.0	705	INTERGENIC	--	--	--
Ca4_P2_25607880	Ca4	25607880	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATATATA T	TTGGTCAAGAGGTTGT GACG	TGGTACCCACCTTCTT CCAA	60.3	676	INTERGENIC	--	--	--
Ca4_P2_25618351	Ca4	25618351	CTTTTTTTTTTT/CTTTTTTTTTTT	TCACCCACAACACGAA ATAA	TCCAACACACCTTGC ATAA	60.0	457	INTERGENIC	--	--	--
Ca4_P2_25623331	Ca4	25623331	CATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT AT/CATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTAT	CACCGGAACCAAGCTT TTTA	GAGGAGGTTTGTGGA TGGA	59.9	376	INTERGENIC	--	--	--
Ca4_P2_25642263	Ca4	25642263	CAAAAA/CAAAAA	TTTGTGTGGTGTCTCG GGA	TACAACCAACCCCTT GAGC	60.0	318	INTERGENIC	--	--	--
Ca4_P2_25651231	Ca4	25651231	CTTTTTTTTTTT/CTTTTTTTTTTT	CGTTTGTCTGTGAAATG GGA	CAAGCGGTAAGCACTA GGGA	60.4	825	INTRON	Ca_16590	G	--
Ca4_P2_25671775	Ca4	25671775	TTTTCTTTCTTTC/TTTTCTTTCTTTCTTT C	CCAGGATGCTTCCCTG ATAA	AGAGCGCGAACTGTCA AAAT	60.0	809	INTERGENIC	--	--	--
Ca4_P2_25694157	Ca4	25694157	GTTTTTTTTTTTT/GTTTTTTTTTTT	ATTTGCTTCATTTGGG TGC	TTGATCCCTAAGCGAA GTGG	60.2	823	INTERGENIC	--	--	--
Ca4_P2_25694552	Ca4	25694552	CAAAAAAAAA/CAAAAAAAAAA	CCACTTCGCTTAGGGA TCAA	TTTGCCATTTTGCAA TCC	60.8	440	INTERGENIC	--	--	--
Ca4_P2_25699421	Ca4	25699421	GAAAAAAAA/GAAAAAAAAA	ATTGTGGAATCTGGG CTTG	CAAGTTGAGCCTCATG GACA	59.8	531	INTERGENIC	--	--	--
Ca4_P2_25709629	Ca4	25709629	ATTTTTTTT/ATTTTTTTT	CGCATTGCACATATTTA TCG	AAAATTTGATGTGTGC GTCA	57.6	175	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_25711685	Ca4	25711685	ATTTTTTTTT/ATTTTTTTTT	GCGGAAACATGAAT GAGT	CCACTCACCAAGCGAA GAAT	60.3	228	INTERGENIC	--	--	--
Ca4_P2_25715947	Ca4	25715947	ATTTTTTTTTTTTT/ATTTTTTTTTTT	GGTCCCTTCAACTCA CCT	TGAACTGAGTCCGCGT ATGT	59.3	820	DRR	Ca_16593	K	GATA
Ca4_P2_25719010	Ca4	25719010	TA/T	GTCCACTTGTGCCAA GGTT	GTTGCAGAACCTGCTG ATGA	60.0	884	DRR	Ca_16594	--	--
Ca4_P2_25758636	Ca4	25758636	CTTTT/CTTTTTT	TGCACTTCAGTTAAAT GGGC	AGAACTTGCCTGGTGA TTCC	60.1	530	INTERGENIC	--	--	--
Ca4_P2_25761284	Ca4	25761284	ATTTTTTTTT/ATTTTTTTTTTT	TTGTTGTGTGCAAGAG GATTG	GGAGATCATGGACGAA GGTG	60.5	366	INTERGENIC	--	--	--
Ca4_P2_25763103	Ca4	25763103	CTT/CT	ATCCTTGCGGGGATTTA GAG	ATTGCCTCATCCAAAC GAAC	59.9	295	INTERGENIC	--	--	--
Ca4_P2_25768326	Ca4	25768326	TAAAAAA/TAAAAAA	ATGTTTCGTGCAATGGT CAA	CACATGGCTGAACGAG AAGA	60.0	382	INTERGENIC	--	--	--
Ca4_P2_25776089	Ca4	25776089	G/GAC	TGGAATGAGAGGGGAA GATG	TCCGAGACAGGTATTT TGGC	60.1	366	INTERGENIC	--	--	--
Ca4_P2_2577945	Ca4	2577945	GTTTTTTTTT/GTTTTTTTTTTT	CCAAAGTTGAGGCTT TGAA	TCTTCCAGTCCGAAGT GGTC	60.2	813	DRR	Ca_07877	R	bHLH
Ca4_P2_25781212	Ca4	25781212	TAAAAA/TAAAAA	TCAAGTTTTGCAGCCA TTG	CACCTAAGAGGCCCA TCCA	60.1	376	INTERGENIC	--	--	--
Ca4_P2_25783388	Ca4	25783388	CTTTT/CTTTTT	GCGTGATGCATGATC AGGA	TCTTTTGATTCCGAGT GGG	60.0	658	INTERGENIC	--	--	--
Ca4_P2_25790471	Ca4	25790471	CAACGAAACGAAACGAAAC/CAACGA AAC	CCTCAAATCCAATTGT GCC	TCATCCTCACCCCCAG TTAG	59.9	646	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_25799557	Ca4	25799557	GAAA/GAAA	TCAAATTCGCATTTCAA CATATAAA	AACACCTTCTCGTCA CACC	60.0	657	INTERGENIC	--	--	--
Ca4_P2_25812288	Ca4	25812288	CT/C	ATGGTTGTTGCAAGTTT CCC	CCTTGAAGACATATGG TGGCA	60.9	522	INTRON	Ca_16599	R	--
Ca4_P2_25822023	Ca4	25822023	ATTTTTTTTT/ATTTTTTTTT	ACGCAAGAGCAACATC TACG	TGAAGTCTCGGGTTC AACA	59.3	617	INTERGENIC	--	--	--
Ca4_P2_25822369	Ca4	25822369	CAAAAA/CAAAAA	TGTTTGAACCCGAGACT TCAC	CGTGGCATTGAAAA GCAT	61.0	611	INTERGENIC	--	--	--
Ca4_P2_25830554	Ca4	25830554	CAAAAAAAAA/CAAAAAAAAA	ATCGTGCACATTCCTAT TTT	TTCAAATGCTCCTCT GGG	60.2	621	INTERGENIC	--	--	--
Ca4_P2_25830993	Ca4	25830993	CTTTTTTTTT/CTTTTTTTTT	CCCAGAAGGAGCAATT TGAA	TTGCGGTTTCCTTAATG GTC	59.9	315	INTERGENIC	--	--	--
Ca4_P2_25844453	Ca4	25844453	AATTATTATTATTATTATTATTATT ATGTTATTATTATTATTATTATTATT AATTATTATTATTATTATTATTATT TTATTATTAAATGTTATTATTATTATT ATTATTATT	CACTTGGGTCACTGCT GAAG	GATGCTGCATGTGTG ATCC	60.1	662	DRR	Ca_16601	R	--
Ca4_P2_25847698	Ca4	25847698	T/TG	CATGCTACCAAGCGAT TGA	ATCGATTTCGCGAGTC TTGT	59.8	370	INTERGENIC	--	--	--
Ca4_P2_25854591	Ca4	25854591	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TCACCATGATATAAGG CTTTTG	TGGGGACTAAACAGCA ACTCA	60.7	401	DRR	Ca_16602	R	--
Ca4_P2_25869082	Ca4	25869082	ATTTT/ATTTT	TATTTGTCGATTGCGT GGA	TTATAAGTGCAGTTAG CGGG	60.1	693	INTERGENIC	--	--	--
Ca4_P2_25884525	Ca4	25884525	TA/T	AGCAACCAATCGAAAC ACC	GGGAAATTTGGAACC AATG	59.1	307	INTERGENIC	--	--	--
Ca4_P2_25887792	Ca4	25887792	TTATTATTATTATTATTATTATTATT AGTATTATTATTATCATATTATTATT TATTATTATTATTATTATTATTATT TTATTAT/TTATTATTATTATTATTATT TATTATTATTAGTATTATTATCATCA TTATTATTATTATTATTATTATTATT	GGCTGAAGAAGAAAT CATCAAA	CACAGCACTTGACCTT CCAA	59.9	401	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_25890750	Ca4	25890750	TGGGG/TGGGGG	TGCAAGTATTTGTTGG TGG	TCTCGGGATGGATGA GTATATGA	59.7	460	INTERGENIC	--	--	--
Ca4_P2_25891004	Ca4	25891004	AGGG/AGGGG	TGCAAGTATTTGTTGG TGG	CGTCAGTGACAAGTGA TGGTG	60.2	823	INTERGENIC	--	--	--
Ca4_P2_2589224	Ca4	2589224	CAGTTGCAAGTTGCAAG/CAGTTGCA GTTGCAAGTTGCAAG	AAGATCGATCAGTTCCA CCG	ATTGGGAACCAACTGA CGAG	60.0	396	INTERGENIC	--	--	--
Ca4_P2_25906423	Ca4	25906423	TC/T	TAATGGCATTGGTACAG GCA	AAAAATCCTGAATGTCC CCC	60.0	472	INTERGENIC	--	--	--
Ca4_P2_25916811	Ca4	25916811	CTTTTTTTTT/CTTTTTTTTTTTT	ATGGTAACAGATATCGC CGC	ATTGTAGCATTGCCCA AAGG	60.0	627	DRR	Ca_16606	I	--
Ca4_P2_25924178	Ca4	25924178	ATTTTT/ATTTTTT	TGATGATGTCATTGATG TGTTTG	CTTGTAAGTTGTAGGC GGGC	59.8	778	INTERGENIC	--	--	--
Ca4_P2_25933783	Ca4	25933783	CTCGGTTTCGGTTCGG/CTCGGTTTCGG TCGGTTCGG	TGGCATTGATGATGGC TTTA	ACCTTGTTGATGGCAG TTTC	60.0	340	INTERGENIC	--	--	--
Ca4_P2_25937535	Ca4	25937535	GC/GCTTTTGCTC	TCGACGTTGTCCATTG TGT	ACACGAGCGTTTGAGC TTTT	60.1	621	INTERGENIC	--	--	--
Ca4_P2_25949029	Ca4	25949029	CTTTTT/CTTTTTT	TTCATTGAGATTGATTA TGCTCG	GCTAAACACATGGAGA TCAACA	59.1	754	INTERGENIC	--	--	--
Ca4_P2_25954241	Ca4	25954241	A/ATTC	TTGCAAGAATCCATCCA TCA	TTGAGCATTTGAGCAG AAGC	59.3	493	INTERGENIC	--	--	--
Ca4_P2_25956176	Ca4	25956176	ATTTTTTTTTTTTT/ATTTTTTTTTT	ATATTGGGACCGTTAA GGG	TTTGGGTGTGTTGACT GCAT	60.0	784	INTERGENIC	--	--	--
Ca4_P2_25957374	Ca4	25957374	ATTTTTTTTTTTTT/ATTTTTTTTTT	TCATACCAGATCCACG GTGA	TAACGAATTGATTCCC CGA	60.3	505	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_25957805	Ca4	25957805	AA/AAGTTATAAATCTA	CCTGGCTTACGTC AATT CATC	TCITTCGTTTGGGTGG AAGT	59.6	269	INTERGENIC	--	--	--
Ca4_P2_25958357	Ca4	25958357	TTC/T	TTGTGCACTTCATTTTC AGACC	TGGAAGTCATCGACCC ATTT	60.3	173	INTERGENIC	--	--	--
Ca4_P2_25959074	Ca4	25959074	GCC/GC	TGAAGATGAAGAAGAG GGCAA	TGTGGCATAAGGAGGA GTTTC	59.2	376	INTERGENIC	--	--	--
Ca4_P2_25962811	Ca4	25962811	GTATATATAT/GTATATATATAT	TGGTTGGAAGCTCCAG AAGT	GAAAAGGTGAGGAATC GCTG	59.8	275	DRR	Ca_16607	--	B3
Ca4_P2_25962938	Ca4	25962938	CTT/CT	TGGTTGGAAGCTCCAG AAGT	GTGGTAAGTTGTGTGG CCCT	59.9	577	DRR	Ca_16607	--	B3
Ca4_P2_25963240	Ca4	25963240	GAAAAAA/GAAAAAA	AATCCAAGCACCAAAG CAC	GTGGTAAGTTGTGTGG CCCT	59.9	353	DRR	Ca_16607	--	B3
Ca4_P2_25963279	Ca4	25963279	TTTTATT/TTTT	AATCCAAGCACCAAAG CAC	GTGGTAAGTTGTGTGG CCCT	59.9	353	DRR	Ca_16607	--	B3
Ca4_P2_25965378	Ca4	25965378	ACCCCC/ACCCCC	GGTGTGCAAGAGGACT GGAT	GGTCCAAGAATATGCC CAAA	59.8	481	INTERGENIC	--	--	--
Ca4_P2_25966069	Ca4	25966069	ATTT/ATTTT	GGCATGGACAACCTCA CCTT	CGAAATCCTCAAAATC GGAA	60.0	484	INTERGENIC	--	--	--
Ca4_P2_25967268	Ca4	25967268	T/TA	TTCAAATCTTTCTGCC CAA	AAAGCACCAAGTCGAAA CTGC	60.4	670	INTERGENIC	--	--	--
Ca4_P2_25967972	Ca4	25967972	ATTTTTTTT/ATTTTTTTTT	TTGTACCCTTGTGCAAC CAA	TGGTTGGATACTTGCA ATGG	59.4	180	INTERGENIC	--	--	--
Ca4_P2_25968820	Ca4	25968820	GTTT/GTTTT	TTCTTCTGCCCAAAAT GCT	CCTCAAGCAGACCTTT GGAG	60.0	412	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_25969511	Ca4	25969511	ACC/AC	TCCCTTGCCTCTAGCCA GTA	GCAGATGTTCTCAACA GCCA	60.0	350	INTERGENIC	--	--	--
Ca4_P2_25970159	Ca4	25970159	AC/A	TGGTTGGGTCTTGTT TGTT	CACCTGCTATGGATGC AATG	60.1	709	INTERGENIC	--	--	--
Ca4_P2_25972652	Ca4	25972652	TGGG/TGG	TTGTCTCAACAATCTCC CCC	CTCAGTTCCTAGCACG AGGG	60.0	676	INTERGENIC	--	--	--
Ca4_P2_25975114	Ca4	25975114	TGGGG/TGGGGG	ACACATGTTGGCCAAT GAGA	GAGTCCGATTTCATG AGGA	60.0	621	CDS (FRAME SHIFT)	Ca_16608	--	--
Ca4_P2_25976449	Ca4	25976449	CTTTTT/CTTTTT	CCCCTTTTTGCACATGA TCT	GGGAACCTCTATCCAC CCAT	60.0	510	INTERGENIC	--	--	--
Ca4_P2_25978445	Ca4	25978445	CT/CTTT	TGCCTCAAAGGCTTCAT CTT	AGCACTCATCTCGGG TAGA	59.8	435	INTERGENIC	--	--	--
Ca4_P2_25979689	Ca4	25979689	TG/TGG	GTCCTCGTCAGGAGGT TGAG	CCACTGTTGCTGGCAG ATAA	59.9	707	INTERGENIC	--	--	--
Ca4_P2_25982514	Ca4	25982514	CAATAATA/CAATAATAATA	GCGCAAAAACAAGAAG GAAG	GGTCCAGTTGTTTGG AGAA	59.9	290	INTERGENIC	--	--	--
Ca4_P2_25983794	Ca4	25983794	A/AC	TGACAACCCAGATTGT TGA	TGGGTCCATGTTCCAA TTTT	60.0	671	INTERGENIC	--	--	--
Ca4_P2_25984075	Ca4	25984075	TA/TAA	CGATTTTAAACAGCGT GGT	TGGGTCCATGTTCCAA TTTT	60.0	276	INTERGENIC	--	--	--
Ca4_P2_25984442	Ca4	25984442	TGAGAG/TGAGAGAG	AGATCCTGTTGACAG GCTT	CGTTTGTGTTGTGAT TTGC	60.0	524	INTERGENIC	--	--	--
Ca4_P2_25987001	Ca4	25987001	T/TTAAA	TCAGTAGCATCGTAGC GTGG	TGAGCTGCGACGAGAG TAGA	60.0	379	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_25987244	Ca4	25987244	AATATATATAT/AATATATATATATATA T	TCTACTCTCGTCGCAG CTCA	TGCTTAGGCATTAC CCAG	60.1	250	INTERGENIC	--	--	--
Ca4_P2_25987622	Ca4	25987622	TCC/TC	TTCAACTGGGTAAAT CCT	TGTTCTAGTCCAGATCA AACGA	58.9	323	INTERGENIC	--	--	--
Ca4_P2_25987851	Ca4	25987851	CTTT/CT	TTCTTCTCTAATGTTCTG TTTTGA	CGTGCTCATCTTTGT GCTTT	58.0	732	INTERGENIC	--	--	--
Ca4_P2_25988978	Ca4	25988978	AAAGAAGAAGAAG/AAAGAAGAAG	AAGTGGATGTGGACT TTGC	AGTTCCAATTGGCCTC CTTT	59.9	404	INTERGENIC	--	--	--
Ca4_P2_25989281	Ca4	25989281	TCCCC/TCCC	AAGTGGATGTGGACT TTGC	AGTTCCAATTGGCCTC CTTT	59.9	404	INTERGENIC	--	--	--
Ca4_P2_25989322	Ca4	25989322	GTTTT/GTTTTT	GTACGCGATCTAGTCC CCAA	CCGGGGAGAAAGTTCT AGTG	58.8	168	INTERGENIC	--	--	--
Ca4_P2_25994447	Ca4	25994447	G/GT	ATCCACAACCGAGTTAG CGT	TACCCACACCCCTCAA TCTT	59.3	389	INTERGENIC	--	--	--
Ca4_P2_25994721	Ca4	25994721	AC/A	TTAAGATTGAGGGGTG TGGG	CACCACTTCATTGCGG ACTT	60.0	516	INTERGENIC	--	--	--
Ca4_P2_25995802	Ca4	25995802	ATTTT/ATTT	CCCTAAATCAAGCAGC GTC	TGCACTGTTGTTGTTG CTGA	60.1	470	INTERGENIC	--	--	--
Ca4_P2_25996238	Ca4	25996238	GAAAAAAAAA/GAAAAAAAAA	CCCTAAATCAAGCAGC GTC	AACGTTGGAGGAACAA AACG	60.0	949	INTERGENIC	--	--	--
Ca4_P2_25997913	Ca4	25997913	GATACTTTCA/G	TCTGCTTCTTGAGGTCT TGC	CACATGCAGGGCAACA ATAG	60.1	581	DRR	Ca_16610	C	--
Ca4_P2_25998410	Ca4	25998410	TTA/TTATGTA	TATTGTTGCCCTGCATG TGT	TGGAGGCCAATTTGTT TCTC	60.1	531	DRR	Ca_16609	--	B3

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_26009737	Ca4	26009737	TC/T	GGAACCTCTCTGTGG CAGC	ACCCCTTGCATCCCTT CTT	59.9	617	INTERGENIC	--	--	--
Ca4_P2_26011159	Ca4	26011159	A/AACAGAACTCC	GAAACCCACAACAAA TGG	AGCATCATGGATTCTT CCG	60.0	438	DRR	Ca_16611	C	--
Ca4_P2_26015617	Ca4	26015617	AATAATATA/AATA	TGCGAGGGCTAGCTTA AAAA	TGAGACAAAAGTTGC GGTG	59.9	635	INTERGENIC	--	--	--
Ca4_P2_26030877	Ca4	26030877	CAAAA/CAAAA	AACGTACTGCCTATCAC GGG	ACCGAATTACTCACG GTGC	60.0	827	INTERGENIC	--	--	--
Ca4_P2_26058753	Ca4	26058753	TAAA/TAAA	AGGAACCAATCCTACCA GCC	TCTGGTCATGCATCCTT TGA	60.2	433	INTERGENIC	--	--	--
Ca4_P2_26067428	Ca4	26067428	CTTTTTTTT/CTTTTTTTT	AGGTGTGTCAGTGCA GACTT	TTGCGTTACGGATTG ATGA	60.1	604	INTERGENIC	--	--	--
Ca4_P2_26067529	Ca4	26067529	TAAAAAAAAA/TAAAAAAAAA	TAAAAGGTCAGGCCG GAAA	TTGCGTTACGGATTG ATGA	60.1	428	INTERGENIC	--	--	--
Ca4_P2_26072163	Ca4	26072163	AAATAGTACTGACATT/A	TTACACCCACCACGAC GTAA	CCAGAAAGTTGTTAGA AGCACG	59.1	523	INTERGENIC	--	--	--
Ca4_P2_26076271	Ca4	26076271	AAATA/AA	GCCGATAAAATAAAAT ATACTGGACA	AATGACAAATAAGGC CAAGT	57.6	424	INTERGENIC	--	--	--
Ca4_P2_26079571	Ca4	26079571	TA/TAA	TGCACAAACTCAAATG CCT	GGCATTGAAAAATCA CGTT	59.8	194	INTERGENIC	--	--	--
Ca4_P2_26091108	Ca4	26091108	ATTTTTTTT/ATTTTTTTT	AGGTGCATTCTGAAG GTGG	TGTTCAAGATCATTC ATGCC	59.9	564	INTERGENIC	--	--	--
Ca4_P2_26095258	Ca4	26095258	CTGATTCATGTGTTGATT/CTGATT	TATTAAATTGGCCCTC CGA	GCAGTAGGCGACAAA CACA	59.9	849	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_26109434	Ca4	26109434	CTTTTT/CTTTTT	GGAAAGGAATCATGTC AGGG	AAGACTGGCTTGGAAG GTCA	59.8	445	INTERGENIC	--	--	--
Ca4_P2_26110090	Ca4	26110090	AG/A	AGAACCTGACCTTCCAA GCC	AAAAAGGGGAGATTG TTGG	60.2	606	INTERGENIC	--	--	--
Ca4_P2_26110333	Ca4	26110333	TCCC/TCCCC	CCAACAATCTCCCCCTT TTT	GCATCTGTTGCAGTT CTCA	60.0	583	INTERGENIC	--	--	--
Ca4_P2_26110396	Ca4	26110396	CTTTTTTTTT/CTTTTTTTTTT	CCAACAATCTCCCCCTT TTT	GCATCTGTTGCAGTT CTCA	60.0	583	INTERGENIC	--	--	--
Ca4_P2_26118906	Ca4	26118906	CTTTTTTTTT/CTTTTTTTTTT	CTGGATTCCAACAATCT CCC	TTCTTTGCTTTTGCGCT TTT	60.1	851	INTERGENIC	--	--	--
Ca4_P2_26121900	Ca4	26121900	CT/CTTGT	AGGGGTTAAAAAGGAA GGCA	CACGTCCCCTTATTTT TGC	59.5	217	INTERGENIC	--	--	--
Ca4_P2_26153740	Ca4	26153740	TAAAAA/TAAAAA	TTGGGTTGACCCGTATA TTCT	CCGTGACAGTAGCCCG TATT	60.0	743	INTERGENIC	--	--	--
Ca4_P2_26155943	Ca4	26155943	ATTTTTTT/ATTTTTT	GCAATGCCTTACCGTG AAAT	CGACAGCACATTACCC AAAA	59.6	384	INTERGENIC	--	--	--
Ca4_P2_26176935	Ca4	26176935	GAAAAAA/GAAAAAAA	CACAATCAATCACGCC TTA	TGTCATTTTTGCGTA GTGC	59.7	500	INTERGENIC	--	--	--
Ca4_P2_2617790	Ca4	2617790	GTTTTTTTTTTT/GTTTTTTTTTTTTT	GATTGGAGCAAAGGGA AACA	ACGCCAACACAAAAT CAA	60.0	327	INTERGENIC	--	--	--
Ca4_P2_26194244	Ca4	26194244	ATTTTTTTTT/ATTTTTTTTTT	TTCTCAGCCTTCGTG TCT	TCTCCCCCTTTTGATG ATG	59.9	358	DRR	Ca_16613	--	--
Ca4_P2_26199834	Ca4	26199834	A/AT	GGGCAAGGTGAACACA AGAT	GCATCGTCCTCCATG ATTT	59.9	383	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_26203930	Ca4	26203930	TTATATATATATATATAT/TTATATATATA TATATATATATAT	TTGGAAATAAGGACAA ACACC	TCCAAATTGCTGGAAT CCT	59.5	626	INTERGENIC	--	--	--
Ca4_P2_26219618	Ca4	26219618	CA/C	ACGGTTTCTTTCCTTC GAT	CGAGAACCAACCTCAT CCAA	59.9	571	INTERGENIC	--	--	--
Ca4_P2_26236726	Ca4	26236726	TAAAAAAAAA/TAAAAAAAAA	GTTACGATTGTGTTCC GCCT	TAATCTCACTGCGCAC CTTG	60.0	368	INTERGENIC	--	--	--
Ca4_P2_26251759	Ca4	26251759	CTTTTTTTTT/CTTTTTTTTT	TAAACGCAATCGGAA GACC	GAGAACTTCCGCTG CTTG	60.1	545	INTERGENIC	--	--	--
Ca4_P2_26251857	Ca4	26251857	ATTTTTTTTT/ATTTTTTTTT	AGCTTTCATGTAACACC CCG	GCCCTCAGATGAGAGT CAGG	59.9	453	INTERGENIC	--	--	--
Ca4_P2_26258704	Ca4	26258704	AT/ATAAATTTTT	TTCTCGAATCAATTCG TCC	TGGGTGTGTTGTTTC AGGA	60.0	332	INTERGENIC	--	--	--
Ca4_P2_26259040	Ca4	26259040	ATTTTTTTTT/ATTTTTTTTT	TTCTCGAATCAATTCG TCC	CTCAGAGGCCGACCTA TACA	57.9	888	INTERGENIC	--	--	--
Ca4_P2_26276734	Ca4	26276734	ATAATTAA/ATAA	GGTGCTACAGTTCGA AGCA	TGCATTTACAGCGCTT TTG	60.0	725	INTERGENIC	--	--	--
Ca4_P2_26302275	Ca4	26302275	TAAAAAAAAA/TAAAAAAAAA	AGCTTCCCCAGTACT GTCA	TGACGCGTCCAATTT ATCA	60.1	494	INTERGENIC	--	--	--
Ca4_P2_26308021	Ca4	26308021	CTTTTT/CTTTTT	ATAAACATCATCGGC GAC	TTCAGTGGCATTGAGA CATTG	59.7	405	DRR	Ca_25307	S	--
Ca4_P2_26326139	Ca4	26326139	GAAAAAAAA/GAAAAAAAA	CTCCAACAGCATCAATT CCA	GATCCTGGGATTGTGA GCAT	59.9	724	DRR	Ca_25306	R	--
Ca4_P2_26330439	Ca4	26330439	CCTAAGCTCTAAGCTCT/CCTAAGCTCT	ATGAGCCCCGAATTCTA ACA	GAACAATGGGGATGTG GTTC	60.0	662	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_26337485	Ca4	26337485	GTTTTTT/GTTTTTTT	CCTTCCACCCAGAAAG GAG	TGGCAGAGCACTACCA ACAA	60.4	362	DRR	Ca_25305	--	FAR1
Ca4_P2_26339363	Ca4	26339363	CAAGAAGAAGAAGAAGAAGAA/CA AGAAGAAGAAGAAGAAGAAGAAGA A	TCAAGACGTTGATCTCG TGC	CATCTTCATTGCCTCCC ATT	59.9	397	INTERGENIC	--	--	--
Ca4_P2_26341643	Ca4	26341643	ATTTTTTTTTTTTTT/ATTTTTTTTTT T	CACAGTCTTATTGAGG CACCA	TTTGCCTATGATTTGA GTGA	59.5	651	INTERGENIC	--	--	--
Ca4_P2_26344119	Ca4	26344119	CAAAAA/CAAAA	GGGATGGACAAAAACC AAAA	TCAACAATTTGCACAT TTACCA	59.4	589	DRR	Ca_25304	S	--
Ca4_P2_26345302	Ca4	26345302	TTTCTACTTCTACTTCTACTT/TTTCTAC TTCTACTTCTACTTCTACTT	ACCGTCCAGTGACAGA AACC	TTAATATCAAACGGAG GCCG	59.9	504	DRR	Ca_25304	S	--
Ca4_P2_26350658	Ca4	26350658	TGGGG/TGGG	CTCTGACATGCGACAAT GCT	GTTTGGTCGGGTTAAG GGAT	60.1	555	INTRON	Ca_25303	I	--
Ca4_P2_26361460	Ca4	26361460	CTTTTTT/CTTTTTT	GAAACTCGCAGACTTC GGAC	TATTGGCGAATCAAG GAAG	60.0	520	INTERGENIC	--	--	--
Ca4_P2_26363618	Ca4	26363618	T/TTTAC	GCCAAAATTCCTTCGT TGA	ATTCCCAAGAACATCA CCA	60.2	613	INTERGENIC	--	--	--
Ca4_P2_26366195	Ca4	26366195	AATATATATATATATATATATA/AATAT ATATATATATATATATA	ACGACACCAACAACAAC CAA	AAAATGGGATGGACCA ATGA	60.0	614	INTERGENIC	--	--	--
Ca4_P2_26369375	Ca4	26369375	ATTTTTTT/ATTTTTTT	TTCTGTGCATTTGAATG GGA	AAACCCCAACCTAC GAAC	60.1	721	INTERGENIC	--	--	--
Ca4_P2_26389354	Ca4	26389354	TTATATATATATAT/TTATATATATATATA T	AGGAAGAGTGGAGTTG CGAA	TCATATTCGGTAGCCG TTCC	59.9	759	INTERGENIC	--	--	--
Ca4_P2_26398945	Ca4	26398945	AATTTAATTT/AATTTAATTTATCTATTTA ATTT	GTGGCGAATTGATTGT CCT	CGACGTAATCTGGGTT GGTT	59.9	413	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_26404295	Ca4	26404295	ATTTTTTTTT/ATTTTTTTTT	TTTGGGCCTTGGTGG T TAG	CCCACCTGGTAAAGAC CACTG	59.5	430	INTERGENIC	--	--	--
Ca4_P2_26411287	Ca4	26411287	GTTT/GTTTT	TGTTCTGCTTAAGGG CCTA	GATCAAGAGGTCACCG GTTC	59.5	841	INTERGENIC	--	--	--
Ca4_P2_26489000	Ca4	26489000	ATTTTTTTTTTT/ATTTTTTTTTTTTT	CATCGCTCACACGTGT CTTT	CAGCGTGCATATCAA GCCT	58.9	651	INTERGENIC	--	--	--
Ca4_P2_26492251	Ca4	26492251	ACTC/AC	CAAATGCACATGAGAAC CGT	AATGATCCGGAACCAT TTCA	60.1	519	INTERGENIC	--	--	--
Ca4_P2_26495554	Ca4	26495554	GAAAGTTGTTT/GAAAGTTGTTCAAAGT TGTTT	AACGATTATCCTGGTC CCC	CCCGAATACAAACCCA AGTC	59.3	844	INTERGENIC	--	--	--
Ca4_P2_26504817	Ca4	26504817	GAAAAAA/GAAAAAA	TGGTTGAGAGAGTACG ACCA	TTGCTACGTCCAATCC CTTC	60.1	710	INTERGENIC	--	--	--
Ca4_P2_26514235	Ca4	26514235	GAAAAAA/GAAAAAA	CTAGCCTGGCAAGCCT ATCA	GGACGACCTAGCCTAT TCCC	59.9	644	INTERGENIC	--	--	--
Ca4_P2_26514316	Ca4	26514316	CAAAAAAA/CAAAAAAA	CTAGCCTGGCAAGCCT ATCA	GGACGACCTAGCCTAT TCCC	59.9	644	INTERGENIC	--	--	--
Ca4_P2_26514892	Ca4	26514892	GAAAAAA/GAAAAAA	TGCTCTGGGGATGTC AAAT	TGGTCCGGTCTAGAAG CCTA	59.8	687	INTERGENIC	--	--	--
Ca4_P2_26519771	Ca4	26519771	CAAA/CAAAAA	AAACCTCTCGCCTTT TGC	TATTTTACGTACCCGT GCC	60.0	351	DRR	Ca_25005	R	NAC
Ca4_P2_26523067	Ca4	26523067	ATTTTTTT/ATTTTTTTT	TATCTGCCAGGGAGAA AACG	TGCCATGAAACGAAAG AAAA	59.3	362	DRR	Ca_25004	P	--
Ca4_P2_26523126	Ca4	26523126	TCCC/TCC	TATCTGCCAGGGAGAA AACG	TGCAAGAGAGGAAACG AAAA	58.6	436	DRR	Ca_25004	P	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_26524092	Ca4	26524092	GAA/GAAAA	TGAAATAGAGGGCCAG GTTG	TTCGTCCTTTGTCATCA AACA	59.2	317	DRR	Ca_25004	P	--
Ca4_P2_26524408	Ca4	26524408	C/CCTTAA	TGTTTGATGACAAAGGA CGAA	AGAGGCACATTGAGAG CGTA	58.6	421	DRR	Ca_25004	P	--
Ca4_P2_26529457	Ca4	26529457	ATCTCTCTCTCTCTC/ATCTCTCTCTCT CTCTC	ATAGCAGCAATTTCAT CCG	GTCCACGAAGTAAGT CCCA	60.0	286	INTERGENIC	--	--	--
Ca4_P2_26532976	Ca4	26532976	TCCCC/TCCC	TCAGATGCAGTTCCTTG GTG	CTGTGTACTGCAAGGG GGTT	60.0	477	INTRON	Ca_25003	T	--
Ca4_P2_26581837	Ca4	26581837	TTTCCTTCTTCTTCTT/TTTCCTTCTTCTT TTCCTT	GGAGAAGGAGGGAGAA ATGG	ATGCATTACGGGTGAA ATGG	60.6	263	DRR	Ca_25001	--	--
Ca4_P2_26620467	Ca4	26620467	A/AGTAATT	CCGAAACCGAACACA GATT	TGGGAACAAAACACAG CAAG	59.7	819	INTERGENIC	--	--	--
Ca4_P2_26622922	Ca4	26622922	GAAAAAAAA/GAAAAAAAA	TGGCTGTTGTCCATTGT GTT	TCAGACACAGTTGGTC GGTT	59.2	604	INTERGENIC	--	--	--
Ca4_P2_26624241	Ca4	26624241	C/CG	CCAAAGTCCAACGATT GCT	TGTGCATGGTGCTTTTT GAT	60.1	447	INTERGENIC	--	--	--
Ca4_P2_26626709	Ca4	26626709	A/AT	TATATGGGATGAAGCG CACA	AGCACATGATTGCAA GCCT	60.8	887	INTERGENIC	--	--	--
Ca4_P2_26648267	Ca4	26648267	ATTTTTTTTT/ATTTTTTTTT	TCGAACAGAACTGA GCCT	GATTCCGGAGTTGGTT GATG	60.3	440	INTRON	Ca_24999	L	--
Ca4_P2_26664091	Ca4	26664091	TAAAAAAAA/TAAAAAAAA	TGATACAATTGATTCGG CCA	TTTTTGTACGCGAGC TCTA	59.8	371	INTERGENIC	--	--	--
Ca4_P2_26672419	Ca4	26672419	TAAAAAAAA/TAAAAAAAA	GGATTCAAAATTGGA GCGT	TAGCACCTACGACAT CCGT	60.5	981	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_26672920	Ca4	26672920	CTTTT/CTTT	ACGGATGTCGTAGGT GCTA	AAGACCCGAATCAGCA TTTG	60.1	438	INTERGENIC	--	--	--
Ca4_P2_26673641	Ca4	26673641	ATTTTTTTTT/ATTTTTTTTT	CAAATGCTGATTCGGG TCTT	AAAATGCAGCCCCATA ACTC	60.0	653	DRR	Ca_24998	--	Trihelix
Ca4_P2_26726880	Ca4	26726880	ACTTCTT/ACTT	CATTGTTTGAATCCAG TTTT	CCCCTCATTAGCCACT TAGC	58.8	422	INTERGENIC	--	--	--
Ca4_P2_26727123	Ca4	26727123	GTTTTTTTTTTTTTTTTT/GTTTTTTTT TTTTTTTT	CATTGTTTGAATCCAG TTTT	TGTGGGAACACGACCA TAAA	59.8	690	INTERGENIC	--	--	--
Ca4_P2_26733398	Ca4	26733398	ATTTTTTT/ATTTTTTT	AGTACCATCCAAGTGC GGTC	TCTTTTTACCATCCCG ACT	59.5	302	INTERGENIC	--	--	--
Ca4_P2_26733428	Ca4	26733428	TAAAAAAAA/TAAAAAAAA	AGTACCATCCAAGTGC GGTC	TCTTTTTACCATCCCG ACT	59.5	302	INTERGENIC	--	--	--
Ca4_P2_26735683	Ca4	26735683	CTTTTTTTT/CTTTTTTT	TTTACCATGCTTCCGT AGG	TCCAGCCAGAAATCCA TAGG	60.0	751	DRR	Ca_20436	--	--
Ca4_P2_26748572	Ca4	26748572	GAAAAAAAA/GAAAAAAAA	GGGTGTGAGTTGAAAT GACG	TTTGTGCAACAACAC CATT	60.0	858	INTERGENIC	--	--	--
Ca4_P2_26750453	Ca4	26750453	GTATA/GTATATA	AAAAAGCAAATGATCCC ATCC	TGGATCCTCTCAATTCA AATCTC	59.5	672	INTERGENIC	--	--	--
Ca4_P2_26752184	Ca4	26752184	ATTTTTTTTTT/ATTTTTTTTTT	TTGGGATCATAGAATCA TTTGGT	TGATCAGGTCACTCC AAAG	59.7	475	INTERGENIC	--	--	--
Ca4_P2_26753050	Ca4	26753050	GAA/GAAA	AACACTCGCAAATCTT CGG	ATTGTTTGAGTTGCCG CTCT	59.9	623	INTERGENIC	--	--	--
Ca4_P2_26761814	Ca4	26761814	TCC/TC	ATCATTTTAGCGCAGCC ACT	ACACTCACACTCCCCA GAGG	60.2	643	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_26763494	Ca4	26763494	TAAAAAA/TAAAAAA	AAAAATACCGCGTCATT TCATT	TCGCTCAAAACACAC GAG	60.0	572	INTERGENIC	--	--	--
Ca4_P2_26765991	Ca4	26765991	GAAAAAA/GAAAAAA	AGTTTTGGCCCTTTT ATT	AAAACTCGCACACAA CTGTTA	57.6	508	DRR	Ca_20437	K	MYB
Ca4_P2_26775300	Ca4	26775300	TAAAAAA/TAAAAAA	ACGGCGCTAAACCAAC ATAG	TTGTGTGCTTAACCTT GCG	59.9	320	INTERGENIC	--	--	--
Ca4_P2_26777289	Ca4	26777289	TAAAAAA/TAAAAAA	TCAAAATAGAGGCAG CCAAA	TCGTGTCGACACACA TCAA	59.7	417	INTERGENIC	--	--	--
Ca4_P2_26778550	Ca4	26778550	CTTT/CTTT	GCCCATCCAAGTGATG AGAT	TTCTTTTCGGCAAAAT CAC	60.1	811	INTERGENIC	--	--	--
Ca4_P2_26787145	Ca4	26787145	CTTTTTTT/CTTTTTTT	GCGACTATGTCGTCAC ACTG	TCGAAGCATGAAAGAA AAGGA	59.9	803	INTERGENIC	--	--	--
Ca4_P2_26791133	Ca4	26791133	CTTTTTTT/CTTTTTTT	GACGACAGATTGATG CCATT	TCAAGTCAACGCTCTG GTTG	60.0	603	INTERGENIC	--	--	--
Ca4_P2_26801659	Ca4	26801659	ATTTTTTT/ATTTTTTT	TTTGCATTACGAATTG ATGA	TTTCCCGATTGGTCCT TTA	59.4	178	INTERGENIC	--	--	--
Ca4_P2_26805293	Ca4	26805293	AAAATA/AA	TTCCATTGATACATTCC AGCA	AAGCTAGCCATCCTCA ACGA	60.0	234	DRR	Ca_20438	--	--
Ca4_P2_26831033	Ca4	26831033	CAAAAAA/CAAAAAA	TCTTCCCGTATATTGCT CGG	CCAGCGTGACGTAGCT GATA	60.0	677	INTERGENIC	--	--	--
Ca4_P2_26842237	Ca4	26842237	GAAAAAA/GAAAAAA	TAGCATGCCTCAATCC CTC	AGCAACACGATTGTA CATCC	59.9	726	INTERGENIC	--	--	--
Ca4_P2_26844220	Ca4	26844220	TAAAAAA/TAAAAAA	ATCAACCCACAGGTGA CACA	CACAAAGCCACATCCA CAAC	60.0	363	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_26847079	Ca4	26847079	AAAAATAAAATAAAATA/AAAAATA AAAAATA	GGAGAACGTTAAGGCA GCAG	GTGGTGTAGGTTTCGA TCCG	60.4	689	INTERGENIC	--	--	--
Ca4_P2_26847495	Ca4	26847495	A/AC	AGCTTCAAGTCGGATC GAAA	AAAAATCTTGTGGGAAT AATTCAA	58.1	216	INTERGENIC	--	--	--
Ca4_P2_26867246	Ca4	26867246	CTTTTTTTTT/CTTTTTTTTTT	AAGTATGCATCGCTC CTTC	ATTGACATTGGCACAT CTCG	59.5	140	INTERGENIC	--	--	--
Ca4_P2_26876873	Ca4	26876873	ATTTTTTTTTT/ATTTTTTTTTT	CCACCGTTGTGCCTCTT ATT	GCCAGAGAATGATCGA GAGG	59.9	439	INTERGENIC	--	--	--
Ca4_P2_2688293	Ca4	2688293	AT/A	AGCATGCTTCCACAAAG GAT	TTGGAGGTTGTGTTGT TGGA	60.0	532	DRR	Ca_12072	--	--
Ca4_P2_26898145	Ca4	26898145	CTTTTTTTTT/CTTTTTTTTT	CGAAACTCAAAACAAC GGG	CGGCCCAATTCAAAC AAAA	59.9	588	INTERGENIC	--	--	--
Ca4_P2_26903304	Ca4	26903304	T/TG	ACTCGATTGGTCCATG CTTC	ATGTTTTGGACGCACA CAGA	60.2	532	INTERGENIC	--	--	--
Ca4_P2_26905366	Ca4	26905366	TAAAAAAAAA/TAAAAAAAAA	TGAAAGCCCAAACTAA TCAAGA	ATTGCTCGGTCGTTT AGTC	59.2	471	DRR	Ca_20443	R	G2-like
Ca4_P2_26936665	Ca4	26936665	AGTTAATATGTTAATATGTTAAT/AGTTA ATATGTTAAT	TCAAGGCTTAGGCGT GAGT	GTAAATGCGTTGTGCG ATCA	60.7	615	INTERGENIC	--	--	--
Ca4_P2_26948125	Ca4	26948125	GTTATTATTATTATTATTATT/GTTAT TATTATTATTATTATT	GATGAACCGGAAGAAC CTCA	ATAGGAGATCGTTTT CGGG	60.5	547	DRR	Ca_20451	R	--
Ca4_P2_26954877	Ca4	26954877	GTTTTTTTTT/GTTTTTTTTT	TCAATTTGATGATGTG GCAA	CGGTCAAACATCAGC TTCA	59.8	405	INTERGENIC	--	--	--
Ca4_P2_26955373	Ca4	26955373	CTTTTTTTTT/CTTTTTTTTTT	TGAAGCTGATTGTTTGA CCG	CGTGTTTTGAAGCACC GATA	59.7	604	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_26957417	Ca4	26957417	GTTTTGATTTTTTTTT/GTTTTGATTTTT TTTTATTTTTGATTTTTTTTT	GTTTGTCCCAAGCAA CAAT	CTAGCCCATTTGAGCT TTGC	60.0	642	INTERGENIC	--	--	--
Ca4_P2_26966437	Ca4	26966437	CAAAAA/CAAAAAA	GGTGCCTTTGTTGA GTTT	TGCACAAATAGCATGT CACCT	59.2	845	INTERGENIC	--	--	--
Ca4_P2_26970810	Ca4	26970810	TAAAAAA/TAAAAAA	GAAAAGCTGAAACTGTA TTTTGGAA	AACAGTGCCGATGAAT AGTTTT	57.8	306	DRR	Ca_20452	A	--
Ca4_P2_26991333	Ca4	26991333	ATTTTTTTTT/ATTTTTTTTT	ACAAGGAAGCGCACCT CTAA	GTGCGACGAGCAAGAA TGTA	60.0	762	INTERGENIC	--	--	--
Ca4_P2_27017251	Ca4	27017251	GTTTTTTTT/GTTTTTTTT	CCTTGCATCTCAGGG ACAT	TGAGACCGGTTTGAG TACC	60.0	453	INTERGENIC	--	--	--
Ca4_P2_27037667	Ca4	27037667	TG/T	CAATTGCAAAGGACATC CAG	AACGTGGGTTACGTCC AGTC	59.9	678	INTERGENIC	--	--	--
Ca4_P2_27052245	Ca4	27052245	ATTTTTTTTT/ATTTTTTTTT	TGAAGGACCAATCGA AAAGA	CGTGTCAAGTTAAACC ATGCC	60.4	651	INTERGENIC	--	--	--
Ca4_P2_27054869	Ca4	27054869	TAAAAAAAAAAAA/TAAAAAAAAA	GCTCAACTAACGGTC CTGC	AATCAAGCAACCCACC AAAC	59.8	394	INTRON	Ca_20455	L	--
Ca4_P2_27054943	Ca4	27054943	ATTTTTTTTT/ATTTTTTTTT	GCTCAACTAACGGTC CTGC	AATCAAGCAACCCACC AAAC	59.8	394	INTRON	Ca_20455	L	--
Ca4_P2_27063954	Ca4	27063954	TAAAA/TAAAAA	CGCAAAAGGCATTGA TTAT	TGGGGTGTACAAGTA GGGTG	59.8	571	INTERGENIC	--	--	--
Ca4_P2_27072516	Ca4	27072516	CAAAAAAAAA/CAAAAAAAAA	GGAATGTGGAAGTGCG ATTT	GTCGCAGAAGATGGGA ATGT	60.1	839	INTERGENIC	--	--	--
Ca4_P2_27074666	Ca4	27074666	GAAAAAAAA/GAAAAAAAA	ATTGTCATCAGAGCCA GTCT	TTTCCAAGAGAGCGC ATTT	60.0	566	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFS
Ca4_P2_27168549	Ca4	27168549	CAAAAA/CAAAAA	AGGGCCAAGGACAAT AAGT	TGGTTTGTGCAATGC CCTA	60.0	523	INTERGENIC	--	--	--
Ca4_P2_27168934	Ca4	27168934	AAC/A	TCCTACATGCCCAAGA AAC	TGGTTTGTGCAATGC CCTA	60.0	339	INTERGENIC	--	--	--
Ca4_P2_27171043	Ca4	27171043	ATTG/AGCAAAATACATTGTTG	ATCAGCGCTCGGTCTC TAAA	CTTCTTCGCAGCAGA GGTT	59.8	253	INTERGENIC	--	--	--
Ca4_P2_27184150	Ca4	27184150	AAATAATAATAATA/AAATAATAATA ATAATAATA	TTTCTTGTGCCTTGGT GTG	TAGAAACCGTTGCCA AGAA	60.6	744	INTERGENIC	--	--	--
Ca4_P2_27185776	Ca4	27185776	TAAAAAAAA/TAAAAAAAAA	GCCCAAAACGGGAATA ATTT	GGGCAAAAGATGGAAC AAGA	60.1	712	INTERGENIC	--	--	--
Ca4_P2_27196717	Ca4	27196717	A/ACGCTGACACGCAC	TTGGCACCAGAAATCTC ACA	TTTGGGACCCCAATTAT TCA	60.0	892	INTRON	Ca_20458	--	NF-YB
Ca4_P2_27206500	Ca4	27206500	ATTTTTTTTTTTTT/ATTTTTTTTTT	GCACTTCATTAGCTGT GCT	TGTTGATGATGCTGATT GGG	60.5	345	INTERGENIC	--	--	--
Ca4_P2_27213395	Ca4	27213395	ATTTTTTTTT/ATTTTTTTTTT	TTTTCCAGACACCAGG AGG	AGAAAGGCTCAAACGA CCAA	59.9	648	INTERGENIC	--	--	--
Ca4_P2_27217904	Ca4	27217904	CAAAAAAAAA/CAAAAAAAAAA	TGTAGTGGCATGTTG GCAT	TTTGGAGGACTTTTGG GTTG	59.9	662	INTERGENIC	--	--	--
Ca4_P2_27231581	Ca4	27231581	CTTTTTTTTT/CTTTTTTTTTT	GGGTTGGTTTGATTG GATG	TTGTTTCTCCCAGTTT TGG	59.9	622	INTRON	Ca_20460	--	--
Ca4_P2_27231813	Ca4	27231813	CAA/CAAA	CCCCATTTGTTTCTCT CCA	TTGTTTCTCCCAGTTT TGG	59.9	236	INTRON	Ca_20460	--	--
Ca4_P2_27240444	Ca4	27240444	CTTTTTTTTT/CTTTTTTTTTT	ATTGTTCTCCTTGTC GCC	TTTCCGACTTGGTCC TTTT	60.8	373	INTRON	Ca_20460	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_27241081	Ca4	27241081	CTTTTTTTTT/CTTTTTTTTTTT	AAGGACCAAGTCGGGA AAAA	AGGTTTGTATGTGTTG ACGG	59.9	705	INTRON	Ca_20460	--	--
Ca4_P2_27242609	Ca4	27242609	GTTTTTTTTTT/GTTTTTTTTT	CGATGTCGAATATGGA ACGA	CGGAAATTAGATTGAA CGGC	59.5	561	INTRON	Ca_20460	--	--
Ca4_P2_27249645	Ca4	27249645	GTTTTTTTTTT/GTTTTTTTTTTTTTT	GAAATAATGGGTCGGG GTCT	CCATCATGTGCTTGTC AAAA	58.1	872	DRR	Ca_20460	--	--
Ca4_P2_27258927	Ca4	27258927	ATTTTTTTTT/ATTTTTTTTT	AGCGCGGAGAGATAGT TGAA	TGGGTGACTTCATTG GACA	59.9	393	INTERGENIC	--	--	--
Ca4_P2_27259252	Ca4	27259252	TAAAAAAA/TAAAAAAA	AATTTATGCGCTTGGGA CAC	CAGGGGTGAGTGTAC TTTG	59.1	551	INTERGENIC	--	--	--
Ca4_P2_27260077	Ca4	27260077	GAAA/GAAAA	GCGTCCAAGTCTTTGA GGAA	TTTGGGGTGCATAATT TGA	58.9	498	INTERGENIC	--	--	--
Ca4_P2_27261340	Ca4	27261340	CAAAAA/CAAAAAA	ACTCCAACACACAACCC CTC	AATTGAGCCAGAAAA CCCT	59.9	366	INTERGENIC	--	--	--
Ca4_P2_27267123	Ca4	27267123	TAAAA/TAAAA	CCCTCAACTCAACTGAG ATCC	TGCATTGGTTTGAAATT GGA	59.9	568	DRR	Ca_20461	R	--
Ca4_P2_27270866	Ca4	27270866	TAAAAAAAAAAAAAAAAA/TAAAAAAA AAAAAA	CGGAACCAGCTTTGAG TAGC	GTTGGAGCCATTTGCG ATAA	59.9	299	DRR	Ca_20462	R	--
Ca4_P2_27273452	Ca4	27273452	GTTT/GTT	TACATGAGGGTTTTCTG GGC	AACGTTGAGAGATGGT TGGG	60.0	272	INTERGENIC	--	--	--
Ca4_P2_27273711	Ca4	27273711	CT/CTT	TACATGAGGGTTTTCTG GGC	ATCAGAGGAAGGGTGG GACT	59.9	757	INTERGENIC	--	--	--
Ca4_P2_27274392	Ca4	27274392	GAA/GA	AGTCCACCCCTTCTCT GAT	TTGCCAACCGATTGTG TTTA	60.0	805	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_27283830	Ca4	27283830	GTTT/GTTTT	TATTGGTCGTCAGCA GCAG	TTTCCCAATCGATTGC TTC	60.0	681	DRR	Ca_20463	--	--
Ca4_P2_27285679	Ca4	27285679	G/GAA	TATTCGAGGGCGTAC CAAC	CCAGCCTACCCCTTTT ATCTG	60.0	549	INTERGENIC	--	--	--
Ca4_P2_2729716	Ca4	2729716	A/AGACATCAT	AGGGCTTGTAAATGCC TTTT	TTGGCTTCAACAAGATA CCCC	59.9	654	INTRON	Ca_12075	Z	--
Ca4_P2_27326152	Ca4	27326152	TAA/TA	TCACCAATATGGGTTA CGTC	TACAACTCCCAACGGA CACA	60.0	530	INTERGENIC	--	--	--
Ca4_P2_27330002	Ca4	27330002	GAAAAAAAA/GAAAAAAAA	GATGCACAATGCTGAA GGAA	ATTTTGGTGTGGGTT GGA	60.1	947	INTERGENIC	--	--	--
Ca4_P2_27330072	Ca4	27330072	TAAAAA/TAAAAA	AAATCTGGAATGCGAG GGA	ATTTTGGTGTGGGTT GGA	60.1	762	INTERGENIC	--	--	--
Ca4_P2_27331930	Ca4	27331930	GAAAAAAAA/GAAAAAAAA	CAACAATCCCAAACCAA CAA	ATGGTGGTCAACGTCC CTTA	60.2	398	INTERGENIC	--	--	--
Ca4_P2_27332406	Ca4	27332406	ACT/ACTTCT	TAAGGGACGTTGACCA CCAT	GGGTGTGATGGGTAAA CCTG	60.1	379	INTERGENIC	--	--	--
Ca4_P2_27336275	Ca4	27336275	CTTTTTTTTTTTTTTTTT/TTTT TTTTTTTT	AACCATGTTGGGCCAT GTAT	CCATGATTTAGCCCG AGAA	60.0	329	INTERGENIC	--	--	--
Ca4_P2_27354234	Ca4	27354234	CTTTTTTTTT/CTTTTTTT	TGAGCTTTGTGCCGTAA CAG	CGAGTACGGAATCGT CCAT	60.0	550	INTERGENIC	--	--	--
Ca4_P2_27357133	Ca4	27357133	GAAAA/GAAA	TTGATTGGTGACATC CAT	TAAAACTGTCCCAAC CCC	60.9	561	INTERGENIC	--	--	--
Ca4_P2_27366853	Ca4	27366853	TG/T	TGAGACAATGAGGCTT GTGG	TGCACTTGGTCAATGT GTGA	59.7	460	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_27367807	Ca4	27367807	CTTTT/CTTT	GCATCCTTGCTCACAA TCA	TAAAGGCCCAAAGAAG CAAA	59.8	415	INTERGENIC	--	--	--
Ca4_P2_27368144	Ca4	27368144	GAAAAAAA/GAAAAAAA	AGGCATTGAGCTCGAC AACT	ATTTTGCACATGGTCTT CCC	59.8	800	INTERGENIC	--	--	--
Ca4_P2_27368524	Ca4	27368524	T/TG	GGGAAGACCATGTGCA AAAT	TTGTTCCAAGCCCTAA TGC	60.1	543	INTERGENIC	--	--	--
Ca4_P2_27374369	Ca4	27374369	CTT/CTTT	TGATGCAATTCTCATT GGG	TGGAGAGTTTGTTCG AGTG	60.0	687	INTERGENIC	--	--	--
Ca4_P2_27376069	Ca4	27376069	TAA/TAAA	ATCCTCTCCATTCCTG CCT	TTGCTTTACAGTCCAA TGC	59.8	304	INTRON	Ca_21323	--	--
Ca4_P2_27378491	Ca4	27378491	TAAAAAAAAA/TAAAAAAAAA	GGATCCGTCCTCTGCA TAAA	TTTGCACAGGTGTGTT GTTG	58.2	585	DRR	Ca_21323	--	--
Ca4_P2_27379933	Ca4	27379933	CAAAAAA/CAAAAAA	ATGGTACAAAGTGGCA AGGC	GAGAAAAGCAGGGTGA ATGC	59.8	748	DRR	Ca_21323	--	--
Ca4_P2_27380010	Ca4	27380010	ATTT/ATT	ATGGTACAAAGTGGCA AGGC	GTGGACTGCAGTGGT CTTT	60.2	909	DRR	Ca_21323	--	--
Ca4_P2_27381951	Ca4	27381951	AG/AGAAAGTGGTAGCG	GAAAAGATCGAATCGG GTGA	GTGGAGACCCGGAAG ATGT	60.0	525	INTERGENIC	--	--	--
Ca4_P2_27382900	Ca4	27382900	AAC/ACACAAATCAC	TGGAATGAAAGGCACA CAAA	GTGGTGGCTTTGAAAC AGGT	60.0	649	INTERGENIC	--	--	--
Ca4_P2_27405693	Ca4	27405693	TAAAA/TAAAAA	GAGTTGGTATTTTCATT GTTTCGG	GTGGTTAAGATGGACC ACCG	60.2	531	INTERGENIC	--	--	--
Ca4_P2_27419983	Ca4	27419983	A/AC	TTGTTGGGAAATTGACA TGC	CTCACATTATCGCTAC GCCA	59.9	879	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_27421262	Ca4	27421262	AT/A	AATGATGGAAGGATG CTTG	TCGGCCAATAAATCG TTAGTT	59.9	518	INTERGENIC	--	--	--
Ca4_P2_27422554	Ca4	27422554	TGA/T	CATCAATGAGGTCACCA TCC	CCAAATGCGATAACCC TCAT	59.8	471	INTERGENIC	--	--	--
Ca4_P2_27424528	Ca4	27424528	ATTTTTTTT/ATTTTT	CGAACCAAAAGTGGAAT TGA	AAAGTTTTGTGGCCGT CTTT	58.7	733	INTERGENIC	--	--	--
Ca4_P2_27434008	Ca4	27434008	CTT/CT	GAGGAAGACAAACCTG CCAC	TTAGTGGATTGTGCGG GAAT	60.3	101	INTERGENIC	--	--	--
Ca4_P2_27480414	Ca4	27480414	ATG/A	GGCCACTACCTGGTGG ACTA	GTATCGAGCCTTTGCA CCTC	59.8	283	INTRON	Ca_21319	J	--
Ca4_P2_27483001	Ca4	27483001	ATTTTTTT/ATTTTTTT	GAAATCCAAGCCATTCT CCA	TGGTTCGGAAATAAA CACA	60.0	485	INTRON	Ca_21318	--	--
Ca4_P2_27484490	Ca4	27484490	AC/A	ACACATGTTGGTGGCTT TGA	CCAATGCTTGAGTTAT GCCA	59.7	679	INTERGENIC	--	--	--
Ca4_P2_27491121	Ca4	27491121	ATTTTTTTT/ATTTTTTT	ATGCAGCACCTAGTTTT GGC	CATGTTCTGCTGCTCTC ATGT	59.9	531	INTERGENIC	--	--	--
Ca4_P2_27491616	Ca4	27491616	TATAA/TATAAGAATAA	TACGCGCTTTCTTTCAT TCA	CGTCCCTTCCTCAAA CATA	59.9	503	INTERGENIC	--	--	--
Ca4_P2_27491848	Ca4	27491848	ATTTTTTT/ATTTTTTT	TACGCGCTTTCTTTCAT TCA	CGTCCCTTCCTCAAA CATA	59.9	503	INTERGENIC	--	--	--
Ca4_P2_27491894	Ca4	27491894	TA/T	TACGCGCTTTCTTTCAT TCA	CGTCCCTTCCTCAAA CATA	59.9	503	INTERGENIC	--	--	--
Ca4_P2_27496407	Ca4	27496407	CTG/CTGTG	TCGGAAACGAATTGGG AATA	GGAGTTTGAGAAAGGG GTCC	59.9	750	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanched scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_27499638	Ca4	27499638	TA/T	ATATGATCTAGCGCCCA CCA	ATTTTGGCAGACCAAA GGTG	60.0	763	INTERGENIC	--	--	--
Ca4_P2_27500422	Ca4	27500422	ATTTT/ATTTTTT	CACCTTTGGTCTGCCAA AAT	CATGCATGCACACATA ATTCA	59.0	533	INTERGENIC	--	--	--
Ca4_P2_27503266	Ca4	27503266	AG/AGG	GGGGTTCTCCTTGAAC CACT	CCTGCCATTTTCTTCCA AAA	60.0	343	INTERGENIC	--	--	--
Ca4_P2_27504292	Ca4	27504292	AG/A	CATTATGCCACAGGTA TCG	AACACCAACACACCAA AGCA	60.0	353	INTERGENIC	--	--	--
Ca4_P2_27511083	Ca4	27511083	AATATATATAT/AATATATATATATATA TATAT	TTCATTACGCGGGATAC GTT	CCACAAAAGTGTGGG GTTC	60.2	337	INTERGENIC	--	--	--
Ca4_P2_27512475	Ca4	27512475	CTTTTTTTTT/CTTTTTTTTT	GTTGGCTGGGTGGAA TCTA	ACGCGCTCCCTTAAC TGAT	61.1	804	INTERGENIC	--	--	--
Ca4_P2_27512574	Ca4	27512574	CAAAAAAAAA/CAAAAAAAAA	GTTGGCTGGGTGGAA TCTA	ATACGCGCTCCCTTAA CTTG	59.4	806	INTERGENIC	--	--	--
Ca4_P2_27512817	Ca4	27512817	ATTTTTTTTT/ATTTTTTTTT	TGCCTTTAGAGAAGGG TGGA	TCTCACACAAACCCCA TCA	59.9	898	INTERGENIC	--	--	--
Ca4_P2_27523736	Ca4	27523736	ATTTTTTTTT/ATTTTTTTTT	TCCTCGAGACGTTGTG TTTG	GCCTCCACGAATTTGT CATT	59.9	603	INTERGENIC	--	--	--
Ca4_P2_27530785	Ca4	27530785	CTTTTTTT/CTTTTTTTTT	TTCGAAGGTTGGGTG AATC	CCATTAAATTCGGCCC ATTA	59.6	635	INTERGENIC	--	--	--
Ca4_P2_27536967	Ca4	27536967	TCCCCCCC/TCCCCCCC	GATTTGGAATGGCTGT CGT	AGCCGTGAGAGAGGAT GAAA	60.0	492	INTERGENIC	--	--	--
Ca4_P2_27538878	Ca4	27538878	A/ATATGTTATT	AAACGGTCGTTGAGAA TGTG	AGGCTTTGAGGCTTTC ACAA	60.0	529	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_27539521	Ca4	27539521	TAA/TAACTAGTGAA	CTTGTGAAAGCCTCAA GCC	TTGATTCGTGAGTTCA TTTCAA	59.6	776	INTERGENIC	--	--	--
Ca4_P2_27539986	Ca4	27539986	ATA/ATAGATTA	TTGAAATGAACCTCACGA AATCAA	CACCCTCGCTTAGAAA AACG	59.9	542	INTERGENIC	--	--	--
Ca4_P2_27548804	Ca4	27548804	TAAA/TAAA	TTCCCCATTCTTAACAC CCA	TTCGCAACTCCACTCTT CCT	60.0	672	INTERGENIC	--	--	--
Ca4_P2_27551058	Ca4	27551058	TGG/TG	CATGTGATGTGTTTTTC CGC	TAACCGCATTCCAATT GTT	60.2	580	INTERGENIC	--	--	--
Ca4_P2_27555037	Ca4	27555037	GCTCC/GCTCATCCTCC	CCAACAACACAGATGCA ACC	TGCGCTTTCCTTTGTTA TGA	59.4	527	INTERGENIC	--	--	--
Ca4_P2_2755654	Ca4	2755654	CAAAAA/CAAAAAA	AATTCGTTGCACAATTT GGTT	GCATGCTAAATGCCAT CGTA	59.7	801	INTERGENIC	--	--	--
Ca4_P2_27564213	Ca4	27564213	ATTTTTTT/ATTTTTTTT	TAGCTTGACAACCCCAA ACC	CCAATGTCAGGTTAG AAGCA	60.1	900	INTRON	Ca_21314	--	--
Ca4_P2_27574074	Ca4	27574074	AAGAGAG/AAGAG	CGTGTGGGGATGCTTA ACTT	AACCACTCAAGTGTTT GGGC	60.0	453	INTRON	Ca_21314	--	--
Ca4_P2_27574473	Ca4	27574473	ATTTTTTTTTTT/ATTTTTTTTTT	CACCCCTACCTTGACCC CTT	GCTCGTATGCGTCAAT TCAA	59.8	571	INTRON	Ca_21314	--	--
Ca4_P2_27580274	Ca4	27580274	GAAAAAAA/GAAAAAAA	TGGGGTCCATGTACCA CTTT	AAGAAATGCGCTCAG GTGC	60.3	305	INTRON	Ca_21314	--	--
Ca4_P2_27586048	Ca4	27586048	T/TC	AAAACCAAGCAGTGG TCTG	CCAGGATCTCGTTGTC CCTA	60.1	651	INTRON	Ca_21314	--	--
Ca4_P2_27594072	Ca4	27594072	CTTTTTTT/CTTTTTTTTT	ATCAGAGGTTGCGCAA AAAT	TTTCCTTCCAAATTAC GCC	59.1	668	INTRON	Ca_21314	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_27603513	Ca4	27603513	TTTATTATT/TTTATT	TGGGATAGGGACGTTG GTTA	ACGCCCTGGAAACAAT ACAG	60.0	701	INTRON	Ca_21314	--	--
Ca4_P2_27604352	Ca4	27604352	AAATGTTGATAAT/AAAT	ATTAGGAGTCTTGCTGC CCA	CCCTCCGAACCTCTCAA ACAG	59.8	320	INTRON	Ca_21314	--	--
Ca4_P2_27629377	Ca4	27629377	GAA/GA	ATTCATGCATTGCTCCA ACA	TCTCCAGTTTTGGTCTC CCA	60.6	448	DRR	Ca_21311	--	--
Ca4_P2_27631111	Ca4	27631111	GTTTTTTT/GTTTTTTT	ATCAACGCGATAATTGG AGC	TGCATGCAACAATCAA GAAA	58.8	813	INTERGENIC	--	--	--
Ca4_P2_27637430	Ca4	27637430	TG/TGG	TTTGGAGTGGTGGTTC TCAA	CCAATGATTTTCATGCC ACA	60.3	482	DRR	Ca_21310	--	--
Ca4_P2_27639809	Ca4	27639809	TCC/TC	TTTTGCAAGTGATTTC ACG	GCAAGTTGTTTGTGTC GTGT	59.8	626	INTERGENIC	--	--	--
Ca4_P2_27639986	Ca4	27639986	CTTTTTTTTTTTTT/CTTTTTTTTTTT	ACGGTGTTTACGATCGT TCC	TAATCAGTCCCCAAC GGAG	59.9	585	INTERGENIC	--	--	--
Ca4_P2_27647933	Ca4	27647933	CC/CCACTAC	TTGTCCACGATACATGC GTT	GCGGGTGGTTGCTAAA GTAG	59.8	542	INTERGENIC	--	--	--
Ca4_P2_27649411	Ca4	27649411	TTTTATT/TTTT	AAAATAAGGCATGGTGT TGGA	TAGTTTGTAAACCGTG CGTC	58.7	256	INTERGENIC	--	--	--
Ca4_P2_27656062	Ca4	27656062	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AA	GCGAGCATGAGAAGTT GTTG	TTTAAAAAGACTCCCG ATGTCA	57.8	101	INTERGENIC	--	--	--
Ca4_P2_27673654	Ca4	27673654	TAGAGAGAGAGA/TAGAGAGAGAGAGA	TCGAAGAAATGGCGAA GAGT	GTATGCCTTTGCACTC CGTT	60.1	250	INTERGENIC	--	--	--
Ca4_P2_27689404	Ca4	27689404	GATAT/GAT	TGCGTCATAAAATGGCT TGA	GGATGAGCTGACCCCT TACA	60.1	419	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_2787061	Ca4	2787061	GAAAAAAAA/GAAAAAAAA	CCTTTGCAAATTCGGT CAT	CGTTATTTGTTTCGGCA GGT	60.0	724	INTERGENIC	--	--	--
Ca4_P2_27908754	Ca4	27908754	ATTTTTTTTT/ATTTTTTTTT	AGAAACCAACCTTGCC ATTG	TGTGTCAGAAGGATCT TGCG	60.0	537	INTERGENIC	--	--	--
Ca4_P2_27918921	Ca4	27918921	CAAAAA/CAAAAA	GCCTCAAGCAATTTGTG GAT	CCTTAAAGTGCGCAAA CACA	59.9	507	INTERGENIC	--	--	--
Ca4_P2_27919596	Ca4	27919596	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CATGATGGCGATGTAG GATG	ACCCAACACAATCCGT TGAT	60.1	552	INTERGENIC	--	--	--
Ca4_P2_27919988	Ca4	27919988	ATTTTTTTTT/ATTTTTTTTT	ATCAACGGATTGTGTTG GGT	GTATGTGGGTTTGTAT GGGC	60.1	210	INTERGENIC	--	--	--
Ca4_P2_27920147	Ca4	27920147	GTATATATATATAT/ATATATATATAT ATATATAT	GCCCATCAAAACCCACA TAC	CACAATCCTTTTCAACC GCT	60.1	466	INTERGENIC	--	--	--
Ca4_P2_27928820	Ca4	27928820	CACAAC/CACAACAAC	AGCGATGCATGTCTCA AGTG	AGCGCTTTGTGACCTC CTTA	60.0	754	INTERGENIC	--	--	--
Ca4_P2_27929931	Ca4	27929931	GTTTT/GTTTT	CCTTCTCATTGCGAACC CTA	TGGTTGCACCACATTT GACT	60.0	427	INTERGENIC	--	--	--
Ca4_P2_27932993	Ca4	27932993	CATATATATATATATA/CATATATATA TATATA	TGGGTGCTATTTGCAAT CAA	CTTGACGATGCAATTT CTC	59.6	469	DRR	Ca_21300	--	--
Ca4_P2_27943723	Ca4	27943723	ATTTTT/ATTTTT	CGATTGAATTAAGCCCA GGA	TCTCCATTTTCGTCGT AGG	60.1	403	INTERGENIC	--	--	--
Ca4_P2_27951126	Ca4	27951126	CTT/CTTTCATTT	TGTGTAACCTCCCCCAT GAT	AAAGGGCACCAAAATAC TCCA	59.4	858	INTERGENIC	--	--	--
Ca4_P2_27954238	Ca4	27954238	A/AT	ACTTCTTGACCATGCCA ACC	CCATTAGTGTTGTGTTG CCCT	59.9	466	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_27960253	Ca4	27960253	GTITTTTTTTT/GTITTTTTTTTTT	CACCATACCAATGTTG CCA	TGCACGCTCAAATGAT TTTT	59.3	757	INTERGENIC	--	--	--
Ca4_P2_27981509	Ca4	27981509	GTITTTTTTTT/GTITTTTTTTTTT	ATGCTCGTCTGGAACC AAAG	TACCCCAAATTCTAAGC CCC	60.1	433	INTERGENIC	--	--	--
Ca4_P2_28022155	Ca4	28022155	CGT/C	ATTGTCTTGTTTGCTTG CCC	AACACAGCCACAATGT TCCA	60.0	354	INTERGENIC	--	--	--
Ca4_P2_28025126	Ca4	28025126	TGTGGTG/TGTGGTGGTG	TTCATCAAACCTCTACG AACGA	TTGTGCGATGACTGCTTT TGG	59.8	892	INTERGENIC	--	--	--
Ca4_P2_28026871	Ca4	28026871	TAAGAA/TAAGAAGAA	GACATCACACCAATTGCG ACG	TTTTGAAGGAGATGGG GTTG	59.9	885	INTERGENIC	--	--	--
Ca4_P2_28042488	Ca4	28042488	T/TG	GTCCTTTTCCTTGCC TTC	CCTGAGGATAGCCTCG TGAA	60.4	159	INTERGENIC	--	--	--
Ca4_P2_28045732	Ca4	28045732	TGAAGAAG/TGAAG	AAGAAACGGTAAGGTT CGGG	CGCATTGTCCCATCTC TCTT	60.2	220	INTERGENIC	--	--	--
Ca4_P2_28053081	Ca4	28053081	G/GT	GCGATTGATTTGGTG ACTT	AAAATATTGGGGCCT ATGG	59.9	218	INTERGENIC	--	--	--
Ca4_P2_28062048	Ca4	28062048	GTITTTTTT/GTITTTTTTTT	TCAACAATTGTAATTGA CTATCAACG	TATAGGCCGATCAGTC AGGC	60.2	771	INTERGENIC	--	--	--
Ca4_P2_28087494	Ca4	28087494	CAAAAAAAAA/CAAAAAAAAA	TTTGGATCAATCAACGT CGTA	TCAAAAACCACAACCAC CAC	59.3	738	INTERGENIC	--	--	--
Ca4_P2_28093890	Ca4	28093890	GAA/G	GAGAGTGCTCCTTTGG GAAA	GGGAAAAATTGCTTGG TGAA	59.9	300	DRR	Ca_23175	--	--
Ca4_P2_28108572	Ca4	28108572	TAAAAAAAA/TAAAAAAAA	GCAATGTTGGCGAAG TACA	AGTGTGTGCTTGTTGG ATCA	60.2	301	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28109349	Ca4	28109349	ATTTTT/ATTTTTT	CGGGGTAGGGTTTA GAGA	GCTGCTGGTTGTCT ATGA	60.0	491	INTERGENIC	--	--	--
Ca4_P2_28112014	Ca4	28112014	GTA/GTATA	TGTCAATGACGAACATT TATTCA	CAAGAATCGTCTTGTCT ATCCA	60.1	399	INTERGENIC	--	--	--
Ca4_P2_28120543	Ca4	28120543	TAAAAA/TAAAAAA	CCAACTCCCTTCCCTT TTA	CAATACGAGCACCTGG CTCT	60.4	994	INTERGENIC	--	--	--
Ca4_P2_28120712	Ca4	28120712	ATTTTTTTTT/ATTTTTTT	CATCAGTCAAACGCACA AAAA	CAATACGAGCACCTGG CTCT	60.4	433	INTERGENIC	--	--	--
Ca4_P2_28122657	Ca4	28122657	GAAAAAAAAA/GAAAAAAAAA	CCCCGAGTTTGAGAAA TTGA	CCTCCCGTCTCTTTCT TTC	60.2	393	INTERGENIC	--	--	--
Ca4_P2_28131945	Ca4	28131945	TAGAA/TA	CGGCAATTGAGGGTTA AAGA	GAGGCCTTTCAAGTAC ACGC	59.9	344	INTERGENIC	--	--	--
Ca4_P2_28145617	Ca4	28145617	AA/AAATAATAGA	TGGAAATGAATCACCG GAAT	TTTTCAAATGGCATG GGT	60.2	703	INTERGENIC	--	--	--
Ca4_P2_28146035	Ca4	28146035	CTA/CTATA	TTTTGGCTGCAAAATC CAT	TCAAAACCCACACACA CAA	58.4	881	INTERGENIC	--	--	--
Ca4_P2_28146419	Ca4	28146419	TG/T	CCTTGTAATTGTGTGTG TGGG	AATCCTGTATGGGGA AAGG	60.0	438	INTERGENIC	--	--	--
Ca4_P2_28147858	Ca4	28147858	AT/ATTTAATAATTT	GGGAAAGCCCCAAAC TAAG	TCCAACTCGATTATG ACCA	59.9	424	INTERGENIC	--	--	--
Ca4_P2_28148545	Ca4	28148545	ATACTACT/ATACT	TGGTCATAATCGACGTT GGA	CTGCAAGCAGCAGAAG AACA	60.5	956	INTERGENIC	--	--	--
Ca4_P2_28159857	Ca4	28159857	TAAAAAAA/TAAAAAAA	TTTGGGGTACAAGGG AAAT	TGCAACCTCATACTGG GAAA	59.1	645	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28159950	Ca4	28159950	ATTTTT/ATTTTTTT	AGTCAATGGTTGGG CTCT	TGCAACCTCATACTGG GAAA	59.1	584	INTERGENIC	--	--	--
Ca4_P2_28160415	Ca4	28160415	GAAAAA/GAAAAAA	CAAAATGCCCTTGGCA CTA	TGACACGTTGTTGTTT TGACA	60.1	457	INTERGENIC	--	--	--
Ca4_P2_28161200	Ca4	28161200	AACGGAC/AAC	CCCCGTAAATGCGATAT CAAG	TTAAACACCCCTCCTCA AGC	59.2	585	INTERGENIC	--	--	--
Ca4_P2_28169092	Ca4	28169092	GC/G	TTTTTGCCATTCAAA ACA	AAATGCGTCAGCCAG TAAG	60.3	829	INTERGENIC	--	--	--
Ca4_P2_28169343	Ca4	28169343	TAAAAAAA/TAAAAAA	GGGGTGAGAAAAGAT GTGG	AAATGCGTCAGCCAG TAAG	60.3	180	INTERGENIC	--	--	--
Ca4_P2_28173222	Ca4	28173222	CTTTTTTTTT/CTTTTTTTT	ACCTAACCTCCAAGC CAGT	TTTTCCCTCTCACACC ACC	59.9	910	INTERGENIC	--	--	--
Ca4_P2_28179172	Ca4	28179172	TAAAAAAA/TAAAAAAA	CGGCTCACGTTTATTTG TTG	TTCCACATTTTCCCT CAA	60.3	485	INTERGENIC	--	--	--
Ca4_P2_28179566	Ca4	28179566	AGGGG/AGGGGG	TGGGTAAAGTTCTGCC CACT	TAGCATGCTCGAAAC GAAA	59.6	129	INTERGENIC	--	--	--
Ca4_P2_28179824	Ca4	28179824	ATT/ATTT	TGAGGGGAAAAATGTG GAAA	ATCTCCCTTCTCGCTCT TCC	59.9	623	INTERGENIC	--	--	--
Ca4_P2_28180097	Ca4	28180097	ATTTTTTTT/ATTTTTTTT	TCGAGCATGCTATAGTC CGA	ACCAATGTCCAACGGG AATA	60.1	869	INTERGENIC	--	--	--
Ca4_P2_28184015	Ca4	28184015	A/ACG	TCACAAGTTTGGGTT GTCA	ACGCAAGTCAACAAA GGTC	60.2	641	INTERGENIC	--	--	--
Ca4_P2_28184807	Ca4	28184807	ATTT/ATTTT	GACCTTTGTTGACCTTG CGT	TGTTGAGTTGGAGATG AAGCA	59.4	595	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_2819881	Ca4	2819881	TAAAAA/TAAAAAA	TTGTTACCTCAATCGT GGG	TTGCCCCCTACAAC CCAC	60.0	674	INTERGENIC	--	--	--
Ca4_P2_28206465	Ca4	28206465	AACA/AACACA	CCAAATGCCTCCAGA TGT	TCCTGTCCAGAAGCT TGCC	60.4	643	INTERGENIC	--	--	--
Ca4_P2_28206696	Ca4	28206696	CATC/CATCGATC	GGGATGATAATCGG TAGC	TGCATCGTCAAAAC AACA	59.1	300	INTERGENIC	--	--	--
Ca4_P2_28209971	Ca4	28209971	T/TA	ATTGATGAGCGAAT GAAC	AATTCCTCTTTTGG TGT	59.9	891	INTERGENIC	--	--	--
Ca4_P2_28213499	Ca4	28213499	CTTTTTTT/CTTTTTTTT	ACTGACCTGACCTAG GCTG	GTTGCAAAATTGGT GTCTGC	59.2	646	INTERGENIC	--	--	--
Ca4_P2_28213716	Ca4	28213716	T/TCAA	AATTGCAGACCAAT TTGC	GTGTGGACGCGCAC ATT	60.6	390	INTERGENIC	--	--	--
Ca4_P2_28214061	Ca4	28214061	CA/CATA	AATTGCAGACCAAT TTGC	CAGACATGGGCCAT CAATA	59.4	739	INTERGENIC	--	--	--
Ca4_P2_28214278	Ca4	28214278	ATATAATT/AT	TCCGAGTCTAATCG GCTAA	TGGAAAAGGGAGCC AATATG	59.9	539	INTERGENIC	--	--	--
Ca4_P2_28214353	Ca4	28214353	GACAA/GACAACAA	TCCGAGTCTAATCG GCTAA	TGGAAAAGGGAGCC AATATG	59.9	539	INTERGENIC	--	--	--
Ca4_P2_28237673	Ca4	28237673	CCCTTA/C	TTCTGCAAGATTTG TGGCG	GCAGTTTCGTGCTA AGGAGG	60.0	675	INTERGENIC	--	--	--
Ca4_P2_28238860	Ca4	28238860	GTTTTTTT/GTTTTTTTTTTT	CTGTCCCTTAGAAG GGGTCC	TTTGGAGCAAAAGG AAGCCTG	60.2	729	INTERGENIC	--	--	--
Ca4_P2_28246910	Ca4	28246910	TAAAAA/TAAAA	AGGCGTGCCACTTT CTCTA	TCAGCCACTCAATG TGTGCTC	60.0	518	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_28254483	Ca4	28254483	CAACAA/CAACAAGACAAACAA	GGGGAAGCTCTCCAAGT CACA	CGTGAAACCAACCTT GTCT	60.0	703	INTERGENIC	--	--	--
Ca4_P2_28274340	Ca4	28274340	CAAAAAAAAA/CAAAAAAAAA	CCAGAAGCAGAAAAAC CAGG	TTTGAACTGTCGCGA CTCA	60.6	631	INTERGENIC	--	--	--
Ca4_P2_28275123	Ca4	28275123	ACAAATAAGTGGCAAATAAGT/ACAAAT AAGT	AAACATTGCCGATCGAT TTC	TTTGTCTGGTAACACC CCA	58.9	336	INTERGENIC	--	--	--
Ca4_P2_28277260	Ca4	28277260	CT/CTACAAAT	GCCTACACGCAACAAT GAGA	TGTGGATCAGTTTGG AGAA	59.1	200	INTERGENIC	--	--	--
Ca4_P2_28277388	Ca4	28277388	AATATATATATA/AATATATATA	GCCTACACGCAACAAT GAGA	AAGTTTTTCTAAACCGC AATTTTT	58.8	423	INTERGENIC	--	--	--
Ca4_P2_28277547	Ca4	28277547	CAAAAAAAAA/CAAAAAAAAA	GCCTACACGCAACAAT GAGA	TTGTGGTCATTCAAAT CCTTTT	59.7	818	INTERGENIC	--	--	--
Ca4_P2_28280754	Ca4	28280754	TTGAAATATGAAATATGAAATA/TTGAAA TATGAAATA	GGGCGTCTGATCCTAA TTGA	TGCACTAAATCACCATC CCA	59.9	707	INTRON	Ca_23166	TR	FAR1
Ca4_P2_28281644	Ca4	28281644	CTAT/CTATATAT	ATGCAAGTGGCCAAAA GAAC	ACCAAGAAATGCCTTCT GGA	59.7	405	INTRON	Ca_23166	TR	FAR1
Ca4_P2_28282850	Ca4	28282850	GTTTTTTTT/GTTTTTTTTT	AAAAACAAAGACTCGG GGAA	CACACACACAACATCC CCAT	60.1	434	DRR	Ca_23166	TR	FAR1
Ca4_P2_28284800	Ca4	28284800	AAAGAAGAAGAAGAAGAAG/AAAG AAGAAGAAGAAGAAG	TTGAATCCTCATTTCTG CCC	CCTTCCACCGAGTCAA CATT	60.0	813	INTERGENIC	--	--	--
Ca4_P2_28287770	Ca4	28287770	T/TC	TTCACAGTTTGGGAC ATCA	CCTCCATTGGCTAGTT GGA	60.1	574	INTERGENIC	--	--	--
Ca4_P2_28289460	Ca4	28289460	TAAAAAAAAA/TAAAAAAAAA	TTGCATTGCACTTCTTT TGC	CGGTGATGCCTCTGTT TCTT	60.3	585	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28296294	Ca4	28296294	TNNNNNNNNNN/TNNN	TTGCTTAATTGGGTCAA GTGG	GTTGGCAGTGTGAGCA GCTA	60.2	469	INTERGENIC	--	--	--
Ca4_P2_28298251	Ca4	28298251	ATTTTTTT/ATTTTTTTTT	CGGATACAATGCTTGCT TGA	CAAACCGACGCCAACT AAAT	60.0	589	INTERGENIC	--	--	--
Ca4_P2_28306771	Ca4	28306771	CAAAAAAAAA/CAAAAAAAAAA	TGATGGTCCATGAAC GACAT	CGAGCCAAAATCCAAA ACAT	59.9	430	INTERGENIC	--	--	--
Ca4_P2_28320855	Ca4	28320855	ATTTTTTTT/ATTTTTTTT	TGAGAAACGGCAAAAC ACAA	AAATATTGGGCATGTG AGCC	59.8	450	INTERGENIC	--	--	--
Ca4_P2_28321240	Ca4	28321240	TAAAAAAAA/TAAAAAAA	AGGTCCCGACCCATTA TTTT	ACCAACCAACGCTCAA TTTC	60.0	486	INTERGENIC	--	--	--
Ca4_P2_28321521	Ca4	28321521	CCGTACAGGCGTACA/CCGTACA	TCGAGTTGTGAAATTGA GCG	GCTGAAGAACCCGAGA AAGA	59.6	202	INTERGENIC	--	--	--
Ca4_P2_28330076	Ca4	28330076	AT/ATT	CACAGGCAGCTGAGTA GCAA	TTGTTGTTGACATGG ACAAT	58.9	704	INTERGENIC	--	--	--
Ca4_P2_28331028	Ca4	28331028	CAAAAAAAAA/CAAAAAAAAA	CTTGAAGGGACGGCTA GATG	TTGCCATAATGTTGAGA AGGG	59.9	458	INTERGENIC	--	--	--
Ca4_P2_28335781	Ca4	28335781	A/AT	CCCAGTTCTTGAGCAT GACA	TGGACAAAACTTTGGT GCTTC	60.1	783	INTERGENIC	--	--	--
Ca4_P2_28336543	Ca4	28336543	TAAAAAAAAA/TAAAAAAAAA	CAAAGCAGGGAGTTTC CATC	TGGTTTAAGTCCTCG CTGT	59.7	723	INTERGENIC	--	--	--
Ca4_P2_28336605	Ca4	28336605	CAAAAAAAAAAAAA/CAAAAAAAAAA A	CAAAGCAGGGAGTTTC CATC	TGGTTTAAGTCCTCG CTGT	59.7	723	INTERGENIC	--	--	--
Ca4_P2_28338433	Ca4	28338433	GTTT/GTT	TGACTCGGGCTGCAGA TTAT	GCTTTGAGCCCCATGA AATA	60.0	739	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_28338753	Ca4	28338753	TGGGGCT/TGGGGCTTAAGAGAGGGG GCT	AAGACCACCGGTGTT ATGG	TCAATTTGACAAGCCC CTTA	58.2	724	INTERGENIC	--	--	--
Ca4_P2_28342637	Ca4	28342637	GCCC/GCCCC	TCACAAATCCTGGTGGT TGA	GGAAGAAAGCAATGGT GGAA	60.1	359	INTERGENIC	--	--	--
Ca4_P2_28346696	Ca4	28346696	A/AT	ACCACAGGTGAAAGAA ACCG	TTTCAACTCTATCCGT AGCCC	59.6	340	INTERGENIC	--	--	--
Ca4_P2_28351841	Ca4	28351841	CTTAAT/CTTAATTAAT	GAGTTCGATTCTATCA TCACCA	TGCATTGCAAACTCAG AGG	58.5	572	INTERGENIC	--	--	--
Ca4_P2_28360547	Ca4	28360547	ATTTT/ATTTT	ATGGACATAGCAATTG GCGT	GTCATTTTGGTGAACC GGAG	60.4	520	INTRON	Ca_23163	AYT	MYB
Ca4_P2_28367927	Ca4	28367927	GGA/GGAGA	GAAAAGACGGCGATGA AGAA	ACTATGGAGCTGGATG GCTG	60.2	803	DRR	Ca_23163	AYT	MYB
Ca4_P2_28368172	Ca4	28368172	G/GA	CCAATAATGGCTTTGGC AAT	AGCCCCCTCTTGACA CTCA	60.0	453	DRR	Ca_23163	AYT	MYB
Ca4_P2_28372178	Ca4	28372178	TTTATGT/TT	TTTGATAAACCCCGTGA TCC	TGGAGCAGTTTTTCAA CCAA	59.3	572	INTERGENIC	--	--	--
Ca4_P2_28372820	Ca4	28372820	ATTTT/ATTTT	TAAGGGAAGGGGCTCT AGGA	CCCCTAAAATTTAAAG GCCC	60.0	389	INTERGENIC	--	--	--
Ca4_P2_28372972	Ca4	28372972	A/AT	TAAGGGAAGGGGCTCT AGGA	CCCCTAAAATTTAAAG GCCC	60.0	389	INTERGENIC	--	--	--
Ca4_P2_28373073	Ca4	28373073	AC/A	TAAGGGAAGGGGCTCT AGGA	CCCCTAAAATTTAAAG GCCC	60.0	389	INTERGENIC	--	--	--
Ca4_P2_28375729	Ca4	28375729	CAAAAAAAAA/CAAAAAAAAA	GTGTTTGACTGCACGC TTGT	GATGGGGTTTGTGGT TAGA	59.6	630	DRR	Ca_23162	C	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28380287	Ca4	28380287	ATTTT/ATTTT	ACTTTTCTCATTTTAA GTCATCAAAT	CTTCAAAGTTGCCGT GATT	60.1	919	INTERGENIC	--	--	--
Ca4_P2_28380372	Ca4	28380372	CGT/C	AAATTGTCTTTTGGAC AATCTTTA	CTTCAAAGTTGCCGT GATT	60.1	489	INTERGENIC	--	--	--
Ca4_P2_28382490	Ca4	28382490	CTTAATAG/CTTAATAGCTAATAGGTTA ATAG	TCAAACGAACCTGAACC CTT	TGTTGGATTTTGGAGG TTCA	58.9	489	INTERGENIC	--	--	--
Ca4_P2_28385530	Ca4	28385530	TAAAAAA/TAAAAAAA	AGCGCATATAGGGAAG CAAA	TGACGCCCTCTCTCAT TACA	59.4	608	INTERGENIC	--	--	--
Ca4_P2_28389709	Ca4	28389709	T/TA	GTTCTTGCCAAGTGCT GAT	CACCCGAATCCATTAT TTG	60.0	520	INTERGENIC	--	--	--
Ca4_P2_28390462	Ca4	28390462	TAA/TAAA	GTCATCAAAAGCCGAC GAAT	GGCCCACAATTTTGAA GAGA	60.1	786	INTERGENIC	--	--	--
Ca4_P2_28401904	Ca4	28401904	AT/ATT	ACTTGGATGAAGGGAA AGGG	GCATTTGCAAAAATTT GAA	58.8	561	INTERGENIC	--	--	--
Ca4_P2_28401988	Ca4	28401988	TAATTAA/TAATTAATTAATAAAATTAA	ACTTGGATGAAGGGAA AGGG	GCATTTGCAAAAATTT GAA	58.8	561	INTERGENIC	--	--	--
Ca4_P2_28403960	Ca4	28403960	TCTCT/TCTCCTCCT	CGTTTAAGTCGACGTG CCAT	TGCACTTGTTACGTG AGTG	59.5	721	INTERGENIC	--	--	--
Ca4_P2_28414876	Ca4	28414876	CAAT/CAATAAT	GCCCCATGTTTGCTT AAT	GGATTGAGCATCCGTC AAGT	60.1	741	INTERGENIC	--	--	--
Ca4_P2_28420944	Ca4	28420944	TAAAGTTAGAAGAA/TAA	GTGTGGGCGGAAAAAT CTAA	CACAGTGAAAAACCGA TGGA	59.5	693	INTERGENIC	--	--	--
Ca4_P2_28421267	Ca4	28421267	TAAAAA/TAAAAA	GACAAAAGACGTGATT GGGA	TGCATGGAAAGCTGTG GTAG	59.9	639	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28421518	Ca4	28421518	T/TA	CCAATCCATCGGTTTT CAC	TGCATGGAAAGCTGTG GTAG	59.9	472	INTERGENIC	--	--	--
Ca4_P2_28423269	Ca4	28423269	T/TA	TAGGTTTCCCATGTG GTGT	AGCACTGCCCTTAG GAGT	60.3	697	INTERGENIC	--	--	--
Ca4_P2_28424700	Ca4	28424700	TC/T	TTAGGCTATGTTGGC GGTC	ATTGTCTCCATCGGAG CATC	60.0	280	INTERGENIC	--	--	--
Ca4_P2_28443084	Ca4	28443084	AAT/AATAT	CGATGAACCTGCGGTTT CTA	CCACATTGTTCCAAC CCA	59.4	658	INTERGENIC	--	--	--
Ca4_P2_28447880	Ca4	28447880	ATTTTTTTT/ATTTTTTTT	TCTTCTGTGTGAGCGG ATTG	GCTCAACCTTGAGACC AAGC	60.0	252	INTERGENIC	--	--	--
Ca4_P2_28452206	Ca4	28452206	CAAAAAAAAA/CAAAAAAAAA	CAAACTCCGCACTGCA CTA	ACAAATGGAACCAAC CGTA	60.1	473	INTERGENIC	--	--	--
Ca4_P2_28457671	Ca4	28457671	TCTCTA/TCTCTATTTAACTCTA	TACAAGCACCTGACC CTCC	CCCAATCAAAGCAAG CAAT	60.1	765	INTERGENIC	--	--	--
Ca4_P2_28458251	Ca4	28458251	CAAAA/CAAA	ATTGCTTGCTTTGATT GGG	GAAGAAATCTTTGACC AAGTTGAA	60.0	486	INTERGENIC	--	--	--
Ca4_P2_28497621	Ca4	28497621	TAAAAAAAA/TAAAAAAAAA	TCAATTTTCATGTATTC TTGGGG	TTGTCTGATTGATGCA ATGTCAG	60.0	577	INTERGENIC	--	--	--
Ca4_P2_28497882	Ca4	28497882	TC/T	TCAATTTTCATGTATTC TTGGGG	GGTTTTGCGAGGAAA ATTG	59.6	823	INTERGENIC	--	--	--
Ca4_P2_28501292	Ca4	28501292	AAATATTTTATTATT/AAATATTTTATTAT TAATATTTTATTATT	GCACGCACACATATA CCC	TTTGCAGGCACAAAAG ACAG	60.0	747	INTERGENIC	--	--	--
Ca4_P2_28505491	Ca4	28505491	TAAAAAAAA/TAAAAAAAAA	GGATTTACGGTGGTC TTTT	TCACACACCTCAAAAC CCT	60.4	433	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28511873	Ca4	28511873	CAA/CA	CCGAGTGCTTTGACCC T TAG	TCTTCACTCAAGCAAAA CTCCA	60.0	687	INTERGENIC	--	--	--
Ca4_P2_28513752	Ca4	28513752	ATTTT/ATTTT	CTATTCCGTGAACAACC CGT	TCACTATGGTGTAACAA AATTGGTAA	58.9	738	INTERGENIC	--	--	--
Ca4_P2_28516643	Ca4	28516643	TCTAA/TCTAACTCTAA	TAATCTTCGGCGAAAC GCT	TAACAATCTGGTGCTG CTCG	60.0	897	CDS (large-effect mutations)	Ca_26231	--	--
Ca4_P2_28529463	Ca4	28529463	TC/T	CATGGAAGCGTATGTC GATG	ACCTGCCCCTAGACCA ATTG	60.3	311	INTERGENIC	--	--	--
Ca4_P2_28534748	Ca4	28534748	ATTTTTTTTTT/ATTTTTTTTTT	TGGTCAACATGCCAAA GAAA	TTGTTTTCTCTCAAAC AAATG	59.0	958	INTERGENIC	--	--	--
Ca4_P2_28535714	Ca4	28535714	TTT/TTTATT	GCCAGCTCCAATTACAA TGC	CATGTCCTTTGAATTT GATCAGC	60.0	816	INTERGENIC	--	--	--
Ca4_P2_28552997	Ca4	28552997	CTTTTTTTTTT/CTTTTTTTTTT	TTTGCATGGAGATGGTT TGA	TCATGCGGTTAAAATGT GGA	59.9	437	INTERGENIC	--	--	--
Ca4_P2_28554798	Ca4	28554798	TAGAG/TAG	TGGTACCCAATGCCAAT TCT	AACCGCCCCCATTTTAT ATC	59.9	732	INTERGENIC	--	--	--
Ca4_P2_28559705	Ca4	28559705	AT/ATT	TGATCATCGAGGAGCA AACA	CATCTCTTGTTCGGG TGGT	60.0	722	INTERGENIC	--	--	--
Ca4_P2_28563243	Ca4	28563243	TG/T	GCAGACTTTGGCAGTG AACA	AGATCTATGCATCGGC AACC	60.1	575	INTERGENIC	--	--	--
Ca4_P2_28581706	Ca4	28581706	CAAAAAA/CAAAAAA	ATGGGAGAGGGGAAGA AAGA	AATTGGTGTGGGAAA TGAA	60.0	585	INTERGENIC	--	--	--
Ca4_P2_28581947	Ca4	28581947	TAAAAA/TAAAAA	CATTTCCCAACCAAT TTC	AAGGATGATGATTGTG CATGT	57.9	379	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28581991	Ca4	28581991	CAAAAAAAAA/CAAAAAAAAA	CATTCCCCACCAAT TTC	AAGGATGATGATTGTG CATGT	57.9	379	INTERGENIC	--	--	--
Ca4_P2_28591975	Ca4	28591975	TTATATATATATATA/TTATATATATAT ATATATATATA	ATCGATGCGACCACAT GTAA	TGGGGTTCAAAGAAAG GTCA	60.5	245	INTERGENIC	--	--	--
Ca4_P2_28592937	Ca4	28592937	CTTCTCATTTCTCATTTCT/CTTCTCA TTTTCT	TTTGGTAGTTTTTGCCG AGC	CGTCGTCGATGCTCT TTCA	60.0	478	INTERGENIC	--	--	--
Ca4_P2_28623056	Ca4	28623056	A/AGAATTGG	ATATGTTGCGCACAAA TGA	TGTCCGAAACATTAAAC CCA	58.9	704	INTERGENIC	--	--	--
Ca4_P2_28623236	Ca4	28623236	ATTTTTTT/ATTTTTTT	GAAATGTTGAATGTGTG CCG	TGTCCGAAACATTAAAC CCA	58.9	249	INTERGENIC	--	--	--
Ca4_P2_28714992	Ca4	28714992	GATAT/GAT	AGAGCCAACGCTCATA GGAA	TTAAATCCCTCCTCG GCT	60.0	531	INTERGENIC	--	--	--
Ca4_P2_28770606	Ca4	28770606	ATTT/ATTTT	AACACCTGTGGTCCCTT AACTT	CCGACAAGTTTGGATG TCTG	59.1	970	INTERGENIC	--	--	--
Ca4_P2_28783066	Ca4	28783066	TAAA/TAA	AGGAGAGAAAGTGTTT GGCA	ATGAAGGAGCAAGCTT TCCA	60.0	711	INTERGENIC	--	--	--
Ca4_P2_28783547	Ca4	28783547	CTTTTTTTT/CTTTTTTTTT	TGGAAGCTTGCTCCTT CAT	CAAGTGATGTTGCCTA TTCTGG	59.6	124	INTERGENIC	--	--	--
Ca4_P2_28791900	Ca4	28791900	TCACA/T	TGCCCTCATGTTATC CTA	CACAGAGTTCGACACC GCTA	60.0	580	INTERGENIC	--	--	--
Ca4_P2_28793395	Ca4	28793395	TAA/TAAAAACAA	CCAAAATTACACCAACG GTTC	TTGTTGCGATGCTCATT CTC	60.0	275	INTERGENIC	--	--	--
Ca4_P2_28806476	Ca4	28806476	TT/TAT	TGTTTGTTTTGCAAGC AGG	GCAAGAAGCCATCCAC AAGT	60.3	351	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28822073	Ca4	28822073	TA/TAA	ATTGAGATGGCGAT CTTG	AACACCATTTGCGAA GAAG	60.1	646	INTERGENIC	--	--	--
Ca4_P2_28822156	Ca4	28822156	TC/T	AAGCGAAAAGTGAT GTTA	AACACCATTTGCGAA GAAG	60.1	361	INTERGENIC	--	--	--
Ca4_P2_28823076	Ca4	28823076	TCC/T	TCAGTCAACAAATCAT GGTAATACA	TTCTCAAGATGGTCAA CAACTCA	59.8	733	INTERGENIC	--	--	--
Ca4_P2_28823148	Ca4	28823148	TAAAAAAA/TAAAAAAA	TCAGTCAACAAATCAT GGTAATACA	TTCTCAAGATGGTCAA CAACTCA	59.8	733	INTERGENIC	--	--	--
Ca4_P2_28823207	Ca4	28823207	ACC/AC	TGGTTTTAATGTGTGCA TTTTATG	TTCTCAAGATGGTCAA CAACTCA	59.8	266	INTERGENIC	--	--	--
Ca4_P2_28823256	Ca4	28823256	CAAAAA/CAAAAA	TGGTTTTAATGTGTGCA TTTTATG	TTCTCAAGATGGTCAA CAACTCA	59.8	266	INTERGENIC	--	--	--
Ca4_P2_28823535	Ca4	28823535	AAATAATAATAATAATAATAATA /AAATAATAATAATAATAATA	TGAGTTGTTGACCATCT TGAGAA	ACCAAGGGCAGATCTT AGGG	60.5	399	INTERGENIC	--	--	--
Ca4_P2_28830966	Ca4	28830966	CTA/CTATA	TCGCCTATGTGAATGTG GAA	CCGCTCTAAAAATTGAA GGG	58.8	706	INTERGENIC	--	--	--
Ca4_P2_2884124	Ca4	2884124	T/TA	TGCAACAACCAATGCA GTTT	ATATCATCAAACTCCG CCG	59.9	580	INTERGENIC	--	--	--
Ca4_P2_28848503	Ca4	28848503	A/AG	CGAAAAACCGCTCTCT TCA	CATTGTGGCATCATTT CTCT	59.9	151	INTERGENIC	--	--	--
Ca4_P2_28849010	Ca4	28849010	GAAAAAAA/GAAAAAAA	AGAGGAAATGATGCCA CAATG	AAACACTTGCCTAACCT GGC	60.2	794	INTERGENIC	--	--	--
Ca4_P2_28850439	Ca4	28850439	ATTATTTTATTTT/ATTATTTTATTTT ATTTT	GTCAGAGGCAGTGAGC CTTC	TTTAGCTTTCCAACGC CTG	60.4	500	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28856354	Ca4	28856354	ATTTTTTT/ATTTTTTTT	GCGCGAATATCTCAAC CAAT	TCCACCAACAACAAGT CCA	59.9	212	INTERGENIC	--	--	--
Ca4_P2_28856666	Ca4	28856666	TA/T	TGCCGTATTGATGGATC TGA	GAAGGTGCGAGTGATG TGAA	59.8	729	INTRON	Ca_23701	T	E2F/DP
Ca4_P2_28871484	Ca4	28871484	AAA/AAATTCATGAA	CTCCTACTTGCGCACA CAAA	ACAGTGCCTTCCATAA GCCT	58.8	233	DRR	Ca_23703	R	YABBY
Ca4_P2_28872061	Ca4	28872061	GAAAAAAAA/GAAAAAAAAA	TGATAAAGGGAGAAAA GGGC	AAACCAAGGCCCTGAA AACT	60.0	782	DRR	Ca_23703	R	YABBY
Ca4_P2_28872106	Ca4	28872106	ATTTTTTTTT/ATTTTTTTT	TGATAAAGGGAGAAAA GGGC	AAACCAAGGCCCTGAA AACT	60.0	782	DRR	Ca_23703	R	YABBY
Ca4_P2_28879341	Ca4	28879341	AGT/AGTGTGATGT	TCTCACCACAATGGGAT TCA	AAAAGCAAAACCAGCG AATG	60.2	518	INTERGENIC	--	--	--
Ca4_P2_28883001	Ca4	28883001	T/TC	CAACGACGTTCTTTGG ACA	ACACCATCGCAATGTTT TCA	60.0	405	INTERGENIC	--	--	--
Ca4_P2_28887918	Ca4	28887918	TAAAAAAAA/TAAAAAAAAA	TGCCCTATTTGTGTCC AGG	TGCGTTTGGCTGATGT TAAG	59.9	573	INTERGENIC	--	--	--
Ca4_P2_28898361	Ca4	28898361	TAAAAAAAA/TAAAAAAAAA	AACACAAACCAATTA CATCAACA	CGGAAGTCTTGAAAA GGTG	59.7	934	INTRON	Ca_23704	--	C2H2
Ca4_P2_2890459	Ca4	2890459	CA/CAAA	CGTAGGCTAACTAACA TGCCC	CTCCGCGTTTGAGTTT GAGT	60.4	385	INTERGENIC	--	--	--
Ca4_P2_28910424	Ca4	28910424	ATTTCTTTTCTTTTCTT/ATTTCTTT TTCTT	CTGTTTCCTTCCAACT GGG	TGTAGAGGAATGTCTC GCCC	60.2	393	INTERGENIC	--	--	--
Ca4_P2_28910579	Ca4	28910579	A/AC	CTGTTTCCTTCCAACT GGG	TGTAGAGGAATGTCTC GCCC	60.2	393	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28913641	Ca4	28913641	AAATAATAATAATAATAAT/AAATAA TAATAATAATAAT	TACGTCGCTCCATGCA AATA	CAACGTCCTCCCATTT GTTT	59.8	822	INTERGENIC	--	--	--
Ca4_P2_28913802	Ca4	28913802	TTTATTATTATTATTATTATTATT ATTATTATT/TTTATTATTATTATTAT TATTATT	AAATAGAAAGTCGCATC CCG	CAACGTCCTCCCATTT GTTT	59.8	510	INTERGENIC	--	--	--
Ca4_P2_28914437	Ca4	28914437	GA/GAAA	AAACAAATGGGAGGAC GTTG	TGTTCCAGATATTTTGC CGA	59.1	508	INTERGENIC	--	--	--
Ca4_P2_2891639	Ca4	2891639	A/AG	TGTTGTGGTGCCACCT TTTA	TAATACACACGGCCAA GCAA	60.1	823	INTERGENIC	--	--	--
Ca4_P2_28923563	Ca4	28923563	AGATAC/A	CCGAGTGTAGGGTTTG AGGA	AGGGGCTATGTCCAGA AGGT	60.0	523	INTERGENIC	--	--	--
Ca4_P2_28925061	Ca4	28925061	CAAAAA/CAAAAAAAA	GGGGTGGTTTTAGCT TGGT	TAGCCAGTTTGGAAG GAAA	59.7	773	INTERGENIC	--	--	--
Ca4_P2_28925445	Ca4	28925445	AC/ACCTCTC	TCCAATTTATCTTTAT GCTGCC	GTGGCACAAGAATTGG AACC	60.4	189	INTERGENIC	--	--	--
Ca4_P2_28925610	Ca4	28925610	TAA/TA	TTTCCTTCCAACTGGG CTA	AATGCGGTCTTCCCT AAGT	60.0	622	INTERGENIC	--	--	--
Ca4_P2_28926033	Ca4	28926033	AC/ACGCACGC	AGGTTCCAATCTTG CCA	CTGATGAAAGTTGCG ACGA	60.0	858	INTERGENIC	--	--	--
Ca4_P2_28930811	Ca4	28930811	CATTATTATTATT/CATTATTATT ATTATTATTATT	CTCGTTCAAAGGCTA GACG	TAATTTGAAATGGCG ACAA	60.1	722	INTERGENIC	--	--	--
Ca4_P2_2894996	Ca4	2894996	GAAAAAAA/GAAAAAAA	AAAAGAAACGGAGGAA GTGTCA	TAAATACGGTGATCG CCTC	59.9	127	DRR	Ca_12086	P	ERF
Ca4_P2_2895172	Ca4	2895172	TCCC/TCC	GAGGCCGATCACCGTA TTTA	TTTTTCCCCTTTGAAAT AACACA	59.8	545	DRR	Ca_12086	P	ERF

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28955741	Ca4	28955741	CAT/CATAT	TTTAAATGGGCTTGACC CAC	TTTCAAATGGGTAGAG GGCG	60.1	858	INTERGENIC	--	--	--
Ca4_P2_28965010	Ca4	28965010	GTTTTTTTT/GTTTTTTTTT	CTTTGGTCATACGGCAT GTG	TTGAGTTGGGGGAGAA AAGA	59.6	168	INTERGENIC	--	--	--
Ca4_P2_28965039	Ca4	28965039	ATTTTTTTTT/ATTTTTTTTT	CTTTGGTCATACGGCAT GTG	TTGAGTTGGGGGAGAA AAGA	59.6	168	INTERGENIC	--	--	--
Ca4_P2_28970044	Ca4	28970044	ATTTTTTTTT/ATTTTTTTTT	TGTTTCTCCCCAGTTT TGG	TCCATTTGTCTCTCCC CAG	59.9	233	INTERGENIC	--	--	--
Ca4_P2_2897791	Ca4	2897791	ATATTTATTTATTTATTTATTT/ATA TTTATTTATTTATTTATTTATTT	AAAAAGACATGCTTCA ATTTGG	AAGCCTTGTGGAGCAG TTGT	59.9	948	INTERGENIC	--	--	--
Ca4_P2_28981567	Ca4	28981567	GAAAAAAA/GAAAAAAA	GCCCTCAGATGAGAGT CAGG	AACCTTACCGCGATTGT TGG	60.0	778	INTERGENIC	--	--	--
Ca4_P2_28984089	Ca4	28984089	GAAAA/GAAA	ATGGAATGGGATATGG GTCA	TAATCATGGCTTGCCA CAAA	60.1	601	INTERGENIC	--	--	--
Ca4_P2_28986695	Ca4	28986695	CGTA/C	AACAATGCAAAGTTGTC TCACA	TCAGTTCAAAAGAAAA TCAACAGA	59.4	808	INTERGENIC	--	--	--
Ca4_P2_28987257	Ca4	28987257	CTAT/CTATAT	TCTGTTGATTTCTTTTT GAACTGA	TTTTCTCAAGCTACAG CCTTT	59.6	293	INTERGENIC	--	--	--
Ca4_P2_28988082	Ca4	28988082	GAAAAAAA/GAAAAAAA	TCCACATAGACACGAAC CCA	CCAAATGGAATAAGC TGACC	58.6	261	INTERGENIC	--	--	--
Ca4_P2_28988768	Ca4	28988768	TAAAAAAA/TAAAAAAA	AAAAGTCGACAGTTTGT GTTCA	ACTGGGTTGTCAATTG CCTC	60.0	681	INTERGENIC	--	--	--
Ca4_P2_28990312	Ca4	28990312	CAAAAA/CAAA	GTTTCGCAATCTGGGTT TGT	AACACGTGTAGCAAG CACG	60.0	770	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_28991379	Ca4	28991379	CCTGCTGC/CCTGC	GAAGCGTTTAGTTGCTT CCG	GTTGTCAATTGCGGGA TTTC	60.3	751	INTRON	Ca_23706	--	NF-YB
Ca4_P2_28992492	Ca4	28992492	CA/CAAA	GGCGGTACAATTGCTT GATT	GGAACCTGGAACACCG TAGA	60.0	592	INTRON	Ca_23706	--	NF-YB
Ca4_P2_28993058	Ca4	28993058	CTTT/CT	TCTACGGTGTTCAGG TTCC	AATGGATGGTTAACGA GTTGC	59.0	500	INTRON	Ca_23706	--	NF-YB
Ca4_P2_28996068	Ca4	28996068	CTTTTTTTTTTT/CTTTTTTTTTT	TAACAGCATTGCATTGG GAA	TTCCAACACTAAAGGG GTGC	60.0	243	DRR	Ca_23706	--	NF-YB
Ca4_P2_29030081	Ca4	29030081	CGG/CGGG	ACCATTGCCGAATTGAA AAA	GTGCCCAAATTGCCT CACT	60.0	501	INTERGENIC	--	--	--
Ca4_P2_29030327	Ca4	29030327	CAA/CAACTAAAA	GCGAGTCGGATGGACA TAAT	GTGCCCAAATTGCCT CACT	60.0	177	INTERGENIC	--	--	--
Ca4_P2_29030631	Ca4	29030631	GAA/GA	AGTGAGGACAATTGG GCAC	CCCAACCTTTATTGGT CCTT	59.2	480	INTERGENIC	--	--	--
Ca4_P2_29031991	Ca4	29031991	ATTTTTTT/ATTTTTT	TCACAAGGAGTGCGAA TCAA	CACGAAATGAACCACA ACGA	60.6	726	INTERGENIC	--	--	--
Ca4_P2_29032247	Ca4	29032247	T/TG	CGGAGTTTTGTGGCAT TTTT	CACGAAATGAACCACA ACGA	60.6	482	INTERGENIC	--	--	--
Ca4_P2_29034169	Ca4	29034169	TA/TAA	TGAATGAAAGAACCT GGACA	TGTGAGCATCCACTCT CAGG	60.0	758	INTERGENIC	--	--	--
Ca4_P2_29035883	Ca4	29035883	ATTTTTTT/ATTTTTTTT	TTGAGCAGAGGCATGC AATA	GGACCAACTCTGGAAG AAAAA	58.3	735	INTERGENIC	--	--	--
Ca4_P2_29036852	Ca4	29036852	CAAA/CA	TTGAGCCATGGATTGA TGA	TCCATTCTTCCTTGCC ATT	60.3	806	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29037043	Ca4	29037043	GAAAA/GAAAAAA	CCATTGAGCTACACTG GCG	TTGGACAACGCTTCA ACTG	59.9	434	INTERGENIC	--	--	--
Ca4_P2_29038018	Ca4	29038018	TC/T	GAGCTGAAACATGCGA ACAA	TGATACCTTGCAATGAA CAAATTC	60.2	716	DRR	Ca_23707	--	--
Ca4_P2_29046225	Ca4	29046225	TAAAAAA/TAAAAAA	TTTCAACGCGCTTTAGA CAAT	TGACCAGGCTTGTAC TCAAA	58.4	740	INTERGENIC	--	--	--
Ca4_P2_29046983	Ca4	29046983	CTTTTTTT/CTTTTTTTTT	AGCACCGTTGTCGAGA ATTT	CCACCTGCATGAATTT GTTG	60.0	349	INTERGENIC	--	--	--
Ca4_P2_29049755	Ca4	29049755	TTA/TTAAAGCGAGAAATA	GGTTTTATAGGGCATG CTGG	TCCCAAGAAATCAATG CTCC	60.0	749	INTERGENIC	--	--	--
Ca4_P2_29052614	Ca4	29052614	CTTTTTTT/CTTTTT	GGTTCCAACACGTGTC CTCT	CAATCAACATTGCAACA GGG	60.0	536	INTERGENIC	--	--	--
Ca4_P2_29053469	Ca4	29053469	ACCCC/ACCC	CCTGTTGCAATGTTGAT TGG	ACATCAGAGAAATCAC CGCC	60.1	855	INTERGENIC	--	--	--
Ca4_P2_29055386	Ca4	29055386	CG/CGG	AACAAAGGTCCTAGGG TGGG	CTTGCATCGTATCTTC CAA	59.8	398	INTERGENIC	--	--	--
Ca4_P2_29061010	Ca4	29061010	ATTTTTTT/ATTTTTTTT	AACGCGATGTGGAGGT TTAG	TTATATTGGCAACCG CCTA	60.3	287	INTERGENIC	--	--	--
Ca4_P2_29064946	Ca4	29064946	TA/T	GTTTCCCGAAGGTTTGT GAT	TCATCTTGGATCACACT CAACC	60.0	424	INTERGENIC	--	--	--
Ca4_P2_29065135	Ca4	29065135	TAAAAAAA/TAAAAAAA	GTTTCCCGAAGGTTTGT GAT	TCATCTTGGATCACACT CAACC	60.0	424	INTERGENIC	--	--	--
Ca4_P2_29068157	Ca4	29068157	C/CTCAAATAG	CTTGGCTACCACCACG AAAT	ATCCAAGGGAGAAAGA AGGG	59.5	767	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29070763	Ca4	29070763	TAAAAAAAA/TAAAAAAAAA	ATACCAGACGCGATAG GTGG	TCATCCATAATTTAGC CCGA	59.4	819	INTERGENIC	--	--	--
Ca4_P2_29073548	Ca4	29073548	ATTTTTTTT/ATTTTTTTTT	TGTCAAAATGAGGGT GCAA	CACCTATTTGTGCC CAAC	60.2	546	INTERGENIC	--	--	--
Ca4_P2_29085024	Ca4	29085024	CT/CTT	AAGGAGAAAAGTGGG GAGA	ACGTATCCCAGGTGC AATA	60.2	602	INTERGENIC	--	--	--
Ca4_P2_29085344	Ca4	29085344	AATCGATC/AATC	TGCGAATCTGCTCTTG AAT	CGCCGCCAATTTATTT TTA	59.9	556	INTERGENIC	--	--	--
Ca4_P2_29085408	Ca4	29085408	CTGG/CTGGAGATGG	TGCGAATCTGCTCTTG AAT	CGCCGCCAATTTATTT TTA	59.9	556	INTERGENIC	--	--	--
Ca4_P2_29085860	Ca4	29085860	TAAAAA/TAAAAA	TAAAAATAAATTGGCG GCG	TCCAATTCAATTCATGG GGT	60.0	348	INTERGENIC	--	--	--
Ca4_P2_29086174	Ca4	29086174	GAAAAA/GAAAAA	ACCCCATGAATTGAATT GGA	GCCTCCAAAAGATCAA GCAG	60.0	374	INTERGENIC	--	--	--
Ca4_P2_29089032	Ca4	29089032	AT/A	GGAAGGATGTTCTGTA GCAA	ACGGGAGGAATGATAC ATGG	59.6	457	INTERGENIC	--	--	--
Ca4_P2_29094195	Ca4	29094195	TCTA/T	TCGGTAGCTGGCTGAA ATCT	TGCGTTGTCGCGTAAG TAAC	59.9	470	INTRON	Ca_23708	C	HD-ZIP
Ca4_P2_29094516	Ca4	29094516	ATTTTTT/ATTTTTTTT	TCGGTAGCTGGCTGAA ATCT	TGCGTTGTCGCGTAAG TAAC	59.9	470	INTRON	Ca_23708	C	HD-ZIP
Ca4_P2_29107247	Ca4	29107247	TTTAT/TTTATTAT	TGCGTCCAAAAGAATT CAA	TTGCTTCTCTCCAAG CATT	60.0	747	INTERGENIC	--	--	--
Ca4_P2_29110502	Ca4	29110502	ATTTTT/ATTTT	TGCAACATGGATGGG AATA	CACGGTTTCTAACACC ATTGA	59.9	617	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29110940	Ca4	29110940	AGATTC/AGATTCATGAATGATTC	CGTAAAGTCCACTTCCA TTTCA	GGAGATTTGTGCCCTA GCAG	59.8	300	INTERGENIC	--	--	--
Ca4_P2_29118229	Ca4	29118229	GAGAAG/GAG	TGGTCTGCTCTTCTCAA TCG	TGATTGAACGTTGGCC ATAA	59.9	307	INTERGENIC	--	--	--
Ca4_P2_29119825	Ca4	29119825	AT/ATAAATTGT	TTCACACCTGTTTTAT GGGC	TTGTTTTCTCCCTTT GTCA	59.6	431	INTERGENIC	--	--	--
Ca4_P2_29122267	Ca4	29122267	TAA/TAAAA	TTGTGTGCCACATCATC ACA	TACCAGCGACATGCTT TCAG	60.0	832	INTERGENIC	--	--	--
Ca4_P2_29133293	Ca4	29133293	CAGAGGA/CAGAGGAACAACCTAGAGG A	GCCAAACCAATTCCAAT GTC	TTCGGATTTTGAGGATT TCG	60.0	209	INTERGENIC	--	--	--
Ca4_P2_29137078	Ca4	29137078	TC/T	GCAACAGAAGTGCCAG ATGA	GCCTTCGGAACCAGAA TGTA	60.1	526	INTERGENIC	--	--	--
Ca4_P2_29137332	Ca4	29137332	TAAAAAAA/TAAAAAAA	GCAACAGAAGTGCCAG ATGA	TCATCAGAGAAGTCCA CCCC	60.0	712	INTERGENIC	--	--	--
Ca4_P2_29155494	Ca4	29155494	GCC/GC	AGTCGTTAGTCGTCGG TCGT	AACCAACCGATTGTATC GAG	59.9	436	DRR	Ca_23711	--	--
Ca4_P2_29155695	Ca4	29155695	ATTTTT/ATTTTTTT	CAAATCGGTTGGTTGA TCC	AAAAGATCTCGACCCTT TTGG	59.6	505	DRR	Ca_23711	--	--
Ca4_P2_29156546	Ca4	29156546	CTATA/CTA	AGTTGGTTTGGTGGT AAGG	GCATGGTAAAGGCTGT TGGT	60.0	841	DRR	Ca_23711	--	--
Ca4_P2_29156658	Ca4	29156658	CATGCAAAATGCAAA/CATGCAAA	AGTTGGTTTGGTGGT AAGG	GCATGGTAAAGGCTGT TGGT	60.0	841	DRR	Ca_23711	--	--
Ca4_P2_29158297	Ca4	29158297	ATT/ATTT	TGAGGAGAGAGGAGTG GAGA	TGTCCATTTAACGTTGA CGA	57.6	433	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29159894	Ca4	29159894	CAT/CATAT	TGATTTTCAAAGAGAA CCCG	TTCTGCGATGTCATT GTT	59.1	450	INTERGENIC	--	--	--
Ca4_P2_29162382	Ca4	29162382	AATA/AA	CTTTCCCGATTTCTGCC TTT	GGCCAGCGAAAATTAC TACC	58.7	804	INTERGENIC	--	--	--
Ca4_P2_2918070	Ca4	2918070	AG/A	GCATTGATGCTTACGTG CAT	GGTTTTGGTTGAGTT GGGA	59.8	314	INTERGENIC	--	--	--
Ca4_P2_29187399	Ca4	29187399	TAGAGAGAGAGAGAGAGA/TAGAGAGA GAGAGAGAGAGAGAGA	TCCAAAGACGACGACA CTTG	GCTACATCAAGTCCTC CCCA	60.1	752	INTERGENIC	--	--	--
Ca4_P2_29190573	Ca4	29190573	GA/G	GCCAGTCTTCTCAAACA GCC	TTTGACCAAGTGGAAA AGAAGA	58.9	648	INTERGENIC	--	--	--
Ca4_P2_29191237	Ca4	29191237	CTTTTTTTT/CTTTTTTTT	CCAACCTGGTTCCAACA ATCT	GGAGAAAAGTTAGGGG GTGC	59.9	119	INTERGENIC	--	--	--
Ca4_P2_29194603	Ca4	29194603	GTTTTTTTT/GTTTTTTTTT	TCCTCAAAAGTTTGGG GTTG	GCCAATCGAGTGTG AGTG	59.3	631	INTERGENIC	--	--	--
Ca4_P2_29196580	Ca4	29196580	TTCT/TT	AATCAACGCGAAATCGT TTC	ATGGTTTGATCCATCG GGTA	60.0	466	INTERGENIC	--	--	--
Ca4_P2_29197206	Ca4	29197206	CAT/CATCACGAAT	CCGACGAATTTAGAGA CGG	TGAATTTGGAGGTTG GAGA	60.4	312	INTERGENIC	--	--	--
Ca4_P2_29202977	Ca4	29202977	AATGATAG/A	TCACCCCGATGTCACC TATT	ACATGCCATTGAATTAC GCA	60.0	449	INTERGENIC	--	--	--
Ca4_P2_29203316	Ca4	29203316	CAAAA/CAAA	TGCCTAATTCAATGGCA TGT	TAGGGCTGACCAAGAC CACT	59.7	621	INTERGENIC	--	--	--
Ca4_P2_29205093	Ca4	29205093	C/CCAAG	ACATATGGCTTCGCATG ACA	TTAGGAGTGGCTTTGG ATGG	60.1	492	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29210343	Ca4	29210343	G/GT	TCAAGCATAGCGTCAA TGG	GGAGAACAACCACTAT TGGGC	60.7	355	INTERGENIC	--	--	--
Ca4_P2_29211121	Ca4	29211121	AT/A	GATGTTTAAGGTCTGT TGGCA	AACTTCAGCCGTCATT GGTT	59.6	641	DRR	Ca_14151	--	--
Ca4_P2_29215455	Ca4	29215455	ATTT/ATT	ACGAGCTTCCTCCACA AGA	TCGTTTGACAGACTGCT TTTG	60.2	555	INTRON	Ca_14152	--	Trihelix
Ca4_P2_29221169	Ca4	29221169	A/AG	TAACCATGGTCATCCCT CGT	ATGTTAACGTTCCGGAG TGCC	60.0	374	INTERGENIC	--	--	--
Ca4_P2_29221849	Ca4	29221849	CTTTTTT/CTTTTTT	TTGTTTCGTACATCCGG GAAT	CGCACATAGAGAGGTG CATT	58.9	735	INTERGENIC	--	--	--
Ca4_P2_29238761	Ca4	29238761	A/AATT	CCATGAGATCCACATAA TCCG	TTGCAAGAATCCATCCA TCA	60.0	513	INTERGENIC	--	--	--
Ca4_P2_29244811	Ca4	29244811	CAAAA/CAAA	CCGAGATGGTTTTGGA GAAA	GCTTCATAGCTTGCAA AGGG	60.0	488	INTERGENIC	--	--	--
Ca4_P2_29245084	Ca4	29245084	ATA/ATACTTA	GCCCTTTGCAAGCTAT GAAG	TGGTGCAATTTGGTTG GTAA	59.8	418	INTERGENIC	--	--	--
Ca4_P2_29245578	Ca4	29245578	T/TA	TTACCAACCAATTGCA CCA	CCCTAATGGGCCAAAT TACA	59.7	583	INTERGENIC	--	--	--
Ca4_P2_29249082	Ca4	29249082	TTAT/TTATAT	AGTCAGGACAATGGCC AAAA	CGCCAAACACAAACAT CAAC	60.0	681	INTERGENIC	--	--	--
Ca4_P2_29266562	Ca4	29266562	AAAATAGATAAAT/AAAAT	TGGTTTCCAGCACCTC AAT	TGCGAGTTTGTCCAG TTTG	59.9	687	INTERGENIC	--	--	--
Ca4_P2_29270177	Ca4	29270177	CTTTTTTT/CTTTTTTT	TTTCCCGACTTGGTCCT TTA	TCGACTCCCACTAA TGAC	59.9	696	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29270431	Ca4	29270431	TAAAAA/TAAAAAA	CACGTCATTAGGTGG GAGT	TTCTTGAATTTGCC TGC	60.1	427	INTERGENIC	--	--	--
Ca4_P2_29274800	Ca4	29274800	GTTTTTTTTT/GTTTTTTTTT	TTGGCGTGATAATTACA TGAGG	GCCTACCGGAAATGAA TGAA	59.9	864	INTERGENIC	--	--	--
Ca4_P2_29278808	Ca4	29278808	GTTTTTTTTT/GTTTTTTTTT	CCACCGGATTATGAA GGAA	GGGCATGAAATATGAG ACTGC	59.5	415	INTERGENIC	--	--	--
Ca4_P2_29279766	Ca4	29279766	ATTTTTTTTT/ATTTTTTTTT	CCGGATTTTGCACCTG AAT	CGTTGATTTGGACG ACCT	60.0	444	INTERGENIC	--	--	--
Ca4_P2_29280125	Ca4	29280125	ATTTTTTTTT/ATTTTTTTTT	AGGTCGTCAAAATCAA ACG	TTTCATCGCTCGCATTCA TAC	59.8	328	INTERGENIC	--	--	--
Ca4_P2_29292512	Ca4	29292512	TCC/TC	CACATGTTCAACTGG TTGC	GATCCTCATGGGAACG TGAT	59.7	631	INTERGENIC	--	--	--
Ca4_P2_2929266	Ca4	2929266	CATATATATATATATA/CATATATATA TATATATATATA	AAATGGCAATGAAATCC CTG	TCACTCTATCAAAATGTT CAAGCAA	58.9	628	INTERGENIC	--	--	--
Ca4_P2_29292814	Ca4	29292814	CTTTTTTTTT/CTTTTTTTTT	ACACGCTAGCCATTAGA GCC	ACGAGTGCAATCAGTC GAGA	59.6	176	INTERGENIC	--	--	--
Ca4_P2_29292913	Ca4	29292913	ATTTTTTTTT/ATTTTTTTTT	ACACGCTAGCCATTAGA GCC	TCCTTTCTTCCAAGAG GTTCA	60.2	306	INTERGENIC	--	--	--
Ca4_P2_29310722	Ca4	29310722	ATTTTTTTTT/ATTTTTTTTT	GTGGTGCCATCTCGG TCTT	TAAGCCAGCAACTCCA GGAT	59.8	658	INTERGENIC	--	--	--
Ca4_P2_29310770	Ca4	29310770	TAAAAAAA/TAAAAAAA	GTGGTGCCATCTCGG TCTT	TAAGCCAGCAACTCCA GGAT	59.8	658	INTERGENIC	--	--	--
Ca4_P2_29312136	Ca4	29312136	CAAAAAA/CAAAAAAA	CATGCCGGTCTACAT CTCT	GGTTTTGGACAGGCAA GGTA	60.0	524	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29315886	Ca4	29315886	CTTTTTTTTT/CTTTTTTTTT	CGTGGCAACCAAGAC TTAT	TCAATGTTCAAGAATCG GTCC	59.9	733	INTERGENIC	--	--	--
Ca4_P2_29316470	Ca4	29316470	ATCTTCTT/ATCTT	GGACCGATTCTGAAC ATTGA	GAAATCTTCGAACAA GTGGAAA	59.6	413	INTERGENIC	--	--	--
Ca4_P2_29319511	Ca4	29319511	A/AC	GAATCTTCGATGCCTG GTC	TTGGGAAATGATTGCTT TTTG	59.9	531	INTERGENIC	--	--	--
Ca4_P2_29321184	Ca4	29321184	ATTTTTTT/ATTTTTTTT	AACACATCAGCAAATGG CAA	TGGGTTCGGGTACAAG CTAC	60.0	682	INTERGENIC	--	--	--
Ca4_P2_29330235	Ca4	29330235	ATTTT/ATTT	TTTTGTTCAGATTGCGG TTG	GAGGGGATCCATTTTC CCTA	60.1	762	INTERGENIC	--	--	--
Ca4_P2_29330289	Ca4	29330289	CAAATTAATAAA/CAAATTA	TTTTGTTCAGATTGCGG TTG	GAGGGGATCCATTTTC CCTA	60.1	762	INTERGENIC	--	--	--
Ca4_P2_29348534	Ca4	29348534	AGGGGGG/AGGGGGG	GTTGTGCGGAAGCCAT TTAT	GAGGACTGGACGTACC CTTG	59.6	248	INTERGENIC	--	--	--
Ca4_P2_29356210	Ca4	29356210	ATTTTTT/ATTTTT	GCGGGTTTCCTTTTATA GGC	TTTTCCAGCATGTGTG CATC	60.7	311	INTERGENIC	--	--	--
Ca4_P2_29356293	Ca4	29356293	CTTTTTTTT/CTTTTTTTT	GCGGGTTTCCTTTTATA GGC	TTTTCCAGCATGTGTG CATC	60.7	311	INTERGENIC	--	--	--
Ca4_P2_29359586	Ca4	29359586	AATAT/AAT	GGGCTCGATATCTCAT CCAA	CTTGTCGTGCTTCATG GCTA	60.0	541	INTERGENIC	--	--	--
Ca4_P2_29363363	Ca4	29363363	TAA/TA	CTCGCGGTATCTTCATG ACT	AAAAACAGAGCAGGTA CGAGTG	58.6	313	INTERGENIC	--	--	--
Ca4_P2_29366628	Ca4	29366628	ATTT/ATTTACCTTT	AAGGAAGAGCTCGACC ATCA	TCTGCCATCACTCCCA TACA	60.1	584	CDS (large-effect mutations)	Ca_14154	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29368326	Ca4	29368326	TC/T	TCGATTGTTAGAGGCT ATACGTG	TCGCTTGTGAGAGAGG ACAA	59.7	511	DRR	Ca_14154	--	--
Ca4_P2_29371338	Ca4	29371338	GAA/GA	TTTTAAATTGGCAAGTC ACCA	TCCACATTATCGTGTC AAAA	58.9	526	INTERGENIC	--	--	--
Ca4_P2_29377597	Ca4	29377597	CTTTTTTTT/CTTTTTTTT	CATCCTTACGCGATCTC CAT	AATGGATACGCCCAT TCCA	60.0	491	INTERGENIC	--	--	--
Ca4_P2_29379238	Ca4	29379238	CAAAAAA/CAAAAAA	ATGCAAGTGGCCTAG ACAG	CACTTCGTTTTGGAATC GGT	60.0	630	INTERGENIC	--	--	--
Ca4_P2_29388732	Ca4	29388732	ATTTT/ATTT	GGCATCCCAGATCTGA AAAA	AAGTCGGTACAGCACC ATCC	60.0	931	INTERGENIC	--	--	--
Ca4_P2_29401976	Ca4	29401976	GTTTTT/GTTTTT	CCCCGAGTTTGAGAATT TGA	TCTCTATTGCCACCACT CCC	60.1	575	INTERGENIC	--	--	--
Ca4_P2_29416514	Ca4	29416514	ATTTGTTT/ATTTGTTT	CCAATGGAAATGGTCA TCC	GCATCAATGTCAACCA ATGC	59.9	671	INTERGENIC	--	--	--
Ca4_P2_29418053	Ca4	29418053	GAATAAATAAATAA/GAATAAATAAATA AATAAA	TTGCTCCTACGTATCTC CCG	AACTTCCACCGTACAC CACC	59.7	836	INTERGENIC	--	--	--
Ca4_P2_29418531	Ca4	29418531	TT/TTAT	GGTGGTGTACGGTGGA AGTT	GTCAAGGCAGACCAGA AAGC	60.0	383	INTERGENIC	--	--	--
Ca4_P2_29418584	Ca4	29418584	C/CT	GGTGGTGTACGGTGGA AGTT	GTCAAGGCAGACCAGA AAGC	60.0	383	INTERGENIC	--	--	--
Ca4_P2_29419385	Ca4	29419385	AA/AATA	GCCCCAAAAAGAAAG TCTC	GGCATAAGCTTGCAATT GTGA	59.8	682	INTERGENIC	--	--	--
Ca4_P2_29419619	Ca4	29419619	ATTTT/ATTTT	GCCCCAAAAAGAAAG TCTC	GGCATAAGCTTGCAATT GTGA	59.8	682	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29419673	Ca4	29419673	TAAAAA/TAAAAAA	TGATTTTACATCTGCAC CATGA	GGCATAAGCTTGCATT GTGA	59.8	262	INTERGENIC	--	--	--
Ca4_P2_29419703	Ca4	29419703	AA/ACA	TGATTTTACATCTGCAC CATGA	GGCATAAGCTTGCATT GTGA	59.8	262	INTERGENIC	--	--	--
Ca4_P2_29421150	Ca4	29421150	TAAAAAAAAAAAAAAAAA/TAAAAAA	TCGCCGTTGCTTTTCTA CTT	AGAGAGCCAACGGCA GATA	60.0	728	INTERGENIC	--	--	--
Ca4_P2_29426569	Ca4	29426569	ATTTTTTTTT/ATTTTTTTTT	ATCCAGCGAATTTTAC CGA	TTTGTACACACACAC CCA	59.4	781	INTERGENIC	--	--	--
Ca4_P2_29428218	Ca4	29428218	ATTTTTTTTT/ATTTTTTTTT	TCCATCTTCTTCATTGA TCAGC	TGCCAAAAATACTCTTG TAAACAAAT	59.5	539	INTERGENIC	--	--	--
Ca4_P2_29439380	Ca4	29439380	AT/ATT	ATGGGAAACGTGAGGT ATGC	CAAGTGAGCTTGCCA ATTT	60.2	604	INTERGENIC	--	--	--
Ca4_P2_29444899	Ca4	29444899	GTTTTTTTTT/GTTTTTTTTT	TCGAAATTTTAGGCCAC GAC	CCAGAAGGCTACCACT ACGC	59.9	415	INTERGENIC	--	--	--
Ca4_P2_29457394	Ca4	29457394	ATTTTT/ATTTT	CCAATCCGAAGCGAT CATT	TGGTGATTGGCAAAA CAAA	59.9	319	INTERGENIC	--	--	--
Ca4_P2_29471358	Ca4	29471358	GTTTTTTTTT/GTTTTTTTTT	TACGGAAAATTACCCA CGG	CAATCTGGAGGAGTT GGAA	60.0	472	INTERGENIC	--	--	--
Ca4_P2_29498412	Ca4	29498412	ATTTTTTTTT/ATTTTTTT	TTGGATTGATTTTGG TTTGTC	AACTTGATTGAATATT GCCATTG	59.3	779	INTERGENIC	--	--	--
Ca4_P2_29503488	Ca4	29503488	ATTTTTTTTT/ATTTTTTTTTTT	TGTATGTCCTCCTCTT TGTCA	GGGGTACTCAACCCAC AAAA	59.7	735	DRR	Ca_14160	--	--
Ca4_P2_29508624	Ca4	29508624	CTTTTTTTTTTT/CTTTTTTTTTTTT	AGGGGGAATGAGAGGA AGAG	AGTGGTTGGGTCCTTG ATGA	60.4	307	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29515377	Ca4	29515377	TAAAAAAA/TAAAAAAA	CGATGAGAGATGGTTA GGGTG	GGGAAGAAGCTTGATT CACCT	59.7	436	INTERGENIC	--	--	--
Ca4_P2_29519322	Ca4	29519322	TAAAA/TAAAA	TGATCGCATTCTTATCA AACACA	CAAATTTGAGTTCAGA GGTCG	58.9	239	INTERGENIC	--	--	--
Ca4_P2_29520331	Ca4	29520331	TATATATATAAG/T	AAAAATCGAAACACATG GGG	TTTCCGAAACTCAAAA GGG	59.2	320	INTERGENIC	--	--	--
Ca4_P2_29529676	Ca4	29529676	AAGA/AAGAGA	CCTGCTCCTCCTTCTTG ATG	TGCATGTTGCCATTTTG TTT	60.0	273	INTRON	Ca_14161	--	--
Ca4_P2_29531556	Ca4	29531556	GT/GAT	CAAGTCGGGGATTG ACTA	GTTATGCGCAAAATAG CGGT	60.1	578	INTERGENIC	--	--	--
Ca4_P2_29532848	Ca4	29532848	TAAAAAA/TAAAAAA	TCCTTGCAAGGACATT AAACA	TGCCAAGTCATGGATA ATATGGT	60.5	544	INTERGENIC	--	--	--
Ca4_P2_29541970	Ca4	29541970	TTCATCATCATCATCATCA/TTCATC ATCATCATCA	ATCCCCACCCGTATAC CTC	TGAGTGTTGAATGAATT TTGTGC	60.0	582	INTERGENIC	--	--	--
Ca4_P2_29544316	Ca4	29544316	GATAT/GAT	CCATCAAACCACAACAA ACA	CCCAATTCCTTCCGTT TTT	60.2	706	INTERGENIC	--	--	--
Ca4_P2_29545135	Ca4	29545135	AATTATTATTATTAT/AATTATTATTA TTTATTATTAT	CATACGTGATACGCTG GGTG	GTGAGGGAGGACCAAA ACAA	59.9	659	INTERGENIC	--	--	--
Ca4_P2_29545575	Ca4	29545575	GTTTTTTTTT/GTTTTTTTTTTT	TTGTTTTGTCTCCCT CAC	TTGAGCATTGATTGAG TTCTTGA	58.9	322	INTERGENIC	--	--	--
Ca4_P2_29547360	Ca4	29547360	CTTTTTTT/CTTTTTTT	TCCCACACATCCAAA AAA	TTGGTCCCTATAAGTTG GCG	60.0	613	INTERGENIC	--	--	--
Ca4_P2_29564628	Ca4	29564628	GTTTT/GTTTTTT	GAACGGTCCATGCAAA AGTT	AGTTCCCCGATCCTTA TGC	60.3	535	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29566926	Ca4	29566926	GTTTTTTTTTT/GTTTTTTTTT	CTCTTTTGCCTGCGAT TAG	TGAACACAGATTTGA GTCCG	60.1	701	INTERGENIC	--	--	--
Ca4_P2_29577146	Ca4	29577146	TAAAAATAAAATAAAATAAA TAAAAAT/TAAAAATAAAATAAA AATAAAATAAAATAAAAT	CCTTGTTGAGGAATCG GTGT	TTTTTCACATCGCAAT CCA	60.1	279	INTERGENIC	--	--	--
Ca4_P2_29581998	Ca4	29581998	TTATAT/TTATATATAT	AACTTGATGCCGAGTA GCGT	AGGCCGTCACAAATGG ATAG	60.0	366	INTERGENIC	--	--	--
Ca4_P2_29582409	Ca4	29582409	TAAAA/TAAA	AGCTGTATTGGGCCTC CTTT	GCCGAATAAAACCTC ACAA	59.9	212	INTERGENIC	--	--	--
Ca4_P2_29583344	Ca4	29583344	A/AAACATG	TTGGCAAGATTGAAAA CGA	TAAGAAGGGAGCAATC ACGC	60.4	780	INTERGENIC	--	--	--
Ca4_P2_29585533	Ca4	29585533	ATTTTTTTTT/ATTTTTTTTT	CGAAAGTTGGGAAAC GAAA	AAAGCTTGCCATCATT CAC	60.1	915	INTERGENIC	--	--	--
Ca4_P2_29596763	Ca4	29596763	GAACAACAACAACA/GAACAACAACA CAACAA	TATACGTGCCACAACGA TGC	CGGTCACCATATGTCA CTTCA	59.4	816	INTERGENIC	--	--	--
Ca4_P2_29596950	Ca4	29596950	TTTTATTATTATTATTATTATTAT TTAT/TTTTATTATTATTATTATT TTATTATTATTATTATTAT	CCTGTTTTGAACAAGC CAAA	CGGTCACCATATGTCA CTTCA	59.4	399	INTERGENIC	--	--	--
Ca4_P2_29619182	Ca4	29619182	AG/A	TTGTCGTGGTGATTAAT GAAAAA	GCCGACACCTTCAATC AAAT	59.9	751	INTERGENIC	--	--	--
Ca4_P2_29622506	Ca4	29622506	ATTTTT/ATTTTTTTTT	CCCCACGATCCTGAAAT AAA	AACGATGATCGCAACA ACAA	60.1	281	INTERGENIC	--	--	--
Ca4_P2_29624385	Ca4	29624385	ATT/ATTTT	ACCGAACCTGTTGGAT TTG	GGGGAACCAAAACCTT GAAT	60.0	537	INTERGENIC	--	--	--
Ca4_P2_29626397	Ca4	29626397	CTTTTTTTTT/CTTTTTTTTT	ACCCCATTCATCCTCA TCA	CTTAGTGAGTGGAGAG CGCC	60.2	398	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29626809	Ca4	29626809	CTTTTTTT/CTTTTTT	CTAGGAGAAGGGGAT TTGG	TGTGTTTGAATTCTGA TTGGG	59.8	239	INTERGENIC	--	--	--
Ca4_P2_29640045	Ca4	29640045	TAAAGA/TAAAGAAAGA	GCCTGTCTGCATTGTT CCT	CGGACAGCAACAATTT CCTT	60.1	753	INTERGENIC	--	--	--
Ca4_P2_29640624	Ca4	29640624	GATCAATGAAAATCAATGA/GATCAATG A	AAGGAAATTGTTGCTGT CCG	CAATTGAGTTAGGGCC CATT	58.9	355	INTERGENIC	--	--	--
Ca4_P2_29641443	Ca4	29641443	ATTT/ATTTT	TGGAGCAATGATCTTCC CTT	TCAAGCAAGAATCCAA GTCAAA	59.9	608	INTERGENIC	--	--	--
Ca4_P2_29648827	Ca4	29648827	CTTTT/CTTT	GCCTTCGGTTTATTGTT GGA	TGGAAATAGGCCATAC CGAG	59.9	714	INTERGENIC	--	--	--
Ca4_P2_29650151	Ca4	29650151	CATA/CA	TCACCACAATCTAGCGA TGC	TAGCAAGCTTGGTGCA TTTG	60.0	558	INTERGENIC	--	--	--
Ca4_P2_29650782	Ca4	29650782	A/AT	ATTTTCCAGGTGCATTT TCG	CCTAGAGCTTGGTTTG GCAG	60.0	492	INTERGENIC	--	--	--
Ca4_P2_29654133	Ca4	29654133	CA/CAAAA	TGGCGTTGCAACACTA ATTCT	GATGAGGATGTGGAAG GCTG	60.6	983	INTERGENIC	--	--	--
Ca4_P2_29656227	Ca4	29656227	ACCCC/ACCC	GGACGATAATGCCCTTT GAA	TGGGAATTTATCCGCA AAAG	59.9	308	INTERGENIC	--	--	--
Ca4_P2_29658881	Ca4	29658881	TGAGGAG/TGAG	CTTTTGAGGCATTCCAC CAT	ATTTTGTTGGGGTGCT CTTG	60.0	176	INTERGENIC	--	--	--
Ca4_P2_29661405	Ca4	29661405	CT/CTAT	TGCCTTATCAACGGCTC TCT	GGAGACAACCCAGAC AGAA	60.1	495	INTERGENIC	--	--	--
Ca4_P2_29661513	Ca4	29661513	CTTT/CTT	TGCCTTATCAACGGCTC TCT	GGAGACAACCCAGAC AGAA	60.1	495	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_29670240	Ca4	29670240	TAAAAA/TAAAAAA	TGGGGGATACCATCTT TGA	TGCCCTTGAGCTTTGA GTTT	60.0	479	INTERGENIC	--	--	--
Ca4_P2_29671539	Ca4	29671539	GTTATGG/GTTATGGACTTATGG	CACTTGTGTGGAACGT TGG	TGCATGTCAGCCATAC CAAT	60.0	158	DRR	Ca_14166	Z	MYB_related
Ca4_P2_29681493	Ca4	29681493	G/GT	ATCCCCCACACGATGA ATAA	CCAAAGAGCTGAGCGA AAAT	59.6	404	INTRON	Ca_14166	Z	MYB_related
Ca4_P2_29684929	Ca4	29684929	ATTTTTTTTT/ATTTTTTTTTT	GCCCTGGCCTAAGAAT AACC	CAAGCCAACAGAACCT GGAT	60.1	562	INTRON	Ca_14166	Z	MYB_related
Ca4_P2_29688505	Ca4	29688505	C/CA	TGGATGCCAGTATCAA CCTG	TGGTGGTTGTTTGTA TGCT	60.0	604	INTRON	Ca_14166	Z	MYB_related
Ca4_P2_29690022	Ca4	29690022	GAAAAAAA/GAAAAAAA	GAGGATAAGCCATGGA TGTC	AGCAAGCCAAGAGAAT CGAA	60.1	524	INTRON	Ca_14166	Z	MYB_related
Ca4_P2_29696963	Ca4	29696963	AGGTGGT/AGGTGGTTTGGTGGT	TCTGCAGTTTTCGATGT TCG	GCTACCGGAGTTGATT GGAA	60.1	482	INTRON	Ca_14166	Z	MYB_related
Ca4_P2_29697671	Ca4	29697671	GAATCGGCCT/GAATCGGCCTCTAAAT CGGCCT	AACGTATTCATCACCAG CCA	ACCGACAATGCACATT CCTT	60.4	458	INTRON	Ca_14166	Z	MYB_related
Ca4_P2_29699958	Ca4	29699958	TTG/TTGGATG	TGGCCTTATTTGCTTTT TGG	CCAACATCATGCTCTC CAAC	59.1	446	INTERGENIC	--	--	--
Ca4_P2_29701374	Ca4	29701374	G/GTTTAAATTC	AGATCTTCCCCTCATG GCT	CCTTGACAAGAAGCAA CACG	59.5	474	INTERGENIC	--	--	--
Ca4_P2_29702135	Ca4	29702135	CTTTTTTT/CTTTTTTTTTT	AATTAGGTGTGGAGGG CAAA	TTTCATTTTTAAACCC CCTCA	59.7	421	INTERGENIC	--	--	--
Ca4_P2_29702690	Ca4	29702690	AG/A	TGAGGGGGTTTTAAAA TGAAA	CTGCTACACTCTCCTT GCCC	60.0	609	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29712850	Ca4	29712850	TAAAAAAA/TAAAAAAA	TCATGTTGAGCAAAGC CAAA	TCAGTTCGGTAGTGGC TTCC	60.3	406	INTERGENIC	--	--	--
Ca4_P2_29717512	Ca4	29717512	GAAATAAATA/GAAATAAATAAATA	GTTGGCATTCTCCACT CGT	GTGCCCAACAAACAAG GACT	60.0	458	INTERGENIC	--	--	--
Ca4_P2_29719863	Ca4	29719863	ATTTTTTT/ATTTTTTTT	GAGTTGCGCCAAACT TTTA	AGGAACAGCAAGAACG GTGT	59.8	883	INTRON	Ca_14167	--	--
Ca4_P2_29721814	Ca4	29721814	TC/T	CCTCACCTCCCTTTCA ACA	TGTTCTTCTTTGGATGA GTGGA	59.7	649	DRR	Ca_14167	--	--
Ca4_P2_29722401	Ca4	29722401	AAT/AATAT	TTCGCAGTGGAGTTTG AATG	CGATAAAACAAAATTG TACACCG	59.7	550	DRR	Ca_14167	--	--
Ca4_P2_29769152	Ca4	29769152	AT/ATT	CCGATGAAGAAGAAAA GCAA	TTGCAGTTGGATTTGT AGGG	60.0	479	INTERGENIC	--	--	--
Ca4_P2_29776445	Ca4	29776445	TAAAAAAA/TAAAAAAA	TATTTGGGCCTGGTGT TGT	TGGGCCACCCTATACC AATA	60.0	729	INTRON	Ca_14170	K	HD-ZIP
Ca4_P2_29793706	Ca4	29793706	TAAAAAAA/TAAAAAAA	AGATGTTGCTTCCCAA GAA	CAAAGAACCTTAGCTT CCCC	59.3	718	INTERGENIC	--	--	--
Ca4_P2_2979984	Ca4	2979984	ATTTTTTTTT/ATTTTTTTTT	TGCCATTCCACCACTAA CAA	GCTTTTGGCGTATGTTT TGG	60.5	512	INTERGENIC	--	--	--
Ca4_P2_29811877	Ca4	29811877	CCAAGAGT/C	TAGGCACAAAGTCTCC CAAG	ACTTTCATGAAGACACC GGG	60.0	212	INTERGENIC	--	--	--
Ca4_P2_29821605	Ca4	29821605	CTTTTTTT/CTTTTTTT	GACTCATCCAAGGTG CCAT	TTTGATGGCTCAGAAA GCCT	60.0	524	INTERGENIC	--	--	--
Ca4_P2_29826827	Ca4	29826827	GTGTTGTT/GTGTT	CGAACCTACGAGGCTA AACG	GGGTGTCGAAACATTC CATC	60.2	290	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29864003	Ca4	29864003	ATTTTTTTTT/ATTTTTTTTT	CAAAGTGATCCAACCTG TGCTG	CTTCTTGACAAAAGCG GGAG	60.0	861	INTERGENIC	--	--	--
Ca4_P2_29866382	Ca4	29866382	CAAA/CAA	TGGGGAGGAAGTTGAC TCAG	CTTCGCACCTCTATCT GCC	60.0	465	INTERGENIC	--	--	--
Ca4_P2_2986997	Ca4	2986997	ATTTTTTTTT/ATTTTTTTTT	TTTGC GTTACGAATTTG ATGA	GTAATGTTCCACGTT GCTG	59.1	261	INTERGENIC	--	--	--
Ca4_P2_29876041	Ca4	29876041	CTT/CTTT	TCGGTCAATGATGACG TTGT	TAATTGCAGTTTTGGTC CCC	59.8	359	INTERGENIC	--	--	--
Ca4_P2_29877079	Ca4	29877079	TAAAAAAAA/TAAAAAAAA	ATGATTCGGTCTGCGTT TTC	TTGGGAGGTGGCAGAT TTAG	60.1	551	INTERGENIC	--	--	--
Ca4_P2_29900525	Ca4	29900525	TTATA/TTA	AACAAAGAAGAACACG GGGT	CTTCTCGCGCATAATC GAC	60.7	574	INTERGENIC	--	--	--
Ca4_P2_29901176	Ca4	29901176	TAAAAAAAA/TAAAAAAAA	CGAATTCAATGGAGTTG CCT	TCGATCCCACCGAGAG ATAC	60.0	363	INTERGENIC	--	--	--
Ca4_P2_29906707	Ca4	29906707	GAAAAAAAA/GAAAAAAAA	ATTTGCTCCACCTTGGT TTG	AATTGGCGCAAGCTTA ACTC	59.5	582	INTRON	Ca_14176	--	M-type
Ca4_P2_29907949	Ca4	29907949	AATATATATATATATAT/AATATATATA TATATAT	CGAAGCTTTGGGATTAT TGC	TGGTTAAATTAACAA AAAGGTCA	58.2	736	INTRON	Ca_14176	--	M-type
Ca4_P2_29916991	Ca4	29916991	TC/T	GAGCAACGTCTGTTT GGTT	GGAGGAGCAGAAGCAA CAAC	60.0	363	INTERGENIC	--	--	--
Ca4_P2_29924754	Ca4	29924754	TTATATATATATA/TTATATATATATA	GGGAATCCCCTGAAGG TAAA	AGAGGGTCAACTCTGT CCGA	59.8	915	INTERGENIC	--	--	--
Ca4_P2_29925363	Ca4	29925363	CAAAAA/CAAAAA	ATCGGACAGAGTTGAC CCTC	GAATGGGCTGGCTTGA CTAA	60.2	394	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29925448	Ca4	29925448	G/GC	ATCGGACAGAGTTGAC CCTC	GTTTCCAAATCGTGG CCTA	59.9	686	INTERGENIC	--	--	--
Ca4_P2_29925949	Ca4	29925949	CATATATATATATATATATATAT/CAT ATATATATAT	GGCCACGATTGGAAA ACTA	TTATGGCAATATGCGAT GGA	59.9	534	INTERGENIC	--	--	--
Ca4_P2_29930444	Ca4	29930444	CAAAAAAAAA/CAAAAAAAAAAAAA	CCGACACGGTCTTTTC CTA	AATGACCCGCAATTAT GAGC	59.9	392	INTERGENIC	--	--	--
Ca4_P2_29930687	Ca4	29930687	TTTGATCTT/TTT	GCTCATAATTGCGGGT CATT	AGGTATGGACAAAAT GCGG	59.8	547	INTERGENIC	--	--	--
Ca4_P2_29931076	Ca4	29931076	ATG/AGTAACAATAAGTTG	TGTGCACCAATATCTGC CAT	GAAGAAAACCCGGGAT CAGT	60.3	670	INTERGENIC	--	--	--
Ca4_P2_29932586	Ca4	29932586	TAAAAAAAA/TAAAAAAAAAAAA	TCTACGCGCTCTAGTG GACA	AGCCCGAAAGGATCTA AAGG	59.7	487	INTERGENIC	--	--	--
Ca4_P2_29933754	Ca4	29933754	ATTTTTTT/ATTTTTTTT	AGCCACACGATGTTGA TTGA	TGATTAGGGAATCACC CGTT	59.2	845	INTERGENIC	--	--	--
Ca4_P2_29934671	Ca4	29934671	ATTTT/ATTT	TTTGCAATTCCTGTG AGA	TTTCAAAAACCCGAATG GTC	59.8	104	INTERGENIC	--	--	--
Ca4_P2_29941572	Ca4	29941572	TAAAAAA/TAAAAAA	CCGTGTAGGTATGATCT TTTGG	CCTTTCCTGTAATCG GCAA	60.1	324	INTERGENIC	--	--	--
Ca4_P2_29942701	Ca4	29942701	AG/A	TCATCCCATGTAGCCAT CAA	CAAAGGGTTCGTAA GGCA	60.1	822	INTERGENIC	--	--	--
Ca4_P2_29945039	Ca4	29945039	A/AAT	AAATGCAATAGCAGTT GGC	CGATGAGGATAAAAG AGCG	59.8	904	INTERGENIC	--	--	--
Ca4_P2_29961872	Ca4	29961872	TAAAAAA/TAAAAAA	ACCTGGAGAGGCATAA GCAA	CTTGGGGGTACGTAG AGTG	59.5	577	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_29962434	Ca4	29962434	GTAT/GTATATAT	CTAGTCGAAGTAGCCG GTGG	TTTGGGAAGCATTGTGG TTGA	60.1	486	INTERGENIC	--	--	--
Ca4_P2_29974650	Ca4	29974650	A/AACTCTTAATATTGT	GGGTTTGTACCACAC CACA	GTTGAGTTGGCCGCAT TATT	60.0	416	INTERGENIC	--	--	--
Ca4_P2_29974969	Ca4	29974969	ATGAGTTCTCACCTGAGTTCTCACCC/ ATGAGTTCTCACCC	AATAATGCGGCCAACTC AAC	CCAAGAACAATCTTGG AATGC	59.6	491	INTERGENIC	--	--	--
Ca4_P2_29979575	Ca4	29979575	GAA/GAAAA	TCTCGATGTCGATTGTT GGA	TTTGGGCACCAATATCT CAA	59.0	355	INTERGENIC	--	--	--
Ca4_P2_29986196	Ca4	29986196	TA/T	AAATTATTTTTAATTGAA TGGCGA	GCATGTATTCGCACTG GTTG	60.1	701	INTERGENIC	--	--	--
Ca4_P2_29986284	Ca4	29986284	A/AT	AAATTATTTTTAATTGAA TGGCGA	GCATGTATTCGCACTG GTTG	60.1	701	INTERGENIC	--	--	--
Ca4_P2_29986497	Ca4	29986497	GTGCGAATACATGCG/GTGCG	AAAAAGGATATAAATAC CCGCAA	AAAAATCTTCTCCACAA GATGAA	57.1	449	INTERGENIC	--	--	--
Ca4_P2_29986830	Ca4	29986830	AAATAATAATA/AAATAATA	CAACCAGTGCGAATAC ATGC	TGTGCTTATCCCTTTGT GACC	60.0	755	INTERGENIC	--	--	--
Ca4_P2_29987923	Ca4	29987923	GATGGTAT/GATGGTATGGTAT	GAGCAGAGCTGCCTAA TGCT	GGCGTTGTTGAGAGT GCAA	59.9	419	INTERGENIC	--	--	--
Ca4_P2_29989392	Ca4	29989392	GTATATA/GTATA	TTTTACTGCGTTGGTG CAG	CAGAGCTGTTGTACAG GGCA	60.0	525	INTERGENIC	--	--	--
Ca4_P2_29989748	Ca4	29989748	TATACA/TA	ACAACAGCTCTGTCCCT GCT	GGGGGTTTTGGGAGAT TTTA	60.0	468	INTERGENIC	--	--	--
Ca4_P2_30009279	Ca4	30009279	ATT/AT	CCCGAACCCCTAAAAA TAA	GTGCACCACCTTCGGA GAAT	60.1	463	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30045432	Ca4	30045432	CATATAT/CATATATAT	CGGTGCATAAGTGTT GATG	ACTCACGGTGATGAGT GTGG	59.6	345	DRR	Ca_14181	--	S1Fa-like
Ca4_P2_30046973	Ca4	30046973	GAAAAAAAA/GAAAAAAAA	TGAATGAAATTTCTGGC AGG	CGTTTTGTTGTGGCA CATT	59.5	280	INTERGENIC	--	--	--
Ca4_P2_30075059	Ca4	30075059	CTAA/CTAATTGTTTTATAA	TCGAAACCAACCACCTT TTC	GCAATTCGACAATGCA CAAC	60.1	547	INTERGENIC	--	--	--
Ca4_P2_30076682	Ca4	30076682	ATTTTTTTT/ATTTTTTTTTT	GCACTTCCGCTAAAAG CATC	AAGCGCTCCCAATAT GCTA	59.8	432	INTERGENIC	--	--	--
Ca4_P2_30077034	Ca4	30077034	TAAATTAATAAAT/TAAATTAATAA ATAAATTAATAA	GCATATTTGGGAGCGC TTTA	TGGATGATTGTGACAA AATTGC	60.7	508	INTERGENIC	--	--	--
Ca4_P2_30077264	Ca4	30077264	ATTTTTT/ATTTTTTT	GCATATTTGGGAGCGC TTTA	TGGATGATTGTGACAA AATTGC	60.7	508	INTERGENIC	--	--	--
Ca4_P2_30077287	Ca4	30077287	CTTTTTTT/CTTTTTTTTT	GCATATTTGGGAGCGC TTTA	TGGATGATTGTGACAA AATTGC	60.7	508	INTERGENIC	--	--	--
Ca4_P2_30078781	Ca4	30078781	AATATA/AATA	GATCCCTCATTGCGAA CATT	TGAGGGATGCACATGA AAAA	60.0	507	INTERGENIC	--	--	--
Ca4_P2_30081791	Ca4	30081791	CCTT/CCTTTCTT	TTGTCGTTGCAATGGTT CAT	TTACAAAAAGGGGTG AAAG	59.9	467	INTERGENIC	--	--	--
Ca4_P2_30082739	Ca4	30082739	AAAAACAAACAG/AAAAACAAACAGT GGAAACAAACAG	TGCGTTGTATCATGTGCG GTT	TCTGGTTTGTCTCC GTTT	59.6	389	INTERGENIC	--	--	--
Ca4_P2_30083166	Ca4	30083166	ATTTTTTTTTT/ATTTTTTTTT	AACGGAGGAACAAACC AGAA	CAACCTCGATCTCGAC CAAT	60.1	790	INTERGENIC	--	--	--
Ca4_P2_30085065	Ca4	30085065	A/AAATATC	TGACCACCACAATGCAAC CTT	ATTGGTTGCATATCGG CTTC	59.9	480	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30085385	Ca4	30085385	CAA/C	TTCATGAGGTGCATT GAA	TCGTTGCAACTGTTGT TCAT	59.2	471	INTERGENIC	--	--	--
Ca4_P2_30085998	Ca4	30085998	AATTTAGTTGTATTTAGTTGTAT/AATTT AGTTGTAT	TTCGAAAATTTTGGTTC CTCA	CGCAAGAAAGTCCACA TCAA	59.8	632	INTERGENIC	--	--	--
Ca4_P2_30086302	Ca4	30086302	TTTTCATG/TTTTCATGCAAACTTTCATG	TTGATGTGGACTTTCTT GCG	TTTTCGCGCTAAACCT TTG	60.1	238	INTERGENIC	--	--	--
Ca4_P2_30086898	Ca4	30086898	ACTTCT/ACT	ACGCCGAAAAACACTTT CAC	TCCATTGCACTGCCTT CAA	59.2	630	INTERGENIC	--	--	--
Ca4_P2_30087680	Ca4	30087680	CTTTTTTTTT/CTTTTTTTTTT	AACTCACCCAGCCAAAC AAC	TGCAAAACCAACCTAA CAAA	59.1	116	INTERGENIC	--	--	--
Ca4_P2_30089605	Ca4	30089605	TA/TAA	ACGCACTTTGGACGTTT TTC	ATGTGAATCAGGGGCA GTGT	60.4	915	INTERGENIC	--	--	--
Ca4_P2_30090101	Ca4	30090101	TA/TAA	TCGAGCGCGTATCCTC TAAT	TTGGTCAAACCCCTAT CAGC	59.9	524	INTERGENIC	--	--	--
Ca4_P2_30094188	Ca4	30094188	ATTTTTTTTT/ATTTTTTTTTT	TCCCATGCCAACATGTC TAA	GTTTGAATTTGCAGCA CCCT	60.1	370	INTERGENIC	--	--	--
Ca4_P2_30097465	Ca4	30097465	GAA/GAA	GCAAAACGGGGACTAG AACA	CCAGGGGTTGCCTTAG ATTT	60.3	307	INTERGENIC	--	--	--
Ca4_P2_30098960	Ca4	30098960	ATTTTTTTTT/ATTTTTTTTTT	TGGCGAATCGTTGATC ATAA	ATATGGCTTGAAGCAA ACGC	60.2	697	INTERGENIC	--	--	--
Ca4_P2_3010101	Ca4	3010101	ATTT/ATTTT	AGCATGGTTAAGCCCT GTGT	CGTAGGGGAAAAATGC AAAA	59.9	527	INTRON	Ca_12099	--	--
Ca4_P2_30102122	Ca4	30102122	CTCTTCCAAT/CTCTTCCAATTCTTCCAA T	TGATTCTTCAATTGCCA CCA	ACGAGAGACAAGTGAG GGGA	59.8	580	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30102440	Ca4	30102440	TG/T	TCCCTCACTTGTCTCT CGT	GTGTTTGGGATTGGGA AATG	60.0	609	INTERGENIC	--	--	--
Ca4_P2_30118361	Ca4	30118361	AAAA/AAAATAAA	TCCTTCATTTCCTCCCT CCT	GTGGATAAGAGACGCA AGGG	59.7	114	INTERGENIC	--	--	--
Ca4_P2_30118491	Ca4	30118491	CGG/CG	TCCTTCATTTCCTCCCT CCT	TGCGTGAATTTTGACTT TTGA	59.3	282	INTERGENIC	--	--	--
Ca4_P2_30118694	Ca4	30118694	CATAGATA/CATAGATAGATA	CTCCTTCATTTCCTCCC TCC	AAGGTGGGTAAAGAA CCGG	60.4	778	INTERGENIC	--	--	--
Ca4_P2_30120661	Ca4	30120661	TAAA/TAAA	TTTGACATCCATCTTAT GCAGC	CCCTTGGGTGCGTTAG TTAT	59.0	379	INTERGENIC	--	--	--
Ca4_P2_30122560	Ca4	30122560	GAA/GAAAA	ATGTCAATGGGCCACTT AGC	GTGGGGCCATTGATGA GTAA	60.7	962	INTERGENIC	--	--	--
Ca4_P2_30122953	Ca4	30122953	AC/A	TGTTGTGGGAGGTGAT TTGA	GGGTCAAACCTCAAAG ACGA	60.1	862	INTERGENIC	--	--	--
Ca4_P2_30125286	Ca4	30125286	ATT/ATTT	ATCTGGCAACGAGGTT CATC	ACCGCCAATCTACCAT CATC	59.8	666	INTERGENIC	--	--	--
Ca4_P2_30125897	Ca4	30125897	TAAA/TAAAAAAA	ATCGAAAACACCAATAAG CCG	TTATGCAAGTGTCTGC CGAG	60.0	330	INTERGENIC	--	--	--
Ca4_P2_30134439	Ca4	30134439	CAAAAA/CAAAA	TCCTTTTGCACTACTAT CCAAGC	GGGGGTTCCATGTAA ACATT	59.8	419	INTERGENIC	--	--	--
Ca4_P2_30139802	Ca4	30139802	GAAAAAAA/GAAAAAAA	TCTTCAGGAAATGGCA CACA	CACAGAGCAACCCAAA CAAA	59.7	619	INTERGENIC	--	--	--
Ca4_P2_30141273	Ca4	30141273	T/TG	TGAACCTGGACCAAAA CCTC	TCAAAATCACTTGGTC ATTGTTTC	60.3	871	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30141789	Ca4	30141789	TTAT/TT	GAACAATGACCAAGTG AATTTTGA	TATGGGATGCGTTGAG ATGA	60.0	428	INTERGENIC	--	--	--
Ca4_P2_30142421	Ca4	30142421	AGATACTTATATGAT/AGAT	TCATCTCAACGCATCCC ATA	CGTTGCAACTGAACAC ATACA	58.3	827	INTERGENIC	--	--	--
Ca4_P2_30142701	Ca4	30142701	ATT/ATTTAAAGTTTCAATTTTT	TTTCCCATGCAAAGTTA GGC	AAGGAAAGGGGACGTG TCTT	60.0	755	INTERGENIC	--	--	--
Ca4_P2_30143750	Ca4	30143750	GTTT/GTT	TAAGAAACCCCAATGA TGC	GGGATGGATCAAAACAC AAGG	60.2	170	INTERGENIC	--	--	--
Ca4_P2_30144088	Ca4	30144088	ATTTTTT/ATTTTT	AGGTTTGGGATGCCTT TCTT	GAGGATGCAGCGTAAA GTCA	59.0	726	INTERGENIC	--	--	--
Ca4_P2_30148542	Ca4	30148542	ATTTTTTTT/ATTTTTTTTT	GTTGTGCTGTGAGTG CTCC	TTAGTCCCTTACGTCTG GGG	60.0	302	INTRON	Ca_14185	--	--
Ca4_P2_30170493	Ca4	30170493	TCTTTA/T	TCTCTCCGGCAAGAAA CACT	CATGGTTCAGATCATG CTGC	60.2	719	INTERGENIC	--	--	--
Ca4_P2_30172004	Ca4	30172004	CG/CGG	CTCAACAGCCTTATGTG CGA	GCCTTGCAAGACAAA ATCC	59.7	182	INTERGENIC	--	--	--
Ca4_P2_3017713	Ca4	3017713	ATTATTTTAAATTTATTTTAAATTTATTT TAAATTTTAAATTTTAAATTTTAAATTT/A TTATTTTAAATTTATTTTAAATTTATTTT AAATTTATTTTAAATTTATTTTAAATTTA TTTTAAATT	GACAAATTAGTGGGGC AACC	TTGTATTGTTGGTGAG GCCA	60.0	902	INTERGENIC	--	--	--
Ca4_P2_30178438	Ca4	30178438	AAATTTCAATATTTAATTTCAATAT/AAA TTTCAATATTTAATTTCAATATTTAATTT CAATAT	CAAGCAATTATGGTGCA ACTG	AGTGAGGCAAAATGGAA ATGG	59.9	669	INTERGENIC	--	--	--
Ca4_P2_30178760	Ca4	30178760	TAAAAAA/TAAAAAA	CCATTTCCATTGCGCTC ACT	GAGCCACTTCTCCCT TTCT	59.8	559	INTERGENIC	--	--	--
Ca4_P2_30184517	Ca4	30184517	TA/T	CGAGGGGCGTAAAAAT CATA	GCGAGATTGTTTCCG TTGT	60.1	579	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30184775	Ca4	30184775	TG/T	ACAACGGAACAATCT CGC	GGGGGTTAGGAGTAAG AAAGGA	59.8	116	INTERGENIC	--	--	--
Ca4_P2_30185691	Ca4	30185691	TAAAAAAA/TAAAAA	CATCGCTAACTCAGTG CCAA	AATGCGTTACGGGTGA AATG	60.8	876	INTERGENIC	--	--	--
Ca4_P2_30187625	Ca4	30187625	GCC/GCCC	CCGTTGTGAAGAGGG GTGT	TATTTGATTGTGCAGC GAGG	59.8	628	DRR	Ca_14186	--	SAP
Ca4_P2_30189123	Ca4	30189123	AAGAG/AAG	TTCGTTCTGAATTTT CGG	TGTTCCGAATGGAAGA CACA	60.1	391	INTERGENIC	--	--	--
Ca4_P2_30191058	Ca4	30191058	ATTAAATTT/ATT	TTAAGCATCGTGCTGT TGG	TGTGTGGTGGCTCTAG CGTA	60.5	742	INTERGENIC	--	--	--
Ca4_P2_30192150	Ca4	30192150	GCATTTT/G	AACGCATTTTGTGATA TCCG	CGATTGACCAATGCTA ACCC	60.3	835	INTERGENIC	--	--	--
Ca4_P2_30196284	Ca4	30196284	AAT/A	TCAAACCATGATTTTGG TGC	TGTCAAACAACCTCTTG GCT	58.3	112	INTERGENIC	--	--	--
Ca4_P2_30197320	Ca4	30197320	CAAAAA/CAAAAA	CTTGTCTTTTCCCAT CCA	GGCCTAATTAACATG GGCA	59.8	793	INTERGENIC	--	--	--
Ca4_P2_30202940	Ca4	30202940	G/GC	GTGCCATGTCCTGTCT CCT	GTCTAATGTTGTTGC GTGC	59.2	546	INTERGENIC	--	--	--
Ca4_P2_30205470	Ca4	30205470	CTAGAACT/C	CGTTTGAATGTCACCC CTT	TCAATGCACTTCTGAG CCAC	60.0	385	INTERGENIC	--	--	--
Ca4_P2_30206114	Ca4	30206114	ATTTTTT/ATTTTTT	GTGGCTCAGAAGTGCA TTGA	TTGCAAGCATCCATATC CAA	60.0	832	DRR	Ca_14187	--	--
Ca4_P2_30206517	Ca4	30206517	ACCCCC/ACCCC	TCCCTCGAGCTATAGG ATGC	ATGCAATGGTTTATTCC CCA	60.0	643	DRR	Ca_14187	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30209458	Ca4	30209458	CTTTTTTTTT/CTTTTTTTTT	TGGATGTGGCTTCTGT TGA	TACTGCCCCATAAGCA AACC	60.0	566	INTERGENIC	--	--	--
Ca4_P2_30210048	Ca4	30210048	ATATCACTTT/AT	GGTTTGCTTATGGGGC AGTA	CACCCCGAATGAACCT TAGAA	59.1	631	INTERGENIC	--	--	--
Ca4_P2_30211443	Ca4	30211443	T/TA	ACATCAAAACAACAGCG CAC	CCGCTAAAATTGCCCA ATAA	59.9	714	INTERGENIC	--	--	--
Ca4_P2_30213725	Ca4	30213725	GAAAAAA/GAAAAAA	CGGCGGTGAAATAATC TGTT	TGCCACAAGAAGACAA ACGA	60.4	571	INTERGENIC	--	--	--
Ca4_P2_30225198	Ca4	30225198	T/TC	AGGCCAAACAAGAACCG AAAA	ATGTGCTTTTAGCACCA GGG	60.1	424	INTERGENIC	--	--	--
Ca4_P2_30226816	Ca4	30226816	CAAAAA/CAAAA	GCTTATGCAATGCACG AAAA	CATGGGTTGAAATGGA GACA	59.3	528	INTERGENIC	--	--	--
Ca4_P2_30227136	Ca4	30227136	T/TC	TCTCCATTCAACCCAT GAA	GATGCCCTTTCCCT ATGT	60.2	399	INTERGENIC	--	--	--
Ca4_P2_30230201	Ca4	30230201	TAAAAAAAAA/TAAAAAAAAA	GGTATGCTGTTTCGGTT CGT	TTCGCTAATTTGGCAA ACC	60.1	406	DRR	Ca_14188	--	--
Ca4_P2_30230521	Ca4	30230521	A/AAAG	GGTATGCTGTTTCGGTT CGT	TTCGCTAATTTGGCAA ACC	60.1	406	DRR	Ca_14188	--	--
Ca4_P2_30240512	Ca4	30240512	ATTTTTTTTT/ATTTTTTTTT	TTGGGCAATTTGATGAT TGA	GACAACCGATTGAGCC TGAT	60.1	539	INTERGENIC	--	--	--
Ca4_P2_30252991	Ca4	30252991	TAAAAAAAAAAAAA/TAAAAATAAAAAA AAAAAA	GGGCAGCGAACTTAGT CAAG	CGGTGGAAAAGTTTCG GATA	59.9	410	INTERGENIC	--	--	--
Ca4_P2_30329942	Ca4	30329942	AACACACACACACACA/AACACACAC ACACACA	GCTAGCTTCGACACT CCAG	GCAGTATGTAATCTAG CCATCGAA	59.7	514	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30330570	Ca4	30330570	CTATATATATATATATATA/CTATATATATATATATATATATA	TTCGATGGCTAGATTAC ATACTGC	CCCCTCAACTCAAGAA TGATG	59.5	561	INTERGENIC	--	--	--
Ca4_P2_30351459	Ca4	30351459	CTTTTTTT/CTTTTTTTT	TCTTTGAAACACATCAC TTTCG	AAAATTTGATCGGTGG TGGA	60.2	314	INTERGENIC	--	--	--
Ca4_P2_30363670	Ca4	30363670	ATTTTTTTTT/ATTTTTTTTTT	AATCTTCTGGTGGTG CAAG	AGGAGTGTCAAATGC ACCC	60.0	542	INTERGENIC	--	--	--
Ca4_P2_30371345	Ca4	30371345	GAAAAAAAA/GAAAAAAAAA	TCACGTGCTTGCAATTC TTC	TCACCGGAAATTTCA CGT	60.3	224	INTERGENIC	--	--	--
Ca4_P2_30390669	Ca4	30390669	T/TA	CTACTGAAGCCCAAG AAGG	CTTTCAGATTCGTGGC CATT	60.1	864	INTERGENIC	--	--	--
Ca4_P2_30404870	Ca4	30404870	AATAACAT/AAT	TTAACTGTTGGTGCGCA GTC	CGTCACATTTAACAG CCAT	59.5	798	INTERGENIC	--	--	--
Ca4_P2_30414673	Ca4	30414673	ATTT/ATT	TTTGAAGACCATTGCT TGA	CTCCCGCTCCCTATA TGTT	60.3	234	INTERGENIC	--	--	--
Ca4_P2_30415073	Ca4	30415073	GCATCATCATCA/GCATCATCATCA TCATCA	TTGAACATATAGGGAG GCGG	CCATCCTTTCAATGCG AGT	60.1	423	CDS (large-effect mutations)	Ca_14197	--	--
Ca4_P2_30416417	Ca4	30416417	TCC/TCCC	GCAGGGATGTGCTTGT GTTA	CGACAAAGCACCCCAA TAAA	60.9	593	INTRON	Ca_14197	--	--
Ca4_P2_30421550	Ca4	30421550	ATTTTTTT/ATTTTTTTT	AGAGCGACAAATGTG TAGGG	GGACCGTCAAAAGTAC AATGTT	58.0	952	INTERGENIC	--	--	--
Ca4_P2_30423088	Ca4	30423088	TAAAAAA/TAAAAAAA	AGGGGCAAAATACTG CTTG	CTTGATCGGCTCATGT GTTG	60.3	938	INTERGENIC	--	--	--
Ca4_P2_30429188	Ca4	30429188	T/TGA	TGATCGCCATATCCTTA GCC	GTACCGCATGAGCAAT TGTTG	60.1	315	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30429374	Ca4	30429374	TATTCATT/TATT	TGATCGCCATATCCTA GCC	ATTGGTTTGGCATTGT TGC	60.7	811	INTERGENIC	--	--	--
Ca4_P2_30430477	Ca4	30430477	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATATAT AT	CCCCTTCTCGTTTTTCA ACA	TTCATGCGTGTCCGAT TTTA	60.1	643	INTERGENIC	--	--	--
Ca4_P2_30451525	Ca4	30451525	GTTTTTTTTT/GTTTTTTTTT	GGATGTGAGTCCAGTC CAAAA	ATTCATGCGCACAACT GAA	60.2	427	INTERGENIC	--	--	--
Ca4_P2_30451648	Ca4	30451648	TCC/TC	TCAGCAATTCAGATTGT GCG	AGGGTGAAAGCAAGA TTCC	60.4	167	INTERGENIC	--	--	--
Ca4_P2_30452448	Ca4	30452448	AAT/AATACCTTATATAT	TGAAGCAGATACCCAG ACGA	TGCTATTGTTGTTGATG ATGGA	59.0	705	INTERGENIC	--	--	--
Ca4_P2_30452527	Ca4	30452527	ATAAATATTAATAT/ATAAATAT	TTCATTGGTTGGACGAA TTTT	CACATGGTCACGTTGC AGTT	60.6	831	INTERGENIC	--	--	--
Ca4_P2_30453156	Ca4	30453156	TAAA/TAAAA	CAACGTGACCATGTGG ATTC	CAATAGTCACCGCCAA CCTT	60.0	541	INTERGENIC	--	--	--
Ca4_P2_30453969	Ca4	30453969	AT/A	GTGTTTCGCATATCTG GGTT	ATTCTATCACACAGCG CACG	59.9	545	INTERGENIC	--	--	--
Ca4_P2_30458112	Ca4	30458112	C/CCTT	CAGGCAATGGGACATG ACTT	AAGATTGCTTTGATAC GTGG	59.2	830	INTERGENIC	--	--	--
Ca4_P2_30462755	Ca4	30462755	GGAA/G	GAATTTTATTGCGATT CATGG	TCGGCTAAATTACATTC GTGG	60.0	513	DRR	Ca_14198	--	G2-like
Ca4_P2_30465071	Ca4	30465071	TAAA/TAA	CAAGCAAATTTGTGAGC ACC	TCAAGCGACTCAAATC GTGA	60.5	399	INTERGENIC	--	--	--
Ca4_P2_30466296	Ca4	30466296	AAATAATAA/AAATAATAATAA	TGATGGGTTTGGATGT GCTA	GTTGTAGGGGCAACTG AGGA	60.1	575	INTRON	Ca_14199	--	G2-like

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30468296	Ca4	30468296	AAT/AATAT	ATTGTGCATATTCCTC CCA	CCTTAATCCACCAAAAG CCA	59.9	747	DRR	Ca_14199	--	G2-like
Ca4_P2_30468822	Ca4	30468822	AAA/AAAGAA	TGGCTTTTGGTGATT AGG	GGTCTCACGACCAAGT CACA	59.7	438	DRR	Ca_14199	--	G2-like
Ca4_P2_30472727	Ca4	30472727	ATT/AT	ATCAGGAACGAGGTG GATG	GAGGGTTGTTGTCTCC CAAA	59.9	653	DRR	Ca_14200	--	--
Ca4_P2_30477859	Ca4	30477859	CTTTTT/CTTTTTT	AAAATCAATCGGGGAC ATCA	GAATCAACAAAGCCC CAAA	59.9	648	INTERGENIC	--	--	--
Ca4_P2_30482085	Ca4	30482085	TGAA/TGAAGTTTAGAA	TTTGGAACAGAGTTTT GCC	GGGTATGGGGACCAAT TTTT	59.8	720	DRR	Ca_14201	--	SBP
Ca4_P2_3049939	Ca4	3049939	CATATATATATATATA/CATATATATATA TATATA	GCCGAATGGACCAAC ATAC	GGCAACAAAATAGAAT CGGG	59.4	516	INTERGENIC	--	--	--
Ca4_P2_30501632	Ca4	30501632	AGT/A	TGGGGATTATCCCTTC AAA	GCAAGTGTCAACTCAC TCAATCA	60.3	595	INTERGENIC	--	--	--
Ca4_P2_30502836	Ca4	30502836	ATTTTTTTTT/ATTTTTTT	AATGTAGCATGTGCGTA GCG	CAATTCATTGATTGTG TTGCAT	59.8	303	INTERGENIC	--	--	--
Ca4_P2_30524382	Ca4	30524382	GAAAAAAAAA/GAAAAAAAAA	ATCCCCTCTCTACACC ACC	TTGAACGCCTCCTCTG AGTT	60.0	908	INTERGENIC	--	--	--
Ca4_P2_30535832	Ca4	30535832	TATAAATAAATAAATAA/TATAAATAA TAAATAAATAAATAAATAA	CCATTCAGAATTAGAAA ATCACCA	CCAAATTTCCCAAGG TTCT	60.2	582	INTERGENIC	--	--	--
Ca4_P2_30536932	Ca4	30536932	GTTTTTTTTT/GTTTTTTTTTTTTT	ATCATTGAACGACCGG AAAC	CGGATACAATGGCAAT CAAA	59.4	431	INTRON	Ca_14204	--	NAC
Ca4_P2_30537523	Ca4	30537523	CA/CATA	TTTGATTGCCATTGTAT CCG	CAAAATGGAAATGCAA GAACAA	60.0	803	INTRON	Ca_14204	--	NAC

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30538166	Ca4	30538166	AAAGAAG/AAAGAAGAAG	TTGTTCTTGCAATTTCA TTTTG	CGCCATCTTCTCTTCT TTG	59.9	380	CDS (large-effect mutations)	Ca_14204	--	NAC
Ca4_P2_30539496	Ca4	30539496	G/GCAA	CCGTGTAGCCAATTTCA CCT	TACTCCAGTTCTGCC CTTG	60.2	517	DRR	Ca_14204	--	NAC
Ca4_P2_30539573	Ca4	30539573	A/AATTG	CCGTGTAGCCAATTTCA CCT	TACTCCAGTTCTGCC CTTG	60.2	517	DRR	Ca_14204	--	NAC
Ca4_P2_30540068	Ca4	30540068	ATTTTTTT/ATTTTTTTT	GATTTATCGTCGCTCTT GCC	CAACTGGATCTGCCAC GTTA	59.7	268	DRR	Ca_14204	--	NAC
Ca4_P2_30542137	Ca4	30542137	TAAAAA/TAAAAAA	TAAGGCATGATAAGGC CGAC	GTCATGTCAACCCGTGA TGAG	60.0	299	DRR	Ca_14205	--	--
Ca4_P2_30542725	Ca4	30542725	AT/A	ACTCATCACGGGTGAC ATGA	CCGAGTATGATGGTTG GCTT	60.0	767	DRR	Ca_14205	--	--
Ca4_P2_30542760	Ca4	30542760	AT/A	TGCCCAAGCTCAATTA TCC	CCGAGTATGATGGTTG GCTT	60.0	362	DRR	Ca_14205	--	--
Ca4_P2_30545976	Ca4	30545976	C/CTTACA	CCAAAGACGAGGTTGA CCAT	TGGCATTACAAATTCG AAAA	60.1	423	INTERGENIC	--	--	--
Ca4_P2_30551689	Ca4	30551689	ATTT/ATTTT	CGGAAATGGACTTTAC GAATG	TGATATGGCAATCCCT GACA	59.9	548	INTERGENIC	--	--	--
Ca4_P2_30552249	Ca4	30552249	GTTTTTTT/GTTTTTTT	TGTCGCATGCAACCTCT TAG	ACCTGTGTGTTCCCTT CCAC	59.9	528	INTERGENIC	--	--	--
Ca4_P2_30552355	Ca4	30552355	TG/T	TGTCGCATGCAACCTCT TAG	ACCTGTGTGTTCCCTT CCAC	59.9	528	INTERGENIC	--	--	--
Ca4_P2_30552695	Ca4	30552695	ATTTTTTT/ATTTTTTTT	CCAATTGAGAAGGGAA TGGA	AATGACCCAACAAAAT GCC	59.7	646	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30558234	Ca4	30558234	GTTTTTTT/GTTTTTTT	GCGAAATCTAGGGCA ACTT	TTGATAGATGCCAAA GGGG	59.9	725	INTERGENIC	--	--	--
Ca4_P2_30558963	Ca4	30558963	GC/G	CCCCTTTTGGCATCTAT CAA	TCATCTCATTTTGCTTC CCT	57.3	510	INTERGENIC	--	--	--
Ca4_P2_30560828	Ca4	30560828	T/TC	CAGATTGTTCTTCCTCC CCA	CCACATCATCTCCAAC CAAA	59.3	704	INTERGENIC	--	--	--
Ca4_P2_30560848	Ca4	30560848	GAAAAAAAAAAAAAAAAA/GAAAAAAAAA A	CAGATTGTTCTTCCTCC CCA	CCACATCATCTCCAAC CAAA	59.3	704	INTERGENIC	--	--	--
Ca4_P2_30561391	Ca4	30561391	TAAAAAAAA/TAAAAAAAA	TTTGGTTGGAGATGAT GTGG	TGGAAAAGTATGGTGC CTCC	59.9	431	INTERGENIC	--	--	--
Ca4_P2_30561689	Ca4	30561689	TAAAAA/TAAAA	GGAGGCACCATACTTT CCA	AGAATGGCCACTTCAA GTCAA	59.7	198	INTERGENIC	--	--	--
Ca4_P2_30566057	Ca4	30566057	CGGG/CGG	TTTTTGCAATTGGGCAT ACA	ACTGGGTTTGGGTAC CCTC	60.1	515	INTERGENIC	--	--	--
Ca4_P2_30570798	Ca4	30570798	TAAAAAA/TAAAAAA	TGCTTCTCAATGACTAA CACCAA	TGTTGGTGTGACTTTTC CTTCT	58.7	881	INTERGENIC	--	--	--
Ca4_P2_30573766	Ca4	30573766	T/TC	CATTATGATCACAGACG ATGGTG	TCCTCTTCGATCAAGC ATCC	60.3	259	DRR	Ca_14206	A	--
Ca4_P2_30575118	Ca4	30575118	ATT/ATTT	TGTTCAACCATCAATTG TTTCC	GGCGGAATTTTCATA GCAA	60.0	222	DRR	Ca_14206	A	--
Ca4_P2_30581429	Ca4	30581429	CA/CAA	GCAACAAACTTCTGCG ACA	TCGGCTCCTTCTTTCT TCA	60.1	732	INTERGENIC	--	--	--
Ca4_P2_30582286	Ca4	30582286	GAAAAAAAAA/GAAAAAAAAA	TTCCCTCCCTTCTTTG AGT	TTTTCTGCAAGTTTGTC GTTG	59.0	615	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30582999	Ca4	30582999	AC/ACC	GGAGGGATGCAATATT AAGCA	ATTCATAGACGCACC CGAG	60.1	436	INTERGENIC	--	--	--
Ca4_P2_30585901	Ca4	30585901	CTTTTCTAATTTTCTA/CTTTTCTA	AAAGGTCAGTCATCCCA AACA	GAAACAGAAAACGGGA ACCA	59.9	381	INTERGENIC	--	--	--
Ca4_P2_30587522	Ca4	30587522	TCC/TCCC	AAGCCAACCATCATCT CGG	GAATGATGTCGGTGTT GTGC	60.0	400	INTERGENIC	--	--	--
Ca4_P2_30587570	Ca4	30587570	G/GT	CGACAACCCGACATC ATTG	CCTTGTCTGTAATGGT CCTT	60.0	113	INTERGENIC	--	--	--
Ca4_P2_30587846	Ca4	30587846	ACCCC/ACCC	CGACAACCCGACATC ATTG	CCTTGTCTGCTCTGTTT GGT	60.0	678	INTERGENIC	--	--	--
Ca4_P2_30595068	Ca4	30595068	GAAAAAAAA/GAAAAAAAAA	ATCTCACAGTGTGCGT CTGC	CCGTCAAGTGGATCAG TGAA	59.7	305	INTERGENIC	--	--	--
Ca4_P2_30605971	Ca4	30605971	AATATATATATATATATATAT/AATATATA TATATATATATATATATATATAT	TCCGACATCACACCCA AAC	TCGGTGTTAAAAATCG GAGTG	60.0	850	INTERGENIC	--	--	--
Ca4_P2_30606887	Ca4	30606887	TAAAAAAAA/TAAAAAAAAA	GCAATTTGACGACGACT CAA	ATGTGCAGTTTTTGCCA CTG	59.8	294	INTERGENIC	--	--	--
Ca4_P2_30608454	Ca4	30608454	AC/A	TTGCCTCACGTGAAGA ATGA	CATTATGATGTTGGCA CGC	60.0	631	INTERGENIC	--	--	--
Ca4_P2_30619694	Ca4	30619694	CAAAAA/CAAAA	ACTCACTCTGCCCTGT GTT	CCAACTTGGTTCCAAC AAAAA	59.9	566	INTERGENIC	--	--	--
Ca4_P2_30621604	Ca4	30621604	ATTTTTTTTT/ATTTTTTTTTTT	TGGGCTTCAATTTAGT CTTG	CTGATGACAAAAGGGG GAGA	60.0	516	INTERGENIC	--	--	--
Ca4_P2_30628637	Ca4	30628637	ATTCTGGTCTG/ATTCTG	ATCGGGTTTGTCTGAT GGTG	ACAAACCAAGACCCAA CCAG	59.9	363	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30645520	Ca4	30645520	ATTTTTTTTT/ATTTTTTTT	GTTTGTGTTACGCTTG GCA	GTTGTCCCTGCCTTAC GTGT	60.0	377	INTERGENIC	--	--	--
Ca4_P2_30653740	Ca4	30653740	AC/ACC	TGCCCATGTATGCTAA CAA	GAATGATGTCGCGTA GGAT	59.9	513	INTERGENIC	--	--	--
Ca4_P2_30655579	Ca4	30655579	TAAAAAAAAA/TAAAAAAAAA	TTTTCTGGCCTAGCTCC TTG	TGCTCAAAGCATGTTG TTTCT	58.6	488	INTERGENIC	--	--	--
Ca4_P2_30686848	Ca4	30686848	ATGT/ATGTTGT	GAACAATTGAGAATGC GGGT	TCITTTCTTGCTGGCGT TTT	60.0	479	DRR	Ca_14210	S	bZIP
Ca4_P2_30675981	Ca4	30675981	TCCCCCCC/TCCCCCCC	ATCGGGCTCATTGTGT GAG	AGTTGGGAATGGATAG CACG	60.0	427	INTRON	Ca_14210	S	bZIP
Ca4_P2_30684801	Ca4	30684801	GGT/GGTGT	TGTTAGGATTGTGTG GGGT	GAAGTTGGGGATGAGG ACAA	59.9	605	INTERGENIC	--	--	--
Ca4_P2_30685617	Ca4	30685617	TTA/TTATCAATA	GGGAAGAATGGATTGT GGAT	GGATGTTTCATTCCAC CAAAG	59.3	192	INTERGENIC	--	--	--
Ca4_P2_30685756	Ca4	30685756	GTTTTT/GTTTTTTT	GGGAAGAATGGATTGT GGAT	TTTCTCCTATGTGGCAA CGC	61.2	649	INTERGENIC	--	--	--
Ca4_P2_30687259	Ca4	30687259	TTTA/TTTATTA	TCATCATTCATAGCTTG GGCT	AAATTTCCCAAGCAAAA GGG	60.3	393	INTERGENIC	--	--	--
Ca4_P2_30690397	Ca4	30690397	GTTTTTTTTT/GTTTTTTTTT	AAGTGAAACACGGAAC ACCA	TGCAACAACCTCGTTCT CAA	58.0	662	INTERGENIC	--	--	--
Ca4_P2_30697175	Ca4	30697175	CTTTT/CTTT	AGATTCCATGGCACACA CAA	CCCCAAGATTAAACAA GGCA	59.9	647	INTERGENIC	--	--	--
Ca4_P2_3069954	Ca4	3069954	TTTTATTTATTTATTTATTTAT/TTTTATT TATTTATTTATTTATTTAT	AAACCAAACTGGCGAA AAA	TGAGAAAACATATTGG GAAGGC	60.3	686	DRR	Ca_12105	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30723844	Ca4	30723844	CTAATTAA/CTAA	TGCTCATGAAGTAGCAA AATTGA	TCATCTTTGGCATGAG AATCA	59.2	837	INTERGENIC	--	--	--
Ca4_P2_30730238	Ca4	30730238	ATTGTGAAA/ATTGTGAAACTTTTTGTG AAA	TGTGGATTTTCAAGGTT CTCG	TCGAAAAAGCGGGATG TTAC	60.1	667	INTERGENIC	--	--	--
Ca4_P2_30731659	Ca4	30731659	CAAA/CAAAA	TATGGACGCACCAACAC AACT	GGCAACCACCAAAAAGA GAAA	60.1	606	INTERGENIC	--	--	--
Ca4_P2_30741967	Ca4	30741967	TCAATATTGAACA/T	ATCCGGTTCCTTTTGG TTC	TAAGGACCGGTGATCT GACA	59.1	656	INTERGENIC	--	--	--
Ca4_P2_30748634	Ca4	30748634	GTTTTTTTTTTT/GTTTTTTTTTTTTTTT	TTTAGTGAGCCACAAG GGG	AAGGGGATCCAAAATG GTGT	60.4	822	INTERGENIC	--	--	--
Ca4_P2_30753677	Ca4	30753677	ATTTTTTTT/ATTTTTTT	TTGAATGACAAACATTG AACTACAGA	TGGGAATTTATTTGCG GAGT	59.5	347	INTERGENIC	--	--	--
Ca4_P2_30755137	Ca4	30755137	ATTTTTTTT/ATTTTTTT	CAGTAGGAAGTCACATT CCCAGA	GCAACTGAGCTGAGAG CGTA	59.5	860	INTERGENIC	--	--	--
Ca4_P2_30760524	Ca4	30760524	ATT/ATTT	TTTGAAGCGGTCTCA CTCT	AAACGAATACTGCAAC GCAA	59.4	217	DRR	Ca_14211	--	ERF
Ca4_P2_30772757	Ca4	30772757	ATTTTTTTTTT/ATTTTTTTTTTT	TCGTACTTTGTTTTGAT TGCG	GCACCTATGAACCGTC CAAT	59.8	907	INTERGENIC	--	--	--
Ca4_P2_30774640	Ca4	30774640	TAAAAAAAAA/TAAAAAAAAA	CGAATCTGTAGCCGAA AAGC	TTGGGCTTATGTTACG AGTTCA	59.6	249	INTERGENIC	--	--	--
Ca4_P2_30774863	Ca4	30774863	TA/T	CGAATCTGTAGCCGAA AAGC	GGAAAGACCCGAATA ATGA	58.8	770	INTERGENIC	--	--	--
Ca4_P2_30782871	Ca4	30782871	GAAAAAAAA/GAAAAAAAA	CCGTGCTCTCTTGATT GGT	CAATTTGACAAGCCCC CTAA	59.9	789	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30790861	Ca4	30790861	TAAAAAAAA/TAAAAAAAAA	GAATTTTGGCCATCACC ACT	TGCTCGCACACCCAT TTTA	60.1	530	INTERGENIC	--	--	--
Ca4_P2_30791078	Ca4	30791078	AATATATATATATATATA/AATATATAT ATATATATA	TAAATGGGTGTGCGA GACA	ATAGGGCCCCAATT GCAG	60.3	199	INTERGENIC	--	--	--
Ca4_P2_30791534	Ca4	30791534	TTTTATTATTATTATT/TTTTATTAT TTATT	AATTGGGCCCTATCAT TTC	TGAGCTCAATTCGACT CATTT	59.0	639	INTERGENIC	--	--	--
Ca4_P2_30796000	Ca4	30796000	ATTTTTTTT/ATTTTTTTTTTTT	AGAAAACAAGGGGTCC AGGT	TGAATGGGAGAACACA AGCA	60.2	791	INTERGENIC	--	--	--
Ca4_P2_30797389	Ca4	30797389	CAAAAA/CAAAAAA	GGGAAACCTGTTGTCG TCAT	CTTCATGTTGTTCCACA CGC	60.2	518	INTERGENIC	--	--	--
Ca4_P2_30801791	Ca4	30801791	ACTC/ACTCTC	GGAATCCCTACATGCC TTTG	ATTACATGCCATAGTG GGGG	59.5	404	INTERGENIC	--	--	--
Ca4_P2_3081231	Ca4	3081231	TAAAAAAAAA/TAAAAAAAAA	TCGCCCTTAATTGTTT GTC	TGCTAGGTGGCCCTG TGAT	60.5	571	INTERGENIC	--	--	--
Ca4_P2_30821800	Ca4	30821800	TTTCTTCTT/TTTCTT	TTTGAGGACTTTCGG GTTG	GCTCATGGGATTGCAA CTTT	60.1	307	INTERGENIC	--	--	--
Ca4_P2_30841561	Ca4	30841561	GTCTTCTTCTC/GTCTTCTTCTTCT TCTTCTTC	TTGGTTGCTTCTTCTG GCT	TGACGTCTCCCATCA CAAA	60.1	617	INTERGENIC	--	--	--
Ca4_P2_30844654	Ca4	30844654	CTTTTTTTTT/CTTTTTTTTT	CACCTGCTTTTGACCCA TCT	GGCAATTGCTTTACGC TAGG	59.9	959	INTERGENIC	--	--	--
Ca4_P2_30857682	Ca4	30857682	ATTTTTTTT/ATTTTTTTTT	ATTTTCCACCGCATATC CAA	GTGAACCGCCTATTT AGCA	60.1	220	INTERGENIC	--	--	--
Ca4_P2_30866796	Ca4	30866796	A/C	AAGTTGCCTCTGCCTT GAA	ATGTTTGCAACCCGTT CTC	60.0	255	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30867064	Ca4	30867064	TGAAA/T	AAGTTGCCTCTGCCTT GAA	CACCCTTTTGGTTGCT CCTA	60.1	651	INTERGENIC	--	--	--
Ca4_P2_30868286	Ca4	30868286	A/AG	CAAAGAATCGTGCAAG AGCA	CGATAGTGCCATGTTT GCAT	59.6	730	INTERGENIC	--	--	--
Ca4_P2_30868944	Ca4	30868944	ATTTTTTTT/ATTTTTTTTTT	CATGGCACTATCGGCT AACA	TTTCTGGCTTCGTCCAA ATC	60.2	711	INTERGENIC	--	--	--
Ca4_P2_30870230	Ca4	30870230	GAAAAA/GAAAAA	TCAAGAAATGGCATGAA CCA	TTGAGTTCCTTTTGGG ATGC	60.1	434	INTERGENIC	--	--	--
Ca4_P2_30871301	Ca4	30871301	ATTTTTTTT/ATTTTTTTT	GCAACAAGAGCTTGGT ACGAG	TGCAGATTGGGTGTAT TGGA	59.9	369	INTERGENIC	--	--	--
Ca4_P2_30872091	Ca4	30872091	ATTTTTTTT/ATTTTTTTTTT	CCAAAAATCCAATTTTG CGT	TGGTTCCAACAATCTC CCTC	59.9	563	INTERGENIC	--	--	--
Ca4_P2_30873753	Ca4	30873753	GAAA/GAAAAA	CAAGCTCAAACTTCCAA ATTCA	ACCCCAAAATTGTTAAG GCA	59.3	190	INTERGENIC	--	--	--
Ca4_P2_30873864	Ca4	30873864	ACC/ACCC	CAAAGAGAGAACTTG CCCG	GGAAAGCGAGAAGTTG AACG	60.0	566	INTERGENIC	--	--	--
Ca4_P2_30880709	Ca4	30880709	ATT/ATTTT	TGCAGAGTAAACCAGC AACG	TTGCAAGTTGTGACTG AGGC	60.0	557	INTERGENIC	--	--	--
Ca4_P2_30880741	Ca4	30880741	CAA/CAAA	TGCAGAGTAAACCAGC AACG	TTGCAAGTTGTGACTG AGGC	60.0	557	INTERGENIC	--	--	--
Ca4_P2_30881744	Ca4	30881744	CAAAAAAAAA/CAAAAAAAAAA	CTTTTGCGGTTGTTG GTAT	CATTAAAGACAACGCC TAATCG	58.8	363	INTERGENIC	--	--	--
Ca4_P2_30883608	Ca4	30883608	GAAA/GAA	TGAAATTCATTACGCT CCA	TGTGCTTTCTTCTCTG CCT	60.1	495	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_30887008	Ca4	30887008	TCTCTC/TCTC	CCTGACCTACAAGCC AATC	GTAGTCTCGCAAGGAC TCCG	60.0	218	INTERGENIC	--	--	--
Ca4_P2_30928717	Ca4	30928717	TAAAAAA/TAAAAAA	CAATGTCCATGTCGAC CAAA	TCTGTCGCACCATCTC AGTC	60.0	949	INTERGENIC	--	--	--
Ca4_P2_30942574	Ca4	30942574	GTTTTTTT/GTTTTTTT	TTTGTGTGCCTTGATTG CTC	GTGCCAGAGGCAGAA TAAG	59.8	511	INTERGENIC	--	--	--
Ca4_P2_30955630	Ca4	30955630	TAAAAAA/TAAAAAA	CAAAGCCATGTTCTTT CCA	TGAGCAAATGAGGCAA AATG	59.8	579	INTERGENIC	--	--	--
Ca4_P2_30956638	Ca4	30956638	ATTTTTTT/ATTTTTTT	TTGTTGGTGAAATTCC GGT	GATGGATTTCTACCC CCTC	59.6	236	INTERGENIC	--	--	--
Ca4_P2_30956675	Ca4	30956675	CAATTTT/CAATTTAAATTT	TTGTTGGTGAAATTCC GGT	AGTGCATCGTTCTCT GCTT	59.9	661	INTERGENIC	--	--	--
Ca4_P2_30958639	Ca4	30958639	GAAAAA/GAAAAA	GCCAAACCAACTCATTC TTACA	CCCATCATAAATCTTTC AAACAA	59.3	664	INTERGENIC	--	--	--
Ca4_P2_30967907	Ca4	30967907	T/TTCTCTAAACCATG	CACATCCCTTGCCATTT CTT	AGTCGAATCTCGTTGC ACAAT	59.8	237	INTERGENIC	--	--	--
Ca4_P2_30968151	Ca4	30968151	CTTTTTTT/CTTTTTTT	CACATCCCTTGCCATTT CTT	CCCGCATTGTAAACCA TCTT	59.8	827	INTERGENIC	--	--	--
Ca4_P2_30976868	Ca4	30976868	GAAAA/GAAAA	CACGGGAGTTAATTTA GGACAA	TGTGAAGAGGCAATG AAAAA	58.4	598	INTERGENIC	--	--	--
Ca4_P2_31022687	Ca4	31022687	CTT/CTTT	TATGGCACATGCGAGG AATA	GGCCTTGGTAGAAGG AGAC	60.1	444	INTERGENIC	--	--	--
Ca4_P2_31024986	Ca4	31024986	CTTTTTTT/CTTTTTTT	GGGATTTGGTTAAGG GAGC	TTGAACTCACTCATCCA CGG	59.7	176	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31041871	Ca4	31041871	TGATG/T	AGCATGCCTCCAATGA GTCT	TTTGGGCTTGTTCTTG GAC	60.1	499	INTERGENIC	--	--	--
Ca4_P2_31054804	Ca4	31054804	CAA/CAAA	AAGGAATGTGTTTGG GCTG	GCCTTGCAATGGTAGT CACA	59.7	269	INTERGENIC	--	--	--
Ca4_P2_31055592	Ca4	31055592	TAAAAACAAAAACAAAA/TAAAAACAAA AACAAAAACAAAA	CATGCACAACCTGGTTA ATGG	TGTAATTGGTGGCGTT TGAA	60.0	460	INTERGENIC	--	--	--
Ca4_P2_3105955	Ca4	3105955	GTTTTTTTTTTTT/GTTTTTTTTTTTT	GGGGTCACAAACCTTA CCCT	AATGGCCTAGCCTACC CTGT	60.0	643	INTERGENIC	--	--	--
Ca4_P2_31063154	Ca4	31063154	AATATATATATATATATATAT/AATATA TATATATATATATATAT	GAGGGGATGAATCATT AACTCG	GTAAGACCCCGCATTG TGTT	59.9	499	INTERGENIC	--	--	--
Ca4_P2_31063577	Ca4	31063577	CATGA/CA	AACACAATGCGGGGTC TTAC	TTTCGCATGAACAACAA GAAA	59.3	674	INTERGENIC	--	--	--
Ca4_P2_31063707	Ca4	31063707	GGTT/GGTTGTT	AACACAATGCGGGGTC TTAC	CCAACATCCCATTCCT TGAA	59.7	738	INTERGENIC	--	--	--
Ca4_P2_31064264	Ca4	31064264	CTTTTGTTTT/CTTTGTTTTGTTCTTTT TTTGTTTT	TTAGTTCTCCTCCGTGG CTC	TGCACATTGGTGATTTT TCG	60.5	186	INTERGENIC	--	--	--
Ca4_P2_31079661	Ca4	31079661	TGG/TG	GCTCGTGTCATTGCAG AAAA	CCAATTACCACAGATTC GGG	60.2	337	INTERGENIC	--	--	--
Ca4_P2_31103766	Ca4	31103766	GAAAAAAAA/GAAAAAAAAA	CCCTACAATTCAGAGG GCA	TTTTGCGATTCCCGTA GTC	60.1	575	DRR	Ca_14221	U	bHLH
Ca4_P2_31104781	Ca4	31104781	TG/T	ACTGACGCTTTGTCATG TCG	GTGCTTGGGGTTTGT CTGT	60.0	610	INTRON	Ca_14221	U	bHLH
Ca4_P2_31106521	Ca4	31106521	CCTT/CCTTCTT	ATAAGAGTGTGGCGGT TTGG	TGGTTGAAATGGACGA CAAA	59.9	584	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31106765	Ca4	31106765	GAAAAAAAT/GAAAAAAATAAAAAA T	TTGTCGTCATTCAAC CAA	CTTGTATCCCTTCCC ACA	59.9	334	INTERGENIC	--	--	--
Ca4_P2_31108602	Ca4	31108602	GGAAGAA/GAA/GGAAGAAGAAGAA	GGATCAGGCCCTATTG TTGA	AGTTGGCTTTGCTTGA TGCT	60.0	476	INTERGENIC	--	--	--
Ca4_P2_31108864	Ca4	31108864	ACAAGCATCAAGCA/ACAAGCA	GGATCAGGCCCTATTG TTGA	CCAGAACTTGCATCCC CTTA	60.1	527	INTERGENIC	--	--	--
Ca4_P2_31109191	Ca4	31109191	ATTTT/ATTT	CTTGCAAGGATTGCTTC ACA	GAAGGCCATGTCCACA TCTT	59.9	456	INTERGENIC	--	--	--
Ca4_P2_31110947	Ca4	31110947	TAAAAA/TAAAA	GCTAAAGCAATCACCAA GGC	CGGTTTGGTGACATAG CTGA	59.9	412	INTERGENIC	--	--	--
Ca4_P2_31111668	Ca4	31111668	GAAAAAA/GAAAAAA	ATTGAAAAGGGGAGC TACA	AAATGTTTATCCACGCT GCC	60.0	434	INTERGENIC	--	--	--
Ca4_P2_31118703	Ca4	31118703	GA/G	CAGGCAATTTGTTGAC CCT	TTGGATGCTACTAGTG GGGG	59.9	634	INTERGENIC	--	--	--
Ca4_P2_31123070	Ca4	31123070	TAAAA/TAAA	CCCATATACCCATTGCC TTG	TTGGAATTCATCCCTG CAAT	60.3	300	INTERGENIC	--	--	--
Ca4_P2_31128051	Ca4	31128051	CT/CTCAT	CGGGATCGTCAGACTG TTTT	GCAACGTTTGCCCTT CATT	60.0	110	INTERGENIC	--	--	--
Ca4_P2_31128772	Ca4	31128772	GATA/GATACATA	CAACCTACGTTCTCGTG TTTGT	TCTTTAAATGCGGGGA TGTT	59.4	619	INTERGENIC	--	--	--
Ca4_P2_31137263	Ca4	31137263	TAA/T	CTTTTATTTAAGGTGCG CCG	TCCTGCCATCCAACCT TATC	59.9	660	DRR	Ca_14223	--	bHLH
Ca4_P2_31137294	Ca4	31137294	AG/A	CTTTTATTTAAGGTGCG CCG	TCCTGCCATCCAACCT TATC	59.9	660	DRR	Ca_14223	--	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31137565	Ca4	31137565	GAAAAA/GAAAAAA	TTTCCGAATCGGGAT ATGA	GTTCTGCCATCCAAC CTTA	59.9	113	DRR	Ca_14223	--	bHLH
Ca4_P2_31138420	Ca4	31138420	TAAAAA/TAAAAAA	CAAAGTGTTTGACTTA GCCCA	ATGAGGATGCAGAAGG CAGA	60.9	762	DRR	Ca_14223	--	bHLH
Ca4_P2_31140324	Ca4	31140324	TAAAA/TAAAAA	ACTTCCATTCGCTTCAG CAT	AAATGATTCTGGTGGG GACA	60.2	536	INTRON	Ca_14223	--	bHLH
Ca4_P2_31172727	Ca4	31172727	A/AC	TCTTTGGATGGGTCCA TGT	TTACACCAATCCCCCA AGA	60.2	663	INTERGENIC	--	--	--
Ca4_P2_31172943	Ca4	31172943	TA/T	TCGCCTAAGGTAAGGG CTTT	TTACACCAATCCCCCA AGA	60.2	421	INTERGENIC	--	--	--
Ca4_P2_31182932	Ca4	31182932	T/TC	CGCATATTAGCATGGA GGGT	TCGCTGAACCAAGAGT TCTT	60.1	317	INTERGENIC	--	--	--
Ca4_P2_31192815	Ca4	31192815	TGG/TG	TTGAAGGAGAAGCCAG AGTCA	TGAGGCATGCAGAAAC GTAG	60.0	238	INTERGENIC	--	--	--
Ca4_P2_31194912	Ca4	31194912	CTTTTTTTTT/CTTTTTTTTT	TTCCATGTTGTGTGA AGCA	GCACATTGCAAGGGTA TTGA	59.5	822	DRR	Ca_14224	--	S1Fa-like
Ca4_P2_31195163	Ca4	31195163	GAAAAAAA/GAAAAAAA	TTTCCCGACTTGGTCCT TTA	TGCATGCAGATCTTGC TCTC	60.3	643	DRR	Ca_14224	--	S1Fa-like
Ca4_P2_31200114	Ca4	31200114	TA/TAGACCA	TTGTCTTAGGCAGCACT GGA	TGGTGAACGAAAGTGA CGTG	60.8	903	INTERGENIC	--	--	--
Ca4_P2_31222344	Ca4	31222344	ATTTTTTTTT/ATTTTTTTTT	TTGAACGCTACATTCAC GTTG	TTTGAAATCCCAAAAT GCC	59.8	748	INTERGENIC	--	--	--
Ca4_P2_31222733	Ca4	31222733	GAC/GACAC	GAGGGCAATTGGGAT TTTC	TGACAAGTTTATGTGTG GGGG	60.7	523	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31228747	Ca4	31228747	ATTTT/ATTT	GCAGCAAAGTTACAAA CCCA	TCCATCTCAAAATATCA GCAAAAA	60.0	975	DRR	Ca_14227	C	--
Ca4_P2_31230420	Ca4	31230420	TTCTCTCTCT/TTCTCTCTCT	CTTTCCATCTCACTCCC TCG	TAGCCGACAGGGTCTC AGTT	59.9	435	INTERGENIC	--	--	--
Ca4_P2_31235705	Ca4	31235705	ATTTTTTTTT/ATTTTTTTTT	CAATTGCGGTTTCCACT TTT	TTTCATGCATTTTCAATG GGA	59.9	434	INTERGENIC	--	--	--
Ca4_P2_31236090	Ca4	31236090	ATATTATTATTATT/ATATTATTATTA TT	CAATTGCGGTTTCCACT TTT	TTTTTACCGTGGGTGA ATCC	59.7	956	INTERGENIC	--	--	--
Ca4_P2_31248260	Ca4	31248260	CAA/C	AAAAGCGCTGTAAAATG CGT	GACACGTTTGCATACC AATGA	59.5	629	DRR	Ca_14228	--	Trihelix
Ca4_P2_31248427	Ca4	31248427	TAAAAAA/TAAAAA	AAAAGCGCTGTAAAATG CGT	GACACGTTTGCATACC AATGA	59.5	629	DRR	Ca_14228	--	Trihelix
Ca4_P2_31248634	Ca4	31248634	ACC/AC	TGGGTCATTTCTCATT TGTCG	TGCTATGCCTTTTGATC GC	59.9	645	DRR	Ca_14228	--	Trihelix
Ca4_P2_31251511	Ca4	31251511	GTTTTTTT/GTTTTTTTT	AACCCATGCTCAAGTG GTTC	CAAGCGCATTTGTCCC TTAT	60.1	894	INTERGENIC	--	--	--
Ca4_P2_31254902	Ca4	31254902	TAAAAAAAAA/TAAAAAAAAA	CCCTCTTCTCTGTTTG GTTTG	GGAAACTGCTCTGGTA AGCG	60.0	338	DRR	Ca_14229	R	bHLH
Ca4_P2_31255173	Ca4	31255173	ACAG/ACAGGCAG	CGCTTACCAGAGCAGT TTCC	GACCCAATAACCCCAA CCTT	59.9	285	DRR	Ca_14229	R	bHLH
Ca4_P2_31255343	Ca4	31255343	GAAAA/GAAAAA	CGCTTACCAGAGCAGT TTCC	GAGAGAAGTGCTTTTG CGGG	60.0	681	DRR	Ca_14229	R	bHLH
Ca4_P2_31258911	Ca4	31258911	GTT/GT	CAGGTCGTGCCAATTC TTTT	GGCTAGGATTGCAAC AGGT	59.2	264	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31259145	Ca4	31259145	GATATATATATATATATATATAT/GAT ATATCTATATATATATATATATATATA T	CAGGTCGTGCCAATTC TTTT	TTCATTGACGAATGTAC CATCA	58.9	404	INTERGENIC	--	--	--
Ca4_P2_31262288	Ca4	31262288	AATA/AATATA	TCACAAATGAGAGGAG ACGAGA	AATTTTCCATCCATTGC TGC	59.9	793	DRR	Ca_14230	R	MYB_related
Ca4_P2_31268063	Ca4	31268063	ATTTTTTTTTTTT/ATTTTTTTTTTT	CGATCAACGTCCCTTCT TTC	CACAACCCATATCATG CAAAAA	59.9	746	INTERGENIC	--	--	--
Ca4_P2_31268618	Ca4	31268618	TAAAAAAA/TAAAAAAA	TTTTTGCATGATTAGGG TTGTG	CGAGTGCGAGATAGAT TGGA	59.0	249	INTERGENIC	--	--	--
Ca4_P2_31268857	Ca4	31268857	ATTTTTTTTTTT/ATTTTTTTTTTT	TCCAATCTATCTCGCAC TCG	GAAAACCCAAACACG GAAA	59.8	491	INTERGENIC	--	--	--
Ca4_P2_31268906	Ca4	31268906	TAA/TA	TCCAATCTATCTCGCAC TCG	GAAAACCCAAACACG GAAA	59.8	491	INTERGENIC	--	--	--
Ca4_P2_31271135	Ca4	31271135	TAAAA/TAAAA	TGTTTCCTTTGTATGCA TTCCTT	GGCTACAATTCAACAG TCTTGTG	58.8	753	INTERGENIC	--	--	--
Ca4_P2_31274077	Ca4	31274077	GTTTTTTTTTTTTTTTTT/GTTTTTTT TT	TTGTTTATCTGCCGTT TGA	GTTGCTGGTGTGTGCC ATAG	60.2	751	INTERGENIC	--	--	--
Ca4_P2_31274891	Ca4	31274891	TTTAT/TTT	CTATGGCACACACCAG CAAC	GATCAAGTAGGGCGGA TTCA	60.0	699	INTERGENIC	--	--	--
Ca4_P2_31274972	Ca4	31274972	TAAAAAAA/TAAAAAAA	CTATGGCACACACCAG CAAC	GATCAAGTAGGGCGGA TTCA	60.0	699	INTERGENIC	--	--	--
Ca4_P2_31275360	Ca4	31275360	ATTTTTTTTT/ATTTTTTTTT	TTCAATTAGGGTTTGGG TCG	ACAGTTTGTGCGTTGT TGGT	59.1	631	INTERGENIC	--	--	--
Ca4_P2_31279281	Ca4	31279281	ACCC/ACC	GCCACCTGTCCAACCT CCTA	ATACCAAGAGGGTAT GGGC	60.0	454	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFS
Ca4_P2_31281553	Ca4	31281553	CAA/CA	TAGTACCTGTACCCGC ACCC	ACAAAACGCCAATGAC ACAA	60.0	471	INTERGENIC	--	--	--
Ca4_P2_31284485	Ca4	31284485	ATT/ATTT	ATGGCTACTCCAATGCA TCC	ACATGGCTCCCCCTTA CTCT	60.0	962	INTERGENIC	--	--	--
Ca4_P2_31288200	Ca4	31288200	AGAGGAAAAGAAGAACGAGGAAAAGAA GAA/AGAGGAAAAGAAGAA	TATCACCTCAGATCCA GCC	TAGCTTGGGCCTCAA CTAT	60.0	594	INTERGENIC	--	--	--
Ca4_P2_31291385	Ca4	31291385	A/ATTT	GTTTTCCTGCTTGGGAT GAA	ACTCCGACAATGGAAC AAGG	60.0	339	INTERGENIC	--	--	--
Ca4_P2_31297319	Ca4	31297319	TCAAC/TCAACAAC	GCACCAAAATAAACCA ACCA	TGCAGTTCTGAACCGA TTTG	59.8	390	INTERGENIC	--	--	--
Ca4_P2_31298440	Ca4	31298440	CTTTTTTTTT/CTTTTTTTTTTT	GTTTGGAAGGGAGGGG AGTA	AACAGTACAGCAACCC CACC	59.9	628	DRR	Ca_14231	--	bHLH
Ca4_P2_31302749	Ca4	31302749	GAAAAAAAAA/GAAAAAAAAA	CACCCACACCAAACTC TCT	GTTAGTTGGACGGGA CCTC	60.7	680	INTRON	Ca_14231	--	bHLH
Ca4_P2_31302962	Ca4	31302962	AATTGT/A	AGAAAAATGTCGCTGG AACG	TCAGCACCAGAGGTGT CAAC	60.0	903	INTRON	Ca_14231	--	bHLH
Ca4_P2_31303190	Ca4	31303190	CTTTTTTTTT/CTTTTTTTTT	GAGGTCCGTCACCAAC TAAC	TCAGCACCAGAGGTGT CAAC	60.0	488	INTRON	Ca_14231	--	bHLH
Ca4_P2_31307742	Ca4	31307742	CAAAAA/CAAAA	GGTCGCGTAGACCTTC AGAG	AAGCATTTGATCGTCT GGCT	59.8	166	INTERGENIC	--	--	--
Ca4_P2_31312729	Ca4	31312729	CTTTTTTTTT/CTTTTTTTTT	GATGCTTTTCCTTCA GCC	TCTTTGACCAAGTTGAA AAGAAGAT	59.7	341	INTERGENIC	--	--	--
Ca4_P2_31317473	Ca4	31317473	ATTTTTTTT/ATTTTTTTT	TGAGGCGTCATGGTAG AACA	CAAATCGACATTGTTG CCAG	60.1	707	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31317508	Ca4	31317508	TAAAAAAA/TAAAAAAA	TTGCGCATCAGCCATATTG	CAAATCGACATTGTTGCCAG	60.1	509	INTERGENIC	--	--	--
Ca4_P2_31322872	Ca4	31322872	GAAAAAAA/GAAAAAAA	CTCCTAAGGGTGGCCTTTTC	GGGTGTCTTGGACCTTCA	59.9	623	INTERGENIC	--	--	--
Ca4_P2_31322894	Ca4	31322894	GAAAAAAA/GAAAAAAA	CTCCTAAGGGTGGCCTTTTC	GGGTGTCTTGGACCTTCA	59.9	623	INTERGENIC	--	--	--
Ca4_P2_31327989	Ca4	31327989	ATTTT/ATTTT	TTGAAATGCGTATGATGGA	ACGCCACTTGCTTTTCT	59.9	465	INTERGENIC	--	--	--
Ca4_P2_31332105	Ca4	31332105	ATTTT/ATTT	GCACATGTGTGGGTTGACTC	TTGAACCAACATGATCCAATTC	59.7	557	INTERGENIC	--	--	--
Ca4_P2_31346807	Ca4	31346807	ATTTTTTTTT/ATTTTTTTTT	TGGACGAAAGAGTTGTGTCA	TATGCATCTGACGATCTGCG	60.9	468	INTERGENIC	--	--	--
Ca4_P2_31349174	Ca4	31349174	TAAAAAAA/TAAAAAAA	TCGATTATCAAGGTTGCGTT	TCCAACACAATCCTTCGCG	60.1	779	INTERGENIC	--	--	--
Ca4_P2_31350277	Ca4	31350277	CCAA/CCAAAACAA	CAAAATGCAAGAACCCTTT	GCTCTTGCTCCTCATCCAC	60.0	134	INTERGENIC	--	--	--
Ca4_P2_31360317	Ca4	31360317	TAAAAAAA/TAAAAAAA	ACTCATATGACGGGTGCAT	GGCAGACGTTGAAAGCTAA	60.4	715	DRR	Ca_14232	--	Trihelix
Ca4_P2_31384014	Ca4	31384014	CTTTTTTTTT/CTTTTTTTTT	TCGACTAAAAGATTTTGGAAAGATT	GAGCCAACGATTTGTTGA	59.8	391	INTERGENIC	--	--	--
Ca4_P2_31387262	Ca4	31387262	CTTTTT/CTTTTT	CGAAACCGTAACCTACGAA	GCCACTTACAGCGCTTTTC	60.0	580	INTERGENIC	--	--	--
Ca4_P2_31387318	Ca4	31387318	CTTTTTTT/CTTTTTTT	TGCCCTCGTCAAACTAACTAA	AGCCACTTACAGCGCTTTT	59.2	277	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_31392404	Ca4	31392404	AT/A	CTCAAATCGAACCTCC AAA	AAGCCAGGTGGTTGT TGAC	60.0	403	INTERGENIC	--	--	--
Ca4_P2_31406944	Ca4	31406944	GTTTTTTTT/GTTTTTTTTT	CAAATTATACTCGCACA ACTTGC	AAAGTGGACAAACACA AAACGA	59.6	782	INTERGENIC	--	--	--
Ca4_P2_31414937	Ca4	31414937	GTTTTTTT/GTTTTTTTT	GGAATACCGCATGCAA ATCT	TGGTATCGGGAGAGAG GAGA	59.8	847	INTERGENIC	--	--	--
Ca4_P2_31424757	Ca4	31424757	GTTTTTT/GTTTTTTTT	AATTGGCGAAACCACT TTT	TGCACTTGTGGGGTT GATA	60.0	501	INTERGENIC	--	--	--
Ca4_P2_31445256	Ca4	31445256	ATT/ATTT	AGATCTATGCATCGGC AACC	AGGGTACTACAGCTGC CCCT	60.2	338	INTERGENIC	--	--	--
Ca4_P2_31449673	Ca4	31449673	TA/T	TTCCGCCATTCCATAA GTA	CCCTTTTTGTGAAGCAA GGA	60.2	353	CDS (FRAME SHIFT)	Ca_15433	E	TALE
Ca4_P2_31451186	Ca4	31451186	TCC/TC	CAGCACCAATGGTTGA AATG	CACGTCGATCTTTGAC ACTCA	59.9	657	INTRON	Ca_15433	E	TALE
Ca4_P2_31452576	Ca4	31452576	CTTTTTTT/CTTTTTTTTT	CCACTCGTGGTCCCTT AACT	TCGGCTAAATACCATTT GTGG	59.8	566	INTERGENIC	--	--	--
Ca4_P2_31463756	Ca4	31463756	CTTTTTTT/CTTTTTTTTT	GGCTCCTGCATCAGTT AGC	GAAAACCGATTAGGGA TTCG	58.5	683	INTERGENIC	--	--	--
Ca4_P2_31509721	Ca4	31509721	CATATATATATATATATAT/CATAT ATATATATATATATAT	TGTTCACTAGCACCGTA GCG	TTATGGAGCCCCGATT AAAA	59.4	570	INTERGENIC	--	--	--
Ca4_P2_31511106	Ca4	31511106	TTATATATATATATATATATA/TTATAT ATATATATATATATATATA	TGTGGGGTGATTAGTG GGTT	TTGAATGCTGAAATTG GGTT	59.4	454	INTERGENIC	--	--	--
Ca4_P2_31529637	Ca4	31529637	CTTTTTTTTT/CTTTTTTTTT	CCAAATCCGATGAGGA AAGA	TTTAAGACCCGCGATT CAG	60.2	820	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31531525	Ca4	31531525	G/GGT	AGGGATTGCTTGCAAT GAC	AATTCCCAACCAATAG CCC	60.0	387	INTERGENIC	--	--	--
Ca4_P2_31532942	Ca4	31532942	CTTATTTATTTATT/CTTATTTATTTATT ATT	CAGGCTGTGAAGTGAG ACGA	GCTACGAAATCGCAAT GAAA	58.9	644	INTERGENIC	--	--	--
Ca4_P2_31534458	Ca4	31534458	CAAAAAA/CAAAAAAAA	CAAGCCAACGTGTGTT GTT	TGTGGGGGATCAAATT GTTT	60.0	371	INTERGENIC	--	--	--
Ca4_P2_31546446	Ca4	31546446	TAAA/TAAAAA	CAGCATTTTCCCCTTGA CAT	TTTATGCCATTTTGCGT TCA	60.1	499	INTERGENIC	--	--	--
Ca4_P2_31549537	Ca4	31549537	A/AT	AAATCCAACTTTGCAG TCTTGA	CCAAACTGCAATTGAA AGG	58.3	218	INTERGENIC	--	--	--
Ca4_P2_31549926	Ca4	31549926	TAAAAAA/TAAAAAAA	TCCTTTCAATTGCAGTT TTGG	CAAAGCGGTTTCATC ATCT	60.1	801	INTERGENIC	--	--	--
Ca4_P2_31549950	Ca4	31549950	AT/A	TCCTTTCAATTGCAGTT TTGG	CAAAGCGGTTTCATC ATCT	60.1	801	INTERGENIC	--	--	--
Ca4_P2_31560045	Ca4	31560045	ATTTTTTTTT/ATTTTTTTT	GGATATCCCACTGCAA GGAA	AACCTGTATCCACAA GCG	60.0	608	INTERGENIC	--	--	--
Ca4_P2_31561636	Ca4	31561636	CTTT/CTT	TGCCAAAGTTCCTTTGT TGA	CGTGTCCCACTAACAC CACA	60.5	502	INTERGENIC	--	--	--
Ca4_P2_31561946	Ca4	31561946	GAAA/GAAA	TGTGGTGTAGTGGGA CACG	TGGGACAACCATCTTT TCAG	60.0	532	INTERGENIC	--	--	--
Ca4_P2_31568988	Ca4	31568988	CTTTTTTTTT/CTTTTTTTTTT	TGCGTACATCAATGGA GGTTT	CGTGTATCGAACATCA TGCC	60.0	552	INTERGENIC	--	--	--
Ca4_P2_31570022	Ca4	31570022	TGGGGGG/TGGGGGGG	TATTTTGGATTTTGCT CGG	AGGAAGAGTGGAGTTG CGAA	60.0	505	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31609144	Ca4	31609144	ATTTT/ATTT	TCGACGTTTATTTGATG GCA	TTGAGAACTTAATTGT GGCA	59.6	651	DRR	Ca_15441	A	--
Ca4_P2_31611840	Ca4	31611840	GTTTTTTTTT/GTTTTTTTTTTT	CGTTTTTCAGCTGAGCAA ATTG	TTGATCCATTGGGATT GTGA	59.7	392	INTERGENIC	--	--	--
Ca4_P2_31611867	Ca4	31611867	AAT/AATAT	CGTTTTTCAGCTGAGCAA ATTG	TTGATCCATTGGGATT GTGA	59.7	392	INTERGENIC	--	--	--
Ca4_P2_31612473	Ca4	31612473	TAAAAAA/TAAAAAAA	TAAATCCAAAACCGCA AGC	CACTTAAGCAAACGGG GTGT	60.0	462	INTERGENIC	--	--	--
Ca4_P2_31616497	Ca4	31616497	ATTTTTTTTTTT/ATTTTTTTTTTT	TTTGTCCATCCACACA ATG	AACCTGAAAGAGGGCA ACCT	60.2	202	INTERGENIC	--	--	--
Ca4_P2_31622995	Ca4	31622995	GA/GAA	TTCCAAAAGAAAGGCAC AAGA	TATGGCCTTTGGTGAA GACC	59.9	323	INTERGENIC	--	--	--
Ca4_P2_31626932	Ca4	31626932	ATTTTTT/ATTTTT	GATGTTGAGAACTGCA GCCA	AACCCCAAGGTTTTGA AAGT	59.7	862	INTERGENIC	--	--	--
Ca4_P2_31628781	Ca4	31628781	ATTT/ATTTT	ATTGCAAGCACCATTT ACC	CGAGCACGCATCTATG ATTT	58.9	305	INTERGENIC	--	--	--
Ca4_P2_31630531	Ca4	31630531	AGG/AG	AGTTGAAGGTGCAAAC ACGA	AATTTACTGGAGGGT CGGG	60.2	288	INTERGENIC	--	--	--
Ca4_P2_31630588	Ca4	31630588	TC/T	AAGGTGCAACACGAG AAGG	AATTTACTGGAGGGT CGGG	60.2	283	INTERGENIC	--	--	--
Ca4_P2_31631071	Ca4	31631071	TAAAAAA/TAAAAAAA	ACCCGACCCTCCAAGT AAAT	TGATGAAACTACCAA GTTGAAA	59.6	511	INTERGENIC	--	--	--
Ca4_P2_31631888	Ca4	31631888	AAAA/AAAATAAA	CCAACCTGGTTCCAACA TCTG	TGGCTAATCATAGCGA AACG	58.9	832	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_31633774	Ca4	31633774	AG/AGG	AAATATTGTTCAATCG CCG	CTCCTCCAAGCCAAGT GAAG	60.0	491	INTERGENIC	--	--	--
Ca4_P2_31634027	Ca4	31634027	CAA/CAA	CACTTGGCTTGGAGGA GAAG	TTCCCAAGTGTGA GTGA	60.1	315	INTERGENIC	--	--	--
Ca4_P2_31635242	Ca4	31635242	ATTACCT/A	TCAATGTGAACGGCA TCTA	TGGTGCCTCCTACAAT TTCC	59.9	778	INTERGENIC	--	--	--
Ca4_P2_31635868	Ca4	31635868	AAT/A	GGAAATTGTAGGAGGC ACCA	GTTGCGCTACGAGATG TTGA	60.0	695	INTERGENIC	--	--	--
Ca4_P2_31639620	Ca4	31639620	GTTTT/GTTTTT	ATTTGGAGAATGATTG GCG	GTGTTGGTTCAAGGG GAGA	59.9	412	INTERGENIC	--	--	--
Ca4_P2_31640017	Ca4	31640017	AATCACTCATATAT/AATCACTCATATAT ATCACTCATATAT	TGATTTGGCGATTGTT TGA	CTAGATGTCTCCAGAC GCCC	59.8	617	INTERGENIC	--	--	--
Ca4_P2_31642398	Ca4	31642398	TAAAAAAAA/TAAAAAAAAA	TGTCACTGCACTGCCA CATA	TTCCGGCAAAGTTCT CATAA	59.7	482	INTRON	Ca_15442	U	EIL
Ca4_P2_31643009	Ca4	31643009	GTAGTGA/GTAGTGATGTGA	AAGAATCTATTGTCGG GGGA	CGCCAACTCGTTTTT ATT	60.1	385	INTRON	Ca_15442	U	EIL
Ca4_P2_31644451	Ca4	31644451	TA/T	AATGTCGGGAGTTTTCA TCG	GCCATCTTAGGCTTTC CCTT	59.7	953	INTRON	Ca_15442	U	EIL
Ca4_P2_31646633	Ca4	31646633	AA/AACA	ATGGAGAAGAGGGGA GTGT	ACCAGTCTTTTACGG CCTT	60.0	135	INTRON	Ca_15442	U	EIL
Ca4_P2_31647747	Ca4	31647747	ATT/AT	CACGTGTGAAGGTCGA GAGA	AAGCTACCTGATCAAT GCGG	60.2	863	INTRON	Ca_15442	U	EIL
Ca4_P2_31647770	Ca4	31647770	GTTTTTTTT/GTTTTTTTT	CACGTGTGAAGGTCGA GAGA	AAGCTACCTGATCAAT GCGG	60.2	863	INTRON	Ca_15442	U	EIL

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_31649175	Ca4	31649175	GTTTTTTT/GTTTTTTT	CATCCTTTATGTGACGC CCT	TTTGTGCGGTCAATTCGA TCA	60.0	165	INTRON	Ca_15442	U	EIL
Ca4_P2_31649916	Ca4	31649916	AT/A	TGAGGCATTTGGAGAC AACA	ATTGACCGGTGGAAGA CATT	59.3	585	INTRON	Ca_15442	U	EIL
Ca4_P2_31649942	Ca4	31649942	CT/CTT	CGTGCCCTGCAGGTAT TTAT	ATTGACCGGTGGAAGA CATT	59.3	454	INTRON	Ca_15442	U	EIL
Ca4_P2_31649993	Ca4	31649993	GAAAAA/GAAAA	CGTGCCCTGCAGGTAT TTAT	ATTGACCGGTGGAAGA CATT	59.3	454	INTRON	Ca_15442	U	EIL
Ca4_P2_31650019	Ca4	31650019	TAAA/TAAAA	CGTGCCCTGCAGGTAT TTAT	ATTGACCGGTGGAAGA CATT	59.3	454	INTRON	Ca_15442	U	EIL
Ca4_P2_31652250	Ca4	31652250	CTTTT/CTTTT	CCATTACCCTTTCGTGA TGC	TGAAAGCAAAGCCACG TATG	59.9	796	DRR	Ca_15442	U	EIL
Ca4_P2_31653241	Ca4	31653241	GATAAA/GATAAAAAATAAA	TTCAAACGATGGCAACA AAA	TCATGGGATTAAGCCT CCAC	59.9	268	DRR	Ca_15442	U	EIL
Ca4_P2_31653364	Ca4	31653364	AC/ATGACC	TTCAAACGATGGCAACA AAA	TCATGGGATTAAGCCT CCAC	59.9	268	DRR	Ca_15442	U	EIL
Ca4_P2_31703062	Ca4	31703062	AT/A	TGTGGTTGTGAGTTGG ATGG	TGGTTTGCACCGTTAG TCCT	60.6	562	INTERGENIC	--	--	--
Ca4_P2_31718401	Ca4	31718401	AT/ATT	ATTCTCTAATGTCGGG GCT	GCCACCTTGTGAGAG TTTC	59.7	501	INTERGENIC	--	--	--
Ca4_P2_31720164	Ca4	31720164	ATTTTTTTTT/ATTTTTTTTTT	AGGGAGGGGAAGAAAC AGAG	TACCTCAGCCATTGGA CACA	60.1	712	INTERGENIC	--	--	--
Ca4_P2_31724488	Ca4	31724488	GAAAAAAAAA/GAAAAAAAAA	CCTGAGGGGTTTGTC CTTT	TCCATCAGCAAATGCA CCTA	60.2	324	INTRON	Ca_15445	G	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_31731129	Ca4	31731129	CAAAAAAAAA/CAAAAAAAAA	AGGTCATAGCAGCTC CAAA	TCGCAAAGGAAAAATC CAAT	59.5	527	INTRON	Ca_15445	G	--
Ca4_P2_31734174	Ca4	31734174	TGAGAGAGA/TGAGAGA	CGGTCCCTCCTTCTGAT TTT	CCACAGAATCGGTCTC CCTA	60.1	303	INTERGENIC	--	--	--
Ca4_P2_31751264	Ca4	31751264	CAAAAA/CAAAAA	TCTCGTGAAAATGGA CCTC	ATCGGGATGCCCTAAT TCTT	59.8	232	INTERGENIC	--	--	--
Ca4_P2_31754106	Ca4	31754106	TAAAAAAAA/TAAAAAAAA	GAACTGCCAAGTTATC GCAA	AGCAAAATCTGCACC AACC	60.1	325	DRR	Ca_15446	--	--
Ca4_P2_31754266	Ca4	31754266	CTTTTTTTTT/CTTTTTTTTT	GGTGGTGCAGATTTT GCT	AGCACAAAGGCAGAGA AGGA	60.1	266	DRR	Ca_15446	--	--
Ca4_P2_31754313	Ca4	31754313	CTTTTTTTTT/CTTTTTTTTT	GGTGGTGCAGATTTT GCT	AGCACAAAGGCAGAGA AGGA	60.1	266	DRR	Ca_15446	--	--
Ca4_P2_31757461	Ca4	31757461	CTTTTTTTT/CTTTTTTTT	TATGCTAAACCAACGC CTC	TTTTCTGACTTGGTC CTTT	57.8	383	DRR	Ca_15447	R	bZIP
Ca4_P2_31759099	Ca4	31759099	CTTTTTTTTTT/CTTTTTTTTTT	TCTCCCACCATCCACT TAG	CTCCACCTCCCCCTAT TCAT	60.1	847	INTRON	Ca_15447	R	bZIP
Ca4_P2_31806633	Ca4	31806633	ATGTGACTAATTTT/ATGTGACTAATTT GTGACTAATTTT	ACAAAAGCCTGGATAG CGAA	TCACATATACCCTTAA ATCGCA	58.6	410	INTERGENIC	--	--	--
Ca4_P2_31816562	Ca4	31816562	ATTTTTTTTTT/ATTTTTTTTTT	GGCTCCGATCAAAAGA AACA	GCCCTCAGATGAGAGT CAGG	59.9	545	INTERGENIC	--	--	--
Ca4_P2_31833854	Ca4	31833854	ATTTTTT/ATTTTTT	ACCAACCTCTGTTTGTG GGT	CTCGCCGTTCTCTCCA CTAC	60.0	121	INTERGENIC	--	--	--
Ca4_P2_31837048	Ca4	31837048	ATTTTTTTTTTTT/ATTTTTTTTTTTT T	TTCTGGATGGACATTT CTTTTT	GCATTTCCATGGTCTC CATT	59.8	578	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31837452	Ca4	31837452	ATTTTTTTT/ATTTTTTTT	TGGAGACCATGGAAT GCTT	TTTGTGAATAGTCCAT GCTTCA	59.6	456	INTERGENIC	--	--	--
Ca4_P2_31859170	Ca4	31859170	GATAATA/GATA	CCTCGATGGATAAGGG TGAA	AAAATTGTCGACCAATC ACTTG	59.0	418	INTERGENIC	--	--	--
Ca4_P2_31859597	Ca4	31859597	TAAAAAAAA/TAAAAAAAAA	GTTGGAGCCCCACTT TATT	TGCAAGCAGCATCAGA GAAC	60.3	793	INTERGENIC	--	--	--
Ca4_P2_31861646	Ca4	31861646	CTTTTTTTTT/CTTTTTTTTTT	TTTTGATGATTCACCTG CTCA	TATCCGCTCAATGATGT CCA	60.0	473	INTERGENIC	--	--	--
Ca4_P2_31885833	Ca4	31885833	AAGTTAGTTA/AAGTTA	TTCCATTGCAATTTCCA ACA	AACGCGGTAGTTCTTG GATG	60.1	128	INTERGENIC	--	--	--
Ca4_P2_31892250	Ca4	31892250	CTTTTTTTT/CTTTTTTTT	AACCGTTAACCACCGAA ACA	TGCGGTCAACACACTT AGGA	60.3	520	INTERGENIC	--	--	--
Ca4_P2_31894163	Ca4	31894163	AAGAGAGA/AAGAGAGAGA	CCCCACCAACCAATCA TAG	AAACCCGCATATCTTT TCC	60.2	928	INTERGENIC	--	--	--
Ca4_P2_31917120	Ca4	31917120	AG/A	ACCATGAAACCTTCGAC CTG	TTGATTGGTGTTCGT CCA	60.0	235	INTERGENIC	--	--	--
Ca4_P2_31921150	Ca4	31921150	CAAAAAAAAA/CAAAAAAAAA	GGGATAACTTGCTTTTG CGA	TTGAACACATTAGCAA GCC	59.8	540	DRR	Ca_15453	--	--
Ca4_P2_31929869	Ca4	31929869	TAATAAATAAATAAATAA/TAATAAATA AA	CCATGCTTTCAAAATG CCT	TTTGAAGACTTTTGG GCTC	59.3	961	INTERGENIC	--	--	--
Ca4_P2_31930111	Ca4	31930111	AATATATATATA/AATATATATATATATA	GAGGAGCATTGATGGA GGAA	TTTGAAGACTTTTGG GCTC	59.3	574	INTERGENIC	--	--	--
Ca4_P2_31931258	Ca4	31931258	TAAAAAAAA/TAAAAAAAA	TCAAACCCGAGAACAA GTGA	TAACAAGCGCGCAATG TATC	59.9	595	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31931370	Ca4	31931370	TAAAAAAAA/TAAAAAAAA	TACGTGTGGATTGCCT ACG	TGTTTGACCTTTTACA GCG	59.9	430	INTERGENIC	--	--	--
Ca4_P2_31934155	Ca4	31934155	ATTTTTTTT/ATTTTTTTT	ACAGTTTACCTCCCAC CCC	GTCTTTTCTCCCTTT CCG	60.0	835	INTERGENIC	--	--	--
Ca4_P2_31934185	Ca4	31934185	ATATTATTATTATT/ATATTATTATTA TTATTATT	ACACTCTTTCTCACCC CCA	GTCTTTTCTCCCTTT CCG	60.0	750	INTERGENIC	--	--	--
Ca4_P2_31937240	Ca4	31937240	TGG/TGGG	CTAAGGCCCTATGTGC AAGC	CGAGACTACTCGTGG CTTC	60.0	835	CDS (FRAME SHIFT)	Ca_15455	--	Dof
Ca4_P2_31948252	Ca4	31948252	AAA/AAATAA	AAAATGCATATATTAAT TCATCCCAA	CTGCATGTGCAATTGT GTCA	60.3	385	INTERGENIC	--	--	--
Ca4_P2_31950817	Ca4	31950817	ATTTTTTTTTT/ATTTTTTTTTT	GAGCAACAGTCAGTGG CGTA	CAACGCGAGCAAAATA TCAA	59.8	742	INTERGENIC	--	--	--
Ca4_P2_31954873	Ca4	31954873	TAAAAAAAA/TAAAAAAAA	CACCCCTCACATACTCG GAT	TGTGTTCAGAATCATC GTCA	60.1	586	INTERGENIC	--	--	--
Ca4_P2_31966507	Ca4	31966507	TC/T	AGGAAAAGGAAGGGCT TGAA	TCGTTTCAATGTTAGTG ACGG	58.7	537	INTERGENIC	--	--	--
Ca4_P2_31967496	Ca4	31967496	ATTTTTT/ATTTTTTTT	TACCCTTAATGGCTGG GATG	AAAAACACTTGCGATG ACCC	60.0	510	INTRON	Ca_15456	--	--
Ca4_P2_31967535	Ca4	31967535	T/TC	TACCCTTAATGGCTGG GATG	AAAAACACTTGCGATG ACCC	60.0	510	INTRON	Ca_15456	--	--
Ca4_P2_31967596	Ca4	31967596	GT/GTTTT	ATCATCAAAAGGGTCAT CGC	AGGAACGATGCAAGGA AGAA	59.8	257	INTRON	Ca_15456	--	--
Ca4_P2_31972811	Ca4	31972811	CT/CTT	TTTGTGAAATTGGTTCC CTG	GGTCCAGCAGCATAGG ACAT	60.1	523	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_31974174	Ca4	31974174	AC/A	GCTGAAAAAGTGGGT TGGT	GAGAGTGCTGTTGGCT GTGA	60.2	655	INTERGENIC	--	--	--
Ca4_P2_31978699	Ca4	31978699	CATAAACAAATA/CA	ACATTCTTATGTCGGG CAG	TGGACAGTGATTGATG TTGGA	60.0	159	DRR	Ca_15457	S	--
Ca4_P2_31985613	Ca4	31985613	ATT/ATTT	AAGACTGGACGCCGTA AAAA	GATTTGACATCCATGCT TGC	59.1	344	INTRON	Ca_15457	S	--
Ca4_P2_31985970	Ca4	31985970	TAAAAAA/TAAAAAAA	ATGTGCAATAACACCG AAA	CTGTCTTTTGGACTCG GAGC	60.0	682	INTRON	Ca_15457	S	--
Ca4_P2_31989643	Ca4	31989643	CTTTTTTT/CTTTTTTTTTT	GAAAGATTCTCCCACT CCC	TGCACATTGGAAAATT GGTG	60.4	246	INTERGENIC	--	--	--
Ca4_P2_31991301	Ca4	31991301	GTTTTTTT/GTTTTTT	AGACAACGACTTTGGC GTTT	ATTGCTCCTTCAATCAT GGG	59.9	534	INTERGENIC	--	--	--
Ca4_P2_31992393	Ca4	31992393	ATGACACATTGA/ATGA	AATCAGGATGGTGAGA ACCG	TTTTGAAAAACCCATCC TCG	59.9	540	INTERGENIC	--	--	--
Ca4_P2_31992893	Ca4	31992893	CTGAGTTAA/CTGAGTTAATGAGTTAA	TGACACAATTGCTTATG CGG	TTCCAACGGTCATAAAA GGC	59.9	869	DRR	Ca_15458	--	--
Ca4_P2_31994404	Ca4	31994404	TAAAA/TAAAAA	ATCAGCGAGGATGCAG AACT	CATCGCTCAGTTTGA CTCA	60.0	796	DRR	Ca_15458	--	--
Ca4_P2_32000683	Ca4	32000683	ATTTTTT/ATTTTTTT	TGCCCATGTTTACCACA AAA	GCAATGAGGAACCTCA AGCC	59.8	445	INTERGENIC	--	--	--
Ca4_P2_32001064	Ca4	32001064	GTTTTTTT/GTTTTTT	CTTGTTGCATCCAAAA ACG	AAAAAGGAAAGCTCG GGTA	60.1	163	INTERGENIC	--	--	--
Ca4_P2_32001207	Ca4	32001207	TC/T	CTTGTTGCATCCAAAA ACG	GCCAAGCAGAAAGTTC ATCC	59.8	207	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32003550	Ca4	32003550	TAAAAAAAA/TAAAAAAAAA	ATCAGCGAGGATGCAG AACT	TTGAAATTTTGTGAGC CCA	59.1	731	INTERGENIC	--	--	--
Ca4_P2_32005767	Ca4	32005767	TAAAAAAAA/TAAAAAAA	CATTGGAGGCTTGTG TCAC	AGGTGCACGCTTCAGC TATT	60.0	674	INTERGENIC	--	--	--
Ca4_P2_32006778	Ca4	32006778	ATTTTT/ATTTTT	CAAAAGAAGGGGAAT GACC	GCAAAGGGCAAGACTA ATGG	59.7	760	INTERGENIC	--	--	--
Ca4_P2_32007020	Ca4	32007020	TCCCCC/TCCCCCCC	TTGGAAAAAGTTGGAG AAGGA	GCAAAGGGCAAGACTA ATGG	59.7	348	INTERGENIC	--	--	--
Ca4_P2_32007324	Ca4	32007324	A/ACCAAT	CCATTAGTCTTGCCCTT TGC	CAAATAAATCATGGCT GCAC	58.2	450	INTERGENIC	--	--	--
Ca4_P2_32008597	Ca4	32008597	TAAAAA/TAAAAAA	CAGTTTGCTTGACTTCG CAA	TTCTGACAATTCATACG CGG	59.6	659	INTERGENIC	--	--	--
Ca4_P2_32012018	Ca4	32012018	AT/ATT	GGACAAGAGAGAAGAG GGAAAA	ATCGGCTTGCTATGTT GCT	59.9	380	INTERGENIC	--	--	--
Ca4_P2_32019443	Ca4	32019443	AAAATTAA/AAA	TCAACGTGTTCCCTTCA TTG	CGCTGAATCTCATCAA AGTTG	59.9	896	INTERGENIC	--	--	--
Ca4_P2_32022692	Ca4	32022692	A/AAT	CCGTTTTATTTTCATCG AACAAAG	TGCAGCTTGCTCTTTA GCG	59.5	648	INTERGENIC	--	--	--
Ca4_P2_32022731	Ca4	32022731	AC/A	CCGTTTTATTTTCATCG AACAAAG	TGCAGCTTGCTCTTTA GCG	59.5	648	INTERGENIC	--	--	--
Ca4_P2_32031978	Ca4	32031978	T/TTTTCTGAAATC	TTCTTGCTCCGAGGAT GACT	ACATGTGGTCTGTGGT GGAA	59.8	626	INTERGENIC	--	--	--
Ca4_P2_32034803	Ca4	32034803	TAAAAAAAAA/TAAAAAAA	CGTCCACTTCCACTACC GAT	ATTAAAATTGGAGCG GGGA	60.6	553	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32035302	Ca4	32035302	CCTTTAA/CCTTTAATTCAAACCTTAA	TTGGCCTATGTCCATT CGT	TTCTGTTGAGGCTGAG CGTA	59.7	704	INTERGENIC	--	--	--
Ca4_P2_32035344	Ca4	32035344	TAAAAAAA/TAAAAAAA	TTGGCCTATGTCCATT CGT	TTCTGTTGAGGCTGAG CGTA	59.7	704	INTERGENIC	--	--	--
Ca4_P2_32035468	Ca4	32035468	ATTTTTTTT/ATTTTTTTTTT	TTGGCCTATGTCCATT CGT	TTCTGTTGAGGCTGAG CGTA	59.7	704	INTERGENIC	--	--	--
Ca4_P2_32035530	Ca4	32035530	ATTTTTTTT/ATTTTTTTTTT	TTGGCCTATGTCCATT CGT	TTCTGTTGAGGCTGAG CGTA	59.7	704	INTERGENIC	--	--	--
Ca4_P2_32035805	Ca4	32035805	GTC/GTCTC	ATTCAATTCCAGCATGC CTC	TTGATGGATCAAATCTC CCA	58.8	108	INTERGENIC	--	--	--
Ca4_P2_32045859	Ca4	32045859	T/TA	TGGGGTTTTGATCCATT TGT	TGATGTCTTTGATCCA CCT	58.1	607	DRR	Ca_15459	--	--
Ca4_P2_32045999	Ca4	32045999	T/TGATACACTC	TTTGGGCTTTTCTTGAT TGG	AGTCGGCTTCAAAGGC ACTA	60.0	646	DRR	Ca_15459	--	--
Ca4_P2_32046303	Ca4	32046303	GTTTTTT/GTTTTTTT	TTTGGGCTTTTCTTGAT TGG	AGTCGGCTTCAAAGGC ACTA	60.0	646	DRR	Ca_15459	--	--
Ca4_P2_32046367	Ca4	32046367	ATTTTTTT/ATTTTTTTTTTT	AGGTGGATCGAAGAC ATCA	AGTCGGCTTCAAAGGC ACTA	60.0	394	DRR	Ca_15459	--	--
Ca4_P2_32047782	Ca4	32047782	G/GT	TGGGGTTTTGATCCATT TGT	AAAGCCCAACCAACA TTGA	60.3	329	INTERGENIC	--	--	--
Ca4_P2_32048513	Ca4	32048513	TAAAAAAA/TAAAAAAA	CGATTTTGTCCGGTCAAT CTCT	TCACCGTAGGAAAGCT GGAT	59.7	355	INTERGENIC	--	--	--
Ca4_P2_32049087	Ca4	32049087	ATTTTTTTT/ATTTTTTTTTT	CGAATCCAGCTTTCCT ACG	TTTGGGCTCCTTGAG ATAA	59.6	670	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32049749	Ca4	32049749	AAA/AAAGAA	CCAATCATTGGCATC ACA	TTCTATCACATTGCAT ATCAAAA	59.8	693	INTERGENIC	--	--	--
Ca4_P2_32050483	Ca4	32050483	TAAAAA/TAAAAA	AGCAGTGGAGAGTTCC AAATG	GGCCTTCTGTGACAA TTCAA	60.1	547	INTERGENIC	--	--	--
Ca4_P2_32051212	Ca4	32051212	ATTTTTTTTT/ATTTTTTTTT	TTGGATCAAACTCATC ATCA	TCGAATTTACCCACCA CAA	58.9	658	INTERGENIC	--	--	--
Ca4_P2_32051935	Ca4	32051935	ATTTTTTTTT/ATTTTTTTTT	TTGAAGATGGTGAATGT GGAA	TATGACCCGTTGGATT CGAT	60.2	797	INTERGENIC	--	--	--
Ca4_P2_32057338	Ca4	32057338	TG/T	TATTGCTTCGCTTCGCT TTT	GGGAAACTGCCCTAA TTCT	59.4	451	INTERGENIC	--	--	--
Ca4_P2_32059894	Ca4	32059894	TTCTCTCTCT/TTCTCTCT	TTTCCCGACTTGGTCCT TTA	TTTTATGACCGGACTT CGT	57.2	580	INTERGENIC	--	--	--
Ca4_P2_32061418	Ca4	32061418	T/TGTTTTTTTA	ATCTGTGGCGAAGAGT CCAG	TGTTCAAGGGATCAAA AGGG	59.9	359	INTRON	Ca_15460	--	--
Ca4_P2_32062669	Ca4	32062669	CTTTTT/CTTTTT	GCCAGGGTTTAAATTG GGT	GGCCTTGAACAAGCA GAAG	60.0	287	INTRON	Ca_15460	--	--
Ca4_P2_32063511	Ca4	32063511	CGG/CG	TTGCCTATGCCAATCAA TCA	TCGGAATAGGCTTCAA TTCG	60.2	390	INTRON	Ca_15460	--	--
Ca4_P2_32063547	Ca4	32063547	TCC/TC	TTGCCTATGCCAATCAA TCA	TCGGAATAGGCTTCAA TTCG	60.2	390	INTRON	Ca_15460	--	--
Ca4_P2_32069410	Ca4	32069410	A/AC	CCAAGTGTGCCCTCT TGAT	GAGACGGAATTGGGA CAGA	60.1	767	DRR	Ca_15461	R	--
Ca4_P2_32073125	Ca4	32073125	TAAAA/TAAAAA	CGGGTCCTTGAAGTGA TGAT	ACATACTCATAGCGGC CACC	60.0	864	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32101684	Ca4	32101684	TG/T	TCATTGCCTTGCTGCA AAA	GCACTAACCCGACCCT AACA	60.0	632	INTRON	Ca_15462	--	--
Ca4_P2_32103781	Ca4	32103781	GTGT/G	CTTCTCGGATGAATGGT GGT	TGGGATAGTGATGTAA TGGGC	59.7	453	INTRON	Ca_15462	--	--
Ca4_P2_32113890	Ca4	32113890	ATTTT/ATTTT	AAATGGGTAAGCGTTG TTGC	AGCTGCTAGGGTGCA TTGT	59.9	796	CDS (FRAME SHIFT)	Ca_15462	--	--
Ca4_P2_32118643	Ca4	32118643	AAAT/A	GCCAAAGGTAACAAAG GCAA	TGATTTCTTCATTGCAT CGG	59.6	569	INTERGENIC	--	--	--
Ca4_P2_32119212	Ca4	32119212	ATT/AT	TGTTTCGTTGTTGATAA GCATGT	TGTCCTCCTCCCTCCTT TTT	60.0	721	INTERGENIC	--	--	--
Ca4_P2_32119266	Ca4	32119266	A/AC	TGTTTCGTTGTTGATAA GCATGT	TGTCCTCCTCCCTCCTT TTT	60.0	721	INTERGENIC	--	--	--
Ca4_P2_32121497	Ca4	32121497	TAAAAAAAA/TAAAAAAAAA	TGGCATACGACCAACT CAAA	TTTGCTTTACAAGCTTG GGG	60.2	440	INTERGENIC	--	--	--
Ca4_P2_32121752	Ca4	32121752	ACCC/ACC	CCCCAAGCTTGTAAG CAAA	AATGAAAAGCGTTGATT GGGT	59.4	588	INTERGENIC	--	--	--
Ca4_P2_32121836	Ca4	32121836	AATA/AATATA	CCCCAAGCTTGTAAG CAAA	AATGAAAAGCGTTGATT GGGT	59.4	588	INTERGENIC	--	--	--
Ca4_P2_32121863	Ca4	32121863	AC/A	CCCCAAGCTTGTAAG CAAA	AATGAAAAGCGTTGATT GGGT	59.4	588	INTERGENIC	--	--	--
Ca4_P2_32122386	Ca4	32122386	CTTTTTTTTT/CTTTTTTTTT	TGGGTTTTACCCAATCA ACG	CACCAGCCAAGTTCTT CCTT	59.3	359	INTERGENIC	--	--	--
Ca4_P2_32137227	Ca4	32137227	TTTTATTTATTATT/TTTTATTTATTAT TTATT	TTTAACTCTGCCCCCTC CTT	TTCATCGGTCAACAAT TTCA	59.0	449	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32139471	Ca4	32139471	TAAAAA/TAAAAA	TGTGGTTTGGATTGG TTTT	TCCGTGTGACTATTG GTGG	59.4	169	INTERGENIC	--	--	--
Ca4_P2_32139759	Ca4	32139759	AAAAGCTTT/AAAAGCTTTAAAGCTTT	TGTGGTTTGGATTGG TTTT	ACTTCAAAAATTGAGG GGCA	59.5	736	INTERGENIC	--	--	--
Ca4_P2_32141015	Ca4	32141015	T/TTTAGC	GTGTGTTGCGCTTGAT CCTA	TGCATTCTTTGCCATG AAC	59.7	730	INTERGENIC	--	--	--
Ca4_P2_32143759	Ca4	32143759	GATATATA/GATATA	CGTTATCATTGCTTGAA CGG	TTGAGCACTTACTGGT GGGA	59.3	941	INTERGENIC	--	--	--
Ca4_P2_32143997	Ca4	32143997	TC/T	TTTGCCTGTTGTTCTTG TACG	TTGAGCACTTACTGGT GGGA	59.3	381	INTERGENIC	--	--	--
Ca4_P2_32144375	Ca4	32144375	TAAAAA/TAAAAA	TCCACCAAGTGTGTC TCAA	GTCGTTGTTGCTGTGT GTGG	60.0	308	INTERGENIC	--	--	--
Ca4_P2_32148430	Ca4	32148430	AC/ACC	TGAGTTCAAGTGTGG GTGG	TTGCCTTTCTTCCACC TTTT	60.1	655	INTERGENIC	--	--	--
Ca4_P2_32148558	Ca4	32148558	GTAAT/GT	TGAGTTCAAGTGTGG GTGG	AAGCACCAAGCCACA ACTT	59.8	878	INTERGENIC	--	--	--
Ca4_P2_32151280	Ca4	32151280	GAAAAA/GAAAAA	TCGAACCATGTGCTTG AAA	GCCATTCTTTTAAAT GCC	58.6	531	INTERGENIC	--	--	--
Ca4_P2_32156632	Ca4	32156632	TAAAAA/TAAAAA	TTCACTTGGTGTCTTG CAG	CTTAACCAATATCCCC GCA	59.8	692	INTERGENIC	--	--	--
Ca4_P2_32159052	Ca4	32159052	TAAAA/TAAA	TCTCTTTAATGGGCCA TGC	ATGCATGGAATCCAGC TTTC	60.0	688	INTERGENIC	--	--	--
Ca4_P2_32159336	Ca4	32159336	TAAAA/TAAAA	TGTCCCTATCGTAAATG GGC	ATGCATGGAATCCAGC TTTC	60.0	662	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32159427	Ca4	32159427	ATTTTTTTTT/ATTTTTTTTT	TTCCCTTGAAAGTGCAT TGA	GCTTCTATGGGCAACG TACC	59.6	224	INTERGENIC	--	--	--
Ca4_P2_32159712	Ca4	32159712	T/TC	GTACGTTGCCCATAGA AGCC	TTTGGTGTTCCTCCAC CTC	59.8	634	INTERGENIC	--	--	--
Ca4_P2_32165683	Ca4	32165683	ATTTTTTTTT/ATTTTTTTTT	TTTGCTGGCATTAGGC TCT	AACCATTAGCTCCACCT ACCAA	59.9	843	INTERGENIC	--	--	--
Ca4_P2_32167202	Ca4	32167202	TTATATAT/TTATATATAT	TCGAACGGGGACCTT ACAG	CATGCTACCTCCCATG GTGT	60.8	461	INTERGENIC	--	--	--
Ca4_P2_32173778	Ca4	32173778	GAAA/GAA	TGCAACACCGGAACCT CATA	TTTCAACCAATTGTTC TCG	59.7	299	INTERGENIC	--	--	--
Ca4_P2_32176859	Ca4	32176859	ATTTTT/ATTTT	TGGTCTTGCAATCTCTG TCG	TTGTTTCCATCTTTGG TTGG	59.8	445	INTERGENIC	--	--	--
Ca4_P2_32179388	Ca4	32179388	T/TA	TTCTTGCCTTTGTCTC TCA	TGGAAGTGAACATAAC CCCTTT	59.0	744	INTERGENIC	--	--	--
Ca4_P2_32179682	Ca4	32179682	CAATAATCAACAAA/CAATAATCAACAA AATAATCAACAAA	TTGCATACCTCATACCA TCCC	TTGATGCATTACCTCCC ACA	59.9	731	INTERGENIC	--	--	--
Ca4_P2_32180017	Ca4	32180017	AATGTTTGAT/AATGTTTGATGTTTGAT	TGGGAGGTAATGCATC AAAA	TGACCCAAAATTCGTT TGC	60.8	304	INTERGENIC	--	--	--
Ca4_P2_32180074	Ca4	32180074	CTTTTTTT/CTTTTTTTTT	TGGGAGGTAATGCATC AAAA	TGACCCAAAATTCGTT TGC	60.8	304	INTERGENIC	--	--	--
Ca4_P2_32180768	Ca4	32180768	CAA/CA	TAAGCCAATGAAGAATC GCC	TTTTCATCCACCCCAA ATA	60.0	425	INTERGENIC	--	--	--
Ca4_P2_32188268	Ca4	32188268	TGG/TG	TTATCACTCCAATTCCC CCA	CCTCCATCGAATTCTC CAA	60.0	605	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32188418	Ca4	32188418	CAGCAAT/C	TTTACTCTCCAATTCCC CCA	CCTCCATCGAATTCTC CAA	60.0	605	INTERGENIC	--	--	--
Ca4_P2_32202833	Ca4	32202833	TGA/TGAAGA	GATGAAGCCAATGATG CTGA	ACCCTGCAGCTACTTC CTGA	60.0	499	CDS (large-effect mutations)	Ca_15465	--	--
Ca4_P2_32212035	Ca4	32212035	CTCA/CTCATTGATGCTTATGTCA	TGAATCAACAAATGAAA GCAGTG	TCCCGCTTCGATACAG AGAT	59.8	448	INTERGENIC	--	--	--
Ca4_P2_32214848	Ca4	32214848	ATTTTTT/ATTTTTTT	CGCATGTGTATCCCTTT GTG	CGTTCTCGGAACCTTT CTTTC	60.2	471	INTRON	Ca_15467	T	HB-other
Ca4_P2_32215092	Ca4	32215092	AT/A	CGCATGTGTATCCCTTT GTG	ATGGGAATGGAACCAT TGAA	60.0	918	INTRON	Ca_15467	T	HB-other
Ca4_P2_32216067	Ca4	32216067	GATTT/G	TGTTGGGTTCTGATCCA ATG	ATAAGCGTGC GTTGAC CTTT	59.8	539	INTERGENIC	--	--	--
Ca4_P2_32216199	Ca4	32216199	ATTTTTTTT/ATTTTTTTT	ATAAAGGTCAACGCAC GCTT	GAAATCAACGGATCTC CATCA	59.9	384	INTERGENIC	--	--	--
Ca4_P2_32218753	Ca4	32218753	AT/ATT	GCATTGAAGGGGTCAA CACT	GAGGGAGCAAATCGGT ATCA	60.0	390	INTERGENIC	--	--	--
Ca4_P2_32218807	Ca4	32218807	T/TA	GCATTGAAGGGGTCAA CACT	GAGGGAGCAAATCGGT ATCA	60.0	390	INTERGENIC	--	--	--
Ca4_P2_32218844	Ca4	32218844	CT/CTAT	GCATTGAAGGGGTCAA CACT	GAGGGAGCAAATCGGT ATCA	60.0	390	INTERGENIC	--	--	--
Ca4_P2_32222918	Ca4	32222918	ACTCT/ACT	TCCATCATCGTTCTCAT TGG	TCGAACAAAAGGCAAC ACAA	60.3	225	INTERGENIC	--	--	--
Ca4_P2_32224229	Ca4	32224229	A/AT	TCTTCTTCCACAGGGG ATTG	ATATGGGCCAAAAGCA ACAA	60.3	519	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32225442	Ca4	32225442	TTATATAT/TTAT	TCAATTCGAATCATTA ACCA	ACATTACCAATGCG ACGA	60.0	349	INTERGENIC	--	--	--
Ca4_P2_32225876	Ca4	32225876	TTAT/TT	TCGTCGATTGGTGAA TGT	TCCGTGAGGACACAAG TGAG	59.9	506	INTERGENIC	--	--	--
Ca4_P2_32225930	Ca4	32225930	GAAAAAA/GAAAAAA	TCGTCGATTGGTGAA TGT	TCCGTGAGGACACAAG TGAG	59.9	506	INTERGENIC	--	--	--
Ca4_P2_32227293	Ca4	32227293	AAAA/AAAAATTAAAA	TCTTCACAACCCCTTGA ACC	TTCTTCAACACGACC TCTC	59.6	868	INTERGENIC	--	--	--
Ca4_P2_32227770	Ca4	32227770	GT/GTGATATATGTT	GAAGAGAGGCTCGTT GGAA	CTAATGGCTCCCGAAT TCAA	60.0	474	INTERGENIC	--	--	--
Ca4_P2_32239930	Ca4	32239930	TT/TTGGT	CAGGTAGAGTGAGAT TGCG	TAATGCTTGATGCCAAA CCA	60.1	366	INTERGENIC	--	--	--
Ca4_P2_32240927	Ca4	32240927	CTTTTT/CTTTTTTT	CCCTTTTATTCAGCCAT CCA	CTCAAGATCTCGTGGT GCAA	60.0	895	INTERGENIC	--	--	--
Ca4_P2_3224587	Ca4	3224587	AAGAGAGAGAGAGAGAGAGAGA/ AAGAGAGAGAGAGAGAGAGAGAGA GA	TCGTTTCATTCGAGCAC TTG	TTAATTGCGCACACACA CAA	59.8	362	DRR	Ca_12123	T	E2F/DP
Ca4_P2_32255817	Ca4	32255817	TAAAAAAA/TAAAAAAA	TTCTCAATGCATCATTC AAAAAT	TTGGGAAGGATGAGTT TTGTT	58.5	784	INTERGENIC	--	--	--
Ca4_P2_32263496	Ca4	32263496	A/AC	ACACATGTCCAGTTGA CGA	AAGCACATACATAGGG GATTTGA	59.8	516	INTERGENIC	--	--	--
Ca4_P2_32263960	Ca4	32263960	TAAAAAA/TAAAAAAA	GATCAATCCCCTATGT ATGTGC	TGACGATGGAGGCTTT TAGG	60.2	191	INTERGENIC	--	--	--
Ca4_P2_32264177	Ca4	32264177	GC/G	CCTAAAAGCCTCCATCG TCA	TGAGAAATTGGTTTCTC TTCCTC	58.9	385	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_32264283	Ca4	32264283	TAAAAA/TAAAAAA	CCTAAAAGCCTCCATCG TCA	TGCTTGTGAGCTTGT GTGTC	60.1	682	INTERGENIC	--	--	--
Ca4_P2_32264601	Ca4	32264601	TA/TAA	GATCAAATTCTCTATGC ATGTGCT	CCAATTGAAGGGTAAG TGCC	59.4	608	INTERGENIC	--	--	--
Ca4_P2_32264918	Ca4	32264918	CAA/CAAA	GCACCTACCTTCAATT GGG	AGGAGAGGTCCATTTC TCAGG	59.7	262	INTERGENIC	--	--	--
Ca4_P2_32264980	Ca4	32264980	AAT/AATAT	GCACCTACCTTCAATT GGG	AGGAGAGGTCCATTTC TCAGG	59.7	262	INTERGENIC	--	--	--
Ca4_P2_32291326	Ca4	32291326	T/TG	CGGACCTGCCCTACAA GTAA	CCGATCTTTGTGGTAAT TGTA	59.9	577	INTERGENIC	--	--	--
Ca4_P2_32300381	Ca4	32300381	AAAA/AAAAGAAA	AGGGAGAACCAACCAA CCTT	TTCGGAGTGGTTTTAG CTTTT	58.1	395	DRR	Ca_15473	P	--
Ca4_P2_32300998	Ca4	32300998	CAAAAAAAAAAAAA/CAAAAAAAAA	AAAAGCTAAACCACTC CGAA	TGCACCAATGTGTCC TTGT	60.0	581	DRR	Ca_15473	P	--
Ca4_P2_32301599	Ca4	32301599	TAAAAAA/TAAAA	TGGATTGCAAACTGGT TGA	CACGAGCTTACAAACC CACA	59.8	174	DRR	Ca_15472	DO	MYB_related
Ca4_P2_32301839	Ca4	32301839	ATTTTTTT/ATTTTTT	TGGATTGCAAACTGGT TGA	AGTGGCTTCAAGCTGC AAAT	60.0	727	DRR	Ca_15473	P	--
Ca4_P2_323024	Ca4	323024	TTATATATATATATATATATA/TTATAT ATATATATATATATATA	TGAGTTCCTGCACCTCA CAA	TTCTTTTAAGTCAATT CCCAG	57.4	378	INTERGENIC	--	--	--
Ca4_P2_32315268	Ca4	32315268	ATTTTTTTT/ATTTT	TTCTCCCCAACACAAAG TTC	GGCGCATCTTCACTCA AAAG	60.9	345	INTERGENIC	--	--	--
Ca4_P2_3232768	Ca4	3232768	TAAAAAAA/TAAAAAAA	TGTAGCAAAGATGCGA CCTA	AAAATGAAGTTTGGGG TCCA	59.3	867	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32335179	Ca4	32335179	AAAGAAGAAGAAGAAGAA/AAAGAA GAAGAAGAAGAA	AAAGTCCGTTTGTGAAT CCG	TGGGCATTCAAATCAA CAA	59.9	507	INTERGENIC	--	--	--
Ca4_P2_32335777	Ca4	32335777	CA/CATTAA	ATGCCCAAGTTTTCAGT TCG	TGGGCATTCAAATCAA CAA	59.9	201	INTERGENIC	--	--	--
Ca4_P2_32353193	Ca4	32353193	GAAA/GAA	TGACATGGCTTGTTCCT TCA	CAAGTTGGTGAACCA GGAT	59.8	736	INTERGENIC	--	--	--
Ca4_P2_32367636	Ca4	32367636	ATTTTTTTTTTT/ATTTTTTTTTTT	TCCTCCTGTGATCTTG GCT	CATTGCTCCCTCTTACT GCC	59.8	429	INTERGENIC	--	--	--
Ca4_P2_32369377	Ca4	32369377	TA/T	TTGGTTTCGTTGCTTG TTG	AATAGTGCGCATGTGT GGTC	59.6	822	INTERGENIC	--	--	--
Ca4_P2_323717	Ca4	323717	ATTT/AT	CTGGGAATTGGACTTAA AAGAA	TTGTTGGGTTATCGTT GTCG	59.4	791	INTERGENIC	--	--	--
Ca4_P2_32373608	Ca4	32373608	ATTTTTTTT/ATTTTTTTT	TCCACTTTTCAAACGAG ATGG	AAGATCACGTTTCACAT CGG	58.6	564	INTERGENIC	--	--	--
Ca4_P2_32390117	Ca4	32390117	GAAAAAAAAA/GAAAAAAAAA	TTCAGTACAACCACGG GTGA	TCGCATGTTCTTCACAA AGG	59.8	449	INTERGENIC	--	--	--
Ca4_P2_32393229	Ca4	32393229	CATAAA/CATAAATATAAA	TGAAGGGAGACAAAGG AGGA	CGAGAGTATTCATTGT CTTGTAACCAT	59.9	603	DRR	Ca_15475	--	--
Ca4_P2_32395281	Ca4	32395281	TA/TAA	GGTTAACAATCTCCTA AAGGCA	TTTTGTAAAGAATTGC GACCTC	59.7	523	INTERGENIC	--	--	--
Ca4_P2_32396185	Ca4	32396185	TCCC/TCC	TCGTCATTTCTTTGTT GGTTG	TCCAATTTCCGTTGTA TGT	58.8	346	INTERGENIC	--	--	--
Ca4_P2_32399880	Ca4	32399880	CATA/CATACAAATAAAATA	TTCTGTCCGAGTATGG GTCC	CATGATGGTTTTGTTG GGC	59.8	835	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32410630	Ca4	32410630	TA/TAA	TTATTCCACCCACCTG AAA	CTCAGCTCATTGGTT GGTG	59.3	262	INTERGENIC	--	--	--
Ca4_P2_32412395	Ca4	32412395	TAAAAAA/TAAAAAA	TTCAAATCTCGCAGTTG TTTG	GAAATCCCAGTAGCAG TGGC	59.7	642	INTERGENIC	--	--	--
Ca4_P2_32413633	Ca4	32413633	TAAAAAAA/TAAAAAAA	TGATCTAACAGTTGTGA TTGATTGA	CAACTAACTCACACAAC AGAGCG	60.0	670	INTERGENIC	--	--	--
Ca4_P2_32431643	Ca4	32431643	TTAATAATAA/TTAATAA	ACCCAACCTCATCTGCA TTC	TTTCAGAAAACTACGG AACAAA	58.0	362	DRR	Ca_15476	--	--
Ca4_P2_32431697	Ca4	32431697	A/AT	ACCCAACCTCATCTGCA TTC	TTTCAGAAAACTACGG AACAAA	58.0	362	DRR	Ca_15476	--	--
Ca4_P2_32458469	Ca4	32458469	TAAA/TAA	AATGGTCCAACCCCTTA ACC	TTTGGACAATGTCGTG AAACA	60.0	526	INTERGENIC	--	--	--
Ca4_P2_32460225	Ca4	32460225	TAAAAAAA/TAAAAAAA	CGGAGATCCATAACAC GGTC	TTTGAAAGAGAAATCCA CCCA	59.5	242	INTERGENIC	--	--	--
Ca4_P2_32466403	Ca4	32466403	ATT/ATTT	GCCAGTAGGAAATCC TCCA	ACCCAAACAAGAACAA ACGC	60.0	539	INTERGENIC	--	--	--
Ca4_P2_32471789	Ca4	32471789	TAAAA/TAAAA	GCGCTATAAAGGCTT GCAC	GAGCGCTGTAAAGAC CACC	59.9	419	INTERGENIC	--	--	--
Ca4_P2_32473583	Ca4	32473583	TTTTTTATTTTTATTT/TTTTTTATT TTTTATTTTTATTTT	TGATCTTAGCGATGGT CCC	TGAGCGTTCGATTTTG TTTG	59.8	687	INTERGENIC	--	--	--
Ca4_P2_32482906	Ca4	32482906	ATTT/ATT	GTTAAACATTTCGCGC CAA	CAAGAACGAAGAAAA CGCC	59.9	485	INTERGENIC	--	--	--
Ca4_P2_32484353	Ca4	32484353	CTTTTT/CTTTTTTT	TTATCCTTTGCTGCCCA AAC	ATCATGTTGCCCTAAT CCA	60.2	753	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32487077	Ca4	32487077	GAA/GAAATAAAA	CGTCAATTTGAGACGA CGAA	ATTCATCAATTCGGG GTGA	60.1	618	INTERGENIC	--	--	--
Ca4_P2_32487290	Ca4	32487290	ATTTTTTTTT/ATTTTTTTTT	TCGGAGAAACGAGATC ACAA	ATTCATCAATTCGGG GTGA	60.1	533	INTERGENIC	--	--	--
Ca4_P2_32489291	Ca4	32489291	ATT/ATTGTT	CGACAAAGAGGTGGAT GGTT	CCTCCATCAATAATAAT AAAACCCC	60.1	423	INTERGENIC	--	--	--
Ca4_P2_32489467	Ca4	32489467	ATTTTTTTTT/ATTTTTTTTT	CGACAAAGAGGTGGAT GGTT	TGAAGCACAAAGAGAA AATCTCA	59.1	732	INTERGENIC	--	--	--
Ca4_P2_32489750	Ca4	32489750	C/CA	GGGTTTTATTATTATG ATGGAGGG	GCAAACTCCAATTTT TCGC	58.9	614	INTERGENIC	--	--	--
Ca4_P2_32491529	Ca4	32491529	GTT/GTTT	GGTGATGGTTTCGCCT AAAA	TCAAACACACAGAAAA TAGCA	59.3	446	INTERGENIC	--	--	--
Ca4_P2_32492649	Ca4	32492649	GAAAAA/GAAAAA	GCATTACACTGAAGCG GACA	GCCAATTTCAATTAAGC CGA	60.0	622	INTERGENIC	--	--	--
Ca4_P2_32492742	Ca4	32492742	AAGA/AA	AGTGGATTGGGTGGAA AATG	GCCAATTTCAATTAAGC CGA	60.0	296	INTERGENIC	--	--	--
Ca4_P2_32494355	Ca4	32494355	ATTTTTTTTTTT/ATTTTTTTTTTTTTTT	ATGGGGATATGGATGG ATGA	TGAGGAGCATAAATCA GAGAAAAA	59.4	388	INTERGENIC	--	--	--
Ca4_P2_32494646	Ca4	32494646	GAAAAAA/GAAAAAAA	CAATTCACCTGAAACGT CTCTCAT	CACAAAATCGACAAAG ACATGC	60.5	386	INTERGENIC	--	--	--
Ca4_P2_32494672	Ca4	32494672	TA/T	CAATTCACCTGAAACGT CTCTCAT	CACAAAATCGACAAAG ACATGC	60.5	386	INTERGENIC	--	--	--
Ca4_P2_32498847	Ca4	32498847	AG/A	TAGCACGGACCCCAAT TAAG	TGAACCCCATCAAAG GATA	60.1	897	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32511427	Ca4	32511427	TTATATATATATAT/TTATATATATAT	TCCCTTTCTGACATGCA TCA	TCTAGACTAGGCTGCT CCCG	59.7	468	INTERGENIC	--	--	--
Ca4_P2_32512065	Ca4	32512065	AG/A	TTTCTCCGTTATGTGT CGG	TGAGTGCTGGGAACCT ACCC	60.1	704	INTERGENIC	--	--	--
Ca4_P2_32513097	Ca4	32513097	TGGGGGG/TGGGGG	GATTTCGATTGGCCTCT TGT	ACAGTGGTTGCCATTT CCTC	60.0	479	INTERGENIC	--	--	--
Ca4_P2_32514320	Ca4	32514320	GACATTGACTTTTT/GACATTGACTTTTT TCAACATTGACTTTTT	ATTACTGGACCAGAGG CAGC	AATGTCCATTCTGGGA CGAG	59.9	510	INTERGENIC	--	--	--
Ca4_P2_32515383	Ca4	32515383	GAT/GATCAT	GGCTATCGACCTAGGG AAGC	ACCAACAGAACCGCCA ATAG	60.0	347	INTERGENIC	--	--	--
Ca4_P2_32516312	Ca4	32516312	CAAAAAAAAA/CAAAAAAAAA	AGCTTGTGATGTTTGG GGTC	TCCTAAGGCTATGGG AACA	59.5	792	INTERGENIC	--	--	--
Ca4_P2_32518028	Ca4	32518028	TGGGG/TGGG	CGAGCAATGGTCCAAA GATT	AAGTCAACGCCTTTTAC CCA	59.6	303	DRR	Ca_15480	--	--
Ca4_P2_32519815	Ca4	32519815	T/TA	CTTGCTGTCTGATGCCA AAA	ATTATGGCCTGATGGC TTTG	59.9	524	DRR	Ca_15480	--	--
Ca4_P2_32522290	Ca4	32522290	GAAAAAAAA/GAAAAAAAA	ACTCATTATTCCACAG CCC	TTGCTAACGGTAACAC AACGA	59.3	851	INTERGENIC	--	--	--
Ca4_P2_32526682	Ca4	32526682	CAATTAATAATTAATA/CAATTAATA	GGCAAAACATTGCATGT CAG	GATCTGGGAGGAGACC ATGA	60.0	677	DRR	Ca_15481	--	--
Ca4_P2_32527479	Ca4	32527479	AATAT/AATATAT	GGCGGAGTAAATTGTT GCAT	TACATGAGCAGGAGGA GGCT	60.0	333	DRR	Ca_15481	--	--
Ca4_P2_32529368	Ca4	32529368	GATATATATATAT/GATATATATATATAT	GGGTGTGATTAATGGG TTCG	TCAGGGGTTGCATGGT ATT	60.2	457	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32531473	Ca4	32531473	TAA/T	TAAATGGATGCATCGA GCC	ACAAATCAACAGTGT CGCA	60.2	662	INTERGENIC	--	--	--
Ca4_P2_32544975	Ca4	32544975	GC/G	ACCAAAACAGAGGCAA GCAT	TGAGGCATGACGATGT TGAT	60.1	866	INTERGENIC	--	--	--
Ca4_P2_32548680	Ca4	32548680	CAAAAAAAAA/CAAAAAAAAA	TTATTGGCCCCACTTC TTG	TGATTGGCATGAGTGC TGAC	60.9	688	INTERGENIC	--	--	--
Ca4_P2_32548849	Ca4	32548849	GA/GAGCCA	CGAACCAAGTGAGGAA AGAGA	TGATTGGCATGAGTGC TGAC	60.9	603	INTERGENIC	--	--	--
Ca4_P2_32548891	Ca4	32548891	GT/GTTAT	CGAACCAAGTGAGGAA AGAGA	TGATTGGCATGAGTGC TGAC	60.9	603	INTERGENIC	--	--	--
Ca4_P2_32549547	Ca4	32549547	GTATA/GTA	TTGATGTCTATTGATGC AACG	ACATTGTGCCATCCCTT GAT	60.2	747	INTERGENIC	--	--	--
Ca4_P2_32550360	Ca4	32550360	ATTT/ATTTT	TGAATTAGCTTGGCGT TTT	GAGAAAATCAACCCAA CGTCA	60.0	530	INTERGENIC	--	--	--
Ca4_P2_32553993	Ca4	32553993	CAAGATGAAAGATGAAAGATGAAAGAT/ CAAGATGAAAGAT	TATGATGTCGGGGTGT GAAA	ATTGCCTCCATCAAAGA AAA	57.3	756	INTERGENIC	--	--	--
Ca4_P2_32554394	Ca4	32554394	A/ATTC	AAATTAAGTGCAGGAG GGTC	ACCCATTATGGTGAAG AGCG	60.0	832	INTERGENIC	--	--	--
Ca4_P2_32555147	Ca4	32555147	TAAAAAAAA/TAAAAAAAA	TTCACCATAATGGGTGT CCA	GGAGAATAGAGCGGC TAGG	60.3	428	INTERGENIC	--	--	--
Ca4_P2_32555948	Ca4	32555948	AAAGAA/AAA	GTGTGTTTCCCATACC ACC	TGGGAATTTTGTGTTG GGT	60.1	449	INTERGENIC	--	--	--
Ca4_P2_32559742	Ca4	32559742	AAAGAAAGAAAGAAAGA/AAAGAAAG AAGA	TTCATTTCAGTCTGTG GCA	ACGGCCGTTATAGTT TCCT	59.9	669	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32559814	Ca4	32559814	A/AC	TTCATTCCAGTCTGTG GCA	TGAGAACTTTTCCGCT GCT	60.1	872	INTERGENIC	--	--	--
Ca4_P2_32562355	Ca4	32562355	CTTTT/CTTTTT	AAATGGAGGAGAAGGA GGGA	CGGTGAATCCTTTACG GAGA	60.1	286	INTERGENIC	--	--	--
Ca4_P2_32565478	Ca4	32565478	TC/TCCCAC	TATCAACCTATTGAGCC GCC	AGGGTTAGACGAGTTC GACG	59.4	950	DRR	Ca_15483	T	YABBY
Ca4_P2_32565748	Ca4	32565748	GATAATAATAATAATAATAATAA TAA/GATAATAATAATAATAATAA ATAA	ATGCAACCATGGGAAG AAAT	CGTCACCACCACCACA TCTA	60.4	983	DRR	Ca_15483	T	YABBY
Ca4_P2_32567747	Ca4	32567747	TAAAA/TAAAA	GAAGTGAGACAGCAG AGGG	TGACGTGTGTAGTTTC CCCA	60.0	589	INTERGENIC	--	--	--
Ca4_P2_32596827	Ca4	32596827	GAAAAA/GAAAAA	TATCTTTGCCGCTCCA ATC	AAGGACCAAAACCAATT GTCTC	59.4	750	INTERGENIC	--	--	--
Ca4_P2_32599378	Ca4	32599378	CGG/CGGG	AGCATTGCCAATCATCT TCC	TCAAACGTCAATTGGC AAAA	60.1	757	INTERGENIC	--	--	--
Ca4_P2_32622005	Ca4	32622005	T/TTAG	CATTGTTGCGCCTTAA TGA	GAATTTGAAATGCACC CGTT	59.8	525	DRR	Ca_15485	O	--
Ca4_P2_32622348	Ca4	32622348	TATA/TATAAAAAATCAATA	TCAATGCCATGGAAGAA CAA	TGATAAAATTAAGGGAT CGTGAAA	59.0	808	DRR	Ca_15485	O	--
Ca4_P2_32622405	Ca4	32622405	GTTT/GTT	TCAATGCCATGGAAGAA CAA	TTCCATCTCCAACAACA TCG	59.5	867	DRR	Ca_15485	O	--
Ca4_P2_32622663	Ca4	32622663	CAAAAA/CAAAAA	TTTCACTCCATATATTT CACTCCA	TTCCATCTCCAACAACA TCG	59.5	543	DRR	Ca_15485	O	--
Ca4_P2_32623000	Ca4	32623000	TAAAAA/TAAAAA	TCGATGTTGTTGGAGAT GGA	TCCATCTTTTGAGGA ATGG	59.9	566	DRR	Ca_15485	O	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_32626829	Ca4	32626829	TTT/TTTGAAGCTCTATT	CAGCTGTCCACACTG TGAT	TGTTGCCAGTTTGTCT GAC	59.9	144	INTRON	Ca_15485	O	--
Ca4_P2_32628615	Ca4	32628615	AA/AAGA	GGGGTGATCCGTGATA TTTG	CAGTTGATTCTGGAGC CCAT	60.1	567	INTRON	Ca_15485	O	--
Ca4_P2_32631880	Ca4	32631880	CTTTCTTTTCTTTTTCT/CTTTCTTTTCT TTTTCTTTTTCT	TTACGTGGAGAGGGAA ATGG	CACACATCACTTCAACC GTG	58.5	542	INTERGENIC	--	--	--
Ca4_P2_32633699	Ca4	32633699	CATAATAGTAATATAATAGTAAT/CATAA TAGTAAT	TATACACGGGACATGA GCCA	ATCCTTCAAAGCAAAAG CCA	59.8	145	INTERGENIC	--	--	--
Ca4_P2_32634327	Ca4	32634327	TTTACTTACTTA/TTTACTTA	CAGACCCGTGTGAACA CAAA	GCCTTTGGAGTTGAAG ATTGA	59.3	591	INTERGENIC	--	--	--
Ca4_P2_32634672	Ca4	32634672	CTTTATCT/CTTTATCTTTTATCT	CAGACCCGTGTGAACA CAAA	AGCAGATGCCTCTATC GCAT	60.0	937	INTERGENIC	--	--	--
Ca4_P2_32635524	Ca4	32635524	A/ACG	ATGCGATAGAGGCATC TGCT	TGCATTTTGCCTGCTCT ATG	60.0	842	DRR	Ca_15486	R	NAC
Ca4_P2_32635587	Ca4	32635587	CATA/CA	ATGCGATAGAGGCATC TGCT	TGCATTTTGCCTGCTCT ATG	60.0	842	DRR	Ca_15486	R	NAC
Ca4_P2_32646331	Ca4	32646331	CGA/C	TCAAAATCAAAGACCGA AAACA	TGCAAGTTGTGTGGT TTGA	59.8	378	INTERGENIC	--	--	--
Ca4_P2_32646931	Ca4	32646931	TAAA/TAAAAAAA	GCGCTTTGTTCTCACT CTC	AGTATGGGGAACAGGG GAAA	60.5	911	INTRON	Ca_15487	--	--
Ca4_P2_32647144	Ca4	32647144	TAAA/TAA	TGCATTGTTTCAAGGG TCA	CCTAATTGCACCCCAA AATG	60.2	611	INTRON	Ca_15487	--	--
Ca4_P2_32663516	Ca4	32663516	TTTATTATTATTATTATTATT/TTTAT TATTATTATTATT	TGCGTTTCACTCTTCT TCC	TGTCAGGCCCAAAAC AAAA	59.2	257	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_32696742	Ca4	32696742	AGG/AGGG	TGTATTTCAGGGACG TGAA	CTCATGAGAGGCGATT GTGA	59.9	467	INTERGENIC	--	--	--
Ca4_P2_32700117	Ca4	32700117	CTTTTTT/CTTTTTTT	TACGTGTCGCTTAGGC ACTG	CGTCTTGTCGGTGTA TTTG	60.2	461	INTERGENIC	--	--	--
Ca4_P2_32747280	Ca4	32747280	GAAA/GAAA	TCTTCCACCCAGTTTGT ACC	GGAGACAGGTGTGGAC GTTT	60.0	386	INTERGENIC	--	--	--
Ca4_P2_32873959	Ca4	32873959	CTTTTTTTTTT/CTTTTTTTTTT	AAAAATTATTTCCCAA ATGTCC	GGAAGCGACCACACAT TTTT	60.0	219	INTERGENIC	--	--	--
Ca4_P2_32886390	Ca4	32886390	AC/ACC	AATCATCCCATGTTGCC ATT	CGAGATTCACACCAA GGGT	60.0	519	INTERGENIC	--	--	--
Ca4_P2_32888389	Ca4	32888389	TCCCC/TCCCCC	TCTGCTCTTAATTAAT CCACTCAA	TCTTCTCCTCCCTAG CCTC	59.9	387	DRR	Ca_15497	--	--
Ca4_P2_32909724	Ca4	32909724	TGG/TG	TTTTTAAATTGAAGCAA CGGAAA	TGTCCTCTCCCTCT ACAA	59.6	574	INTERGENIC	--	--	--
Ca4_P2_32931782	Ca4	32931782	ATTT/ATT	CCGAGCCAAAATCCAAA ATA	TCCAATGAAAGCAAAC CACA	60.1	867	INTERGENIC	--	--	--
Ca4_P2_33008234	Ca4	33008234	A/AC	GCGAACATGAATGTCAT TGG	TTTCTTCTGAGTTGC GCTT	60.1	832	INTERGENIC	--	--	--
Ca4_P2_33050402	Ca4	33050402	ATTTTTTTTTT/ATTTTTTTTTT	TTCTCTCACGCAAAAT GTC	AAAAGAATTTGGGTC TTTCG	59.5	531	DRR	Ca_24017	GC	HSF
Ca4_P2_33054018	Ca4	33054018	TAA/TAAA	GGAATGGCAAACCTTCA TGC	TTTGCATTACGGATTG ATGA	59.0	520	INTERGENIC	--	--	--
Ca4_P2_33054232	Ca4	33054232	TAAAAAAA/TAAAAAAA	TCATCAAATCCGTAATG CAAA	GCACATGGGGTACCAG ACTT	59.9	445	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_33055003	Ca4	33055003	CTTTT/CTTTTTT	AAGTCTGGTACCCAT GTGC	TAAAGACCAAGTCGG GAAA	59.5	645	INTERGENIC	--	--	--
Ca4_P2_33064079	Ca4	33064079	ATTGTTGTTGTTGTTGTTG/ATTGT TGTGTTGTTGTTGTTGTTG	TCGGGCCACTATCTGG ATTA	GTGTGCCGTCACAAAC AATC	60.0	810	INTERGENIC	--	--	--
Ca4_P2_3307079	Ca4	3307079	ANNNNNNNNN/ANNNN	TCCCAATTGATTCGACG TTC	CAAAGACTGCATATCG GCAA	59.8	350	INTERGENIC	--	--	--
Ca4_P2_33088053	Ca4	33088053	TAAAA/TAAAAA	CCTGCAGTATCCTCAAC TTGC	GTGCCTGGTAAATGGA TGCT	60.0	790	INTERGENIC	--	--	--
Ca4_P2_33100738	Ca4	33100738	GAAAAAAAA/GAAAAAAAAA	TTGGGTTGTGAGGAAT GGAT	TCATCTGTTAGGTACC CCGC	60.0	304	INTERGENIC	--	--	--
Ca4_P2_33111076	Ca4	33111076	CTTTTT/CTTTTTT	GCATCACGCTACCATA GGCT	AAGTTTGGGTGCTC ATGG	60.0	392	INTERGENIC	--	--	--
Ca4_P2_3313145	Ca4	3313145	AATATAT/AATAT	GCAGCCCTCCTTTTC TAT	TTGATGAAGGAAAAG ACATCG	59.2	698	INTERGENIC	--	--	--
Ca4_P2_33133711	Ca4	33133711	ATTTTT/ATTTTTT	TCAGATTGGAATGGCT TCA	GGTACGTCCAGTCCTC TTGC	59.7	460	INTERGENIC	--	--	--
Ca4_P2_33145619	Ca4	33145619	TAAAAA/TAAAAA	AAACCGTCGTCCAGTT GTC	AGGCAACAACATAGA ATCGC	59.2	550	INTERGENIC	--	--	--
Ca4_P2_33155610	Ca4	33155610	GTTATTATTATTATTA/GTTATTATTA TTATTA	CAAGCTCAGAAATCCAA ATTCA	CCTCCAATTCAGTCTTC CCA	60.0	425	INTERGENIC	--	--	--
Ca4_P2_33170727	Ca4	33170727	TC/T	TTTTCTTGAAAATGTT GTCGTG	TGTCATATTCGTCGGC TTTG	59.7	774	INTERGENIC	--	--	--
Ca4_P2_33184933	Ca4	33184933	TTATATATATATAT/TTATATATATATA T	GACATTTGAACTTGAA TTTCT	AATCAGCACTGCTCCG AACT	60.0	491	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_33195041	Ca4	33195041	T/TAGCATTGCGTGA	TTGTCCGTGAGAGACT GCAC	GAATCCTGGGCTGAA TCAA	60.0	595	INTERGENIC	--	--	--
Ca4_P2_33204821	Ca4	33204821	AATATATATATATATATATAT/AATATA TATATATATATATAT	GCCACACTCCGAAACA AAAT	ATGGAAGTAGGTGGCA GTGG	60.0	823	INTERGENIC	--	--	--
Ca4_P2_33256637	Ca4	33256637	ATTTTTTTTT/ATTTTTTTTT	CATTGATCATGGTCTT GCC	GGCTTGTAACAA TGGA	60.0	329	INTERGENIC	--	--	--
Ca4_P2_33260832	Ca4	33260832	TGAAGAAGAAGAA/TGAAGAAGAAGAA GAA	ACATCTGGAATTGCTT GCC	CGACTTGGCACCATA TCCT	60.0	968	INTERGENIC	--	--	--
Ca4_P2_33296074	Ca4	33296074	TAAAAAAAAA/TAAAAAAAAA	TGACCTCCCACTGCATA CAA	AAGAGACCGCATACGT GGAT	59.6	532	INTERGENIC	--	--	--
Ca4_P2_33308913	Ca4	33308913	GAAAA/GAAA	TCAATTTCCCTCGTT CTG	TTGGCCAAACCTTTTG ATG	60.8	183	DRR	Ca_24021	R	C2H2
Ca4_P2_33314599	Ca4	33314599	AC/A	ATGTCCATAACGCATGC AGA	CATCATGCCACTTTGG ATTG	59.9	661	INTERGENIC	--	--	--
Ca4_P2_33315743	Ca4	33315743	CTT/CTTT	ACATGAGTCTTTGTG CCC	TGGCACGTGATTTGT TGAT	60.0	477	INTERGENIC	--	--	--
Ca4_P2_33321015	Ca4	33321015	AATATA/AATATATA	TATTGTTGACCCCA TTT	ATGTCTGCCCATTTT TTG	59.9	229	INTERGENIC	--	--	--
Ca4_P2_33327822	Ca4	33327822	TAAAAAAAAA/TAAAAAAAAA	CGAAATTCGAATGG TAGC	GGTCAAGTGTGCGC AAAT	60.0	516	INTERGENIC	--	--	--
Ca4_P2_33328067	Ca4	33328067	GAAAAAAAAA/GAAAAAAAAA	CGAAATTCGAATGG TAGC	AGTATGATGGGTCAT GGGA	60.0	631	INTERGENIC	--	--	--
Ca4_P2_33330920	Ca4	33330920	ATTTTTTT/ATTTTTTTT	CTATGGAGTTGCCAC CGAT	TTAACGGTGAGAACAA GGGG	60.0	609	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_3334049	Ca4	3334049	AC/ACC	ATGTTAGTTGGGGTGT GGGA	AGCAAGCACAACATAG CACG	60.1	413	INTERGENIC	--	--	--
Ca4_P2_33339958	Ca4	33339958	T/TA	TGGTGACAACAAGTTT CCA	CCACATTTTCTCATCCA CACA	59.4	437	INTERGENIC	--	--	--
Ca4_P2_33342440	Ca4	33342440	TTTTTCTTCTT/TTTTTCTTCTTCTT TCTTCTT	TGAAATTCACCTCAC TCC	TTGGTTGAGGTTTATG CGTG	59.6	155	INTERGENIC	--	--	--
Ca4_P2_33346959	Ca4	33346959	TT/TTAT	TTTTCGGTTTGTTCAAA GGC	GGAAAACATTGGGAAA CCCT	60.0	766	INTERGENIC	--	--	--
Ca4_P2_33347892	Ca4	33347892	AGG/AG	AGCCCAAGACGATCAT CAAC	TCCTAAAAGACTGCC GCTA	60.0	855	INTERGENIC	--	--	--
Ca4_P2_33349362	Ca4	33349362	GTTTTTTTTT/GTTTTTTTTT	TTTGAAGGTGCAGACA CGAG	TTTCATTGTTGCTGCCT CTG	60.0	148	INTERGENIC	--	--	--
Ca4_P2_33363121	Ca4	33363121	AAAA/AAAAGAAA	CGTTTGGTTGCACTGAT GTC	AAGGTCTCAAAACGTG GTCG	60.1	610	INTERGENIC	--	--	--
Ca4_P2_33363161	Ca4	33363161	GT/GTATA	CGTTTGGTTGCACTGAT GTC	AAGGTCTCAAAACGTG GTCG	60.1	610	INTERGENIC	--	--	--
Ca4_P2_33397164	Ca4	33397164	TTATATATATATATATA/TTATATATAT ATATATATATATA	ATAGGCTTTGCACTTCC CCT	CCCCAACAAATGGAG CTAA	59.9	582	DRR	Ca_24022	--	--
Ca4_P2_33397720	Ca4	33397720	ATTTTTTTTTT/ATTTTTTTTTT	CTCCATTTTGTGGGG CTTA	GCCAAACAACACCAT GCTA	59.6	584	DRR	Ca_24022	--	--
Ca4_P2_33431052	Ca4	33431052	GAAAAAAAAA/GAAAAAAAAA	TTTATGCTCCGTTTGTG CTG	CACACACCACCTCTCC CTTT	60.0	435	INTERGENIC	--	--	--
Ca4_P2_3345838	Ca4	3345838	TTATATATATATATATATATATATA TATATATA/TTATATATATATATATATA TATATATATA	TTTCATCCCTTCACAC TCC	TTTGACAAAATGACCC AACT	59.3	456	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_33467450	Ca4	33467450	CAAAAAAAAA/CAAAAAAAAA	TGATGTAAATGATGA TGTGAA	AATTTGAGTTGCAATT GATGA	57.3	558	INTERGENIC	--	--	--
Ca4_P2_33467899	Ca4	33467899	ATTTTT/ATTTTT	TCATATCATCAATTGC AACTCA	TGATGTAAAAGCTACA GCAACAA	59.0	455	INTERGENIC	--	--	--
Ca4_P2_33500201	Ca4	33500201	CAAAAAAAAA/CAAAAAAAAA	TGAGAGAACTGAGCT CGATGA	GGTGTGAAAAACACA AGAGC	59.9	917	INTERGENIC	--	--	--
Ca4_P2_33517677	Ca4	33517677	TAAAAAA/TAAAAAA	TTGGTCGTTTGAGCCTT TCT	CGAGAACACGCATTAC GCTA	60.0	529	INTERGENIC	--	--	--
Ca4_P2_33557759	Ca4	33557759	GTA/G	TACCTTTGCTAGCCCC TTT	TTTTGAGGACTTTCGG GTTG	60.1	462	INTERGENIC	--	--	--
Ca4_P2_3355845	Ca4	3355845	CGA/CGATAAGGA	GTTGGGTATTGGTGTC CCAC	GAGGGTGATCAGCTTT CTCG	60.0	589	INTERGENIC	--	--	--
Ca4_P2_33581989	Ca4	33581989	ATTTTTTTTT/ATTTTTTTTT	TTGGGAGGAGGAGAA GTCA	AACGGACAACCACACC TTTT	59.4	705	INTERGENIC	--	--	--
Ca4_P2_33603011	Ca4	33603011	ACC/AC	CCTCTTCGAACCTGTGA GGC	CCTTCGCACCAATAGC AAAT	60.1	552	INTRON	Ca_24027	R	--
Ca4_P2_33609998	Ca4	33609998	A/AGAT	GAAAGAACGCTGAAAC CCAG	TTCAAGTCAGGTGCTC AACG	60.0	695	INTRON	Ca_24027	R	--
Ca4_P2_33615467	Ca4	33615467	ATT/ATT	GGTCCTTGTGAGTCC AACG	CTCAAAACCTGAGCA TGGC	60.8	646	INTERGENIC	--	--	--
Ca4_P2_33615658	Ca4	33615658	AG/A	GGTCCTTGTGAGTCC AACG	AATGGAATAGCGGAGT GTGC	60.1	898	INTERGENIC	--	--	--
Ca4_P2_33615702	Ca4	33615702	ATTTTTTT/ATTTTTTT	TGAAATAAACTCCGCA GACG	AATGGAATAGCGGAGT GTGC	60.1	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_33619155	Ca4	33619155	CGTGT/CGTGTGT	GAACATGCTGAAACG GGAT	TGAGGGCAATGACAAA CAAA	60.1	122	INTERGENIC	--	--	--
Ca4_P2_33626327	Ca4	33626327	AA/AAAATA	TTGCACACATCTTGCAC AAC	GCCTCTTTGATCGAGA ACCA	60.3	463	INTERGENIC	--	--	--
Ca4_P2_33627666	Ca4	33627666	TATTTAAATTTAAATTTAAATTTAA AT/TATTTAAATTTAAATTTAAAT	AGTGACATGACGGAAG TAGCA	TTGGTTCCAGTGTGCA TGTT	60.0	432	INTERGENIC	--	--	--
Ca4_P2_33632691	Ca4	33632691	AAAAAAA/AAAA	AACTCACCCCTCGTTGT TTG	CGGACGATATGTTCC TCGT	60.0	685	INTERGENIC	--	--	--
Ca4_P2_33633372	Ca4	33633372	GTTTTTTT/GTTTTTTT	ACGAGGAAACATATCGT CCG	ATGTCCACACATTGGG TGTC	59.1	726	INTERGENIC	--	--	--
Ca4_P2_33633525	Ca4	33633525	ATTTTTTTT/ATTTTTTTT	AGGATGCAAGAGAGGG ATGA	ATGTCCACACATTGGG TGTC	59.1	441	INTERGENIC	--	--	--
Ca4_P2_33654066	Ca4	33654066	CAAAAAAAAA/CAAAAAAAAA	CTTGTGTTTGTGTTGTG GGG	TTGTTCGCACACAAA CTT	59.2	711	INTERGENIC	--	--	--
Ca4_P2_3365913	Ca4	3365913	AATATATATATATATATATATAT/AA TATATATATATATATATATAT	AAAGAGGCATGACAC CAAT	TCGGATCGGACACTAT GACA	60.1	466	DRR	Ca_12139	--	--
Ca4_P2_33671303	Ca4	33671303	A/AC	GCCAAATGTGAAGGAC CACT	GCACCAGTTCCAACGT TTTT	60.0	379	INTERGENIC	--	--	--
Ca4_P2_33714267	Ca4	33714267	T/TCTTAATC	GAACACGTTGTTAGAC CGGC	TGACAAAATGGGGAGA AAGG	59.9	713	INTERGENIC	--	--	--
Ca4_P2_33714529	Ca4	33714529	ATT/ATTGTT	CGTTGTTAGACCGGCT CTTG	TGGGCTGACATAATCA CCAA	59.9	940	INTERGENIC	--	--	--
Ca4_P2_33715942	Ca4	33715942	TAAAAAAAAA/TAAAAAAAAA AA	TTGGGTACGTTGGTGT AGCA	ATTGACTGGGCACCAT GATT	60.2	634	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_33717835	Ca4	33717835	AAAAACA/AA	CCAAAAACCCCTCTTT TCC	CCACCAAAATTTGTCCA ACC	60.1	730	INTERGENIC	--	--	--
Ca4_P2_33732859	Ca4	33732859	TTCATTTTCT/TT	ACGGTTAACGGATTACA GCG	TGTATGCGTCCGTGA GAAG	59.9	272	INTERGENIC	--	--	--
Ca4_P2_33733792	Ca4	33733792	AATATTTGTTTATATT/AATATTTGTTTAT ATTTGTTTATATT	CGTTATTTCCCATATGAG AGGC	TGTGATGTTGGACGTG TGTG	60.0	280	INTERGENIC	--	--	--
Ca4_P2_33736905	Ca4	33736905	ATTTTTTTT/ATTTTTTTTT	GGCTTTTCAAAGTTCAT CGG	TTGAAGGATTTGAATTC CCC	58.8	789	INTERGENIC	--	--	--
Ca4_P2_33738599	Ca4	33738599	GAAAAAAAA/GAAAAAAAAAAAAA	ATTGTTGCGCACAAATT GAA	CACCACCAATCACAA GACG	60.0	734	INTERGENIC	--	--	--
Ca4_P2_33743516	Ca4	33743516	CAAAAA/CAAAAA	TGTAGCTGGTGTCCAC GAAG	AATGCAAGAATCCACC TTGG	59.9	435	INTERGENIC	--	--	--
Ca4_P2_33747045	Ca4	33747045	TAAAAAAAAAAAA/TAAAAAAAAAAAAA	GTAGTGGGTGAACGTG GCTT	CACCAAGGATTCATAA CGGC	60.3	360	INTERGENIC	--	--	--
Ca4_P2_33780632	Ca4	33780632	AATATATATATATATATATATATATATATAT ATATATA/AATATATATATATATATATATA TATATATATATATATATA	GAGAGTTCGATTGCTG AGCC	ACTTTTCAGCCATGAC CCAC	60.0	689	INTERGENIC	--	--	--
Ca4_P2_33783886	Ca4	33783886	TAAAAAAAA/TAAAAAAAAA	ATTTTGAACAATCGGG CAA	TTGGGTGGGTACAGTT GGAT	60.1	740	INTERGENIC	--	--	--
Ca4_P2_33784625	Ca4	33784625	GTAT/GTATAT	CCGGTCTCAATTTCTC CAA	TGTACGCTAGATTTCAC TTTTGGA	60.2	440	INTERGENIC	--	--	--
Ca4_P2_33795008	Ca4	33795008	TTATATATATATATAT/TTATATATATA TAT	GTCGTGTCAATGCAAC AACC	TCGACTAAGGACATTG GGCT	59.7	514	INTERGENIC	--	--	--
Ca4_P2_33807474	Ca4	33807474	TAAAAAA/TAAAAAAA	GTCATTTGGCGGAAC CTAA	TTGAGGTGGGATATGT TTGC	58.4	694	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_33813152	Ca4	33813152	TAA/TA	AGAGAAGTTGGCCGAC AAAA	CTCCAATGCCCAACAA AAGT	60.0	734	INTERGENIC	--	--	--
Ca4_P2_33822409	Ca4	33822409	A/AC	TTGTCTCGGCTGCTATT GAC	AAAAACTGAGGTGGCA AACG	60.1	205	DRR	Ca_20370	--	S1Fa-like
Ca4_P2_33826708	Ca4	33826708	GTTTTTTTT/GTTTTTTT	GGACAAAGAGCATGGG TGAT	TGAAAAAGAGGGGTC AAGC	60.1	465	DRR	Ca_20369	Q	--
Ca4_P2_33833847	Ca4	33833847	TA/TAAGTGA	GCGTCATCGTCCCTAC AAAT	TCCAACGCAAGGCT ATCT	60.0	375	INTERGENIC	--	--	--
Ca4_P2_33835153	Ca4	33835153	AAGCT/A	TTTTCAACAAATCACTT GAAAGAA	TCGAGCCTTATTGTGG ATGA	59.2	654	INTERGENIC	--	--	--
Ca4_P2_33835234	Ca4	33835234	TAAAAAA/TAAAAAAA	CCAATCAAATTGAGCAT ACCC	TGTGTTTGCTTTGCATG CTT	60.4	529	INTERGENIC	--	--	--
Ca4_P2_33840554	Ca4	33840554	AG/A	TATGCGCATCGTAAAT CGT	CAAAATTTCAACAAA ACCCA	58.9	676	INTERGENIC	--	--	--
Ca4_P2_33840633	Ca4	33840633	AAAAAATTAAAAATTAAAAATTAAAA AA/AAAAAATTAAAAATTAAAAA	TATGCGCATCGTAAAT CGT	GATGGCTGGTAGACGG ACAT	60.0	874	INTERGENIC	--	--	--
Ca4_P2_33840927	Ca4	33840927	TAAAAA/TAAAAA	TTTTTCTGAGTTGGTC CTTT	GATGGCTGGTAGACGG ACAT	60.0	560	INTERGENIC	--	--	--
Ca4_P2_33857426	Ca4	33857426	AAAAATTAAAT/AAAAATTAAATTA AT	GTTTGTGATGGGGA TGAC	CAAATTTGGCGTTGTT CTT	60.0	611	INTERGENIC	--	--	--
Ca4_P2_33857955	Ca4	33857955	TAAAAA/TAAAAA	CAAATTTGCTTTGGG CCT	TTGACTTGATCTGCGTT TGC	60.0	630	INTERGENIC	--	--	--
Ca4_P2_33858628	Ca4	33858628	ATTT/ATTTT	GCAAACGCAGATCAAG TCAA	ATTATTGGGAAATCT GGGC	60.0	841	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_33912297	Ca4	33912297	ATATCT/AT	AGAATCCAATCGAAGC CCT	ACCCGCTCTAAGTCCA AAGC	60.8	606	INTERGENIC	--	--	--
Ca4_P2_33921285	Ca4	33921285	ATGCT/A	TGGGTGGTTGACACTT GAAA	CAGAGGAAAATGGGGT CAGA	60.0	560	INTRON	Ca_20365	O	GATA
Ca4_P2_33924249	Ca4	33924249	ATAGT/ATAGTAGT	CCGTCAATACATGTTGC TGG	TCGAGAGTTGCTCCTG GTTT	60.0	729	INTRON	Ca_20365	O	GATA
Ca4_P2_33983110	Ca4	33983110	T/TA	TGGAACAAGTGGGTG TTCA	TGCATTGGTGTAGCCA TAGG	59.6	716	INTERGENIC	--	--	--
Ca4_P2_33986135	Ca4	33986135	TTATATATATATATATAT/TTATATATA TATATATATATATAT	CATGTTTTGCACTTGGG TTG	ATTGCAATCCCCTTGA AGC	60.1	714	INTERGENIC	--	--	--
Ca4_P2_34006503	Ca4	34006503	GA/GAGTGTTA	ACAGAGGAAGCTGCCA CCTA	GAGTTCAACCAATGGC GTCT	60.1	653	INTERGENIC	--	--	--
Ca4_P2_34022046	Ca4	34022046	GAAAAAAAAA/GAAAAAAAAA	TGAGCTCTGAGGGAAA GGAA	AAAAAGGAAAAGCCAG CCTC	59.8	805	INTERGENIC	--	--	--
Ca4_P2_34026279	Ca4	34026279	TAAAAAAAAA/TAAAAAAAAA	AAACAACCGCCATCCAA CT	TTTCATGGACAACAAG CCA	60.1	213	DRR	Ca_20364	--	--
Ca4_P2_34039084	Ca4	34039084	TAAAAAAAAA/TAAAAAAAAA	TACCAAAGTGTGCGCAA CAA	AAAAAGGAAAAGCCAG CCTC	59.8	742	INTERGENIC	--	--	--
Ca4_P2_34056670	Ca4	34056670	ATAAT/ATAATTAAT	AGGATGCAACAAACCC AAAG	GTCCAATGAAAACGC CAAT	59.8	461	INTERGENIC	--	--	--
Ca4_P2_34078673	Ca4	34078673	TAAGAAGAAGAAGAA/TAAGAAGAA GAAGAAGAAGAA	TTTTGTTGCCATCGTTT GAA	AAATTCCCCACCTTGG ATTC	60.0	471	INTERGENIC	--	--	--
Ca4_P2_34087689	Ca4	34087689	TAAA/TAAA	GTGTTGAGGTTGAACC AGGG	ACCAAAACAACGTGAC ACCA	59.9	596	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_34091010	Ca4	34091010	CAAAAAAAAA/CAAAAAAAAAA	TGTAGGCCACATTTT GAA	GATGCTACATGGGAA GGGA	59.9	124	INTERGENIC	--	--	--
Ca4_P2_34121290	Ca4	34121290	CAAAAAAAAA/CAAAAAAAAAA AAA	GCATATTGGGAGAAAT GAGCA	GGATGCATGGGAGTTA CCAC	60.2	242	INTERGENIC	--	--	--
Ca4_P2_34127922	Ca4	34127922	ATTTTTTTTT/ATTTTTTTT	CCACCTAATCACTCATA ATCGACA	GGAAAATTAATGTG GGAAAA	57.2	482	INTERGENIC	--	--	--
Ca4_P2_34135702	Ca4	34135702	TGG/TG	CCATCTACCTTTGTCGG TGC	GGCCTTTCACAAAA CTCA	60.1	423	INTERGENIC	--	--	--
Ca4_P2_34169705	Ca4	34169705	CAATGA/CAATGATAATGA	TCAAAGTGGCTCACAA GTGC	TCGACTCAAGAAGGCA AGTG	59.2	781	INTERGENIC	--	--	--
Ca4_P2_34227066	Ca4	34227066	A/AG	ACGGCAAAAACAGTG AAAT	TGAGGAAAATTGAGAC CGGA	60.6	327	INTERGENIC	--	--	--
Ca4_P2_34228273	Ca4	34228273	CTTT/CT	TGGAAGTTGGGAGAAA CACC	ACGATTCGTACACAAT GGA	60.0	612	INTERGENIC	--	--	--
Ca4_P2_34240189	Ca4	34240189	CC/CCTGATGC	AGCGACCAGCTCTGAT TTGT	GGGAGCTGCTTGATGA GAAG	60.1	168	DRR	Ca_20356	L	--
Ca4_P2_34246830	Ca4	34246830	ATT/AT	CGTCTTCGTACAAAG CCTC	GATTGGGACCATTC ATTA	59.4	320	INTERGENIC	--	--	--
Ca4_P2_34247514	Ca4	34247514	TTATATATATATATATATATA/TTATAT ATATATATATATATATATATATA	TCATTAGCTCAATCAAT TACGCA	TTGATAAGATTGATCCG TTGGA	59.4	434	INTERGENIC	--	--	--
Ca4_P2_34254143	Ca4	34254143	GTTTTTTTTT/GTTTTTTTTTTT	TTTTGCGACATTTGATC GTT	TGTTCTCGCACACCAA AAAG	59.9	454	INTERGENIC	--	--	--
Ca4_P2_34287834	Ca4	34287834	GT/G	GTGGAGATCACCCGAG TTGT	CAAATCCATGCTCTGC AAAA	59.8	811	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_34390748	Ca4	34390748	TAAAAA/TAAAAAA	GCAAAACGTGTTCTCC CATT	AACCAATTTTCCCATG ACA	60.0	566	INTERGENIC	--	--	--
Ca4_P2_34401219	Ca4	34401219	CAAAAAAAAA/CAAAAAAAAA	TGGAGAACTCTTCG CTGT	TCCACTCCTCAACCG TAGG	60.1	656	INTERGENIC	--	--	--
Ca4_P2_34425896	Ca4	34425896	CTTTTTTTTTTT/CTTTTTTTTTTT	CAGCAAATTGTCGTCAA GGA	TGCAATGGCTCTGTTC TCAA	60.5	422	INTERGENIC	--	--	--
Ca4_P2_34432600	Ca4	34432600	ATTTTTTT/ATTTTTT	GGGTGAGGATTGGTCA GTCA	ACCTTTGGGTCTTGCC TTTT	60.0	407	INTERGENIC	--	--	--
Ca4_P2_34454517	Ca4	34454517	TAAAAG/TAAAAGAAAAAAAAAG	AGGGGTGGTGATTCTC ACAG	ATTTTGGAGGACTTTC GGG	60.3	285	DRR	Ca_20352	--	B3
Ca4_P2_34458672	Ca4	34458672	T/TATC	CCAAACGTTCTCCACA ACT	AGGATGGAAGCCAGGA TTTT	59.9	374	DRR	Ca_20351	--	--
Ca4_P2_34461628	Ca4	34461628	GC/G	ATTAAATGCTCAAACG CCT	TTCCACATTGGTGCT TGA	60.1	781	INTERGENIC	--	--	--
Ca4_P2_34462526	Ca4	34462526	TAAAAAAAA/TAAAAAAAA	GTGGGAAAAGATGTGG GAGA	TCGAAAGATTTTCCA TGC	60.0	584	INTERGENIC	--	--	--
Ca4_P2_34473954	Ca4	34473954	CTTTTTTT/CTTTTTTT	ACCCAAATCCAGTGTG TGC	GGCCTTGTCGAATGAT TGTT	59.9	839	INTERGENIC	--	--	--
Ca4_P2_34475378	Ca4	34475378	GAAAAA/GAAAAA	CATTGTGGATGCAGTT TGC	CGAAATAAGATGTCCA CCGC	60.5	535	INTERGENIC	--	--	--
Ca4_P2_34475759	Ca4	34475759	GAAA/GAAA	GCGGTGGACATCTTAT TCG	CGCATTGAAGCATAAA CCCT	60.1	446	INTERGENIC	--	--	--
Ca4_P2_34482261	Ca4	34482261	GCCGCC/GCCGCCGTAACCGCC	ACGCCATCTGCCATAT GTTT	TTTGGGGTGATGGA TGAT	60.0	497	INTRON	Ca_20350	R	G2-like

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_35432836	Ca4	35432836	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	TTTCCGACATGAGTATG GCA	TTTGGAAAGTAACACT GCACG	58.9	785	INTERGENIC	--	--	--
Ca4_P2_35445772	Ca4	35445772	AATATATATATATATATAT/AATATATA TATATATATAT	TGCATTCAATTAAGCTT GCG	ATGTGGGCAAGTGACA AACA	60.0	654	INTERGENIC	--	--	--
Ca4_P2_35454688	Ca4	35454688	TT/TTGACAACGCAAT	TGATGCCATGATCCTCT TCA	AGGAATGGCAGCAATG AATC	60.0	662	CDS (FRAME SHIFT)	Ca_22430	R	NAC
Ca4_P2_35457008	Ca4	35457008	TTGC/T	AATTGCAGAAAAATGCG GTC	TTGTACCAGATATTGG CCCG	60.7	776	INTERGENIC	--	--	--
Ca4_P2_35457562	Ca4	35457562	AA/AAAATTA	ATCAAATGTTTCATGCGC AAA	CCCTTTCCCCCAAGTG TATT	60.0	602	INTERGENIC	--	--	--
Ca4_P2_35571122	Ca4	35571122	TAAAAAAAAA/TAAAAAAAAA	CTTTGGAATCAGCTTGC CTT	TTCATCCATTGTTGCTT CCA	60.0	498	INTERGENIC	--	--	--
Ca4_P2_35579933	Ca4	35579933	ATTTTT/ATTTTT	TTGTGGCCCAACATTGA CTA	TTGGAGAAAACAATGC GGTT	60.5	785	INTERGENIC	--	--	--
Ca4_P2_35580174	Ca4	35580174	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATT	TTGTGCCATAAAATTC GGT	TTGGAGAAAACAATGC GGTT	60.5	494	INTERGENIC	--	--	--
Ca4_P2_35599208	Ca4	35599208	ATT/ATTTT	AGATGGCCTGGATCAA AATG	GCTCACGTTTGCCAAA AACT	60.3	689	DRR	Ca_22440	R	TCP
Ca4_P2_35617043	Ca4	35617043	CAT/CTCTTGAAT	TGCCCATGTTTACCACA GAA	AGCCAAACAGAAAGCT CCAA	60.0	841	INTRON	Ca_22440	R	TCP
Ca4_P2_35620689	Ca4	35620689	TGA/TGAGA	ACAATCCCGACACAAAG TCA	GAAGCGAGAGGTAAGC GATG	60.1	499	INTERGENIC	--	--	--
Ca4_P2_35639160	Ca4	35639160	ATT/ATTT	GGAAAAGATGGTATTTG CCG	CTTCCCTGCTGGCAAC TTAG	60.0	339	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_3570747	Ca4	3570747	TATAC/T	GTAGTACAGCCCGCA CAAT	TGCTTCCACAATCATGA GAAA	59.3	710	DRR	Ca_12156	--	--
Ca4_P2_35779928	Ca4	35779928	AACACACACACACACA/AACACACAC ACACACACACACA	GGCATATATGTCAATTA GGGGA	TGCTTTTTGTGTTGCT TTG	59.9	765	INTERGENIC	--	--	--
Ca4_P2_3578578	Ca4	3578578	GATATATATATATATA/GATATATATA TATATATATA	TATCCTGATTTTGCTTG CCC	GGAAAAGTGACCTTC AGCA	60.2	540	INTERGENIC	--	--	--
Ca4_P2_35818039	Ca4	35818039	AAATAATAATAATA/AAATAATAATA ATA	GTTCATAACGAAGATGA CAATAACA	TGCAGTCAAACCTTTAA AGGAAG	57.8	728	INTERGENIC	--	--	--
Ca4_P2_35822348	Ca4	35822348	TGG/TG	GATCAAATCGAGGACC GAAA	CGAACAAAACGATGGG AAGT	60.0	695	INTERGENIC	--	--	--
Ca4_P2_35999977	Ca4	35999977	ATTTTTTTTT/ATTTTTTTTTT	GCTGCGAGCACAATA AACA	TCGAACCAATGACCTC ACAA	60.1	439	INTERGENIC	--	--	--
Ca4_P2_3602818	Ca4	3602818	GTTTTTTT/GTTTTTTT	GAGCATCTCTAACGGG AGGA	TCGTCTTTTATGACCAA CTCCC	60.4	541	DRR	Ca_12158	--	--
Ca4_P2_36079126	Ca4	36079126	TTGTG/TTGTGTG	ATTTTGATGCTCACGGT TCC	CGGAGATGATGTTCA GGTT	59.9	595	INTERGENIC	--	--	--
Ca4_P2_36079437	Ca4	36079437	TGTCAAGTCAA/TGTCAA	ATTTTGATGCTCACGGT TCC	GGCGTACCATGCTTTG ATTT	60.0	979	CDS (FRAME SHIFT)	Ca_14855	--	--
Ca4_P2_36094744	Ca4	36094744	TAAAAAAAAA/TAAAAAAAAA	CCTACCATTGCCTGAC CTGT	TTCCGAGTTGTTTGAG AGGA	58.4	427	INTERGENIC	--	--	--
Ca4_P2_36175888	Ca4	36175888	AT/A	AGTTGCAGCGAGTCTG GATT	TCCGACATGCAACTCT TCAG	60.0	437	INTERGENIC	--	--	--
Ca4_P2_36245892	Ca4	36245892	TTATATATATATATATATATAT/TTA TATATATATATATATAT	TACATGCAAGCGAAATG GAA	AGGCATGGTGTGGAG TCAT	60.4	287	DRR	Ca_14846	O	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_36256375	Ca4	36256375	ATTTTTTTTT/ATTTTTTTTT	GATCATCGAGTTCCC GTGT	AGTTCTGAGGGAGGCT CACA	60.0	350	INTERGENIC	--	--	--
Ca4_P2_36335313	Ca4	36335313	ATTTTT/ATTTTT	TTGCGACAAGATCAAG CAAC	TCAACACCAACACAA GGGA	60.0	519	INTERGENIC	--	--	--
Ca4_P2_36335413	Ca4	36335413	TTTT/TTTTTTTTTGAAATTATCTTT	TTGCGACAAGATCAAG CAAC	TCAACACCAACACAA GGGA	60.0	519	INTERGENIC	--	--	--
Ca4_P2_36336918	Ca4	36336918	TAAA/TAAAAA	ACAACAAGGGTGACCT CCAC	TGCTTGCTATTCTGC GTCAA	59.6	736	INTERGENIC	--	--	--
Ca4_P2_36337139	Ca4	36337139	GC/G	TGCAATGTCAATATGAA CCAAA	CCACAACCACTCATCA CGAC	60.0	479	INTERGENIC	--	--	--
Ca4_P2_36337249	Ca4	36337249	TAAATATTGTTCAT/T	TGACGCAGAATAGACA AGCAA	CCACAACCACTCATCA CGAC	60.0	341	INTERGENIC	--	--	--
Ca4_P2_36337338	Ca4	36337338	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTATTATTA	TGACGCAGAATAGACA AGCAA	CCACAACCACTCATCA CGAC	60.0	341	INTERGENIC	--	--	--
Ca4_P2_36399797	Ca4	36399797	TG/TGG	TGTCGTTTGAATGGA GACT	CACGTGTCATGTTCCC ATGT	60.3	549	INTERGENIC	--	--	--
Ca4_P2_36472761	Ca4	36472761	TAAAAAAAA/TAAAAAAAAA	CGTAGGACAGAAACCG TGGTA	TATGTAGCCGTGTCA AGCA	60.3	679	INTERGENIC	--	--	--
Ca4_P2_36529935	Ca4	36529935	TTATATATATATATATATATATATA TA/TTATATATATATATATATATATA TA	TGGTGTAATTGATTC TTCCCT	TCTGGAAAACTGAAC CACAA	59.6	523	INTERGENIC	--	--	--
Ca4_P2_36593028	Ca4	36593028	TAAAAAAAAA/TAAAAAAAAA	CGCGGGGCATATTCTA GTTA	TGATTTGGCATTGTGT TGC	60.5	527	INTERGENIC	--	--	--
Ca4_P2_36645928	Ca4	36645928	GAAAAAAAAA/GAAAAAAAAA	AATTCAGTCCCATCAGC CAG	AGAGGTTTGTTTACCG CGAA	59.7	419	INTRON	Ca_14816	H	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_36690853	Ca4	36690853	CTTTT/CTTT	TTGACAAGCGCTGTGA AATC	CAATGTGTATTCAACGA CCGA	59.5	538	INTERGENIC	--	--	--
Ca4_P2_3672023	Ca4	3672023	ATTTTTTTTTT/ATTTTTTTTTTT	CATTGGACCACTGG GTAT	GGGACAATATTAGTCA CCGATAAA	58.4	614	DRR	Ca_12163	--	--
Ca4_P2_36726834	Ca4	36726834	A/ATT	GCTTGTCCGCGTAAC CTTC	GGGGTGTGCAACCTT TAGA	60.0	283	INTERGENIC	--	--	--
Ca4_P2_36940249	Ca4	36940249	ATTTTTTTTT/ATTTTTTTTT	TTTTCTGAGTTTGCC CAC	CAGGGTCACAAACACA CACC	59.9	746	INTERGENIC	--	--	--
Ca4_P2_36952734	Ca4	36952734	ATTTTTTT/ATTTTTTT	AACTCATGTGGTTGTG GCA	ATGGGCCCTCTTTTGT CTTT	59.9	896	INTRON	Ca_14797	R	C2H2
Ca4_P2_36952818	Ca4	36952818	TT/TTGAACT	GGGTTCATGTTGAAG GGTG	ATGGGCCCTCTTTTGT CTTT	59.9	846	INTRON	Ca_14797	R	C2H2
Ca4_P2_36953596	Ca4	36953596	AATATATATAT/AATATATATATAT	AAAAGAGGGCCCATGA GATT	TGTGCATTGGGAACAA CACT	60.0	693	INTRON	Ca_14797	R	C2H2
Ca4_P2_36954401	Ca4	36954401	TAGAGAG/TAGAG	TCTTCCACTAAACCCA CGC	TGGCACTCTCTTCTCC AGGT	60.0	751	INTRON	Ca_14797	R	C2H2
Ca4_P2_36954611	Ca4	36954611	GGTGT/GGTGTGT	GGAGGATGGATGTGTG TGTG	TGGCACTCTCTTCTCC AGGT	60.0	580	INTRON	Ca_14797	R	C2H2
Ca4_P2_36956803	Ca4	36956803	TAAAAAA/TAAAAAA	CCTTATTTCCCTGCCA TCA	CACCAATGGCTGAAAA TCCT	59.9	595	INTERGENIC	--	--	--
Ca4_P2_36966828	Ca4	36966828	ATTTTTTTTTT/ATTTTTTTTTTT	AGACGACGAATAGGG TGTG	TTCTGTGGTTTCATTGT AAACG	59.9	710	INTERGENIC	--	--	--
Ca4_P2_36968194	Ca4	36968194	TAAAAAA/TAAAAAA	GGCGAAAGTACCCAAA CAAA	GACTTCTGCAAAGGAC CTCG	60.0	426	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFS
Ca4_P2_36968275	Ca4	36968275	G/GTTAATAC	GCGCAAAGTACCCAAA CAAA	GACTTCTGCAAAGGAC CTCG	60.0	426	INTERGENIC	--	--	--
Ca4_P2_36969612	Ca4	36969612	CATATATATATA/CATATATATATATATA TATA	CATGGGCCAAAAATAAA AAGA	GAGCTGTGGAGAAGAA AAGCA	59.7	814	INTERGENIC	--	--	--
Ca4_P2_36969837	Ca4	36969837	CTTTTTTTTT/CTTTTTTTTTT	AGGTCATGCCATCAAA GACA	GAGCTGTGGAGAAGAA AAGCA	59.7	145	INTERGENIC	--	--	--
Ca4_P2_36972358	Ca4	36972358	CTTT/CTT	ACAACCAACAAAATGCG ACA	AGCCTTGAGCGACCAC TTTA	60.0	484	INTERGENIC	--	--	--
Ca4_P2_36972412	Ca4	36972412	GTT/GTTT	ACAACCAACAAAATGCG ACA	TTGAAACATTCTCAGCC TTGTT	58.9	564	INTERGENIC	--	--	--
Ca4_P2_36973113	Ca4	36973113	CATAT/CAT	GCCCCCAATTGGAATGT AGA	ATTCAATTGCGCGAG TGTT	60.6	621	DRR	Ca_14796	B	bHLH
Ca4_P2_36973873	Ca4	36973873	TA/TAGAA	TGTGGTAAATGCGGT CAAA	TCGGGTCATCTGCATT ACAA	60.1	478	DRR	Ca_14796	B	bHLH
Ca4_P2_36977746	Ca4	36977746	C/CT	AACGGCAAAATTGTTCA AGG	CCCTCAAAAACCAACT CCC	58.6	747	INTERGENIC	--	--	--
Ca4_P2_36977812	Ca4	36977812	AGTTTTGAAGGTTTTGAAG/AGTTTTG AAG	AACGGCAAAATTGTTCA AGG	CCCTCAAAAACCAACT CCC	58.6	747	INTERGENIC	--	--	--
Ca4_P2_36981556	Ca4	36981556	GC/GCACA	TGGTTTAGGCATGTGT GGAA	CCCTTGACCTGTTTA GCAA	60.1	532	DRR	Ca_14795	B	bHLH
Ca4_P2_36982191	Ca4	36982191	CAA/CAAAA	TACCTATCCAGCCCAAG TCG	GCAATGAAGTCCGGG TTTA	59.9	297	DRR	Ca_14795	B	bHLH
Ca4_P2_37013372	Ca4	37013372	TA/TACTTAAATGTAA	CACGCTTCAACTGTCC TGA	ATTGATCATCACATTGG CGA	59.9	421	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_37034120	Ca4	37034120	A/AGAG	GGAGTTATCAATGCG TGGA	TGGAGTGGAAGGAAT GGAG	60.0	536	INTERGENIC	--	--	--
Ca4_P2_37034438	Ca4	37034438	ATTTTT/ATTTTT	CTCCATTCTTTCCACT CCA	AGGGAAAAACAAGGTT TTGG	60.2	522	INTERGENIC	--	--	--
Ca4_P2_37034565	Ca4	37034565	GAAAAAA/GAAAAAAA	CTCCATTCTTTCCACT CCA	AGGGAAAAACAAGGTT TTGG	60.2	522	INTERGENIC	--	--	--
Ca4_P2_37034691	Ca4	37034691	ATTTT/ATTTT	CTCCATTCTTTCCACT CCA	AGGGAAAAACAAGGTT TTGG	60.2	522	INTERGENIC	--	--	--
Ca4_P2_37034814	Ca4	37034814	T/TC	CTCCATTCTTTCCACT CCA	GAGCCTTTCATTGGGT TTGA	60.1	906	INTERGENIC	--	--	--
Ca4_P2_37035544	Ca4	37035544	AC/A	TCAAACCCAATGAAAGG CTC	TCCCTTTACCTTGCTC ATT	60.0	640	INTERGENIC	--	--	--
Ca4_P2_37035676	Ca4	37035676	GTAATAATAATAA/GTAATAATAA ATAATAA	TCAAACCCAATGAAAGG CTC	TCCCTTTACCTTGCTC ATT	60.0	640	INTERGENIC	--	--	--
Ca4_P2_37035741	Ca4	37035741	TCC/TC	CCCAATGAAAGGCTCA CAAT	TCCCTTTACCTTGCTC ATT	60.0	635	INTERGENIC	--	--	--
Ca4_P2_37038560	Ca4	37038560	TGAGA/TGAGAGA	TGGTTTATAACACGCT TATATTCA	AGGATTCAACCACAAA GGACA	59.4	242	INTERGENIC	--	--	--
Ca4_P2_37039540	Ca4	37039540	TAAAAA/TAAAAA	TTTATTGACGAGCATCG TTCC	TGGCAAGTGCAACCAA AATA	60.1	386	INTERGENIC	--	--	--
Ca4_P2_37042952	Ca4	37042952	CA/CAATA	GCATGAGAATTTCCGT GTCA	TAAAACCACAGCAAA CGG	59.6	518	INTERGENIC	--	--	--
Ca4_P2_37043249	Ca4	37043249	T/TA	CCGTTTGCTGTGTGGT TTTA	TTGCAACAAGCAACC AAAG	59.9	298	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_37043299	Ca4	37043299	T/TG	CCGTTTGCTGTGTGTT TTTA	TTGCAACAAGCAACC AAAG	59.9	298	INTERGENIC	--	--	--
Ca4_P2_37043980	Ca4	37043980	CAAAA/CAAAAAA	CTAGTCCGGTGGACCC GTAT	TCACGAAATTAGCCCT CCAA	60.6	861	INTERGENIC	--	--	--
Ca4_P2_37044142	Ca4	37044142	TAAAAA/TAAAAAA	TGATTGTTTGTATCCCC TCA	TCACGAAATTAGCCCT CCAA	60.6	328	INTERGENIC	--	--	--
Ca4_P2_37044759	Ca4	37044759	CGAAGAA/CGAA	TTGGAGGGCTAATTC GTGA	TTGGGTTGGGTACAAG AGGT	59.3	557	INTERGENIC	--	--	--
Ca4_P2_37046249	Ca4	37046249	AAATTGA/AAATTGACATATTTAATTGA	CTCCCTTGTCATATGG GGT	TGTTACGCTGGACAAC TTGC	59.9	308	INTERGENIC	--	--	--
Ca4_P2_37047512	Ca4	37047512	CAAA/CA	GAAGTGGGAAATGGGT TTGA	ATGATTGTGCCTCGTG AACA	60.1	662	INTERGENIC	--	--	--
Ca4_P2_37047776	Ca4	37047776	GC/GCC	ATACTCTGCACCACACA CGG	ATGATTGTGCCTCGTG AACA	60.1	241	INTERGENIC	--	--	--
Ca4_P2_37048884	Ca4	37048884	CAAAAAAAAA/CAAAAAAAAA	GCATACAATAGAAACG GAGAGCA	CAGCTGAGTGCGTGAA GAAG	59.9	341	INTERGENIC	--	--	--
Ca4_P2_37049140	Ca4	37049140	TATT/TATTAATT	TTCTTCTTCACGCACTC AGC	CCCTTCTGAAGTGAGC ATCTG	60.0	628	INTERGENIC	--	--	--
Ca4_P2_37055713	Ca4	37055713	A/AT	GCCGACAGTGATTTG TGTTT	CCATATGCCACCATTTC CTT	59.6	552	INTERGENIC	--	--	--
Ca4_P2_37057959	Ca4	37057959	TA/T	TTTGTGCTCCATACACA CATGA	CACCGTCTTCAAGAAT TCCA	60.1	771	INTERGENIC	--	--	--
Ca4_P2_37059578	Ca4	37059578	TCC/TC	GTCCACCTCGTTCCTGT CTT	TGGGGACTGGAAAATG GTTA	60.2	462	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_37069268	Ca4	37069268	GAAAAAAAA/GAAAAAAAA	CCCGACATTCTGAGT CAAT	ACTACCTCCCAAC AAGC	60.4	371	INTERGENIC	--	--	--
Ca4_P2_37069604	Ca4	37069604	CTGTTGTTG/CTGTTG	GCCATGCACATAGCAG AAAA	CACCGAAAAAGATGTT GTTAGTC	57.9	484	INTERGENIC	--	--	--
Ca4_P2_37070250	Ca4	37070250	TTT/TTTCATT	TCAACTCCAATTCAAGT GCG	TGTTGCGTAGCCTCTG AAAA	59.6	206	INTERGENIC	--	--	--
Ca4_P2_37070451	Ca4	37070451	T/TGACTAC	TCAACTCCAATTCAAGT GCG	GCACGAATCTGCGACA ATTA	59.8	721	INTERGENIC	--	--	--
Ca4_P2_37083670	Ca4	37083670	T/TGAACACAAC	TCTCAAGACTCCAGATG GCA	CGTGCTCCATTTTAG GCAT	60.1	558	INTERGENIC	--	--	--
Ca4_P2_37089859	Ca4	37089859	TAAAAAAAA/TAAAAAAAA	ATATCGACAATGCGCAA CAA	CAACCAAGAGCGTTCT CCAT	60.3	853	INTERGENIC	--	--	--
Ca4_P2_37090867	Ca4	37090867	ATTTTTT/ATTTTTTT	CCACCCAGAAAGGAGT TCAA	TTCTCCAAGTTGTTTG GCA	59.3	574	INTERGENIC	--	--	--
Ca4_P2_37099035	Ca4	37099035	G/GT	GGTCAACATTTGAAGAA GATTCTG	CCCACTACGGGTTTG ATTA	59.7	646	INTERGENIC	--	--	--
Ca4_P2_37099831	Ca4	37099831	TAAAAAA/TAAAAAA	TGAATAATTCGCTACG GCT	TGTGAGGAGCTCTTG TGGA	59.5	589	INTERGENIC	--	--	--
Ca4_P2_37101032	Ca4	37101032	GAT/GATCATAACTCTATAT	TCAACGAGTTACCGTG CTTG	TGTGTCTCGGGTTGAG TTGA	60.3	621	INTERGENIC	--	--	--
Ca4_P2_37103905	Ca4	37103905	GTTTTTTTTT/GTTTTTTTTTTT	AATGGTGACGACGACA ATCA	TACTGTCCCCTTGCT CACT	60.0	665	INTERGENIC	--	--	--
Ca4_P2_37104817	Ca4	37104817	ATATTAT/ATATTATTAT	ACTACGCCATCATTTGG AGG	GGGGTGAGAGACCATT TGAA	59.9	613	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_37105526	Ca4	37105526	A/AAT	TTCAATGGTCTCTCAC CCC	ACGAAGGTCAAGCTCA AGGA	60.0	855	INTERGENIC	--	--	--
Ca4_P2_37106034	Ca4	37106034	GT/GTTCCGCTT	TCCTTGAGCTTGACCTT CGT	TTGCGCGAATCAAAAC ATTA	60.2	276	INTERGENIC	--	--	--
Ca4_P2_37107403	Ca4	37107403	TAAAAA/TAAAAAA	CGACGAATTTGCAGAG TCAA	TTTTTGATTCTCTCG TCG	60.2	533	INTERGENIC	--	--	--
Ca4_P2_37117919	Ca4	37117919	AT/A	TACGGAAATCGGCTGG ATAG	GCACGATAATGCAAC CCTT	60.0	496	INTERGENIC	--	--	--
Ca4_P2_37118197	Ca4	37118197	ATTTTTT/ATTTTTT	AAGGGTTGCATTATCG TGC	CCAGCTCGTTGTTTG AAGA	59.0	237	INTERGENIC	--	--	--
Ca4_P2_37120936	Ca4	37120936	GTTTTTTTTT/GTTTTTTTTT	TAACTTCAGGTGGGG ACCA	TCCAAATCCAAACAAA AGG	59.8	442	INTERGENIC	--	--	--
Ca4_P2_37121983	Ca4	37121983	ATTTTTT/ATTTTTT	TCAACATGACCTCCTTA TGCTTT	TCCAAACTCCAAACA CCA	60.0	407	INTERGENIC	--	--	--
Ca4_P2_37126648	Ca4	37126648	TAAAAA/TAAAAAA	CATCATTTCCAACAATC CCC	CACGTGCATGACCCTA AATG	60.0	242	INTERGENIC	--	--	--
Ca4_P2_37128391	Ca4	37128391	TAA/TAAA	CCTCCCCAAGTCCATA CCT	TGCATCCATCGTCAAT ACAA	59.9	737	INTERGENIC	--	--	--
Ca4_P2_37128543	Ca4	37128543	TAAAA/TAAAA	TCGCACTTTTGAGATT GAA	TGCATCCATCGTCAAT ACAA	59.9	462	INTERGENIC	--	--	--
Ca4_P2_37128775	Ca4	37128775	TAAAA/TAAAAA	TTGCACTTTTGAGATT TGA	TCCCTCTCTTTTATGC CTCTC	59.1	690	INTERGENIC	--	--	--
Ca4_P2_37128859	Ca4	37128859	G/GC	TTTGACGATGGATGCAT AAGA	TTTAGGTTGGCTTTGG ATGC	60.1	593	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_37129073	Ca4	37129073	AAGAGAGAGAGAGA/AAGAGAGAGA	TTTGACGATGGATGCAT AAGA	TTTAGGTTGGCTTTGG ATGC	60.1	593	INTERGENIC	--	--	--
Ca4_P2_37129106	Ca4	37129106	GAGATAGTAAAGA/GAGATAGTAAAGAT AGTAAAGA	TTTGACGATGGATGCAT AAGA	TTTAGGTTGGCTTTGG ATGC	60.1	593	INTERGENIC	--	--	--
Ca4_P2_37130048	Ca4	37130048	ATTTTTTTTT/ATTTTTTTTTT	TTGCAGAAGGTTCCCA AATC	TGTTGGCCATCTTTAG CTTT	58.9	841	INTERGENIC	--	--	--
Ca4_P2_37131217	Ca4	37131217	TC/T	TTGTGACCAAAGGTTG GAGG	AATTGCGAGCATTAC CTGC	60.2	710	INTERGENIC	--	--	--
Ca4_P2_37194951	Ca4	37194951	TATAATAATAATAATAATAATAATAA TAATAATAA/TATAATAATAATAATAA ATAATAATAATAATAA	GTCTGGTCTGACCTGG AAGC	CCTGTCAGGCTCAGGC TTAT	59.5	415	INTERGENIC	--	--	--
Ca4_P2_37311820	Ca4	37311820	GATATATATATATATATATATA/GATA TATATATATATATATATATA	CGCTGTAAAATGCATGT GCT	TTGGGTGAACCATTAG GCAT	60.2	528	INTERGENIC	--	--	--
Ca4_P2_37382618	Ca4	37382618	ATTTTT/ATTTTTT	TTGTGAAAAATGCACGA ATCA	TTCCAGCACTATTTCC GGT	59.6	904	INTERGENIC	--	--	--
Ca4_P2_37403650	Ca4	37403650	CTTTT/CTTTTT	CTTATCCAAAAGCGAG GCAC	TGAGTTGGAACAAG CCATCA	60.7	597	INTERGENIC	--	--	--
Ca4_P2_37443931	Ca4	37443931	CT/CTAT	CCGCATTTTCTTCATTA GGG	ACGTTAAGGCATGAGT TGGG	60.0	364	INTERGENIC	--	--	--
Ca4_P2_37444272	Ca4	37444272	GC/GCCTTAAC	GGTTCCTCACTATGC CTTA	TTTCACACCTGCTTCTG TGC	60.0	513	INTERGENIC	--	--	--
Ca4_P2_37462018	Ca4	37462018	ATTTTTTTTT/ATTTTTTTTT	TCAAATCGTGGTGAA CAAA	GGAAATGGTCTTGATG GGTG	60.2	713	INTERGENIC	--	--	--
Ca4_P2_37464628	Ca4	37464628	CAAAAAAAAA/CAAAAAAAAAA	TCTCGGTCAACGGTCT CTCT	ACAACCAACTCCATG GCTC	60.0	195	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_37484715	Ca4	37484715	T/TTTA	CCAAACCCCTTAAACCA GCA	GTGGCCACTGTTTCTC ACCT	60.2	902	INTERGENIC	--	--	--
Ca4_P2_37490253	Ca4	37490253	TNNNNNNNNN/TNNNNN	TCTATGCGCTGATTCA ACAA	AACATCCCCATCAATTC ATCA	60.0	799	INTERGENIC	--	--	--
Ca4_P2_37519504	Ca4	37519504	CTATTTATTTATTTATTT/CTATTTA TTTATTTATTT	GAAAAAGGAGTTGCCA CCAA	TGGGGATACGTAGGAG CAAG	60.1	306	INTERGENIC	--	--	--
Ca4_P2_37608001	Ca4	37608001	ACTCTCTCTCTCTCT/ACTCTCTCTCT CTC	TTGGATTCTGACACAC ACA	TAAAAATTTGGAGGGA GGGG	60.1	568	INTERGENIC	--	--	--
Ca4_P2_37681632	Ca4	37681632	T/TA	ATGCATGGACGCATTAT TGA	AATCTGTTGAACCGAC CCTG	60.0	768	INTERGENIC	--	--	--
Ca4_P2_37706092	Ca4	37706092	TC/T	GCCGGGATGTTCTTTTT GTA	GAGGGGAGGCCTTCTC ATAC	60.0	818	DRR	Ca_15110	C	MYB
Ca4_P2_37706158	Ca4	37706158	G/GA	GCCGGGATGTTCTTTTT GTA	GAGGGGAGGCCTTCTC ATAC	60.0	818	DRR	Ca_15110	C	MYB
Ca4_P2_37707066	Ca4	37707066	TGC/TGCTGGC	TGAGGCCTTAGCTTCG TGAT	CACAAGGACCTGACGG TTTT	60.0	555	INTERGENIC	--	--	--
Ca4_P2_37707134	Ca4	37707134	GC/GTGCCCTCCCC	TGAGGCCTTAGCTTCG TGAT	CACAAGGACCTGACGG TTTT	60.0	555	INTERGENIC	--	--	--
Ca4_P2_37767167	Ca4	37767167	AATTA/AA	GCTGCTGCTGGCATA TTCA	CCGGAATTTCAAAAC GAA	59.9	448	INTRON	Ca_15102	--	SAP
Ca4_P2_37789659	Ca4	37789659	AATATATATATATATATATATATAT A/AATATATATATATATATATATATATA	GGTGGATTGGAGAAGA TGGA	TCCGACAAACAGAGCT ACAAGA	60.1	556	DRR	Ca_15098	--	--
Ca4_P2_3781804	Ca4	3781804	CATATTTTTTGCAATATATTTTTTGT CAAT/CATATTTTTTGTCAATATATTTT TTTGTCAATATATTTTTTGCAAT	TGGTTGTGCGATATTGT GCT	TCAATGCATTTTCGACA TTTTT	59.5	749	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_38558247	Ca4	38558247	ATTTTT/ATTTTTT	TGATGTGGAAATTTTG GCA	ATTTTCGAATGAACGGT TGC	59.9	705	INTERGENIC	--	--	--
Ca4_P2_38655316	Ca4	38655316	TA/TAACCTCTCAACGGA	CGGCGATTTTAAATCCT CAA	GCGGCATTGTCGTCTT ATCT	60.2	727	INTERGENIC	--	--	--
Ca4_P2_38656268	Ca4	38656268	AATATATATATATATATATA/AATATAT ATATATATATATA	TTGCTGCTTCCAGAAC CTT	GGGCTAAGTGCCCTT ATTT	59.5	871	INTERGENIC	--	--	--
Ca4_P2_3868034	Ca4	3868034	GATNNNNNNNNNAT/GAT	AGGAAGGGAACCTCAG GCAT	GCGCTTCTGTTATCC AGAG	60.0	426	INTRON	Ca_03867	--	--
Ca4_P2_38682630	Ca4	38682630	TTATATATATATATATA/TTATATATAT ATATATATATATA	ACGGTATCAATTAACAC AGGAAA	GTGGGGGCTTGTGAG TTAC	59.5	707	INTERGENIC	--	--	--
Ca4_P2_38829588	Ca4	38829588	CATTATTATTATTATTATTATTATTA TTATTATTATTATT/CATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATT	TGTGTGGTCATTGGAAT CACTT	TGAGAAGAGTTGTGGC GTTG	60.0	920	INTERGENIC	--	--	--
Ca4_P2_38863836	Ca4	38863836	CATATATATATATATATATAT/CATAT ATATATATATATATATAT	AACTCAATGACATGCGA CAAA	TTGAGAGGATGGTTAA AGGGA	58.6	779	INTERGENIC	--	--	--
Ca4_P2_38884678	Ca4	38884678	CAAAAAA/CAAAAAA	GGTGGTCATGGTGTAG TTTGG	TCACACGCTCTTCAAA ATCA	59.2	575	INTERGENIC	--	--	--
Ca4_P2_38940144	Ca4	38940144	GTTTTTTTTT/GTTTTTTTTT	TAAAGGACCAAGTCGG GAAA	CTCATAATCTCCGCC CAAA	60.0	216	INTERGENIC	--	--	--
Ca4_P2_3895253	Ca4	3895253	CA/CATGGAAAA	AGGACAGCTCACGACC AAGT	AGGATGCGAATTCGAG GATA	59.6	603	INTERGENIC	--	--	--
Ca4_P2_39014915	Ca4	39014915	TTATATATATATATATATATATATA TATATATATATAT/TTATATATATATAT ATATATATATATAT	TGTGTTCCGACACCATC CTA	AACAGCAACAGCCATA CGAA	59.3	799	INTERGENIC	--	--	--
Ca4_P2_39020626	Ca4	39020626	TAAAAAAA/TAAAAAAA	TGGCATGACACTTAGCT CAAA	CCCAATGTATTGGAA CCAC	59.9	864	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_39038460	Ca4	39038460	ACTTGCTT/ACTTG	CCGGTCACATTCAATAG CCT	ATTGCGTTGTTTCTTCC AGG	60.1	411	DRR	Ca_13078	A	--
Ca4_P2_39070213	Ca4	39070213	TAATAAATAA/TAATAA	TATTTTGGATTTTGGCT CGG	AAGGAAGCAACGAAAA CGAA	59.9	446	INTERGENIC	--	--	--
Ca4_P2_39078155	Ca4	39078155	ATTTTTT/ATTTTTTT	TGTGTGCAATAGAAGG TCGC	CATCACTAGGATGCGA TCACC	60.5	347	INTERGENIC	--	--	--
Ca4_P2_39147993	Ca4	39147993	AATATATATATATATATATAT/ATA TATATATATATATATATATAT	GGAAGGAGCCCTTATC TTCG	ATGTCAATTGATTGCG ACG	59.5	422	INTERGENIC	--	--	--
Ca4_P2_39156446	Ca4	39156446	TAAAAAAAAA/TAAAAAAAAA	GAGCATCGCAGGTTGA ATTT	CCGCATGAGATATTTT GCATT	59.9	362	INTERGENIC	--	--	--
Ca4_P2_39165742	Ca4	39165742	TAAAAATAAAAAATAAAAAA/TAAAAATA AAAAATAAAAAATAAAAAA	CGTATACCGCTGCTCAT CAA	TGATGTGATTTGTGCC ATGA	59.5	259	INTERGENIC	--	--	--
Ca4_P2_39249438	Ca4	39249438	CTTTTTTTT/CTTTTTTT	ATTGTTTGCTCCACAC CTC	TTTCAACAGGAGTATTT TTATGCG	59.6	245	INTERGENIC	--	--	--
Ca4_P2_39257138	Ca4	39257138	ATTTTTTTTTT/ATTTTTTTTTT	TTTGCATTACGAATTG ATGA	TGAATTTTCCGACTTG GTC	59.9	181	INTERGENIC	--	--	--
Ca4_P2_39349085	Ca4	39349085	GTTAGGGTTTAGGGTTTAGGGTT/GTTA GGGTTTAGGGTTTAGGGTTTAGGGTT	AAGGGTTAGGCTTTGG GTTT	CCCTAAACCATACCTCT ACCACAA	60.5	604	INTERGENIC	--	--	--
Ca4_P2_39354610	Ca4	39354610	CAAAAAAAAA/CAAAAAAAAA	TTGCACTTGGTTTGACT CCA	TGGTGAGATTGTGCGA AGAG	60.0	527	INTERGENIC	--	--	--
Ca4_P2_3951584	Ca4	3951584	AT/ATATATATGT	TGGACATTTAATGGTTG CGA	TTTATCTCTCTGTCGCG TGC	59.2	563	INTERGENIC	--	--	--
Ca4_P2_39644838	Ca4	39644838	TAAAAAA/TAAAAA	GGAGGAAGAGATGGAG AAACCT	TGACACTCATTGCTCCT CCA	60.4	553	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4035364	Ca4	4035364	AT/A	TTTTCTATTAAGGCGC CCT	GTAACCTTGCACGCT CCAT	60.1	772	INTERGENIC	--	--	--
Ca4_P2_4035909	Ca4	4035909	TTATATATA/TTATA	GCGCAAAATTGGAGAG AGAG	TTTGTGCTTTTGCGT TTG	59.9	192	INTERGENIC	--	--	--
Ca4_P2_4036494	Ca4	4036494	TAAAAAA/TAAAAAAA	TGTTCTTTGGCCCTCTT TTG	GAAAGTTGTCAGACGG AGGTTT	60.2	781	INTERGENIC	--	--	--
Ca4_P2_4039327	Ca4	4039327	TACTC/T	TTTTGGTTTGGTAATTG TGGG	TGATGGAGAAATCCTC ACCC	59.9	456	INTERGENIC	--	--	--
Ca4_P2_4039648	Ca4	4039648	ACC/AC	TGCAATTACACGAGGG TTCA	AAATTCAAAACCGGTC TGC	59.1	244	INTERGENIC	--	--	--
Ca4_P2_4040664	Ca4	4040664	TTCTC/TTC	CATCTGCGACCCCTTAA CTT	TCAAAAATTTCAACCAA AACCC	60.1	392	INTERGENIC	--	--	--
Ca4_P2_4041328	Ca4	4041328	AAAAA/AAAAAAAAAATTTAAAA	GGGTTTTGGTTGAAATT TTTG	TAATGACGACCAGCGA ATGA	60.2	540	INTERGENIC	--	--	--
Ca4_P2_4041384	Ca4	4041384	A/AC	GGGTTTTGGTTGAAATT TTTG	TAATGACGACCAGCGA ATGA	60.2	540	INTERGENIC	--	--	--
Ca4_P2_4041545	Ca4	4041545	CTCTTCTT/CTCTT	TCATTGCTGGTCGTCA TTA	AACATGTGACCAAGG ACACT	59.3	387	INTERGENIC	--	--	--
Ca4_P2_4044991	Ca4	4044991	A/AATTGGATC	GGGTGCATTTGTTGGA ACTT	TTGGTACGTGTAGAAC ATCGTG	58.6	676	INTERGENIC	--	--	--
Ca4_P2_4045724	Ca4	4045724	ATTTTTTTTT/ATTTTTTTT	TGTTGGGTTTGTTCCT CCT	GCTTGATAATTTAAGG GCACCA	60.3	515	INTERGENIC	--	--	--
Ca4_P2_40460426	Ca4	40460426	ATTTTTTTTTT/ATTTTTTTTTTTT	CAGCGCTTGTAAACTC AGAA	AGCCAGGTTGTTTCTA GCG	59.5	328	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4046386	Ca4	4046386	ATTTTTTTTT/ATTTTTTTTT	TGGTGCCCTTAAATTAT CAAGC	GGGGGTGTTTGGTTTT ACTC	58.3	660	INTERGENIC	--	--	--
Ca4_P2_4047680	Ca4	4047680	ACCCCC/ACCCCCC	TTTGTGCTTGTGGTGAT GGT	GCAACCAATTGTGTTT GTGC	60.0	465	INTRON	Ca_03848	--	bHLH
Ca4_P2_40480392	Ca4	40480392	CTTT/CTTTGCATCTTTT	CGCACCTCTATCCTCA GACC	GAGAGGGTGGCAATGG ATTA	59.9	580	INTRON	Ca_14877	I	--
Ca4_P2_40485498	Ca4	40485498	GAAAAAAA/GAAAAAAA	TTGGCTCCATCAATTGA ACA	GGTCCCTTGAGCACAT TAGC	59.7	625	INTERGENIC	--	--	--
Ca4_P2_40494345	Ca4	40494345	CTTTTTTTT/CTTTTTTTT	CGAAATGATCTTATAAA AATGGACAA	GCAATGCTCTCCAAAG AATCA	60.3	451	INTERGENIC	--	--	--
Ca4_P2_40494662	Ca4	40494662	TAAAAAAA/TAAAAAAA	GCAGATTGCTTGATTCT TTGG	AGAGAGGGGGAGAGA GATGG	59.8	312	INTERGENIC	--	--	--
Ca4_P2_40497979	Ca4	40497979	TATTGTGATTGTGATTGTGATT/TATTGT GATTGTGATT	CCACCAAAACATCATCAC AGC	TTGCATTGAGTTGGA TTTTT	59.6	403	DRR	Ca_14875	--	--
Ca4_P2_40498066	Ca4	40498066	AACATAACTAAATATTACA/AACATAACT AAATATTACATAACTAAATATTACA	CCACCAAAACATCATCAC AGC	TTGCATTGAGTTGGA TTTTT	59.6	403	DRR	Ca_14875	--	--
Ca4_P2_40498490	Ca4	40498490	CTTTTT/CTTTT	AAAAATCCAACCTGAAT GCAA	CCATGTCCCCATTTTT CTA	59.6	442	DRR	Ca_14875	--	--
Ca4_P2_40498650	Ca4	40498650	AAT/A	TCATTTGAAACATGGAC CACA	GCTTGACAATCATGGG GTTT	59.8	262	DRR	Ca_14875	--	--
Ca4_P2_40501876	Ca4	40501876	ATTTTTTTTT/ATTTTTTTTT	ACCCATGGTACTTGGT CCAC	CATGAGTTATTGATGGT GCGA	59.6	353	INTERGENIC	--	--	--
Ca4_P2_40505340	Ca4	40505340	A/AC	CGATGGTTAAGGGGAT GCTA	TGAAAGCCCAACACA ATGA	60.1	591	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_40506424	Ca4	40506424	TTTCTT/TTT	GGATCACAACCATAAC CCG	TTCAACAACTTTCTGG CCTC	59.3	453	INTERGENIC	--	--	--
Ca4_P2_40508840	Ca4	40508840	GAAAAAAAA/GAAAAAAAAA	GGGGAAGAAAGGA AGGA	GTGGCTGCAAGCTA AAGG	60.0	294	DRR	Ca_14874	--	--
Ca4_P2_40508933	Ca4	40508933	AAAATAAATAAATAA/AAAATAAAT AAATAAATAAATAA	GGGGAAGAAAGGA AGGA	GTGGCTGCAAGCTA AAGG	60.0	294	DRR	Ca_14874	--	--
Ca4_P2_40510929	Ca4	40510929	T/TATTA	TTTGCTTTGTGTGTC TGC	GTACGAGCAGTCGAC TTCA	60.1	816	INTRON	Ca_14874	--	--
Ca4_P2_40513310	Ca4	40513310	TAAA/TAAA	TCAACCCCAACAA CAA	AGATTGGCTGGTTATG GACG	60.0	598	INTRON	Ca_14874	--	--
Ca4_P2_40514871	Ca4	40514871	AATA/AA	GGAGAACCAGCTTCCT CCTT	CGCTCTGCTCCTTTC ACT	59.8	278	INTERGENIC	--	--	--
Ca4_P2_40517490	Ca4	40517490	TA/TAA	TTGCTTGTCGTGACG TAAG	AAAAACGACGCGATAT GGTT	59.5	529	INTERGENIC	--	--	--
Ca4_P2_40521264	Ca4	40521264	TTACTACTA/TTACTA	AGATGCGACACAATTCC ACA	CATTAAATTTCAAAGA TTTGCG	59.1	162	INTERGENIC	--	--	--
Ca4_P2_40521734	Ca4	40521734	ATTTTTTTTTT/ATTTTTTTTTT	TCATCGGACAACCTTG TATG	CGGCTCATCTCAATCC TTGT	60.2	655	INTERGENIC	--	--	--
Ca4_P2_40522888	Ca4	40522888	AAATATATATA/AAATATATATTTTA GAATATATATA	GATGGTTGGTTGATT TGG	CGACAATTTGGTCTCT CCA	58.7	946	INTERGENIC	--	--	--
Ca4_P2_40526118	Ca4	40526118	A/AC	CACGGAATTGATCCCC TTATT	CCATGTCTTTAACTTCA TGCAAA	59.2	520	INTERGENIC	--	--	--
Ca4_P2_4052624	Ca4	4052624	GAAAAAAAA/GAAAAAAAA	CAGGCTGCATCTTTGT GTTG	GAGGGAAGGAGAGC CAAGT	59.8	374	DRR	Ca_03848	--	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_40527713	Ca4	40527713	GATTTAAATATATTTAAATATATTTAAAT A/GATTTAAATATATTTAAATA	ACGGCAAATTCAAACA CAA	AAATATTTATATGAGTC GTACCGAGTT	57.2	308	INTERGENIC	--	--	--
Ca4_P2_40528670	Ca4	40528670	GTTTTTTTT/GTTTTTTTT	AAATGCAACAGGAAGAT GCC	TGGACTTGAAGAGAA ACGG	60.2	558	INTERGENIC	--	--	--
Ca4_P2_40529406	Ca4	40529406	CTTTTTTTTT/CTTTTTTTTT	CCGTTTCTCTTCCAAGT CCA	CGCTAAGCACCAGTTT CCTC	60.0	608	INTERGENIC	--	--	--
Ca4_P2_40534591	Ca4	40534591	TGG/TGGG	TAGGAGACTGCTTCG CAAT	GGTGCTCTTGACAGCA CAAA	60.0	109	DRR	Ca_14873	--	--
Ca4_P2_40546225	Ca4	40546225	TAAAA/TAAAAA	GGCATTTTCTTTTGGTG CAT	TGTCTCTGCTGATTG CCAC	60.0	336	INTERGENIC	--	--	--
Ca4_P2_40550374	Ca4	40550374	GTTCT/GTTCTATTCT	ACCCTGAGTGAGGGAG GATT	GTGCACTGAGGTAGGC AACA	59.9	294	INTRON	Ca_14870	--	--
Ca4_P2_40557571	Ca4	40557571	CTTTTT/CTTTT	CTTGTGCGAACACAAT GGAC	ACATTTACGGGCAAAA ACGA	60.4	898	DRR	Ca_14870	--	--
Ca4_P2_40560588	Ca4	40560588	TAAAAA/TAAAAAA	TCATTCTCCGATCTTC CAC	TTTCTGTGGACTCAGC CATC	59.8	636	INTERGENIC	--	--	--
Ca4_P2_40561270	Ca4	40561270	TTTCAA/T	ACTGATGCGTGAGTCC ACAG	GGATGTTGGCTCCCAA GTTA	59.9	785	INTERGENIC	--	--	--
Ca4_P2_40561558	Ca4	40561558	ATGCAAAATT/ATGCAAAATTGTCAAA ATT	AATTGGGTAACCCTTG GAGC	ACGCGTGGAATTTATTA GCG	60.1	768	INTERGENIC	--	--	--
Ca4_P2_4056899	Ca4	4056899	CAAAAA/CAAAA	TTCGGGAATGAGTGAA AACA	ATCTTCAGCCTTGCTTG CAT	60.0	688	INTERGENIC	--	--	--
Ca4_P2_40571626	Ca4	40571626	C/CCTA	CACTCATCATAGCCCC TGT	AGATGCACGACAATGC TTCA	60.4	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_40571712	Ca4	40571712	T/TG	CACTCATCATAGCCCC TGT	AGATGCACGACAATGC TTCA	60.4	711	INTERGENIC	--	--	--
Ca4_P2_40571787	Ca4	40571787	CAAAAAAAAA/CAAAAAAAAA	CTTGGTCAAAGGCATG GAAT	GTCACCTCGCTCGATCC ATTT	60.2	907	INTERGENIC	--	--	--
Ca4_P2_40573928	Ca4	40573928	CAAAA/CAA	TTCGTGGAATATCACAA AAGTTC	TGGACAAAAACTCATCT GCATT	59.6	895	INTERGENIC	--	--	--
Ca4_P2_40574863	Ca4	40574863	A/AC	TGCAGATGAGTTTTTGT CCA	AAAATTAAGACAAAAGG AAGTTCAACA	59.9	658	INTERGENIC	--	--	--
Ca4_P2_40575649	Ca4	40575649	ATTTTT/ATTTTT	TTTCTCATTTTCATGAC TCCTATCA	TCACCAGTGACACGTT CGAT	60.2	375	INTERGENIC	--	--	--
Ca4_P2_40576705	Ca4	40576705	A/ATT	AAATTCTCTCCCTTTCC TTGC	TTTCATCTTCCATAGCC TCG	57.9	447	INTERGENIC	--	--	--
Ca4_P2_40578315	Ca4	40578315	GAAT/GGTCAAT	GCAGGTCTTTTTGGTG GAAA	AACCCCTCATCTTTCGC CTT	60.1	608	CDS (large-effect mutations)	Ca_14868	K	--
Ca4_P2_40593121	Ca4	40593121	CAAGT/CAAGTAAGT	CATTCCCACCATCCTTC ACT	GGCCTATCGAACCACA CAGT	60.0	932	INTRON	Ca_14867	R	BES1
Ca4_P2_40593400	Ca4	40593400	GTT/GTTTT	AAGGATTGCTTGCTGA TGC	GGCCTATCGAACCACA CAGT	60.0	276	INTRON	Ca_14867	R	BES1
Ca4_P2_40598175	Ca4	40598175	C/CTTATGCAACGG	AGTAAGGCGGAGAATG CGTA	CGCATAATGCCTATTG CTCA	59.8	559	INTRON	Ca_14866	--	NAC
Ca4_P2_40598412	Ca4	40598412	GTATAT/GTAT	AGTGGATTGCGAAAGT GGAG	ACCATGTCCATGCACG ATAA	59.8	326	INTRON	Ca_14866	--	NAC
Ca4_P2_40613144	Ca4	40613144	TATAATAATAATAATAA/TATAATAA AATAATAATAATAATAATAATAA	AAGTCTGGCCTACGGC CTAT	TGTCCGTTAGGGGTCT ATGG	59.8	540	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_40614742	Ca4	40614742	CATATATATATATATA/CATATATATATA TA	GAGCCCAACGATGTTCA AAAT	CTGCCTTGGACCTAGT ATCG	57.5	179	INTERGENIC	--	--	--
Ca4_P2_40614968	Ca4	40614968	ATTTTTTTT/ATTTTTTT	GAGCCCAACGATGTTCA AAAT	TGAACCCACACGAT TATT	60.2	793	INTERGENIC	--	--	--
Ca4_P2_40615032	Ca4	40615032	TAA/TA	GAGCCCAACGATGTTCA AAAT	TGAACCCACACGAT TATT	60.2	793	INTERGENIC	--	--	--
Ca4_P2_40620475	Ca4	40620475	A/AT	TATGTGAAATTGCCACCG GAA	ACCTCATCGAGCCATT GATT	59.5	509	INTERGENIC	--	--	--
Ca4_P2_40621809	Ca4	40621809	AAGA/AA	TCTTTTGCACGGAGAAT CAA	TTCCCGTGACGTGTGT ATGT	59.9	320	INTERGENIC	--	--	--
Ca4_P2_40622124	Ca4	40622124	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	ACATACACACGTCACG GGAA	TTTGCAATGAGATTTC CTAAAGA	59.3	391	INTERGENIC	--	--	--
Ca4_P2_40624782	Ca4	40624782	TAAAAA/TAAAA	TCAAAGAATGGAGCAAG TTGT	GGGGGCATTAGAAGG AAAT	59.3	841	INTERGENIC	--	--	--
Ca4_P2_40626965	Ca4	40626965	TAA/TAAA	GACGTGCTCACTGAAAG GGGT	CATCGAGGCCATTAT GATT	59.7	687	INTERGENIC	--	--	--
Ca4_P2_40631353	Ca4	40631353	TAAAAA/TAAAAA	CCCAACATTAATTGTC ATTGC	GCACATCGTTTCAAAG CTCA	60.0	396	INTERGENIC	--	--	--
Ca4_P2_40631441	Ca4	40631441	TAAAAA/TAAAAA	CCCAACATTAATTGTC ATTGC	GCACATCGTTTCAAAG CTCA	60.0	396	INTERGENIC	--	--	--
Ca4_P2_40639895	Ca4	40639895	CAAAA/CAAAAA	CAACGCTATTACCCAC CCA	TCCTATGGAACCA AAGC	59.9	200	INTERGENIC	--	--	--
Ca4_P2_4064097	Ca4	4064097	ATTTTTTTT/ATTTTTTTTTT	CATTCTGCATGGCTTT GAA	TGAGGGGAGAAATCAC AAAA	60.4	269	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_40649020	Ca4	40649020	ATTTTT/ATTTTTTTT	TGTGATTATCCGGTACC ACAAC	TGTATTCAGGACCTCG CAGA	59.4	207	INTERGENIC	--	--	--
Ca4_P2_40700663	Ca4	40700663	TAA/TAAA	TGGAGCACTGCCATTG TAT	TGAAACAAAACGTTACA TCAAGAGA	60.1	665	INTERGENIC	--	--	--
Ca4_P2_40700886	Ca4	40700886	AGAC/A	TCTTGATGTAACGTTT GTTTCAGA	TGAATATTTGAGTTACG AATTTGATGA	60.1	478	INTERGENIC	--	--	--
Ca4_P2_40702737	Ca4	40702737	ACTCT/ACT	CCCCCATATAAAATTG TGC	AAGATTAGTGGGCGAC CCTT	60.0	392	INTERGENIC	--	--	--
Ca4_P2_40703571	Ca4	40703571	CA/CAAA	TGGTTGCTGAGTTTCTT CCC	GCAGTGGAGATCCAAG GGTA	60.1	437	INTERGENIC	--	--	--
Ca4_P2_40704105	Ca4	40704105	ATTTTT/ATTTTT	GGATCTCCACTGCCAG GTTA	TTTCGTTTCCCATTCTA CGC	60.1	648	INTERGENIC	--	--	--
Ca4_P2_40704362	Ca4	40704362	TA/T	GCGTAGAATGGGAAAC GAAA	GAATGCAGTTAGCAG AGCA	60.2	230	INTERGENIC	--	--	--
Ca4_P2_40719941	Ca4	40719941	CTTTTTTTTT/CTTTTTTTTT	TCCTCCCTTTTGTTCG TGC	TCGTCATACCCACAC TCAT	60.0	410	INTRON	Ca_23911	BK	FAR1
Ca4_P2_40720882	Ca4	40720882	CTTTTT/CTTTTTTT	TCATCAATGGGAACCTC ACA	TGATGACTGTCAAAGA GCCG	60.0	143	DRR	Ca_23910	S	C2H2
Ca4_P2_40721323	Ca4	40721323	AT/ATT	CGGCTCTTTGACAGTC ATCA	AAATGTCAACCCACTG CACA	60.0	617	DRR	Ca_23911	BK	FAR1
Ca4_P2_40726046	Ca4	40726046	GAAA/GAAAA	CAACTAATGACCGTGC CCTT	TGTAATGGGATTGTT GCCT	60.4	454	INTRON	Ca_23910	S	C2H2
Ca4_P2_40727861	Ca4	40727861	CAAAAAAAAA/CAAAAAAAAA	AGCATACATTGGCACCA CAA	TTCTTCTTGCCTTCTC CGA	60.1	375	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_40728044	Ca4	40728044	TATTTGTAATT/TATTTGTAATTTGAAT T	AGCATACATTGGCACCA CAA	CATGCATTTTCATGGTAA CCG	59.8	502	INTERGENIC	--	--	--
Ca4_P2_40729597	Ca4	40729597	T/TG	TTGTGAAATTGAAAAGG TTCCA	CAACCATGTGTGAGGT CCAT	59.2	817	INTERGENIC	--	--	--
Ca4_P2_40730301	Ca4	40730301	GTTTTTT/GTTTTTTT	GGTGTTTGCGGTTGA TATT	CGTCTTCCACCTTATCC ATGA	59.9	561	INTERGENIC	--	--	--
Ca4_P2_40735188	Ca4	40735188	CTTTTAAAT/CTTTTAAATCTTTTAA AT	TGCACATCTTTCTGGT CTC	GCTTCCAATTCGATCTT CCA	60.2	802	DRR	Ca_23909	--	--
Ca4_P2_40738290	Ca4	40738290	TAA/TTTTTAATATAAACAA	TTTACCCGAGCCAATTT CAG	GGGTTTGAGAGGTGAA GTGTG	59.6	854	DRR	Ca_23908	R	NAC
Ca4_P2_40743684	Ca4	40743684	A/AC	GAATTTTGTGTGTTGCG GTG	GCGGTGTTTTTCAACA CATTT	59.9	527	INTERGENIC	--	--	--
Ca4_P2_40743968	Ca4	40743968	A/AAAC	TGTTGAAAAACACCGCA AGA	GCAATGAAGTGTGTGC CAAT	59.6	575	INTERGENIC	--	--	--
Ca4_P2_40745794	Ca4	40745794	TGATAGATAGATAGATAGAT/TGATAGA TAGAT	TGCTGGTGATATTGCT GCTC	CCCAACAACACAAATG CAAG	60.0	215	INTRON	Ca_23907	R	--
Ca4_P2_40753160	Ca4	40753160	TGG/TG	TAGTGAGGTGGGAAGG GATG	CCGACGGAGATGATGA ATTT	59.9	804	INTERGENIC	--	--	--
Ca4_P2_40753856	Ca4	40753856	GTATATATATATA/GTATATATA	TTACGATATTGCCGCAA CTG	GCCCTTTCTTTCAGGC TTCT	60.0	444	INTRON	Ca_23905	J	--
Ca4_P2_40761334	Ca4	40761334	A/ATATAT	GAACTTTGTATTGCAT TCGTTTT	TGGATACACCGTCCAA AGTG	59.4	714	INTERGENIC	--	--	--
Ca4_P2_40765533	Ca4	40765533	TAAA/TAA	AATGAAATGAAGGCG GTGA	CAAATGTCGTTGTCGC ATCT	59.7	241	DRR	Ca_23904	Q	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_40765588	Ca4	40765588	T/TCA	AATGAAAATGAAGCG GTGA	CAAATGTCGTTGTCG ATCT	59.7	241	DRR	Ca_23904	Q	--
Ca4_P2_40765765	Ca4	40765765	CGG/CGG	AGATGCGACAACGACA TTTG	TATGACGTTTGGGTG GATT	60.1	480	DRR	Ca_23904	Q	--
Ca4_P2_40767434	Ca4	40767434	GTTTT/GTTTT	CCAAGAAGTCCACGTT GGT	AGGTACGTCAGGCAT CAAG	60.1	644	INTRON	Ca_23904	Q	--
Ca4_P2_40767767	Ca4	40767767	ACC/AC	CAAATCCACTGTTTG CGTT	TTCCAGCATGATGTGT TTCA	60.1	227	INTRON	Ca_23904	Q	--
Ca4_P2_40767801	Ca4	40767801	ACATCAT/ACATCATCAT	TGGCATCAAAATCTCT GTCC	AATCACCTCATTGCGAA AAA	58.2	334	INTRON	Ca_23904	Q	--
Ca4_P2_40769439	Ca4	40769439	CAAAAA/CAAAAAA	TGCTACGCATGCTTGA GAAC	GCCTTGTTGGGTTTCAT TTTG	60.3	385	INTRON	Ca_23904	Q	--
Ca4_P2_40773283	Ca4	40773283	ATTTTTTTT/ATTTTTTTT	GTCTCTCCCCCTATCTG CCT	CAAAATATCGAGGGAG CGAA	60.2	467	INTERGENIC	--	--	--
Ca4_P2_40773929	Ca4	40773929	TTAT/TTATAT	GTGTGCACCATAGGGA AGGT	ATCCTTGACATCCCAA AAA	60.3	405	INTERGENIC	--	--	--
Ca4_P2_40776431	Ca4	40776431	CTTTTTTTT/CTTTTTTT	AATGAAGTGTCTTAGGC GGG	GTTTGTTTCGTCCAC CAAT	59.7	579	INTERGENIC	--	--	--
Ca4_P2_40777612	Ca4	40777612	ATTTTTTTT/ATTTTTTTT	TAAGGTCCAAATCCAG GCA	GCTTAAGCTTTCATTC AAAAGA	59.1	408	INTERGENIC	--	--	--
Ca4_P2_40777790	Ca4	40777790	AAAGCTTAAGCTTAAGCT/AAAGCTTAA GCT	TAAGGTCCAAATCCAG GCA	CATAAAATGTTGCATGC GGT	59.4	791	INTERGENIC	--	--	--
Ca4_P2_40778747	Ca4	40778747	T/TA	GGGAGTTTGAGAGA AGGG	AATAAGCAACAGCCC CAAT	58.6	776	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4077884	Ca4	4077884	TTA/T	ATTAAAGTGGGGCCA AATC	CCCCTTCCACAAAAG TGAA	59.9	908	INTERGENIC	--	--	--
Ca4_P2_40779454	Ca4	40779454	A/AG	TTAATTGGGGCTGTG CTTT	TTTGGTCCAATGCTGA CAGA	60.2	585	INTERGENIC	--	--	--
Ca4_P2_4078034	Ca4	4078034	CA/CAGTA	AGCACGTGTGGAAGAC ATTG	CCCCTTCCACAAAAG TGAA	59.9	654	INTERGENIC	--	--	--
Ca4_P2_40784080	Ca4	40784080	CAAAAAAAAA/CAAAAAAAAA	AAGCACTTTTCAATTCA CCCA	AATGATGCCTCCATGC TTTC	60.0	199	INTERGENIC	--	--	--
Ca4_P2_40788340	Ca4	40788340	ATTTTTTTTT/ATTTTTTTTT	GCATCGGAGCATGAAA TGTA	TTCCGACACGATGAAG ACTAA	59.5	167	INTERGENIC	--	--	--
Ca4_P2_40790018	Ca4	40790018	A/AT	GCCCATTTGTCTTTG TTGA	TCATTGTCCAGTGAAG GCAA	60.2	667	INTERGENIC	--	--	--
Ca4_P2_40790090	Ca4	40790090	GAAAAAAAA/GAAAAAAAA	GCCCATTTGTCTTTG TTGA	TCATTGTCCAGTGAAG GCAA	60.2	667	INTERGENIC	--	--	--
Ca4_P2_40792698	Ca4	40792698	TAAAAA/TAAAAA	TCAAATGCCAAATCCA TCA	GTCAAGCAAAATCCCA CGAT	59.9	532	INTRON	Ca_23903	--	--
Ca4_P2_40797298	Ca4	40797298	GA/G	TTCGTTCACTCACTCA TTTTG	TAAGGGAGGATGATTG GCAG	60.0	619	INTERGENIC	--	--	--
Ca4_P2_40797521	Ca4	40797521	ATT/AT	CAAGTCCCCAAACAT CACT	ATGGACCATCGATTCT GGAG	59.9	610	INTERGENIC	--	--	--
Ca4_P2_40799151	Ca4	40799151	TTAGCATA/TTA	CCAGCAATCTAATGAAC GCA	ATGTCACCAATGGGGT TTGT	60.0	323	DRR	Ca_23902	R	--
Ca4_P2_40799742	Ca4	40799742	TCCCCC/TCCCCC	ACAAACCCCATTTGGTGA CAT	TGGCTTGTAAGGCTGT GTTG	59.9	740	DRR	Ca_23902	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_40801294	Ca4	40801294	AAAA/AAATACCAGTAAA	AGCTTGCCTCTGAGCT CTTG	TTTATGGCATGGGACC AAAT	60.0	736	INTRON	Ca_23902	R	--
Ca4_P2_40802030	Ca4	40802030	A/AC	CATGAAGCCAAGAAGC AACA	TTGACACCTGTCACAC ATGC	59.1	518	INTRON	Ca_23902	R	--
Ca4_P2_40802414	Ca4	40802414	AATAT/AATATAT	TGACAGGTGTCAAGTT GTTGG	CGCAGTGGACTTCAAA ATGA	59.8	748	INTRON	Ca_23902	R	--
Ca4_P2_40804983	Ca4	40804983	C/CAT	CCAAATCAACACCAATT CCC	ACTTGAAGCCGAAGGG TTTT	60.1	524	INTRON	Ca_23902	R	--
Ca4_P2_40805123	Ca4	40805123	AT/A	CCAAATCAACACCAATT CCC	ACTTGAAGCCGAAGGG TTTT	60.1	524	INTRON	Ca_23902	R	--
Ca4_P2_40808504	Ca4	40808504	TAAA/TA	CGGGAAGGATCCTGAC ACTA	GGGCAATGGTCTTTC TCTG	59.7	257	INTRON	Ca_23902	R	--
Ca4_P2_40809750	Ca4	40809750	A/AC	TGCAAGAACAATCCTT CCC	GCAGCTTTTGGCAGTT CTCT	59.8	278	INTRON	Ca_23902	R	--
Ca4_P2_40810384	Ca4	40810384	G/GAAAAAA	AAAAACGGCAGTAAAG CCA	GGGACGAGGTACATGC AGAT	60.0	298	INTRON	Ca_23902	R	--
Ca4_P2_40818336	Ca4	40818336	AA/AACA	GTTTGCGGTTATTGCTG GTT	GTTACTTGTGGGGCTG GAAA	60.0	637	INTRON	Ca_23900	R	--
Ca4_P2_4082565	Ca4	4082565	ATTT/ATT	TTGTTTCTCCCCAGTT TTG	TTTCGTCCCGAATTTC ATC	60.1	352	INTERGENIC	--	--	--
Ca4_P2_4082985	Ca4	4082985	TTTTTT/TTTTTTTAATAAATTTTT	TGAAAGTTCGGGACGA AATC	CAGAAAAGTGAAAAGC TGAGAAAA	59.3	519	INTERGENIC	--	--	--
Ca4_P2_40836419	Ca4	40836419	TAAAAAAA/TAAAAAAA	GTGTCGGTCACGACAT TCAG	AGATTGAAAAGTTGCA CCCG	60.1	714	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_40837444	Ca4	40837444	TAAAAAAA/TAAAAAAA	GGAAGCAGATGGAAA GGAA	TCAACTTTGAGGACCC AACA	59.1	494	INTERGENIC	--	--	--
Ca4_P2_40842793	Ca4	40842793	TC/T	CTGGATTGAGTTGAG CCAT	TGGACCAACCAAGCA CATA	60.0	568	INTERGENIC	--	--	--
Ca4_P2_40844159	Ca4	40844159	TAAAAA/TAAAAA	AACATTAATGCAACAG CCA	GACTTCCTCCCTTAC AGAGAA	59.8	199	INTERGENIC	--	--	--
Ca4_P2_40845661	Ca4	40845661	GTATATAT/GTAT	TGTGCCTCCTTAATT GCC	GAAGGTTTGCTAAGC TCCA	59.5	542	INTERGENIC	--	--	--
Ca4_P2_40850995	Ca4	40850995	GAAA/GAA	CAATCACCATTGAGCAT TCG	AAGGGCATGTCCAAG ACAC	60.0	451	INTRON	Ca_23897	--	--
Ca4_P2_4086337	Ca4	4086337	TAAAAAAA/TAAAAA	GGGGCGTGTCAAAGTT AAAA	ACCATCCGTATAAAGC ACGC	60.0	453	INTERGENIC	--	--	--
Ca4_P2_40880718	Ca4	40880718	ATTTTTTT/ATTTTTTT	CTTTGGGAACCAAGCA CAAT	TTTCACCAATGTGGG TCITT	59.3	851	INTERGENIC	--	--	--
Ca4_P2_40881754	Ca4	40881754	CTTTTTTT/CTTTTTTT	ACAAATCTGAGCCATG GGAG	GGTTGATAAATGAGCA AGCCA	60.1	125	INTRON	Ca_11021	--	NAC
Ca4_P2_40887046	Ca4	40887046	GTTTTTTT/GTTTTTTT	TGAATCCAATCCATCCA ACA	AAAGAGCTAGCAATGG CGAC	59.6	426	INTERGENIC	--	--	--
Ca4_P2_40887107	Ca4	40887107	GAAAAAAA/GAAAAAAA	TGAATCCAATCCATCCA ACA	ACTATCGACCAATGCTC CCAC	60.0	705	INTERGENIC	--	--	--
Ca4_P2_40891579	Ca4	40891579	AATATATA/AATA	GCACAAAAGCAGTGTA GCCA	CCCGAACCTCTCCACA ATAA	59.9	869	INTRON	Ca_11020	R	G2-like
Ca4_P2_40891712	Ca4	40891712	TCC/TC	ATCGAATCCTCGTTGGA ATG	CCCGAACCTCTCCACA ATAA	59.9	725	INTRON	Ca_11020	R	G2-like

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_40893398	Ca4	40893398	TA/TAA	TGAACTCGGCTAGGAG GAAA	CGCAAGTGTGGACAA TGAT	59.6	703	DRR	Ca_11020	R	G2-like
Ca4_P2_40901024	Ca4	40901024	GAAAAAA/GAAAAAAA	GCGTCATACGAACTT GTTAGTG	TTAGGAGGTCGCATCT TCGT	59.8	671	INTERGENIC	--	--	--
Ca4_P2_40901246	Ca4	40901246	AAA/AAATAA	GGGTATATTAATTTAAC AACTCCCTCC	TTAGGAGGTCGCATCT TCGT	59.8	462	INTERGENIC	--	--	--
Ca4_P2_40901320	Ca4	40901320	GAA/G	GGTCCGAGATACAACC TGCT	TCAATGAAAAACATGGT GCC	59.4	480	INTERGENIC	--	--	--
Ca4_P2_40901411	Ca4	40901411	TTAT/TT	ACGAAGATGCGACCTC CTAA	AACACAAAGGAAAGCG GAAA	59.7	561	INTERGENIC	--	--	--
Ca4_P2_40901662	Ca4	40901662	TAAA/TAA	ACGAAGATGCGACCTC CTAA	AACACAAAGGAAAGCG GAAA	59.7	561	INTERGENIC	--	--	--
Ca4_P2_40904722	Ca4	40904722	ATTAAT/ATTAATCAATTTAAT	AAAGGCAACCGACTAG GGTT	GTACGCGAAGTAGGAA ACGC	59.9	832	INTERGENIC	--	--	--
Ca4_P2_40904946	Ca4	40904946	CTTTTT/CTTTTT	TCCATGCAGTTTGTCTG TGT	GTACGCGAAGTAGGAA ACGC	59.9	178	INTERGENIC	--	--	--
Ca4_P2_40905620	Ca4	40905620	TAAAAAA/TAAAAAAA	TTTCTACCTGTCTGTT GCC	TCCTCTTATCTTGCCA CCA	58.3	883	INTERGENIC	--	--	--
Ca4_P2_40907158	Ca4	40907158	TATACAT/TATACATAATACAT	TGTCGTTGAAATCAAG CAAT	ATCGTTTGGGTGAAGA ATCG	59.9	334	INTERGENIC	--	--	--
Ca4_P2_40909839	Ca4	40909839	GAAAAAAA/GAAAAAAA	TGCTGATGTTCTTCCTG CAC	TGTCCATTGAGCAGAG TTGC	60.0	665	INTRON	Ca_11019	R	--
Ca4_P2_40929080	Ca4	40929080	T/TC	ATGGTGGGGTAAGCA ATCT	AAGAAGCGCGTATTGG TGTT	59.8	813	INTRON	Ca_11015	--	bZIP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4092954	Ca4	4092954	TTTTCTTATTAATTT/TTTT	CATTTTGAAAAAGTTG CGG	TGCTTAAAGTGGAT GAACG	60.1	672	INTERGENIC	--	--	--
Ca4_P2_40929606	Ca4	40929606	GAA/GA	TTTCTAACCAATACG CGCT	TCCTCTAAATTTTACC AACGATGA	60.2	492	INTRON	Ca_11015	--	bZIP
Ca4_P2_40931865	Ca4	40931865	TCCC/TCCC	TGCTTGAAAAACAAGCA ATTT	AACTCGTGGGAACGCA CTAC	60.2	779	INTRON	Ca_11015	--	bZIP
Ca4_P2_40936303	Ca4	40936303	CATA/CA	ACGAGTTGGATTGAA CGAC	CTTTGATGGCCAAATG TG TG	60.0	689	INTERGENIC	--	--	--
Ca4_P2_40936321	Ca4	40936321	GAA/GAAA	ACGAGTTGGATTGAA CGAC	CTTTGATGGCCAAATG TG TG	60.0	689	INTERGENIC	--	--	--
Ca4_P2_40937505	Ca4	40937505	GTTTTTTTT/GTTTTTTTTT	TAATCCGATGGCAACAT GAA	CGGTAGGAAATGATGA AACCA	59.8	615	INTERGENIC	--	--	--
Ca4_P2_40937848	Ca4	40937848	CAAA/CAA	AGTAGTTTTGGGCGAT CCCT	TTTGAAAGG GTGTCGT CGTT	60.5	762	INTERGENIC	--	--	--
Ca4_P2_40937873	Ca4	40937873	TAAA/TAAAA	GACCGAAGAAACATCAT GGC	TTTGAAAGG GTGTCGT CGTT	60.5	668	INTERGENIC	--	--	--
Ca4_P2_40949429	Ca4	40949429	TT/TTAT	CCATGTGCACCATAAAT TGC	CAGAATGTTCTTTCGG AATGG	59.6	612	INTRON	Ca_11013	--	--
Ca4_P2_40954099	Ca4	40954099	CAAAA/CAAA	CGTCAACTGACATATGC CAACA	TTTGACGGAACATGG TGAA	59.9	205	INTERGENIC	--	--	--
Ca4_P2_40954191	Ca4	40954191	CAAA/CAA	TTCACCATGTTCCGTC AAA	TGTTTCTCGAGTACGA AAGAATG	58.6	368	INTERGENIC	--	--	--
Ca4_P2_4095510	Ca4	4095510	CAT/CATAT	TCGCAATCTATGTAGCA CCG	AGTTGGCTCAGTAGGC TCCA	60.0	247	INTRON	Ca_03846	T	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4095551	Ca4	4095551	AGTGCTCTACGTGTCT/AGTGTCT	TCGCAATCTATGTAGCA CCG	AGTTGGCTCAGTAGGC TCCA	60.0	247	INTRON	Ca_03846	T	--
Ca4_P2_40955675	Ca4	40955675	GAAAAA/GAAAAA	AAACGCATTGTTTTGT TTGA	GGAAACTTCCAAGAGG AGGG	60.0	843	INTERGENIC	--	--	--
Ca4_P2_40957631	Ca4	40957631	CTAAAAATAAAAAATAAAAAATAAA AA/CTAAAAATAAAAAATAAAAAATAAA	CCGTGTTGGTTGTGT GTTT	GTCCATTTCATGGGT GGTC	60.0	322	INTERGENIC	--	--	--
Ca4_P2_40964102	Ca4	40964102	TT/TTCT	ATTTGGATAGGCCTGG CTTT	GCACTTTTGATACGG GAGC	59.7	622	INTERGENIC	--	--	--
Ca4_P2_40967580	Ca4	40967580	TAAAAAAAAA/TAAAAAAAAA	AATGAAAACTTGTTC GGC	GTTTGGAAATCGGGTAA CGAA	59.8	748	INTERGENIC	--	--	--
Ca4_P2_40968955	Ca4	40968955	TC/TCC	CACTGGAATGATTGCC AAAA	TTCTACCCAAGATCGG ATGG	59.9	398	INTERGENIC	--	--	--
Ca4_P2_40978550	Ca4	40978550	TC/TCATGTAGGGC	TTGGGTTTCCTATTTCG TCG	GCCAATCGATTACCCT CAAA	59.9	963	INTERGENIC	--	--	--
Ca4_P2_4099530	Ca4	4099530	AT/ATT	CGGTGAAGAACCCGC AAGA	TCTGGCCACTAGCACT GATG	60.0	427	DRR	Ca_03845	R	--
Ca4_P2_40996595	Ca4	40996595	GAAAAA/GAAAAA	CGGTGTTAAAAATTGG GGTG	AAACGTGGAGGTGATT TTGC	60.0	445	DRR	Ca_11010	--	--
Ca4_P2_40997097	Ca4	40997097	C/CT	GCAAAATCACCTCCAC GTTT	AACGGTCGTCTCCATT CATC	59.9	762	DRR	Ca_11010	--	--
Ca4_P2_41000217	Ca4	41000217	CAA/CAATTAA	TGGTTGTGTTTTCTCT CCA	GAACATGCAACGAGAC GAGA	60.0	206	INTERGENIC	--	--	--
Ca4_P2_41006722	Ca4	41006722	CTTA/CTTAATTA	GGGATCTTGAGGCATG ATGT	TTCACAATTTTGGTCCC CAT	60.0	661	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_41009997	Ca4	41009997	CT/CTT	ACGACTTGGAGACTGT TGGG	TGATCCGCATTGACCA ACTA	60.1	633	INTERGENIC	--	--	--
Ca4_P2_41012540	Ca4	41012540	TCA/T	TGCCAAAATTCTTCAAT TCAAAC	CCATTTGGGAATTATGA AGCA	59.8	587	DRR	Ca_11009	--	bHLH
Ca4_P2_41012598	Ca4	41012598	T/TA	CCCAATCATGCCTTATA TGC	ATTTGGGTTTCAACAAA CGG	59.7	539	DRR	Ca_11009	--	bHLH
Ca4_P2_41016384	Ca4	41016384	ATTTTTTT/ATTTTTTTT	AAACACGGGGCAACAT AAAG	TGTTGGTGGTGAACGA GGTA	60.0	631	INTERGENIC	--	--	--
Ca4_P2_4101732	Ca4	4101732	CTTT/CT	TCTATTGATCGACACAA CTACTTTTT	TGATTTCAAAGCCTTT CAGG	59.3	746	DRR	Ca_03844	--	--
Ca4_P2_41027713	Ca4	41027713	AATATATATATATATATATATATAT AT/AATATATATATATATATATATAT ATATATAT	TGAATCCCAAAATTGA ACCA	TTTGATCGCAAGGGTT TAGG	60.1	637	INTERGENIC	--	--	--
Ca4_P2_41029836	Ca4	41029836	AATATATATATATATA/AATATATATAT ATATA	TTTCTCTCCATCGACCC ATC	GAACCTTTGGGAAATC AGCA	60.1	760	INTERGENIC	--	--	--
Ca4_P2_4103051	Ca4	4103051	CA/CAAA	AACATGGCAATTGATTG AAGG	AGTCCAATTCTATTGC CTGC	60.3	496	DRR	Ca_03844	--	--
Ca4_P2_4104006	Ca4	4104006	ACCC/ACCCC	TGTGAATTTGTTGAGGT GGG	AATGTTCCAATTCGCCA GAT	59.4	223	DRR	Ca_03843	T	BBR-BPC
Ca4_P2_4104966	Ca4	4104966	AAAAATAA/AAAA	GAAGTGGGAATGGGCT GTTA	AAGTTAGGGGGACACA ACCC	60.1	677	DRR	Ca_03843	T	BBR-BPC
Ca4_P2_4104993	Ca4	4104993	TTATAT/TTAT	GAAGTGGGAATGGGCT GTTA	AAGTTAGGGGGACACA ACCC	60.1	677	DRR	Ca_03843	T	BBR-BPC
Ca4_P2_4107649	Ca4	4107649	CAAAAAAAAA/CAAAAAAAAA	CGAGGTAATGGTGCCA ACCT	TCTCACGTCGATCTCC ACAG	60.0	720	INTRON	Ca_03843	T	BBR-BPC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4109745	Ca4	4109745	GAGT/G	CAGGCTTTCGAAAGG ACAG	TCTCTTCCCAAGCTTC TCA	60.1	895	INTRON	Ca_03843	T	BBR-BPC
Ca4_P2_4111062	Ca4	4111062	GATAAATAAATAAAT/GATAAATAA ATAAAT	TTCCACATGGTCTCACC AAA	TTCCCCATGTTTGAATG GTT	60.0	608	INTRON	Ca_03843	T	BBR-BPC
Ca4_P2_4115857	Ca4	4115857	TAAAAAA/TAAAAAA	GGTGTGTGGGCTT GTCT	CCCCCTTTTGGTCGT ATCT	60.2	821	INTERGENIC	--	--	--
Ca4_P2_41159362	Ca4	41159362	ATTTTTTTTTT/ATTTTTTTTTT	ATGCTTGGACCACCAT CTC	CGTGTGAAACCTTTCG TGAA	59.9	891	INTERGENIC	--	--	--
Ca4_P2_4115988	Ca4	4115988	ATTTTT/ATTTTT	TGCAATATGAAGGTCCA CCC	CCCCCTTTTGGTCGT ATCT	60.2	665	INTERGENIC	--	--	--
Ca4_P2_4116283	Ca4	4116283	TATTAAG/TATTAAGGAGATTAAG	AGATACGACCAAAAAG GGGG	GCATGTTGAGATTATG GGGC	60.3	346	INTERGENIC	--	--	--
Ca4_P2_4116323	Ca4	4116323	AAGCTAGCT/AAGCTAGCTAGCT	AGATACGACCAAAAAG GGGG	GCATGTTGAGATTATG GGGC	60.3	346	INTERGENIC	--	--	--
Ca4_P2_4116752	Ca4	4116752	TA/TACA	ACATGTTGGAATCCG GGTA	TCGGCTACTCAAACAA AGGTG	60.3	516	INTERGENIC	--	--	--
Ca4_P2_4116866	Ca4	4116866	CCTTT/C	ACATGTTGGAATCCG GGTA	TCGGCTACTCAAACAA AGGTG	60.3	516	INTERGENIC	--	--	--
Ca4_P2_4117353	Ca4	4117353	TAAAAAA/TAAAAAA	CACCTTTGTTGAGTAG CCGA	GTGAACCTCCACACG AGTT	60.0	520	INTERGENIC	--	--	--
Ca4_P2_4118065	Ca4	4118065	CTTTTTTTTTT/CTTTTTTTTTT	AAAAGGAATTTGTGGCA ACG	TTTTGCAATCTATCGAG GGG	60.0	580	INTERGENIC	--	--	--
Ca4_P2_4121415	Ca4	4121415	ATT/AT	CTCATATGAACGGCCC ATCT	TGTTGTACGGACTCG ACCA	60.2	403	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4121591	Ca4	4121591	TA/T	CTCATATGAACGGCCC ATCT	CCTGTCACTCCTTGC GATT	60.3	733	INTERGENIC	--	--	--
Ca4_P2_4122100	Ca4	4122100	TAAAAAAA/TAAAAAAA	AATCGCAAAGGAGTGA CAGG	CACAACGACCGCATGA TTAC	60.0	255	INTERGENIC	--	--	--
Ca4_P2_4126315	Ca4	4126315	TAAG/T	GCTTTGATCCATTGCT CGT	TCAAGAAAAATATTGAG TGTCACG	58.4	883	INTERGENIC	--	--	--
Ca4_P2_41272417	Ca4	41272417	GATTATTATTATTATTATTATTATTA TT/GATTATTATTATTATTATTATTAT T	GGTTCACATGGAACCT CAACA	AGCCTTTTGCTTCCTTC CTC	60.0	737	INTERGENIC	--	--	--
Ca4_P2_41324242	Ca4	41324242	ATATTATTATTATTATTATTA/ATATTATT ATTATTATTA	TCCAATAAAAAGTCGTC GGC	TGCGGAGAGTCAAGAA AGGT	60.0	565	INTERGENIC	--	--	--
Ca4_P2_41368775	Ca4	41368775	AT/A	TGCTTGCATGTCTTGAA TTTG	CCCAATTGCGCTCATAA CAT	59.8	434	DRR	Ca_10971	P	GRAS
Ca4_P2_41434988	Ca4	41434988	ATTTTTTTTT/ATTTTTTTTT	CGGGTTTGAGGACTT ATGA	AAGCAAACATCGTTCC CCTA	59.6	586	INTERGENIC	--	--	--
Ca4_P2_41450081	Ca4	41450081	TTTCTTCTTCTTCTTCT/TTTCTTCTCT TCT	CAACTCTTCTGCGTCA TCA	CCTGGCTTCTATGGGA AACA	60.1	538	INTRON	Ca_10962	--	--
Ca4_P2_4158092	Ca4	4158092	ATTTTTTTTT/ATTTTTTTTT	CCTACATGTTGAGGG GCTA	CCATTATTCACGGGG CTTA	59.8	353	INTERGENIC	--	--	--
Ca4_P2_41581170	Ca4	41581170	GA/GATCA	ACAAAACTCCCAATGG TCG	TAGCCAACACACATG GAAA	60.0	737	INTERGENIC	--	--	--
Ca4_P2_4161162	Ca4	4161162	CATATATATATATATATATATATATAT ATATATA/CATATATATATATATATATA TATATATATATATATATATA	GGGCTCGAATAAAGTC ATGG	CCACCCCACATCTCT CTAC	59.4	525	INTERGENIC	--	--	--
Ca4_P2_41623470	Ca4	41623470	TT/TTATTATTTTAT	TTTTCTCATTGCATTG AGGG	AATTGCGATCAGAGATT GCC	60.2	437	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_41678485	Ca4	41678485	TAAAAAAAA/TAAAAAAAAA	AGATTGAGAAAATTTG CGTTT	TCACCAAAAGTCAG ATGC	59.7	688	DRR	Ca_10944	--	--
Ca4_P2_41713312	Ca4	41713312	TAAAA/TAAAAA	CCATCAAAACATGCATC CAC	CATGACAACACAACCA ACCA	58.8	748	INTERGENIC	--	--	--
Ca4_P2_41775907	Ca4	41775907	GTTTT/GTTTT	ACCTCCACAAGCCAATC AAC	TTGGAGTCTTATGCC CCAG	60.1	352	INTRON	Ca_10937	D	M-type
Ca4_P2_41810390	Ca4	41810390	GGCA/GGCATGCA	GCCACAAGCTATGTTCA CGA	GAGCTCGAAACAACAG CAAA	59.2	311	INTERGENIC	--	--	--
Ca4_P2_41815309	Ca4	41815309	GT/G	CCCCAACTTTGTCTTTT GGA	CGAAGAGGATTGCCTC AAAG	59.9	831	INTERGENIC	--	--	--
Ca4_P2_41818769	Ca4	41818769	ATTTTTTTTT/ATTTTTTTTT	AGTGGAGGGTGAATCA ATGG	AAGTGAATTCATCAG CACCA	59.6	539	INTERGENIC	--	--	--
Ca4_P2_41827147	Ca4	41827147	CTTGTTTGATTGTTT/CTTGTTTGATT GTTTGATTGTTT	CGGAGAGATGCATGTT CTTT	TCTATTGGACGAGCGT TTGA	59.4	633	INTERGENIC	--	--	--
Ca4_P2_41912274	Ca4	41912274	CATATAT/CATAT	CCATCTCATTCAAATGT TGCC	TGAGCTTTTAGGTGGC ACAA	59.5	823	INTERGENIC	--	--	--
Ca4_P2_4196538	Ca4	4196538	ATTTT/ATTT	ATTGGCCGAAATTGTA CTG	TAACCCAAGGCCATAT CCTG	59.8	841	DRR	Ca_03838	R	--
Ca4_P2_41995002	Ca4	41995002	ACCC/ACC	TTTCCAGGAATTGAATC CGG	CTGGAATAAATGCCCC AAGA	59.9	393	CDS (FRAME SHIFT)	Ca_10922	P	--
Ca4_P2_42078586	Ca4	42078586	AAGGCATGAAA/AGGCATGAAACACAG GCATGAAA	TCTTTTGAACACTCCCC CTG	CCAAAGGAAACCACGA CAAT	59.8	810	INTERGENIC	--	--	--
Ca4_P2_42083362	Ca4	42083362	CA/CAA	TTTCAAAGGTTTGCAAT GTGA	AAATTAACCGTATGGC CGA	59.3	327	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_42120439	Ca4	42120439	TAAAAAAAA/TAAAAAAAA	CACAAGCATTGGAGTC CCTT	AACTCGTGGGTTGGAT TTTG	59.8	495	INTRON	Ca_10910	--	C2H2
Ca4_P2_42120489	Ca4	42120489	TAAA/TAAA	CACAAGCATTGGAGTC CCTT	AACTCGTGGGTTGGAT TTTG	59.8	495	INTRON	Ca_10910	--	C2H2
Ca4_P2_42120574	Ca4	42120574	C/CG	CACAAGCATTGGAGTC CCTT	AACTCGTGGGTTGGAT TTTG	59.8	495	INTRON	Ca_10910	--	C2H2
Ca4_P2_42224113	Ca4	42224113	TAAAAAAAA/TAAAAAAAA	CCAAATCAAACGATT GCT	TGTCATCCAAACCGAA CAAA	59.9	679	INTERGENIC	--	--	--
Ca4_P2_42306240	Ca4	42306240	TC/T	ACGGGGTGTTACATTG TGGT	CATTCTAGCGTTGGC TCCT	60.0	283	INTERGENIC	--	--	--
Ca4_P2_42325357	Ca4	42325357	AATTATTATTATTATTATTATTATTA TTATTATTATTA/AATTATTATTATTATTA TTATTATTATTATTATTATTATTATT A	AATGATCGTCTTCGGAT TGG	CGTTGAATCTTGTGGG TTCA	59.5	478	INTERGENIC	--	--	--
Ca4_P2_42374619	Ca4	42374619	ATTTTTTTT/ATTTTTTTT	TTTGATGTGTTACGGC ACT	CGGCATGCATGATTAT TTTG	59.9	331	INTERGENIC	--	--	--
Ca4_P2_42407053	Ca4	42407053	GTTT/GTTT	GCATAAGGATCGGGGA AACT	AATGATCGTCTTCGGA TTGG	59.9	392	INTERGENIC	--	--	--
Ca4_P2_42504220	Ca4	42504220	TAAA/TAAACAAAA	TCGCTATCCCTTGAAT GAA	ACCATCATCATCTGCA CAA	59.9	401	INTRON	Ca_10898	--	WRKY
Ca4_P2_42520799	Ca4	42520799	CAAAAAAAAA/CAAAAAAAAA	TATGCTCATACGCCAC AAA	CTTGGGATTTCAGTTT TCCA	59.1	421	INTERGENIC	--	--	--
Ca4_P2_42534372	Ca4	42534372	GTTTTTTTT/GTTTTTTTT	TGGGGCAGTGCAATGT ATTA	CATCGGCAAGAGTTGG GTAT	60.0	574	INTERGENIC	--	--	--
Ca4_P2_42546801	Ca4	42546801	CAAAA/CAAAA	GTTTGGTCAATATTAAT TCCGC	CTAATATCATCGCCCT TCG	59.5	686	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_42548370	Ca4	42548370	ATTTTTTTTT/ATTTTTTTTT	CGTGCCCTTGTGCTCT CTTT	AGAGGCCCAATCCT TGCT	60.1	528	INTERGENIC	--	--	--
Ca4_P2_42561342	Ca4	42561342	AATAGAGATAGAGATAGAGATAGAGA/ ATAGAGATAGAGATAGAGA	CGGCAAAACAGAGACA ATCA	TCTCACGGTTGTGAGG ACTG	59.9	310	INTERGENIC	--	--	--
Ca4_P2_4263265	Ca4	4263265	CAAAAAAAAA/CAAAAAAAAA	GGAGGTTGAGTCTAAC GGCA	TTATGTGGGTACACAA GGTGAA	57.9	298	INTERGENIC	--	--	--
Ca4_P2_42633986	Ca4	42633986	TATAATAATAATAATAATAATAATAA TAATA/TATAATAATAATAATAATAAT AATAATAATAATAATA	TTGCTTTAGATGAATCA AATCCC	CGACAGGCTTAGGTTA GACCA	59.4	362	INTERGENIC	--	--	--
Ca4_P2_42693293	Ca4	42693293	TC/TCC	AAATGCTCGAACGAAAA TGC	TCGAAGTTGGATGCTT TTGA	59.4	503	INTERGENIC	--	--	--
Ca4_P2_42708736	Ca4	42708736	ATTTTTTTTT/ATTTTTTTTT	CATTTTCGCATCTACCT GCC	TCAGATGCAAAATGGGA TGAA	60.0	481	DRR	Ca_10890	R	--
Ca4_P2_42764871	Ca4	42764871	AC/ACC	ATTTCTCAAAAGCTTCG GCA	TCACAAGTGCCTCGTG TCTC	60.0	654	INTERGENIC	--	--	--
Ca4_P2_42822021	Ca4	42822021	T/TATGCAGGGAATCTGA	TTCTGCCGAGAGGAAG AGAG	GAGCACTCTTGTGGC CTTC	60.0	707	INTERGENIC	--	--	--
Ca4_P2_42845286	Ca4	42845286	ATT/AT	TTCTAGCTGGCTTTTCT CGC	CGATTGAACCAATTCC AGG	60.3	804	INTERGENIC	--	--	--
Ca4_P2_42945720	Ca4	42945720	CATATATATAT/CATATATATATAT	TGTCATGTTACTTTAT TTCAAACTC	TTGGGTTATCTTCATTG CAAAA	59.5	739	INTERGENIC	--	--	--
Ca4_P2_43005724	Ca4	43005724	CTTTTTTTTT/CTTTTTTTTT	TTGTAGTTGTATTCAAT GACGAAGA	CAGAATTAATTTATTG ACAACTCCA	57.9	628	INTERGENIC	--	--	--
Ca4_P2_4302695	Ca4	4302695	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTA/ATATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTAATATTATTATTATTATTA	GCATCTCCAAATGCGA TCT	TGAGTCCAAACAAAT GGTGTC	59.9	730	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4322555	Ca4	43222555	TTATATATATATATATATATAT/TTATA TATATATATATATAT	AAAGATTTAAAGGGCAA AAAGTG	CTGGCAGCTGGGAAAG ATT	60.3	908	INTERGENIC	--	--	--
Ca4_P2_43278176	Ca4	43278176	GTTTTTTTT/GTTTTTTTT	ACTGCGTCTCCATGGG TAAC	TTGGAATGGGCTTCTT TTTG	60.0	592	DRR	Ca_23681	--	--
Ca4_P2_43291624	Ca4	43291624	TAA/TAAAA	GAGCGATTACCGGTGT TGTT	GCCTTCAAATGTAACC CCCT	60.2	946	INTERGENIC	--	--	--
Ca4_P2_43301091	Ca4	43301091	ATAA/ATAATGTAA	ACCATAAAGGGAAACA GGGG	TCATGGTCTGCAATCT CGTC	59.8	714	INTERGENIC	--	--	--
Ca4_P2_43301725	Ca4	43301725	ATTTT/ATTT	GACGAGATTGCAGACC ATGA	TGGGCCCTTAGTCTCT TTTT	57.9	753	INTERGENIC	--	--	--
Ca4_P2_43306872	Ca4	43306872	CATATATATATATATATATATAT/CAT ATATATATATATATATATAT	TACCATGCAACGAAGTC CAA	AGCGCACTTGCAAAGT TTTT	60.1	440	INTERGENIC	--	--	--
Ca4_P2_43316684	Ca4	43316684	CATATATATATATATATATATAT/CAT ATATATATATATATATATATAT	GCAAATGTTTGCACAC GTTT	TTGGGTGTGTTGGAAG ATGA	59.9	742	INTRON	Ca_23683	D	M-type
Ca4_P2_43330964	Ca4	43330964	TTATATATATATATATATAT/TTATATATA TATATATATATAT	CATGGTGTTTGTGTGT GTGTG	CACACAATTGAACATG CGCT	60.7	135	INTERGENIC	--	--	--
Ca4_P2_43350387	Ca4	43350387	CAAAAAAAAA/CAAAAAAAAA	GGAATAAATGTTTAAA GCACGG	TTCATCATTTTGAGAA AAGAAA	57.9	312	INTERGENIC	--	--	--
Ca4_P2_43362642	Ca4	43362642	TG/T	AGAATCACACTGCCCC AAAC	TTGCAAGGAATTTTGT TCA	59.1	590	DRR	Ca_23687	--	AP2
Ca4_P2_4340423	Ca4	4340423	TA/T	TTGGACTAAGGGCCAA TGAC	TATTGAAGTGCCAAAC GACG	59.7	427	INTERGENIC	--	--	--
Ca4_P2_43483573	Ca4	43483573	ATTTTTTT/ATTTTTTT	GCCTTTTAAAATGACG ACCA	GGGAATCATTTCTGTG AATTGG	60.5	383	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_44098644	Ca4	44098644	ATTTTTTT/ATTTTTTTT	TCACCTTCATCCATCGT CAA	TGTGGTGTGCAAGATG ACTG	59.3	408	INTERGENIC	--	--	--
Ca4_P2_44134460	Ca4	44134460	AAC/AACACAC	TACCAGATTGCCCACT TTC	GCCAAAACGGATGAAG TTGT	60.0	554	INTERGENIC	--	--	--
Ca4_P2_44218817	Ca4	44218817	AGG/AG	CCTTGTTGTTTTGGCT GGT	GTGCGGTGCATATTT TTCT	60.0	726	INTERGENIC	--	--	--
Ca4_P2_44255481	Ca4	44255481	CATATATATATATATATATATATAT AT/CATATATATATATATATATATAT AT	GGAATTCAACTTTCCTT CTCGAT	TGCTGTTTTCTTCTTCA CATCAA	59.9	528	INTERGENIC	--	--	--
Ca4_P2_44311010	Ca4	44311010	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	GCGTGACCAACAAAA CAA	GTTGCGTCAATTCAAT GCCT	59.9	690	INTERGENIC	--	--	--
Ca4_P2_44323140	Ca4	44323140	TCC/TCCC	TCGTGTTGCACCTTCA GAG	ACACCATGGTCATGCG TAGA	60.0	207	INTERGENIC	--	--	--
Ca4_P2_44323786	Ca4	44323786	TATAGAATAGAATAGAA/TATAGAATAG AATAGAATAGAA	GCACCACGAACATCAAT GAG	CAAGGTAGCGAGGAAT AGCG	60.0	745	INTERGENIC	--	--	--
Ca4_P2_44334665	Ca4	44334665	TTCT/TT	TTGCACATGATGGAAC GAT	CTTGTGGCCGTGAAA GTAT	60.0	837	INTERGENIC	--	--	--
Ca4_P2_44428431	Ca4	44428431	CATATATATATATATATAT/CATATAT ATATATATATAT	TGTTGCGGAAATGTTAG TTCA	TTCATCCATGCAATATT CAAAAA	59.3	699	INTERGENIC	--	--	--
Ca4_P2_44486854	Ca4	44486854	ATAAA/ATAAATTAAA	CTCAGGATGAACAAC GCCA	TTCGTTTATCTCTTCA TCGCA	59.9	419	INTERGENIC	--	--	--
Ca4_P2_44487366	Ca4	44487366	A/ATACATC	TGCGATTGAAGAGATA ACGAA	GAGATGCGGGGACAAG ATTA	60.0	778	INTERGENIC	--	--	--
Ca4_P2_44487390	Ca4	44487390	CAAA/CAA	AAAATCCACTGGTGCAA AGC	GAGATGCGGGGACAAG ATTA	60.0	405	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_44489599	Ca4	44489599	ATTTTTTT/ATTTTTTTT	TTCTGGACTGCTCCAA ACA	TCAATCGATCAGTTGCT TTTT	57.5	611	INTERGENIC	--	--	--
Ca4_P2_44490020	Ca4	44490020	AT/A	CAACTGATCGATTGATA GAAGCA	TGCTTCGCAAGATTAG TTAGGA	59.2	570	INTERGENIC	--	--	--
Ca4_P2_44490316	Ca4	44490316	AAAAGTGAAAGTGA/AAAAGTGA	CAACTGATCGATTGATA GAAGCA	TGCAGTCATTACTTTCG GATTG	60.1	705	INTERGENIC	--	--	--
Ca4_P2_44490357	Ca4	44490357	ATT/ATTT	TGAAAGTGAGAGGCTA AAAATCA	TGCAGTCATTACTTTCG GATTG	60.1	233	INTERGENIC	--	--	--
Ca4_P2_44492371	Ca4	44492371	ATTTTTTTT/ATTTTTTTT	TAGGAAATGGGAAGGC AGTG	CATGCGAAGGAAATTG AAGA	58.8	667	INTERGENIC	--	--	--
Ca4_P2_44492961	Ca4	44492961	TAAAAAA/TAAAAAAA	TCTTCAATTCCTTCGCG ATGT	CTCACATGATGCTCGT TGCT	60.0	810	INTERGENIC	--	--	--
Ca4_P2_44494040	Ca4	44494040	TAAA/TAA	TTGAATGCACACACAAC CCT	CAAATCTGCCTCTCTT GTTTG	59.0	675	INTERGENIC	--	--	--
Ca4_P2_44498939	Ca4	44498939	CTTT/CTT	ACCTTGGGCCTTAATTG AAA	CGGAACATCACTGTTC ACAAA	59.6	410	INTERGENIC	--	--	--
Ca4_P2_44507569	Ca4	44507569	CTTTT/CTTT	AGCGGTTGTTCAAATG ACC	AAAGCAAGTCCGACCA AAAA	59.7	421	INTERGENIC	--	--	--
Ca4_P2_44507737	Ca4	44507737	TTTCTTCTT/TTTCTTCTTCTT	AGCGGTTGTTCAAATG ACC	AAAGCAAGTCCGACCA AAAA	59.7	421	INTERGENIC	--	--	--
Ca4_P2_44508190	Ca4	44508190	AT/ATT	GAAATGGATTTTGGTG GGA	TTAAGGGAGTGCATGA GCAA	59.4	442	INTERGENIC	--	--	--
Ca4_P2_44509122	Ca4	44509122	GAAA/GAAAAA	GCAGTGCTGAATTTTG GTGA	TGCAAAAGTTGTGTGA AACCA	60.2	494	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_44510362	Ca4	44510362	AACATGCACAT/AACATGCACATGCACA T	TCTTGGATTGAGCAGC CTT	CCCGAATTGGTTTTG TTG	60.2	590	INTERGENIC	--	--	--
Ca4_P2_44511269	Ca4	44511269	ATTTT/ATTTT	GATGCAGGTCATGAA CCAA	GTCCTCAACGCTTCA GAGG	60.0	494	INTERGENIC	--	--	--
Ca4_P2_44511339	Ca4	44511339	ATTTT/ATTTT	GATGCAGGTCATGAA CCAA	GTCCTCAACGCTTCA GAGG	60.0	494	INTERGENIC	--	--	--
Ca4_P2_44520768	Ca4	44520768	GA/GAA	TTTGTCTCTCTTCTC GTG	AAGAGCACATGGGGAA ATTG	59.9	513	INTERGENIC	--	--	--
Ca4_P2_44521022	Ca4	44521022	T/TA	CAATTTCCCATGTGCT CTT	GACATTTTGGATGATT TTGGA	58.8	290	INTERGENIC	--	--	--
Ca4_P2_44521070	Ca4	44521070	CAAAAA/CAAA	CAATTTCCCATGTGCT CTT	TGGACTTCAAATGATT GTTTG	57.7	418	INTERGENIC	--	--	--
Ca4_P2_44521513	Ca4	44521513	T/TCTTATA	TCCAAAATCATCCAAA ATGTC	CGGCTTCTCTTGTGT GTCA	60.0	862	INTERGENIC	--	--	--
Ca4_P2_44522624	Ca4	44522624	GAAAAA/GAAAAAA	GAAGTTGCTTGCTCG ATTG	CCCTAGCAAGTGCTAA CCCA	60.3	675	DRR	Ca_09124	--	ERF
Ca4_P2_44523921	Ca4	44523921	ATTTTTTTTTT/ATTTTTTTTTTT	GCAATGTGCTCACTTT TGCT	AACGAAGGAGGAGGGA AGAA	60.2	651	DRR	Ca_09124	--	ERF
Ca4_P2_44524127	Ca4	44524127	CTTTTTTTTTTT/CTTTTTTTTTTT	TGGCGAGACCTAAAC AAGG	TGAGGCTCCTCGTAAT TCGT	59.8	483	DRR	Ca_09124	--	ERF
Ca4_P2_44525230	Ca4	44525230	TAAAAA/TAAAAAA	ATGACGTTGGTGATTG GACA	GCGCTAGCAAAATAG CCAC	60.0	884	INTERGENIC	--	--	--
Ca4_P2_44526873	Ca4	44526873	ACTCCAAA/ACTCCAAATGCTCCTCCAA A	TTCCATTCTTTTGCCA AGG	TTGGCTCAAGTGGGAT AAGC	60.2	397	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_44531593	Ca4	44531593	TAAAAAAA/TAAAAAAA	AGATCCGCCACTGCAT TTAC	TGGCAGGAGATATTT GACTAGG	59.6	132	INTERGENIC	--	--	--
Ca4_P2_44532030	Ca4	44532030	TAAAAAAA/TAAAAAAA	AGATCCGCCACTGCAT TTAC	TCCACTCATCAGCCAT GAAG	59.8	803	INTERGENIC	--	--	--
Ca4_P2_44532080	Ca4	44532080	TC/T	CCTAGTCAAAATATCTC CTGCCA	TCCACTCATCAGCCAT GAAG	59.8	694	DRR	Ca_09125	L	--
Ca4_P2_44533305	Ca4	44533305	TAAAAAAA/TAAAAAAA	CAAAATGCCGTCACAG AATG	CCTTGGTTTCGATGCC TAAA	60.1	368	DRR	Ca_09125	L	--
Ca4_P2_4454591	Ca4	4454591	CA/CAA	CCATTTTCAATGTCCCC AAC	CAGCAGCGCTTCTTTT CTT	59.9	548	INTRON	Ca_03812	S	--
Ca4_P2_44551800	Ca4	44551800	ATT/ATTTTTT	CTATTCTGCTGTGGGG GTGT	TTTCAGACTTTGGATTC GGG	60.0	585	INTERGENIC	--	--	--
Ca4_P2_44555024	Ca4	44555024	T/TGAGATGGAGA	TTTCTCAAGGATCAAAA TGGG	TGACCTGACCTATTCC CACC	59.8	629	INTERGENIC	--	--	--
Ca4_P2_44555673	Ca4	44555673	TA/T	AGGTCAGACCAGGCTT TGAA	TAAGTTAGCCGTCGG TCAG	60.3	623	INTERGENIC	--	--	--
Ca4_P2_44558843	Ca4	44558843	AT/A	CTCTTCCACTAATCCGC AGC	TGCATGATTTTCATTTC GATG	59.5	536	INTERGENIC	--	--	--
Ca4_P2_44559914	Ca4	44559914	TTATATATATAT/TTATATATATATAT	GCGGGGCATAAACTGA TAGA	CATTTTCATATCACAA ATCACG	59.2	465	INTERGENIC	--	--	--
Ca4_P2_44564446	Ca4	44564446	ATTTTTT/ATTTTTTT	TTGTGAAAACTACAGT CCCAA	CGTCAACTTCATGTAAT CTTTTCG	58.8	763	INTERGENIC	--	--	--
Ca4_P2_4459373	Ca4	4459373	TAA/TA	AGCGAAGGCCTCTGTA GTCA	GGCCAAGCATTGTCGT TATT	60.0	439	DRR	Ca_03811	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4464137	Ca4	4464137	CTTT/CTTTT	TACCACGGGTATGGAT CGAG	GGGCTCACTTTGTCTC AAGC	60.0	587	INTERGENIC	--	--	--
Ca4_P2_4464383	Ca4	4464383	GAATTAATAA/GAATTAATAATAA TA	GCTTGAGACAAAGTGA GCC	TTTGGCATTCCAAAGG AAG	60.0	349	INTERGENIC	--	--	--
Ca4_P2_4465005	Ca4	4465005	CATAAATAA/CATAA	TTACGGGACATCCTTCT TGG	CCCTCCCTCCTCGAA TCTA	60.5	820	INTERGENIC	--	--	--
Ca4_P2_4468129	Ca4	4468129	AC/A	TCCAGTCCAGTGGAA AGAC	CTGCTCTCAGATGCTG TTGC	59.9	355	INTRON	Ca_03810	GOT	--
Ca4_P2_4468607	Ca4	4468607	TACCAAA/TA	CTGCAGGAAATTCAG GAGC	CCGCATTGCTACTTTGT GAA	59.9	471	INTRON	Ca_03810	GOT	--
Ca4_P2_44694709	Ca4	44694709	TAGAGAG/TAGAG	GATTGATCATCTGGG GAAA	AGGCTTCTGGTGTGT TCTT	59.1	539	INTERGENIC	--	--	--
Ca4_P2_4470822	Ca4	4470822	ATTT/ATT	TCACATACCTGCCATCC AAA	CCATCCTGCTCCTATTC CAA	60.0	411	INTRON	Ca_03810	GOT	--
Ca4_P2_4471743	Ca4	4471743	TAAGAAAAATACAAG/TAAGAAAAATAC AAGAAAAATACAAG	ACATTTGATCACGGTCC TCC	AGGCATTGATTCTTCGT TCG	60.2	615	INTRON	Ca_03810	GOT	--
Ca4_P2_44730412	Ca4	44730412	GAA/GAA	AATGTAACAATTGCCGC ACA	TGTGGTCCACCAATT GAA	59.8	271	INTERGENIC	--	--	--
Ca4_P2_44773439	Ca4	44773439	ATTTTT/ATTTTTTT	TTGTTTCACTTTTCCA TTCCA	TAGGGTCTTGATCCAT CGC	60.0	596	INTERGENIC	--	--	--
Ca4_P2_4478589	Ca4	4478589	TAAGTAAAAAGTAAAAAGTAAAAAGTTA AAA/TAAGTAAAAAGTAAAAAGTAAAAA	TGTAGACGCGCAGAGA GAGA	AATCATTTGCCTGGTG CTTT	59.6	593	INTERGENIC	--	--	--
Ca4_P2_4480054	Ca4	4480054	TT/TTATTTGAAT	TCCTCCATTTTCCACG CTA	TTTCATCCTCCATGTGA CCA	59.9	409	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	Indels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_4480136	Ca4	4480136	AATATA/AATATATA	TCCTCCATTTTCCAG CTA	TTTCATCTCCATGTGA CCA	59.9	409	INTERGENIC	--	--	--
Ca4_P2_4480276	Ca4	4480276	AA/AAGA	TGGTCACATGGAGGAT GAAA	GGTATTTTGACATGAAT ATCCCTT	57.5	160	DRR	Ca_03809	--	S1Fa-like
Ca4_P2_4480380	Ca4	4480380	TC/TCC	TGGTCACATGGAGGAT GAAA	TTTAATACCTCGTATTT CCTATCAAGA	58.0	609	DRR	Ca_03809	--	S1Fa-like
Ca4_P2_4481135	Ca4	4481135	TAA/TAAA	TGAAATCAAAATTTCTC AAGGC	AAACGACATTACGTTAT TTCTTCATT	58.6	120	DRR	Ca_03809	--	S1Fa-like
Ca4_P2_4481516	Ca4	4481516	T/TTC	TGAAATCAAAATTTCTC AAGGC	GTTCCGCCTCTTCTAC CTCC	60.2	760	DRR	Ca_03809	--	S1Fa-like
Ca4_P2_4481679	Ca4	4481679	TAAAAAAA/TAAAAAAA	TTTTGCTTTTGATTACT TTCITTTT	GTTCCGCCTCTTCTAC CTCC	60.2	314	DRR	Ca_03809	--	S1Fa-like
Ca4_P2_4482785	Ca4	4482785	AACA/AA	GATCACCACCACCTTGA TCC	ACTTGAAGTCGCCCTA GCAA	60.0	649	INTRON	Ca_03809	--	S1Fa-like
Ca4_P2_44838736	Ca4	44838736	ATTTTTT/ATTTTTTT	TGAAGGAATGCTTCTTT GTTTG	GATGATTGCAACCAAC ATGG	59.8	304	INTERGENIC	--	--	--
Ca4_P2_44854776	Ca4	44854776	ATTT/ATTTT	AACTCGCCACTTAATCA TTTCA	TGTTGCACTCGAACA ACTCA	60.5	400	INTERGENIC	--	--	--
Ca4_P2_4487000	Ca4	4487000	TAAA/TAAA	GGCCAAATGAAGGACT CAAA	GAATCGTTCGGGAGAG TCTG	59.8	672	DRR	Ca_03808	--	--
Ca4_P2_4487086	Ca4	4487086	ATA/ACAGAAATATATTA	GGCCAAATGAAGGACT CAAA	CGTACGACGTCTTTCG TCAA	59.9	932	DRR	Ca_03808	--	--
Ca4_P2_4487144	Ca4	4487144	CAAAAA/CAAAAA	GAAGTTCAACTGGCAC CACA	CGTACGACGTCTTTCG TCAA	59.9	647	DRR	Ca_03808	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4487412	Ca4	4487412	AT/ATTAATAAAGT	TCAGACTCTCCGAAC GATT	CGTACGACGTCTTCG TCAA	59.9	281	DRR	Ca_03808	--	--
Ca4_P2_44874796	Ca4	44874796	AAATAATAATAATAATAAT/AAATAA TAATAATAAT	GTGAGCACGCATAGCT TCAA	GCAATGGAAGATAAAC CCCA	59.8	449	INTERGENIC	--	--	--
Ca4_P2_4488536	Ca4	4488536	TAAA/T	ACAGCACATTTCTGGT GTG	TCTGCTAACAGGGGA TTGG	60.1	450	DRR	Ca_03808	--	--
Ca4_P2_44886483	Ca4	44886483	TTCT/TT	TAATGGAGGGCAATTG GAG	AAACACCCCAACCCCA TAAT	59.4	349	INTERGENIC	--	--	--
Ca4_P2_44901004	Ca4	44901004	GT/GTGTAT	AGCTTCAAGTGGCTGA AGGA	ATGAACACGGGCGTAT CTTC	60.0	527	DRR	Ca_09152	--	C2H2
Ca4_P2_44902733	Ca4	44902733	AAGAGAGAGAGAGAGAG/AAGAGAGAG AGAGAGAGAGAG	TGTGAAGCAACAAGGA ACAGA	TCGATTCCCATGAC ACTG	60.5	133	DRR	Ca_09152	--	C2H2
Ca4_P2_44949173	Ca4	44949173	AA/AAATTA	TGACGTGTCCCGTAAC CTTT	ATAAGCCCATGTTGCG ACTC	60.1	565	INTERGENIC	--	--	--
Ca4_P2_44953374	Ca4	44953374	TACACACACA/TACACA	TCCCTCCATCACCAAAA CTC	ATGTGCAGTGACCAGA GCAG	60.1	349	INTRON	Ca_09159	G	--
Ca4_P2_44956370	Ca4	44956370	ATGGTG/ATG	TGTTTATCAAGGAGGG GTGTG	CAATGATCAGCAAGAA GGCA	59.9	296	INTERGENIC	--	--	--
Ca4_P2_44957130	Ca4	44957130	ATT/ATTT	TGAGCTGGTTTTAGCC GTTT	CTCACAAAGCGCTCAC AAAA	60.2	788	INTERGENIC	--	--	--
Ca4_P2_44963420	Ca4	44963420	A/AG	CCACCTGGGTGAATC AAGA	CACCGCTATTCCTAAG TGTT	60.0	750	INTERGENIC	--	--	--
Ca4_P2_44965317	Ca4	44965317	AATATATAT/AATATTATATATATAT	CCCATTGAGATTGCTTT TCC	TCACACAGACTGCC ATGA	59.9	537	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_44965984	Ca4	44965984	TTCAACTT/TTCAACTTAATTTCTCAACT T	ATCTTTCCCTCCACAC ACA	TGGTCGCATTGCATAT TAAA	60.1	601	INTERGENIC	--	--	--
Ca4_P2_44968120	Ca4	44968120	AT/ATATTATT	ATTCTCCCAATCCACCA TCA	GCATGTTTAAGTGGGG CCTA	60.0	184	CDS (large-effect mutations)	Ca_09160	R	C2H2
Ca4_P2_44970459	Ca4	44970459	CAAA/CA	CATTGCACGAGCACAA CTG	TGGAACGTAATTCCTC CATT	57.0	661	DRR	Ca_09160	R	C2H2
Ca4_P2_4497451	Ca4	4497451	TAGGAAG/TAG	TAAACCACATCGACACG GAA	TTATGGCATTCCATTCT CCC	59.7	631	INTRON	Ca_03808	--	--
Ca4_P2_44975345	Ca4	44975345	TCCCC/TCCCCC	CCTTCCCCTCTTTCAAC ACA	TTGGCTAGTAGTGGGG ATGG	59.9	400	INTERGENIC	--	--	--
Ca4_P2_44978149	Ca4	44978149	AA/AATA	TTGATGGATGAGCCTC AATTT	AAGGCCAAAACATTTT AGAGA	59.2	684	INTERGENIC	--	--	--
Ca4_P2_44983043	Ca4	44983043	TA/TAGA	GCAGAATATGCGGATC TGGT	TAGATTCTGGCTCGG TCAT	59.7	387	DRR	Ca_09161	I	--
Ca4_P2_44986447	Ca4	44986447	AAAT/AAATAATAATAAAT	GGGGATTTATTTTGA GGGA	TTTGACCGACTTGTTTA GGAG	57.0	922	INTERGENIC	--	--	--
Ca4_P2_44986634	Ca4	44986634	AAATAATAAAT/AAATAATAAT	ACGTGGACACACATTC CCT	TTTGACCGACTTGTTTA GGAG	57.0	728	INTERGENIC	--	--	--
Ca4_P2_44987031	Ca4	44987031	TA/TAAA	CTCCTAAACAAGTCGGT CAAA	CCAAACGTTTTTCATGAA CTACAA	59.1	493	INTERGENIC	--	--	--
Ca4_P2_44987442	Ca4	44987442	TG/T	TCATGAAAACGTTTGGT TAATTG	AAAAGGGATACTGAATT TCATCCA	60.1	373	INTERGENIC	--	--	--
Ca4_P2_44987779	Ca4	44987779	GA/GAATA	ACTTTGGAACAAAAGGA GGAA	TGGTCAAGATGTGTTG ACTTTG	58.7	570	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_44990917	Ca4	44990917	ATTTTTTT/ATTTTTTTT	CTTTGCACTTTCAGG AGG	AAATCACCAAAGGTG AAGCA	59.6	513	DRR	Ca_09162	I	--
Ca4_P2_44993902	Ca4	44993902	ATTTTT/ATTTTTT	CACCTCTTTTGAATCG ACTC	AAAAATGGAATGCAAG TGCC	59.9	345	DRR	Ca_09163	--	--
Ca4_P2_44994360	Ca4	44994360	CAAAAA/CAAAAAA	GGCACTTGCATTCCATT TTT	ACACGTGGCATTGAAC CTTT	60.4	479	DRR	Ca_09163	--	--
Ca4_P2_44994553	Ca4	44994553	GAAAAAAAA/GAAAAAAAA	TGCATGCGAGGTATTC AAGA	ATTTGGCAACGAAGTTT TGG	60.0	827	DRR	Ca_09163	--	--
Ca4_P2_4499622	Ca4	4499622	ACTAGCTATCCGCTAGCTA/ACTAGCTA	CCCGTCCCTAAAACCT CCT	CGTTCCACGTTTGGT AGTT	59.9	657	INTRON	Ca_03808	--	--
Ca4_P2_44998481	Ca4	44998481	GTTA/GTTATTTA	GGTGAAGTATTTGTGT GCG	ATTGACTCGACGAATC CACC	59.9	697	INTERGENIC	--	--	--
Ca4_P2_44999560	Ca4	44999560	GTCTCTC/GTCTC	TTCATTTTCCCACCCCT ACA	TCCCTACTCAAAGGGG TCAA	59.5	630	INTERGENIC	--	--	--
Ca4_P2_45005102	Ca4	45005102	A/AAT	CTCCGTTCAAGCCTCTT GTC	GAAAGTGTGAGCAAC ACGA	60.0	225	INTERGENIC	--	--	--
Ca4_P2_45010821	Ca4	45010821	AAAGAAAAAAAA/AAAGAAAAACAAGA AAAAAA	AGTATCGAGGAACAG TGCG	TGCACTCCAAAAATGG ACAA	60.1	792	INTERGENIC	--	--	--
Ca4_P2_4502063	Ca4	4502063	C/CG	GCTGGATCCGTCGTTA CAAT	CCATCTGAGAAAGCTA GCCG	60.1	441	DRR	Ca_03807	--	FAR1
Ca4_P2_4503083	Ca4	4503083	AG/A	CCTTACGACCTCCCAA TCA	AATGGACAGTCAATAT GAAATCAA	57.6	464	INTRON	Ca_03807	--	FAR1
Ca4_P2_45034636	Ca4	45034636	AG/A	TGCCTACGTTTTGCATC AAG	CGCAACTGCTCAGACA GAGA	60.5	651	DRR	Ca_09166	P	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_45035933	Ca4	45035933	CCTTCT/CCTTCTTCT	TTGTTTGCTTTTCTTG GGG	TTGGAGTTGTCCAAT GTGT	60.0	556	DRR	Ca_09166	P	--
Ca4_P2_45036487	Ca4	45036487	ACC/A	CACATTGGCACAACTCC AAC	GAGGCCACTTAATGCT TTGG	59.7	317	DRR	Ca_09166	P	--
Ca4_P2_4503851	Ca4	4503851	TAAAAAAAA/TAAAAAAAA	TTCTCCCTCCGTCTCAC ATC	TGGAGGCAATGATTTT GTCA	60.0	421	INTRON	Ca_03807	--	FAR1
Ca4_P2_45050579	Ca4	45050579	CTTAA/C	CGATGCCTCTGTACCA AATG	TAGCTGAGCGGCACT ATTT	60.0	662	DRR	Ca_09167	K	GATA
Ca4_P2_45051719	Ca4	45051719	TAAAAAAAA/TAAAAAAAA	CCCCCACTCAAATTTA CGA	CATTTGGTACAGAGGC ATGG	59.0	464	DRR	Ca_09167	K	GATA
Ca4_P2_45053400	Ca4	45053400	A/AAGG	TGTTTGATAAGAAAGA GTGATCG	GAGGAACCAAGCAAGAA GTGC	60.0	403	INTRON	Ca_09167	K	GATA
Ca4_P2_45054017	Ca4	45054017	CATATATATATA/CATATATATA	GCACTTCTTGCTGGTTC CTC	AACCCACAACTCAAAA TGC	59.8	731	INTERGENIC	--	--	--
Ca4_P2_4505602	Ca4	4505602	T/TA	CATTGAGAATTTGGGG ACCA	TCATGTTGAAGGCTCT GTCG	60.0	891	INTERGENIC	--	--	--
Ca4_P2_45067243	Ca4	45067243	ACTCT/ACTCTCT	TCAAGATGCCAAGAGG TGAA	TCCAATTTTGGTCAAG GAGC	60.1	666	INTERGENIC	--	--	--
Ca4_P2_45068051	Ca4	45068051	CAA/CAAA	CGTGGACTTCCCAGCT ACAT	ACAATTTACTCCCTCCG CCT	60.0	584	DRR	Ca_09168	T	WRKY
Ca4_P2_4507391	Ca4	4507391	T/TTA	TTTGGGGACCAAACT GAAG	GCATATACGAGGAGAC CCGT	59.0	156	INTERGENIC	--	--	--
Ca4_P2_4507561	Ca4	4507561	AA/AAATA	TTTGGGGACCAAACT GAAG	TCCGAGCAACCATACT TTCA	59.3	698	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_45076892	Ca4	45076892	CG/CGG	GGTCCAACATTCTCCT TGA	TCCACAAATAACAGTT TTCCC	60.1	606	INTERGENIC	--	--	--
Ca4_P2_4508477	Ca4	4508477	T/TA	GTCTCTTGGTTTACCGT GCC	ATGAGTGGTTTGCCAC ATGA	60.0	452	INTERGENIC	--	--	--
Ca4_P2_45102000	Ca4	45102000	AATATATATATATATAT/AATATATATA TATATAT	CCGGAGCTTGAACGAA AATA	TCGCGTAATACTCAAA CAAA	58.4	627	INTERGENIC	--	--	--
Ca4_P2_45113591	Ca4	45113591	GATTATTATT/GATTATTATTATT	TTCGAGGAACCTCGCA ATCT	TTATGTCAAGGCTCTC CGCT	60.0	652	DRR	Ca_09171	--	MYB_related
Ca4_P2_4511887	Ca4	4511887	ATTTTT/ATTTTTT	CGTTGTTGGTGAACT GCAT	CCGGCGAGAATTTTC AATA	60.0	700	INTERGENIC	--	--	--
Ca4_P2_45148477	Ca4	45148477	TTGTGTGT/TTGTGT	GGGGTGGTTTTGCTT GTTA	TTTTTCAAGTAGGGATG CGG	60.1	725	INTERGENIC	--	--	--
Ca4_P2_45154839	Ca4	45154839	TAAA/TAAA	ATGATGTGTGCAACG GAAA	CATCACCGTTACGGCC TATT	59.8	306	INTRON	Ca_09178	B	NAC
Ca4_P2_4517104	Ca4	4517104	GATGAATTTATTAAT/GATGAATTTATTA ATGAATTTATTAAT	AAAATGCGTTTCACTCG GAC	GCACACTTGTGCTTGG AAGA	60.0	304	INTERGENIC	--	--	--
Ca4_P2_4517245	Ca4	4517245	AAGA/AA	AAAATGCGTTTCACTCG GAC	CCGTTTTTCGTCACAAT TCA	59.6	550	INTERGENIC	--	--	--
Ca4_P2_4517700	Ca4	4517700	AATAT/AATATAT	TGAATTGTGACGAAAA CGG	AAGACTGGAATTGATC CACCA	59.4	717	INTERGENIC	--	--	--
Ca4_P2_4522974	Ca4	4522974	CAATTTTAACAT/C	AATGACAAATTTTCGG CC	TACCCTCCTTCGCATC AATC	60.0	775	INTERGENIC	--	--	--
Ca4_P2_45232369	Ca4	45232369	ACTCCT/ACT	TCCTGAGGCTCACGTT TCT	AACGATGCAACCTTAC CCTG	60.0	562	DRR	Ca_09187	A	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_45350416	Ca4	45350416	ATTTTTTTTT/ATTTTTTTTT	TGCATTCCCTATTTAA TGCAA	GTCCTTGGTAGCGAGT TGGA	60.3	684	INTERGENIC	--	--	--
Ca4_P2_45354479	Ca4	45354479	TC/T	CGTTTTGGCGTATCCAT TCT	CCGGAAGAACATTCAA AGGA	60.0	760	INTERGENIC	--	--	--
Ca4_P2_45361243	Ca4	45361243	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTAT/AATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT	AAAGATTGGTTCGTGCT TGC	TCTTCATCGGACCAAC AACA	60.1	526	INTERGENIC	--	--	--
Ca4_P2_45363153	Ca4	45363153	ATTTTTTT/ATTTTTTTT	GGCAAAACCAAGAGA ACCA	GATTTTTGGCTGCTTAT GGC	59.7	400	INTERGENIC	--	--	--
Ca4_P2_45366346	Ca4	45366346	CAA/CA	TCATTGTCTGTTCTGCC AGG	TCAATTTTGGATTGGG GTGT	60.0	522	INTRON	Ca_09200	K	MYB
Ca4_P2_45366754	Ca4	45366754	TAAAAAAAA/TAAAAAAAAA	ACACCCCAATCCAAAT TGA	ATGCTCAAATGGGTAG CAGG	60.1	771	INTRON	Ca_09200	K	MYB
Ca4_P2_45366808	Ca4	45366808	TT/TTAT	ACACCCCAATCCAAAT TGA	ATGCTCAAATGGGTAG CAGG	60.1	771	INTRON	Ca_09200	K	MYB
Ca4_P2_45367499	Ca4	45367499	ATTTTAAATTT/ATTTTAAATTTTAAAT TT	CCTGCTACCCATTTGAG CAT	GCAATTCGAGCCTG TTAT	59.2	583	INTRON	Ca_09200	K	MYB
Ca4_P2_45369151	Ca4	45369151	CTTTTT/CTTTTT	TTGCATTCAATGTCTGC ATTT	GGGCAGTCACCTCCAC TAAA	60.1	575	INTERGENIC	--	--	--
Ca4_P2_45369397	Ca4	45369397	CAACAAAA/CAACAAACAAAA	TTGCATTCAATGTCTGC ATTT	GGGCAGTCACCTCCAC TAAA	60.1	575	INTERGENIC	--	--	--
Ca4_P2_4537624	Ca4	4537624	TAATAAAATAAAATAAAAT/TAATAAAAT AAAAATAAAATAAAAT	TGCATCGCCATATCAA TAA	TATTGGACCGACCTG AAAA	60.3	511	INTERGENIC	--	--	--
Ca4_P2_45377918	Ca4	45377918	CAAAAAAAAA/CAAAAAAAAAA	TTTATACCATGCAACG CTCA	CCAATGCGTTAAATTG GTCA	59.4	193	DRR	Ca_09201	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_45380400	Ca4	45380400	ACTACG/A	TTGCCGTTAATTCTTGG AGC	GTGGAGAAAACAACAA CGGG	60.4	774	INTERGENIC	--	--	--
Ca4_P2_45385545	Ca4	45385545	ACT/ATTATATATCT	CACCCATAACTTTAT GAGATGGAA	CACAAATTAAGGGAAG GCGA	60.1	363	INTERGENIC	--	--	--
Ca4_P2_45389101	Ca4	45389101	T/TC	CAATTCATTTTGTGG GGG	ATTTGAGCATGGGGAA GATG	59.9	623	INTERGENIC	--	--	--
Ca4_P2_45390797	Ca4	45390797	AT/A	GGATTCAACTTTGAGG GCA	CAGTAGGGTTTGGGAC TCCA	60.0	252	INTERGENIC	--	--	--
Ca4_P2_45393352	Ca4	45393352	ATT/ATTT	GGCCCTTAGGCCTCAT TAAC	ATCCGAAAAACCAACAT TGC	59.8	155	INTERGENIC	--	--	--
Ca4_P2_4539359	Ca4	4539359	G/GC	CGTCGAGCTGAACAAT GACA	GGGTGGAAATAGGTTG GGTC	60.4	604	INTERGENIC	--	--	--
Ca4_P2_45395365	Ca4	45395365	ATTTTTTTT/ATTTTTTTT	TGATATGGGAGGTTAA GGACCA	CCCCACGAACTGTATC GTTT	59.9	604	INTERGENIC	--	--	--
Ca4_P2_4539713	Ca4	4539713	TTA/TTATA	TCGACCCAACCTATTT CAC	GGTTAACCCTCGTAAC ACACTTT	59.4	340	INTERGENIC	--	--	--
Ca4_P2_45397379	Ca4	45397379	TA/TAA	CACGTGAGTGTGACAT GGTG	CAATGGCAAAATATCC CAAA	59.7	626	INTERGENIC	--	--	--
Ca4_P2_45399331	Ca4	45399331	ATTTTTTTTTTTTTT/ATTTTTTTTTT	ACCACCTCACCAAGA GGG	ATTCGCTTTGCTGTCA AAC	60.3	445	INTERGENIC	--	--	--
Ca4_P2_45399782	Ca4	45399782	AG/A	GTTTGACAGCAAAGCG GAAT	ACAGCTTGCAACTGAT GTGG	59.9	334	INTERGENIC	--	--	--
Ca4_P2_45405854	Ca4	45405854	TAAAAAA/TAAAAA	TTAATGGGAGGTCCGA AATG	TTCCACAATGCATCAAA CAAA	60.0	701	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_45414512	Ca4	45414512	ATTTTTTTTTT/ATTTTTTTTTT	TGCATAAATGCACGATG AAAA	GTTCAAACCGGCAATG TCTT	60.0	740	INTERGENIC	--	--	--
Ca4_P2_45414918	Ca4	45414918	GTTTTT/GTTTT	TAGTCTTGCAACCACC CCC	ATGGTCTTGACAGGGT GGAG	60.0	126	INTERGENIC	--	--	--
Ca4_P2_45452454	Ca4	45452454	CTTTTTTTTTT/CTTTTTTTTTT	ATTCCAAGTTTGTCCAA CCC	CGGTTAAAGGCATAA CCGA	60.0	656	INTERGENIC	--	--	--
Ca4_P2_4550279	Ca4	4550279	TAAAAA/TAAAAAA	AACCCAGCTTATAGCG CAGA	AACAACACCGTTTACG CCTC	60.0	872	INTRON	Ca_03803	--	--
Ca4_P2_45505990	Ca4	45505990	AATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT A/ATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT ATTATTA	GAATCACGCAGCATTCA AAA	CGGAGATTGCAAGTAA AAGAGTC	59.4	402	INTERGENIC	--	--	--
Ca4_P2_45567618	Ca4	45567618	TTATATATATATATATAT/TTATATATA TATATATAT	TCACAAATGGCAGTTTT GTCCT	CCAATCCTAGCTTCTG AAAATG	58.0	635	INTERGENIC	--	--	--
Ca4_P2_45584054	Ca4	45584054	AATA/AA	CACCTACAACCCCTGC ACTT	AGCCACTATGGCATCG CTAA	60.8	504	INTERGENIC	--	--	--
Ca4_P2_45586091	Ca4	45586091	GTTTTTTTTT/GTTTTTTTTT	GGAGGTCATGTGCTCC TCAT	TTTGCCCTTGATCTG GGAC	59.9	473	INTERGENIC	--	--	--
Ca4_P2_4561239	Ca4	4561239	TTATTGAA/TTATTGAACTACTATTGAA	GTGCGTAGCTTGTTT GGGT	ACACTTCCTTGCCATGT TCC	60.0	476	INTRON	Ca_03802	UZ	--
Ca4_P2_45626888	Ca4	45626888	ATTT/ATTTT	TATCAGCAGACCAAA GGA	GCCTGATGTTTGTGAG GGTT	60.0	286	INTRON	Ca_09219	Z	MYB_related
Ca4_P2_4565072	Ca4	4565072	TGG/TG	CTGGGGTGTCGGTTAG AAAA	CTGCTAGCTGCTCCCA CTCT	59.9	161	INTRON	Ca_03802	UZ	--
Ca4_P2_4568058	Ca4	4568058	ATTTGATTTT/ATTTGATTTTGATTTT	GTGGGGCATTACGATA CCAC	GGGGAAGCCATATCAC ATCA	60.7	636	DRR	Ca_03802	UZ	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_45740248	Ca4	45740248	TTATATATATATATATATATAT/TTA TATATATATATATATATATAT	ACCAATCATAACCGAC CCA	TTGTTTAAATCCGCAT CACA	59.1	375	INTERGENIC	--	--	--
Ca4_P2_45745377	Ca4	45745377	ACC/ATTTCC	CGCAACAACGTGAGAG AAAA	AAGGCAGCTTCTTGGA GTCA	60.1	519	INTERGENIC	--	--	--
Ca4_P2_4574989	Ca4	4574989	AA/AAAGTA	TGCCACTAAATAGGGTT GGC	CGTTCTGAAAACGCGC TTAG	61.1	460	DRR	Ca_03801	--	--
Ca4_P2_4575422	Ca4	4575422	ATTTTTTTT/ATTTTTTTTTT	CGCGTTTTCAGAACGA ACTA	GCATCGTTGAATGAGT TGGA	59.7	572	DRR	Ca_03801	--	--
Ca4_P2_4576739	Ca4	4576739	GAAAAA/GAAAAAA	TCCATATGATTTGAAC CGATTTTT	GGTTGGTTTAACCGTT GGAA	59.7	729	INTERGENIC	--	--	--
Ca4_P2_4577041	Ca4	4577041	GTT/GT	TTTGTTAGCATGAACAA AATGTCTT	TAAGCCAAAATGGGA AACG	59.9	351	INTERGENIC	--	--	--
Ca4_P2_4577088	Ca4	4577088	TAAAAAAA/TAAAAAAA	GAGTACACACGCGTCG ACAT	TAAGCCAAAATGGGA AACG	59.9	273	INTERGENIC	--	--	--
Ca4_P2_4582555	Ca4	4582555	ATTT/ATTTT	TTGAATTTAAATCCGGG ATGA	GCTGCTCACCTTCAC CTTC	60.0	816	DRR	Ca_03800	T	--
Ca4_P2_4589864	Ca4	4589864	CTTT/CTT	TTTCGCTCAATGTGAAA AGC	AACGGAGGCAGTAATT GTCG	60.1	322	INTERGENIC	--	--	--
Ca4_P2_45902468	Ca4	45902468	TTTTTATTTTATTTTATTTTAT/TT TTTATTTTATTTTATTTTAT	ATCATGTGTAGGTCGG GGAA	TTCCGCCCCCTTCTTC TAT	60.0	565	INTERGENIC	--	--	--
Ca4_P2_4590884	Ca4	4590884	ATAAGGTAACCT/ATAAGGTAACCTAAG GTAACCT	GCATCACATCGTTATCG TGG	AAATTCACCATTGATAT GCGAA	59.3	625	INTERGENIC	--	--	--
Ca4_P2_4591345	Ca4	4591345	TAAAAAAA/TAAAAAAA	TTCGCATATCAATGGTG AATT	GTTGGTGTTGACCTT CCAG	60.5	752	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4593540	Ca4	4593540	CTAATTAATTAA/CTAATTAA	TTGAGGAATGTAAGGAT GTCCA	TTAATGGCGGTACGT TTTC	60.1	928	DRR	Ca_03798	--	--
Ca4_P2_45949230	Ca4	45949230	AATTATTATTATTATTATTATTATTA TTATTATGATTATTATTATTAT/AATTATT ATTATTATTATTATTATTATTATTAT TATTATTATGATTATTATTATTAT	TCGAAAGAACCTCGACT CGT	TCAATATGAGGTGCGT TCCC	60.0	508	INTERGENIC	--	--	--
Ca4_P2_45959235	Ca4	45959235	TTTATTATTATTATTATTATTAT/TTT ATTATTATTATTATTATTATTATTAT	GGCCTATGGCCTAGCC TACT	ACGGCCTACCATAGGC TTTT	60.0	555	INTERGENIC	--	--	--
Ca4_P2_45978843	Ca4	45978843	TATA/T	CATTTTCTTACGTTTCGC CAAA	GCCATATTCGCTGGTT GATT	59.9	818	INTERGENIC	--	--	--
Ca4_P2_46001807	Ca4	46001807	GATAATAATAATAATAATAATAATAA TAATAATAATAATA/GATAATAATAATAA TAATAATAATAATAATAATAATA	TTGCTCTCTACGTATCCC CAG	CTCAATCGTGGGTGAC CTTT	60.0	385	INTERGENIC	--	--	--
Ca4_P2_46003281	Ca4	46003281	TTTATTATTATTATTATTATTATTATT ATTATT/TTTATTATTATTATTATTATTAT TATTATTATTATTATT	ATTCTCTCCCCCTGGTG TCT	TGTTTGGCCTAAAATTG GGT	59.3	724	INTERGENIC	--	--	--
Ca4_P2_46003963	Ca4	46003963	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA A	TTTAGGCCAAACACCCCT ACG	TTGAAGAATGTCCCA CTCA	59.1	683	INTERGENIC	--	--	--
Ca4_P2_46004838	Ca4	46004838	TAAAAA/TAAAAA	TGATTTCAATGAGAGGA TTTTGTT	GCTCGATTGATGTAA GGGC	59.7	425	INTERGENIC	--	--	--
Ca4_P2_46006007	Ca4	46006007	A/AT	TTTGTGTGCCGAAAT ATG	GGTGAAATGAAAGGAC CCAA	59.8	793	INTERGENIC	--	--	--
Ca4_P2_46006169	Ca4	46006169	ATTTT/ATTTT	TGCCAAAAGGCTAACAA TGA	GGTGAAATGAAAGGAC CCAA	59.8	692	INTERGENIC	--	--	--
Ca4_P2_46019057	Ca4	46019057	ATT/ATTT	TTTGGTCTGGATTTCCT GGG	TCATTGTTAGCCTTTTG GCA	59.3	683	INTERGENIC	--	--	--
Ca4_P2_46083062	Ca4	46083062	TTATATATATATATATATATATA/TTAT ATATATATATATATATATATATA	CATACGATTTTCACAG TCACA	GGGTGCGGAGAGAGA CTATT	58.4	511	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_46144676	Ca4	46144676	TAAAA/TAAAAA	AGTTGGAAGTCGTCGA CAAAA	GTTGCGCCCATGAAC AAAT	60.0	253	INTRON	Ca_18357	--	NF-X1
Ca4_P2_46251822	Ca4	46251822	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATT TTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT	TAGGCTTCTAGGTCAG GCCA	CCCATAAACATCGGGA TGAG	60.1	548	INTERGENIC	--	--	--
Ca4_P2_46301292	Ca4	46301292	TAAAAAAAA/TAAAAAAAAA	CGCTTTTGGTCTCTAAT GATTT	ATATGTCGCAGTCTCC CACC	60.0	184	INTERGENIC	--	--	--
Ca4_P2_46384693	Ca4	46384693	T/TCCTATAAAAA	GAGGAGGGTGGAGAAT GGAT	GGGTGCCTGGTACAAA ACTC	59.5	708	INTERGENIC	--	--	--
Ca4_P2_46386159	Ca4	46386159	ATT/ATTT	GAGGAGGATGTCCTTA AGCC	AGAATCCAATGCTCCA CAGG	60.1	779	INTRON	Ca_19274	--	Dof
Ca4_P2_46493053	Ca4	46493053	TAAA/TA	GGGAAAGTGATATTGG GGGT	CAAAGTCCTTCAATTG TCTTG	59.0	407	INTERGENIC	--	--	--
Ca4_P2_46495714	Ca4	46495714	GATTATTATTATTATTATTATTATTA TTATCATTATTATTAT/GATTATTATTAT ATTATTATTATTATTATTATTATTAT TATCATTATTATTAT	GAGGCTTCATTCTCTC GTG	TGAATTGGTGATCAA TGAAAA	60.2	478	INTERGENIC	--	--	--
Ca4_P2_46496090	Ca4	46496090	TAAAAAAAA/TAAAAAAAAA	AAAGTGGGGTCAACTTT TTGAA	TGTCAAGGAGACCCAC CACT	60.6	481	INTERGENIC	--	--	--
Ca4_P2_46674801	Ca4	46674801	A/AG	GGATGACTCGAAACGG TGTT	TTACCCAAACCCCAA TCA	60.0	667	INTERGENIC	--	--	--
Ca4_P2_46677829	Ca4	46677829	AATATATATATATATATATATATA/A ATATATATATATATATATATATATA TA	TCCTCTCATAACGGGG TTTG	GGATGCAGATTTTCCT CGAA	60.2	330	INTERGENIC	--	--	--
Ca4_P2_46702625	Ca4	46702625	CATATATATATATATATATATATAT ATATATATATA/CATATATATATATATA TATATATATATATATA	CGTCGGCAATCCTCA AATA	CTCCTCCATTGGAATT GGA	59.9	764	DRR	Ca_19247	I	--
Ca4_P2_4718004	Ca4	4718004	TATTTTTTGATT/TATT	GGAGTTTCACATTCACC CAAA	CATGCCAAAGCAGATG AAAA	59.8	389	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_47554845	Ca4	47554845	TCCCC/TCCCCC	AGCCGATTTTCTCGA TTT	GGGTGTTTGTGTGA TGGT	59.6	365	INTERGENIC	--	--	--
Ca4_P2_4763939	Ca4	4763939	TA/TAATAA	ATGGTAATCACGTTGG GAGG	AGAATGTTGCACAATCA AGGAA	59.6	809	INTERGENIC	--	--	--
Ca4_P2_47685776	Ca4	47685776	A/AGGTTTG	AGTCAGACGCTACTCG GCAT	CCGACGAAATAAGTCC CTCA	60.1	837	INTERGENIC	--	--	--
Ca4_P2_47705093	Ca4	47705093	C/CG	TTCGCATCCGTATCAAA TCA	TCACACCATGAAGAT ATGAGC	60.0	269	INTERGENIC	--	--	--
Ca4_P2_47755689	Ca4	47755689	CTTTTTTT/CTTTTTTT	TTTTCTTTTGGTGAT TGG	TGTGCAACTTCTCACC CAG	59.9	480	INTERGENIC	--	--	--
Ca4_P2_47793461	Ca4	47793461	TATAAATAAATAAATAAA/TATAAA TAAATAAATAAA	TGTGCCAATGGATTGA GAAAT	CTGCAAGCACGTATGC CTTA	60.0	396	DRR	Ca_10815	C	--
Ca4_P2_4784534	Ca4	4784534	ATTTTTTTTT/ATTTTTTTTT	CCCTTCGGAAGACCAC ATAA	TTCAATTTCTTACCCCG TTCA	59.4	657	DRR	Ca_03778	K	G2-like
Ca4_P2_47848250	Ca4	47848250	TAAAAAAAA/TAAAAAAAAA	GACGGTGTTGTAGCA GCAG	TTTCTTCCCTTTTGG GTT	59.8	273	INTERGENIC	--	--	--
Ca4_P2_47852567	Ca4	47852567	TAAAAAAAA/TAAAAAAAAA	AGCAGAGCAAAATTTG GTGG	TGGTATTGGTCCAACA ACCTG	60.7	483	DRR	Ca_10809	O	MYB_related
Ca4_P2_47895561	Ca4	47895561	ATTT/ATTTT	AAAGGAGGCTAAATTC AGAACC	AAAGAATGATCAACG CAAGG	59.2	317	DRR	Ca_10803	S	--
Ca4_P2_47914059	Ca4	47914059	CAA/CA	TTGTCGTGCTTCTTCAT TGC	GGTGAGAACTGTTGGG CATT	60.0	546	INTERGENIC	--	--	--
Ca4_P2_47936926	Ca4	47936926	CACATCAA/CA	AAAGGAAATTGCAGTGA CGG	TGCTTGACCTGTTCTGA TTTG	59.8	669	CDS (large-effect mutations)	Ca_10795	--	ARF

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_47946003	Ca4	47946003	AC/A	AAGGGGAAAATTGAAC GCT	TGGTTTGGTTGTTGGT AATCA	58.8	544	INTRON	Ca_10795	--	ARF
Ca4_P2_47961030	Ca4	47961030	TG/T	CAATTTTATAACGATTC TCTCACAA	GCAATGCATAGAGCA GCAA	60.1	270	DRR	Ca_10794	--	ARF
Ca4_P2_47961387	Ca4	47961387	TG/T	GCTGCTCTATGCATTG CTG	GAGCATGGACGTTTGG ATT	59.9	527	DRR	Ca_10794	--	ARF
Ca4_P2_47966378	Ca4	47966378	CTTTTTTTTT/CTTTTTTT	AGCAAATTGGGAACCTT GTG	CGAGAAACCCATGAGG AAAA	60.0	361	DRR	Ca_10792	--	B3
Ca4_P2_47968089	Ca4	47968089	CATAT/CATATAT	TTAAAGCAAGCGCTTTA GGC	CAGACAAGCATGCCA TAAC	60.3	651	INTERGENIC	--	--	--
Ca4_P2_47981247	Ca4	47981247	T/TC	TGCTTGACCTGTTGAT TTG	TGCAAAGATGCAAAAG ATGG	59.8	676	INTRON	Ca_10790	U	ARF
Ca4_P2_47982618	Ca4	47982618	TTTTTATTTTATTTTATTTT/TTTT TATTTTATTTTATTTT	CCAAACTCCAATCAAAT GGG	CAAATGAGAATTTTCTG GGCA	60.1	483	INTRON	Ca_10790	U	ARF
Ca4_P2_47982672	Ca4	47982672	TC/TCC	CCAAACTCCAATCAAAT GGG	CAAATGAGAATTTTCTG GGCA	60.1	483	INTRON	Ca_10790	U	ARF
Ca4_P2_47983864	Ca4	47983864	CTATATAT/C	GCTTTGTTCCATAAGC CCA	GGACCTCTTCTACCC CTGG	59.9	332	INTRON	Ca_10790	U	ARF
Ca4_P2_47985512	Ca4	47985512	G/GGTCAATATTGTTAA	ATGGGAAGGGAGCTT TTGT	TTTGGATACTATTGCG AAGTTT	57.2	383	INTRON	Ca_10790	U	ARF
Ca4_P2_48019545	Ca4	48019545	AATATTTATTTTATTTTATTTTATTTT ATTT/AATATTTTATTTTATTTTATTT	AAGCAACCCGTTATTT GTG	TTCTGTACCATACCGGC AGAT	60.4	588	INTERGENIC	--	--	--
Ca4_P2_48033176	Ca4	48033176	ATTTTTTTTT/ATTTTTTTTTT	GGGCTCTAGGCCATT TATT	AGAGTTGGTTTGATTG CCGT	59.6	395	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48212003	Ca4	48212003	AATATATAT/AATATATATATAT	GCCTCTCAGCCGATAA CTTG	ATTCCTTTACGGGAA AACG	60.2	590	INTERGENIC	--	--	--
Ca4_P2_48212486	Ca4	48212486	ATTTTAAATT/ATTTTAAATTGTTTTAA TT	CGTTTTCCCGTAAG GAAT	TGATGCCACAATTAGC CTCTT	59.7	420	INTERGENIC	--	--	--
Ca4_P2_48213718	Ca4	48213718	A/AAAT	CAGCTCAAATGAGCAAT CCA	GGTGGGTGAGGATGGT TATG	60.1	251	INTERGENIC	--	--	--
Ca4_P2_48214681	Ca4	48214681	TTTAT/TTTATTAT	GAAATGACCCCTCGAA CTCA	ATGGATTGAAAGCG ATGA	60.4	426	INTERGENIC	--	--	--
Ca4_P2_48214982	Ca4	48214982	GAAT/GAATTAAT	ATGCTTTCAAACATCATC GCC	CCATCGGATAGGTCAG AACC	59.4	525	INTERGENIC	--	--	--
Ca4_P2_48215222	Ca4	48215222	A/AAT	ATGCTTTCAAACATCATC GCC	TTGGGCTTTTCTTTGA ACT	59.9	952	INTERGENIC	--	--	--
Ca4_P2_48215838	Ca4	48215838	TTCT/TT	AGTTCAAAGCAAAAGCC CAA	TCCTCCATACCCACATC CAT	60.0	643	INTERGENIC	--	--	--
Ca4_P2_48216985	Ca4	48216985	GTATATATAT/GTATATATATAT	GGCAAGATGACATTGA CGTG	TCAGCATGTTGGAGCA AATAA	59.3	469	INTERGENIC	--	--	--
Ca4_P2_48218409	Ca4	48218409	CATAT/CAT	AAATTTGAAGTCCGGCA TGA	CGAGTGAGTGCAGCTG GTTA	60.2	359	INTERGENIC	--	--	--
Ca4_P2_48224503	Ca4	48224503	AGTGGTGGT/AGTGGTGGTGGT	GACAGGTTTCTCTCGC TGG	TGTTCAATCCCACCATC AAA	59.8	674	CDS (large-effect mutations)	Ca_10766	--	DBB
Ca4_P2_48224622	Ca4	48224622	CTTTTT/CTTTTTATTTTT	GACAGGTTTCTCTCGC TGG	TGTTCAATCCCACCATC AAA	59.8	674	INTRON	Ca_10766	--	DBB
Ca4_P2_48224694	Ca4	48224694	GATTA/GATTATATTA	GACAGGTTTCTCTCGC TGG	TGTTCAATCCCACCATC AAA	59.8	674	INTRON	Ca_10766	--	DBB

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48227983	Ca4	48227983	TTCTCT/TTCTCTCT	AAATTCGATCTCGGCA GCTA	AGACATGGATTCGCCA CTTC	60.1	594	INTERGENIC	--	--	--
Ca4_P2_48228044	Ca4	48228044	ATTGTT/ATT	AAATTCGATCTCGGCA GCTA	AGACATGGATTCGCCA CTTC	60.1	594	INTERGENIC	--	--	--
Ca4_P2_48228282	Ca4	48228282	CTTTTTTTTT/CTTTTTTTTT	TCATCTCTGTCATTTG CTGC	AGACATGGATTCGCCA CTTC	60.1	252	INTERGENIC	--	--	--
Ca4_P2_48229821	Ca4	48229821	TAAAAAAA/TAAAAAAA	TTGCCCAATAAAATAC CCA	TCAAGGACCACCATTCTCA	59.1	556	INTERGENIC	--	--	--
Ca4_P2_48230328	Ca4	48230328	A/AC	TCCTTGAGGGACCAGG ATAA	ATTGTGGATTTTGTGTC GCA	60.0	431	INTERGENIC	--	--	--
Ca4_P2_48232431	Ca4	48232431	AAAA/AAAATAAA	CATGCCAACATATGCC ACT	CTGCCACCATATGTGC AAAG	60.1	729	DRR	Ca_10765	--	--
Ca4_P2_48235126	Ca4	48235126	ATTGTT/ATT	TTGGGGTACAAAAGG TGGA	TGCTGCCTTAAGGACA CTTG	59.1	519	DRR	Ca_10764	--	--
Ca4_P2_48240826	Ca4	48240826	AG/A	TCATCAAATTCGTATCG CAAA	TTCCATTCTACCGAAA TCC	59.9	322	INTRON	Ca_10764	--	--
Ca4_P2_48243356	Ca4	48243356	CCTTCT/CCT	TGCATTTGTTGACGCT TAG	AAATCGATAGTTTGGC CCC	60.2	601	INTERGENIC	--	--	--
Ca4_P2_48245580	Ca4	48245580	CAAA/CAA	GGTTTTGTCGATGCAA GTCA	AGGAGGATCATCGCGT ACAC	60.0	580	INTERGENIC	--	--	--
Ca4_P2_48250409	Ca4	48250409	CAA/CAAA	TAGGATGCACTGTGAG CGTC	ATTACTTGTTCAGTCC GGG	60.0	483	DRR	Ca_10763	--	--
Ca4_P2_48253836	Ca4	48253836	TAA/TA	CCAGAAACCACCACGA GATT	CCTTGCTACCAATGCT CACA	59.9	466	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_48254123	Ca4	48254123	A/ATTGAG	GGAGTCGACGAAACCA ACTC	TTCGCATAAACCGAAG AAGTT	58.9	160	INTERGENIC	--	--	--
Ca4_P2_48254492	Ca4	48254492	TAAA/TAA	GGAGTCGACGAAACCA ACTC	TTTTCTGTCCGCAAATC TGA	59.4	730	INTERGENIC	--	--	--
Ca4_P2_48254672	Ca4	48254672	AAAAATTTAAATTTA/AAAAATTTAAAA TTTAAAAATTA	TTCGAACCTTAACTTCT TCGG	TTTTCTGTCCGCAAATC TGA	59.4	601	INTERGENIC	--	--	--
Ca4_P2_48259436	Ca4	48259436	AATTTTATTTT/AATTTT	CTACTGGTAACTGGGG GCAA	GGATAAGCTGCTGAGC CAAC	60.0	652	INTRON	Ca_10761	K	B3
Ca4_P2_4826016	Ca4	4826016	AT/A	GGATTGATTGCAGTTCC AAAA	GGCAAAATGCCTTTAG ACCA	60.1	445	DRR	Ca_03777	O	FAR1
Ca4_P2_48260228	Ca4	48260228	GT/GTTTTAAGTT	TGTTGCCATTTTGTTCG CAT	ACCTGCACCACAAGAA AACC	60.0	635	INTRON	Ca_10761	K	B3
Ca4_P2_48268958	Ca4	48268958	AA/AAGA	CAATCTTGCTTCCCAA AAA	AATTGCTGCTGCTGAG GTTT	60.0	914	INTRON	Ca_10760	Q	B3
Ca4_P2_48274554	Ca4	48274554	GAAAAAAAA/GAAAAAAAAA	AGCACAAAGACACAAAA CCC	GTATCTGCTGGGCTGA AAGC	60.0	240	INTRON	Ca_10760	Q	B3
Ca4_P2_48277724	Ca4	48277724	TC/T	TGATGGGTCGTGCTGT CTTA	GGCATGCCTCATATGT GTGT	59.4	427	INTERGENIC	--	--	--
Ca4_P2_48278298	Ca4	48278298	CAAAAAAAAA/CAAAAAAAAA	ATGTTCCGGATTGAAC TCG	CAACCTGGGCATTGC TATT	60.0	327	INTERGENIC	--	--	--
Ca4_P2_48278382	Ca4	48278382	CGAGAGA/CGAGA	ATGTTCCGGATTGAAC TCG	ACCAACGACGAGATAG GGTG	60.0	604	INTERGENIC	--	--	--
Ca4_P2_48291800	Ca4	48291800	GACTTGATCCA/GACTTGATCCAATTGA TCCA	AATAATTGGGGAGTCT GGGG	AGAGGCCTAAAGCCC AAAG	59.9	348	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_48294552	Ca4	48294552	ATTTT/ATTTT	GTTGATGGCAACCTCTT CGT	TCACATCCCCTAGAAA CACCT	58.5	649	INTRON	Ca_10759	--	--
Ca4_P2_48298684	Ca4	48298684	C/CA	GCGGTGTAATCGATTG TTCA	TGAACTTCAACTTGC GCTA	59.6	434	INTERGENIC	--	--	--
Ca4_P2_48300219	Ca4	48300219	TAAAAAA/TAAAAA	ACTTATTTTGGGCTCTG CCA	GCCATTGAGAAGCTCC TTTG	60.0	660	INTERGENIC	--	--	--
Ca4_P2_48300960	Ca4	48300960	TTTATTATTATTATT/TTTATTATTATTAT TATT	CAAAGGAGCTTCTCAAT GGC	GACAACTGTCCAAGCA AGCA	60.0	790	INTRON	Ca_10758	J	--
Ca4_P2_48308654	Ca4	48308654	C/CA	ATTTTGTATTGCGCTC CCA	CGTAAGTCCGTTTCAC CACA	59.6	194	INTERGENIC	--	--	--
Ca4_P2_48309328	Ca4	48309328	AAAAGAAA/AAAA	TTCGTAACCTGTTGACG TTGA	TAATGACGTTTGTGGA GGCA	60.1	451	INTERGENIC	--	--	--
Ca4_P2_48310611	Ca4	48310611	TG/TGCGAGAGAG	CAATGTTCAAACCTGCAC CGT	CAGATTCCACCCAAGG TCAA	60.9	706	INTERGENIC	--	--	--
Ca4_P2_48311635	Ca4	48311635	GTTTTTTT/GTTTTTTT	GCACCTCAGCATGTTTG CAT	TTGATCTGCTTTGTGC CTTG	60.0	816	INTERGENIC	--	--	--
Ca4_P2_48314680	Ca4	48314680	ATTT/ATTTT	GTAATGCGTTTGACCTG CAA	ATAGGCGCATCTCAAT CACC	60.1	649	DRR	Ca_10756	--	BBR-BPC
Ca4_P2_48314796	Ca4	48314796	GAAAAA/GAAAAA	GAACCTTGCTATGAAG GAACCTG	ATAGGCGCATCTCAAT CACC	60.1	523	DRR	Ca_10756	--	BBR-BPC
Ca4_P2_48314877	Ca4	48314877	TA/T	TGCGCCTATCTCTGTG GTG	TTTCGATCCATTTACCA CCC	59.6	365	DRR	Ca_10756	--	BBR-BPC
Ca4_P2_48315718	Ca4	48315718	TAAAAA/TAAAAA	TTGTCGGCATAAACATG AGAA	TAGCATTCTCCTCTG CCAT	59.8	143	DRR	Ca_10756	--	BBR-BPC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48318482	Ca4	48318482	AATA/AA	CAACATATTTGCGGTA CCAA	CTCACCGTTTCACGTG ATTG	60.2	920	INTERGENIC	--	--	--
Ca4_P2_48323095	Ca4	48323095	AACACACACACA/AACACACACACACA	GCAGCCAAACAGCTT AGAC	AATTTGCAAAAATTCTGG CTG	60.1	515	DRR	Ca_10754	Q	GeBP
Ca4_P2_48323556	Ca4	48323556	CTTATTATTA/CTTATTATTATTA	TTGCCACTTCCAACAC AAA	ATTTGAAATTGCTTTCC CCA	59.4	405	DRR	Ca_10754	Q	GeBP
Ca4_P2_48326584	Ca4	48326584	TAAAA/TAAAA	ATGTCGTGCAACTGTG AACC	CGACATGATAGCCAC TTCA	59.7	289	INTERGENIC	--	--	--
Ca4_P2_48330370	Ca4	48330370	AC/A	GCAAAGGAGCTTCTCA ATGG	GCATCAGGAACAACCA TCCT	59.9	617	INTRON	Ca_10753	J	--
Ca4_P2_48331462	Ca4	48331462	TTATCTCCCTTAAGATAT/TTAT	CAGCTTGAAGCTCTTG CTCC	GTGCCGTTTAATGCA CTTT	60.0	834	DRR	Ca_10753	J	--
Ca4_P2_48336771	Ca4	48336771	ATT/ATTT	GGAGAGCTTAGTTGGT TAATTGG	GTGCCTCTGTTGATGC TTGA	60.0	454	INTERGENIC	--	--	--
Ca4_P2_48337515	Ca4	48337515	ATCTTTTCTTTCTTT/ATCTTTTCTTT	CCAAAGTACACGCAAG ACCA	TAATTTCCCCACCACTT GGA	60.2	840	INTERGENIC	--	--	--
Ca4_P2_48337580	Ca4	48337580	ATTTTTT/ATTTTTTT	CCAAAGTACACGCAAG ACCA	TAATTTCCCCACCACTT GGA	60.2	840	INTERGENIC	--	--	--
Ca4_P2_48341983	Ca4	48341983	T/TTTTTTTTTA	CATTAGTGTGCTCCCCA CCT	AATGGGTATCAAAAAG CCCC	60.0	904	INTERGENIC	--	--	--
Ca4_P2_48342297	Ca4	48342297	GC/G	TAAAGACCGTCGCCAA ATTG	AATGGGTATCAAAAAG CCCC	60.0	419	INTERGENIC	--	--	--
Ca4_P2_48351799	Ca4	48351799	GTTTTTTT/GTTTTTTT	TAAAAACATTTTCAGGG GCG	TCGGTAATTTGTTCCT ACA	58.9	578	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48352114	Ca4	48352114	CAAAAAA/CAAAAAA	TAAAAACATTTTCAGG GCG	CGGTTAGGTTTGTAA GCA	60.0	890	INTERGENIC	--	--	--
Ca4_P2_48359177	Ca4	48359177	T/TG	CTTGCACTGGTATGT GGTG	TTGACGAAGAAGCAAC CCTT	59.9	619	DRR	Ca_10751	L	CPP
Ca4_P2_48366728	Ca4	48366728	A/AGAG	CAAGGGCTGGATTGTT TTGT	TTGGCTTTACACTGGT CCC	60.0	673	DRR	Ca_10750	A	bHLH
Ca4_P2_48371231	Ca4	48371231	AATTAATTATTAATTATTAATTATTAAT/A ATTAATTATTAATTATTAAT	CGAAATTAGCTGCAGA GGG	TTGGGAATCAGTGAGA GCAC	58.8	543	DRR	Ca_10749	--	--
Ca4_P2_48371564	Ca4	48371564	TTAAAATAAAAATA/TTAAAATAAA ATA	AGTGTCTCACTGATTC CCAA	CTATTGAAGGCCGTTG GTGT	60.0	688	DRR	Ca_10749	--	--
Ca4_P2_48386632	Ca4	48386632	TATAATAATAATAATA/TATAATAATA ATAATAATAATA	TTCTCAAGGCACAATCA CCA	AGCTCTGCTTTCCTCAT TTTT	57.4	255	INTERGENIC	--	--	--
Ca4_P2_48389809	Ca4	48389809	ATT/ATTT	CCGTTTTCCACATTTTC GAT	CCATCAAATTCATCCAC CAA	59.2	522	INTERGENIC	--	--	--
Ca4_P2_48391627	Ca4	48391627	TAAAA/TAAAAA	TTCCATTGGGAGAGTC ACCT	ACCGGTTTATGGATCC CAAT	60.3	615	INTERGENIC	--	--	--
Ca4_P2_48391760	Ca4	48391760	TCC/TCCC	TTCCATTGGGAGAGTC ACCT	ACCGGTTTATGGATCC CAAT	60.3	615	INTERGENIC	--	--	--
Ca4_P2_48392399	Ca4	48392399	ATTTT/ATTTTT	TTTGTCATTGTGAATTG AATTGTTT	TCGGAAATACTCCCTC CCTT	59.9	523	INTERGENIC	--	--	--
Ca4_P2_48392635	Ca4	48392635	A/AG	TTTGTCATTGTGAATTG AATTGTTT	TCGGAAATACTCCCTC CCTT	59.9	523	INTERGENIC	--	--	--
Ca4_P2_4839789	Ca4	4839789	CTTT/CTTTTTTTT	ACGTAATACTTTGTGGC GGC	TCTCTCCTTTGTGACG GCTT	60.0	138	DRR	Ca_03775	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48398628	Ca4	48398628	GTATA/GTATATA	ATGGCCCAATTAAGCTT TGA	CTGTTCTTGCCTGACC TTCA	60.0	565	INTERGENIC	--	--	--
Ca4_P2_48401392	Ca4	48401392	GTTT/GT	GACCAAGGCAAGCAAG AAAG	GGAAAAGGAGTGCAGT CACG	60.8	573	INTERGENIC	--	--	--
Ca4_P2_48404093	Ca4	48404093	GATTAA/GATTAATTAA	TTTGTTCGCCGAGAGTCT TGA	GTGCATGGCAATTGAA TGAT	59.4	410	INTERGENIC	--	--	--
Ca4_P2_48404970	Ca4	48404970	GTTTAATTT/GTTTAATTTAATTT	TTGCATGACTGCTTTTG GAC	TTGTCATTGTTGCGGTT TGT	60.0	514	INTERGENIC	--	--	--
Ca4_P2_48405207	Ca4	48405207	TTCTCTCTC/TTCTCTC	ACAAACCGCAACAATGA CAA	CTCACTCACCCGAAAC CATT	60.0	485	INTERGENIC	--	--	--
Ca4_P2_4840884	Ca4	4840884	AC/A	TTGGGCCTTTGTGGAG TAAG	TACCAAAGTGGTGATG GTGG	59.3	496	DRR	Ca_03775	--	--
Ca4_P2_48410357	Ca4	48410357	T/TAAC	TTTGATTGTTTGGTGG GTT	GAGGCATAATTGGAC GGTG	60.3	634	INTERGENIC	--	--	--
Ca4_P2_48410936	Ca4	48410936	A/AGAT	CACCGTCCAAATTATGC CTC	TGAGAACGTGCGACCT GTAG	60.0	518	INTERGENIC	--	--	--
Ca4_P2_48411282	Ca4	48411282	AATTTTTTATTTTTATTTT/AATTTTT TTATTTT	CTACAGGTCGCAGTT CTCA	AAAAGATTGTTGTCCA CTTTTCA	59.1	611	INTERGENIC	--	--	--
Ca4_P2_48414216	Ca4	48414216	CATAT/CAT	ATGAGCATAGCATGTG CCAG	GCATGGTTATCGGCTG ATTC	60.4	418	INTERGENIC	--	--	--
Ca4_P2_48418493	Ca4	48418493	TAAAAA/TAAAAA	TACCCTTGACATGGG GTAT	CCGGACAGTGTACCTT TCGT	60.0	251	INTERGENIC	--	--	--
Ca4_P2_4842046	Ca4	4842046	AAATAATAATAATAAT/AAATAATAA TAAT	TGAGAAGAAGGGGCTT AGCA	CGAGGAGGTTATTGGC GTAA	60.1	754	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48428988	Ca4	48428988	TAAAAAAAAA/TAAAAAAAAA	CATGGAAAAGCAACAC AACA	TTTGTCTGATTTTGT GAC	60.0	836	INTERGENIC	--	--	--
Ca4_P2_48429106	Ca4	48429106	ATTTTTTT/ATTTTTTT	TCCAAATCATTTTCACC AACTC	TTTGTCTGATTTTGT GAC	60.0	782	INTERGENIC	--	--	--
Ca4_P2_48431277	Ca4	48431277	T/TAA	TTTGTTTGTCCCATCC CAT	TCGCCATACCTTCGA ACTT	59.7	762	INTERGENIC	--	--	--
Ca4_P2_48433198	Ca4	48433198	CAAAAAA/CAAAAAA	AATCCTATATGGGCCG GAAC	TGATAATCTATTGGAG GCCGA	59.5	844	INTERGENIC	--	--	--
Ca4_P2_48433473	Ca4	48433473	AT/ATT	ACTTTTTCATGCCCC ACC	AACGAAATGAACATCT GGGC	59.9	838	INTERGENIC	--	--	--
Ca4_P2_48435040	Ca4	48435040	AAAATTA/AAAATTAATTA	AAATGAGCCAAATAGG CATGT	TTCTTCGAAATTCAC TGCAA	59.9	399	INTERGENIC	--	--	--
Ca4_P2_48435268	Ca4	48435268	A/AG	TTGCAGTTGAATTCGA AAGAA	TGATGTGATCCTAGGG TGAAGA	59.6	610	INTERGENIC	--	--	--
Ca4_P2_48436791	Ca4	48436791	TAA/TAAAA	TGTGACCACCACCTTG AAAA	TGGAACCTGGTGCAA GTCA	60.4	383	INTERGENIC	--	--	--
Ca4_P2_48441518	Ca4	48441518	TTCT/TT	TTGATTTGATGGATTTA TCTGGG	TTTTCTGGTGACGAA GTTT	58.4	395	INTERGENIC	--	--	--
Ca4_P2_48443652	Ca4	48443652	TAAAAA/TAAAAA	CCCAACCATCCCTTA TTG	CACCATTGGTCTCTCTA TTTTGC	60.0	675	INTERGENIC	--	--	--
Ca4_P2_48443839	Ca4	48443839	AT/A	TGCCATAACTTTGAAAA ATTGC	GAGTTTGAGAAGTGCA GGGC	60.0	955	INTERGENIC	--	--	--
Ca4_P2_48445750	Ca4	48445750	CTT/CT	GTAGTTGGTGGGGTGG TGTC	ATGAGGCCCAACAAC TCAC	60.0	280	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48448291	Ca4	48448291	TT/TTAT	AATCCAAAACCCCAT CAA	AAAAAGCCACCTGAGC AAGA	60.0	209	INTERGENIC	--	--	--
Ca4_P2_48448806	Ca4	48448806	T/TC	TCTTGCTCAGGTGGCT TTTT	TTGATGAATTTGATATT GTTGTTGG	60.0	606	INTERGENIC	--	--	--
Ca4_P2_48448979	Ca4	48448979	TAAAA/TAAAAA	TTGTCGTTTGGGGAA ATTA	TGCTGGTGGGAATTC TTTT	59.5	806	INTERGENIC	--	--	--
Ca4_P2_48449048	Ca4	48449048	GA/GAA	TTGTCGTTTGGGGAA ATTA	AGGTCATCCAATGGT CATC	59.6	912	INTERGENIC	--	--	--
Ca4_P2_48453229	Ca4	48453229	ACTCTCTCTCTCTCTCTCT/ACTC TCTCTCTCTCTCTCTCTCT	GATGGCATTGGAGTTT CGT	GTGTTGCGTGGTGGAA GAAT	59.8	282	INTERGENIC	--	--	--
Ca4_P2_48454259	Ca4	48454259	CTTTT/CTTT	TTGCTTTTCTACCACC ACC	CAGCAGAGTCCAATTC AGCA	60.1	376	INTERGENIC	--	--	--
Ca4_P2_48458532	Ca4	48458532	ACCCCC/ACCCC	TGCAGCATAGAGGACC TGTG	AAGAATACCATCACCC GACG	59.8	166	DRR	Ca_10747	--	--
Ca4_P2_48459552	Ca4	48459552	AT/ATT	TGGTTGGCAGTAAGAT GCAA	CGTTTGTTGACGAGC ACAA	60.9	649	DRR	Ca_10747	--	--
Ca4_P2_48465591	Ca4	48465591	GAAAA/GAAA	ATAATGATCCCGTTG GACA	GCCTTTCCTTGACAGT CTGC	60.0	699	INTRON	Ca_10746	LA	--
Ca4_P2_48465859	Ca4	48465859	GTTTTTTTTTT/GTTTTTTTTTT	TGTGTGTCTCAGTGT GGGT	GCCTTTCCTTGACAGT CTGC	60.0	619	INTRON	Ca_10746	LA	--
Ca4_P2_48467313	Ca4	48467313	TAG/TAGAG	CTATTTGCGTCTTTTCC CCA	ACGTGAACTTTTTGTG CCC	60.0	202	INTRON	Ca_10746	LA	--
Ca4_P2_48471613	Ca4	48471613	ATTTT/ATTT	ATCCTCTCTGCGTGC ATT	TATTGCACATCGGGA CCAA	59.9	921	INTRON	Ca_10746	LA	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_48479264	Ca4	48479264	T/TACG	AAACGAGTTTCCATCT GCG	ACAACCTCGCCACTC TCAC	60.3	105	INTRON	Ca_10745	L	bHLH
Ca4_P2_48481643	Ca4	48481643	ATTTT/ATTTT	TGACCAGTCATGACAAA AATTAAA	GCTATTGGACTTCACTT GTACCAC	59.1	487	INTERGENIC	--	--	--
Ca4_P2_48483020	Ca4	48483020	GT/GTT	TTTGCAATGTTTCATGC GAT	TCTGGGTTGGATAAGC AAGG	60.1	775	INTERGENIC	--	--	--
Ca4_P2_4848593	Ca4	4848593	ATTTTTTTTT/ATTTTTTTT	TTTTGGCCCATGTCTTT TGT	TCAATTTGTTGAAAGTC ACGATG	60.0	616	INTERGENIC	--	--	--
Ca4_P2_48494524	Ca4	48494524	AAGAG/AAG	GCATTCTGGCACAACAA AGA	ACTGGACCCCAACCT CTCT	60.0	357	INTERGENIC	--	--	--
Ca4_P2_48497163	Ca4	48497163	AAATAAT/AAAT	ATGTTGCAAAACATGAG CCA	ACAAAATCGCCGATGG TAAC	59.8	768	INTRON	Ca_10742	V	GRAS
Ca4_P2_48497756	Ca4	48497756	GCTAC/GCTACTAC	AGGTGTGAGGGTTCGT CAAC	CTTCTTTGGGTCAGCC TCTG	60.0	337	CDS (large-effect mutations)	Ca_10742	V	GRAS
Ca4_P2_48506481	Ca4	48506481	C/CCGTT	ACATTTGGGCTCAGGA TTTG	CGATACTTGCTGCTGG ACAA	60.0	428	INTERGENIC	--	--	--
Ca4_P2_48506646	Ca4	48506646	T/TG	ACATTTGGGCTCAGGA TTTG	CGATACTTGCTGCTGG ACAA	60.0	428	INTERGENIC	--	--	--
Ca4_P2_48507473	Ca4	48507473	AT/ATATGTT	GGAATTCTGCACCAAA CAAT	GCCCACTCTATCTGA CTCG	59.8	428	INTERGENIC	--	--	--
Ca4_P2_48514251	Ca4	48514251	ATTTTTTT/ATTTTTTTT	CGTGGAAGTGTTTTGG TTGA	TCACCTTCAACAGGGT TATTG	59.8	714	INTERGENIC	--	--	--
Ca4_P2_4851664	Ca4	4851664	CAGGAAAAGGAAAAGGAAAAG G/CAGGAAAAGGAAAAGGAAAAGG	TGGCATAGCAAACAGA GAAGG	GGCCAAATAATGATG GCAC	60.2	311	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48518860	Ca4	48518860	TATGTAATAAATTGAT/TAT	CATCAAGCTGTTCTGCA TGC	ATCATCTTTGGCAGTA GCGG	60.2	287	INTRON	Ca_10740	--	C2H2
Ca4_P2_48520425	Ca4	48520425	TAAA/TAA	AGCATGGGTCACACAC TCAA	CACCTTGTTTGATGGA GCA	59.7	284	INTRON	Ca_10740	--	C2H2
Ca4_P2_48520759	Ca4	48520759	ATTT/ATT	AGCATGGGTCACACAC TCAA	TCTCCACTATGTTCCGA CCC	59.9	665	INTRON	Ca_10740	--	C2H2
Ca4_P2_48522137	Ca4	48522137	TTTATTATTATTATTATTATT/TTTAT TATTATTATTATTATTATT	CATTGCAATCGGCCTCT ATC	TCCCACCTTCACTTTGG GTC	59.9	657	DRR	Ca_10740	--	C2H2
Ca4_P2_4852416	Ca4	4852416	GAAAAAA/GAAAAAAA	TGGCTCCAACAACATCT TCA	ACCCCTTGGTCCAAAC AAAT	60.5	549	INTERGENIC	--	--	--
Ca4_P2_48541135	Ca4	48541135	TAAAAAAAAA/TAAAAAAAAA	AATCCACACGTACG TTC	GATGTTCTTGCTTGT GGCT	60.3	723	INTERGENIC	--	--	--
Ca4_P2_48575054	Ca4	48575054	TGGGG/TGGGGG	GCAACAATTGAATCAAC CCC	CTTCATGAATTGCACCA TGC	60.1	705	CDS (FRAME SHIFT)	Ca_23007	P	--
Ca4_P2_48575382	Ca4	48575382	TTATATATATATATATATATATATA/TT ATATATATATATATATATA	CCTGAGCCATTTGAAG AGGA	TTTCAGTTCATCGTGTC CCA	60.1	841	INTRON	Ca_23007	P	--
Ca4_P2_48576925	Ca4	48576925	AT/ATT	ATCTCACCCCAAGACAA CCA	TCATTCCAGAAGGAGA TGGG	60.0	211	INTRON	Ca_23007	P	--
Ca4_P2_48577228	Ca4	48577228	A/AC	AACACATCCGGATCC ATTA	TGATGACGAAGACGAA GACG	60.0	303	INTERGENIC	--	--	--
Ca4_P2_4859197	Ca4	4859197	GTCT/GT	TCCAGTTTTGGTTGCTG AGA	TAGGCATCACCGTTGT GTGT	60.0	737	INTRON	Ca_03773	--	--
Ca4_P2_4859261	Ca4	4859261	TATTAATTAATTAATTAAT/TATTAATTA TTAAT	TCCAGTTTTGGTTGCTG AGA	TAGGCATCACCGTTGT GTGT	60.0	737	INTRON	Ca_03773	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48596162	Ca4	48596162	CATATATATATATATATATATATATATATATATATA/CATATATATATATATATATATATATA	TGAGATTAATCGGTGG GAGC	CACTGCAAAATGTTGAA GCAA	59.9	425	INTERGENIC	--	--	--
Ca4_P2_48614082	Ca4	48614082	CAAAAAAAAA/CAAAAAAAAA	TCACGTTTTCTCTCATC CCC	AGCCAACAAAATGTG TCGT	58.1	599	INTERGENIC	--	--	--
Ca4_P2_48651388	Ca4	48651388	AACCTTTAAGAGTACTTTTA/AACCTTTTA	AAAACCACTCCAGACAT CGG	CTTGCAATACCCGCAA AGTT	60.1	682	DRR	Ca_23016	O	LBD
Ca4_P2_48651844	Ca4	48651844	CATAT/CAT	CTCCGGTGGCTAATTG TGAT	TTCAGCTTTCGATTCA TTG	60.0	442	DRR	Ca_23016	O	LBD
Ca4_P2_48662630	Ca4	48662630	ATTTTTTT/ATTTTTTTT	AACACATATGAATGCAT CGAGTC	TGGCACCCGAAATGTC TAAT	60.3	399	INTERGENIC	--	--	--
Ca4_P2_48664644	Ca4	48664644	GTTTTTT/GTTTTTTT	AAGATCCCGTCAACCA GTTT	TCAAAGATTGGGATGA AGGC	60.0	328	INTERGENIC	--	--	--
Ca4_P2_48664816	Ca4	48664816	ATTTTTT/ATTTTT	AAGATCCCGTCAACCA GTTT	TCAAAGATTGGGATGA AGGC	60.0	328	INTERGENIC	--	--	--
Ca4_P2_48665136	Ca4	48665136	AGG/AG	GCCTTCATCCCAATCTT TGA	CAAATGCAGTGTCAT CCAC	60.0	451	INTERGENIC	--	--	--
Ca4_P2_4866573	Ca4	4866573	GTTAAT/GTTAATTGATTTAAT	TACCGGAAATTTCAACG AGG	CGTATTAGTAAACCG TTGGG	58.4	430	INTERGENIC	--	--	--
Ca4_P2_4866591	Ca4	4866591	GTTT/GTT	TGGAGGGTACAAAAGC CAAC	CAAAAGTGAGGAGAGG TGAGTG	59.0	387	INTERGENIC	--	--	--
Ca4_P2_48673700	Ca4	48673700	GAAAAAAAA/GAAAAAAAAA	TACCGAACATGCGGTG TAAG	TGACAAAAAGGAGAAG ATAATGC	57.6	736	DRR	Ca_23017	--	--
Ca4_P2_48675604	Ca4	48675604	GTTTTTTTTT/GTTTTTTTTT	AAAAGGAAATTGGCAC GTTG	CACTTCATCATGCATCA CCC	59.9	702	DRR	Ca_23018	--	LBD

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_48683487	Ca4	48683487	TAAA/TAAAA	GTGTTTGTCGATGATTGG	TGGCATCATAAATTTGTGTGTGA	60.2	200	INTERGENIC	--	--	--
Ca4_P2_48687183	Ca4	48687183	TTTACTTA/TTTACTTACTTA	TTCATAATTGCTGCACCTCG	ATGGAACCCAATGATCTGA	60.1	677	INTRON	Ca_23019	R	--
Ca4_P2_48689333	Ca4	48689333	TAT/TATAAT	AATACCTGGACAGTGGCTCG	TTTGCAGCTTGAGTGGCTTA	59.8	500	INTRON	Ca_23019	R	--
Ca4_P2_48689373	Ca4	48689373	CATAT/CAT	AATACCTGGACAGTGGCTCG	TTTGCAGCTTGAGTGGCTTA	59.8	500	INTRON	Ca_23019	R	--
Ca4_P2_48694227	Ca4	48694227	ATATTTT/AT	TGCTGCCACACCTAACTTG	TAATCCATTGGCCACATT	60.0	678	INTERGENIC	--	--	--
Ca4_P2_48694298	Ca4	48694298	CTTTTTTTT/CTTTTTTTTT	TTACGTTGATTGAGGGTGA	TAATCCATTGGCCACATT	60.0	296	INTERGENIC	--	--	--
Ca4_P2_48702506	Ca4	48702506	ATTTTTTTT/ATTTTTTT	TGTTGGAAGTGTGGTGCAT	TTTGTCTTCCCTGTTTGC	60.1	493	INTRON	Ca_23020	Q	Nin-like
Ca4_P2_48708323	Ca4	48708323	TAAAAAAA/TAAAAAAA	GCGCTAGAGGAAGTGGATTG	TTACAACTCAATGTCGCCG	59.7	563	DRR	Ca_23020	Q	Nin-like
Ca4_P2_48708348	Ca4	48708348	TAAAAA/TAAAAA	GCGCTAGAGGAAGTGGATTG	GGCGATGAATTGGTTTGT	59.8	944	DRR	Ca_23020	Q	Nin-like
Ca4_P2_48708820	Ca4	48708820	AC/ACTTGACCATTTTC	CGGCGACATTGAGTTGTAA	GCACGTGTTGAAATGCTGC	60.3	630	DRR	Ca_23020	Q	Nin-like
Ca4_P2_48708876	Ca4	48708876	TTTTATTT/TTTT	CGCCACTTGATTTTCAAGCA	GCATCAGCTCTTCCAGCTTC	60.2	517	DRR	Ca_23020	Q	Nin-like
Ca4_P2_48711298	Ca4	48711298	TCACACACA/TCACACACA	CTCTGGGCTGATCAGAAAGG	CACAAATGTGTGGCTGGAAC	60.0	732	INTRON	Ca_23021	U	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48721018	Ca4	48721018	TAAAAAAA/TAAAAAA	CTTGGGCTTCTCATAT CCA	CTTCCACCTCCAGG GTAT	60.2	775	INTRON	Ca_23022	--	--
Ca4_P2_48721890	Ca4	48721890	ATTTTT/ATTTTTT	GACTCTCAGCATCAC GGA	GCAAGACGAATATGAC CATGAA	60.0	723	INTERGENIC	--	--	--
Ca4_P2_48722275	Ca4	48722275	GTTTAATTTTATTTAATTT/GTTTAATTT ATTTAATTTTATTTAATTT	AGAACGGAAATTAGGA GGAGTT	TTCGAAAGTTGCAAGA CGAA	59.6	210	INTERGENIC	--	--	--
Ca4_P2_48725595	Ca4	48725595	TAAAAAAA/TAAAAAA	AATAAACCGTAGGCCA GGCT	CTGGGACAACTTGTTTT GGG	60.4	798	INTERGENIC	--	--	--
Ca4_P2_48726138	Ca4	48726138	TAATG/T	CCCAAAACAAGTTGTCC CAG	TGTCGCACTGGTTGA TTGT	60.2	403	INTERGENIC	--	--	--
Ca4_P2_4873288	Ca4	4873288	AT/ATT	CACCACCCAAAGAAAG GAAA	CGGTGTGTGTGTGTGT GTGT	60.0	310	DRR	Ca_03771	Z	NAC
Ca4_P2_48733294	Ca4	48733294	ATTTTTTTTTTT/ATTTTTTTTTTT	AGGACCAAAACGTTAC CTGC	AGCGATAATGAAACGG ATGC	60.1	763	INTERGENIC	--	--	--
Ca4_P2_48743012	Ca4	48743012	AAATAA/AAATAATAA	GTGCCACCTATCCTCC AGAA	TATGCGGTCAATTCCT TCC	59.9	520	INTRON	Ca_23023	--	FAR1
Ca4_P2_4875193	Ca4	4875193	TAAAAAAA/TAAAAAA	TGCAAGCAAGAAACATT TGC	GCGTGAATTTTGTGAA CCTG	60.5	813	INTERGENIC	--	--	--
Ca4_P2_4875484	Ca4	4875484	GC/G	AGCCTATGGCTTGGCC TATT	GCCTAAGCTTGACTTG TGCC	60.0	687	INTERGENIC	--	--	--
Ca4_P2_48756667	Ca4	48756667	TAA/TAAA	GAAAAGGGAAATTAAAT CAAAAGGA	TTTCTATTCTGCACAG GGC	60.4	473	INTRON	Ca_23023	--	FAR1
Ca4_P2_48758212	Ca4	48758212	CTTTTT/CTTTTTT	ATATTGTGGACCGAT GGAA	AAAAGAATTGAGAAAGA CGAAACA	58.5	895	INTRON	Ca_23023	--	FAR1

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_48758524	Ca4	48758524	TAAAAAAA/TAAAAAAA	TGCCATATAACAAAGA CAGGTG	AAGCGACTAACATGATT TTCCA	58.8	711	INTRON	Ca_23023	--	FAR1
Ca4_P2_48758881	Ca4	48758881	TAAAAAAA/TAAAAAAA	CATGGAAATCATGTTA GTCGC	TTATGCAGCATGTCTCA CGTC	59.9	462	INTRON	Ca_23023	--	FAR1
Ca4_P2_48759068	Ca4	48759068	TAAA/TAA	CATGGAAATCATGTTA GTCGC	TTATGCAGCATGTCTCA CGTC	59.9	462	INTRON	Ca_23023	--	FAR1
Ca4_P2_48766746	Ca4	48766746	TAAA/TAAAAA	ATATCCAGCCGTGTTTG CAT	TTCTCCCCACCACTAAC TCG	60.1	261	INTRON	Ca_23023	--	FAR1
Ca4_P2_48769675	Ca4	48769675	TAAA/TAAAAAAA	TTTCAATGAAGCCTAGT CCG	TTAAGGTCCGCATGA TTGT	60.3	605	INTRON	Ca_23023	--	FAR1
Ca4_P2_48769759	Ca4	48769759	A/AATC	TTTCAATGAAGCCTAGT CCG	TTAAGGTCCGCATGA TTGT	60.3	605	INTRON	Ca_23023	--	FAR1
Ca4_P2_48770140	Ca4	48770140	GTTTTTTT/GTTTTTTT	TTTTGTTCAATCATG CGG	TCTCCAAATGCAACAC TGC	59.8	498	INTRON	Ca_23023	--	FAR1
Ca4_P2_48772293	Ca4	48772293	GCAC/GCACAC	TGGGATTCTGCTCATCC TTC	TGTTTTTCCGTTTTTCCA ACC	59.8	697	DRR	Ca_23023	--	FAR1
Ca4_P2_48772701	Ca4	48772701	AT/A	GTTTGGAACGGA AACA	AAGAAAATCTAACGCC AAGG	57.6	295	DRR	Ca_23023	--	FAR1
Ca4_P2_48772855	Ca4	48772855	T/TA	GTTTGGAACGGA AACA	CATTGGTCGACTAAC AACTCA	60.0	696	DRR	Ca_23023	--	FAR1
Ca4_P2_48775289	Ca4	48775289	TA/TAAAAATTTGTAA	GATGGAGAGGAGACG AACA	CTTCAAATCTGTAGG GCCG	59.7	313	INTERGENIC	--	--	--
Ca4_P2_48780973	Ca4	48780973	AAATAA/AAA	TCGGCATTTCATTGTC TCA	TGTGTACCGACCGATG TTTG	60.4	190	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48781102	Ca4	48781102	TAT/TATGAT	TCGGCATTTCATTGCTCA	TGTGTACCGACCGATGTTTG	60.4	190	INTERGENIC	--	--	--
Ca4_P2_48781270	Ca4	48781270	AG/AGG	CAAACATCGGTCGGTACACA	GGAGGCAGGAAGTAGATGA	60.3	596	INTERGENIC	--	--	--
Ca4_P2_48783103	Ca4	48783103	CTTTTTTTTT/CTTTTTTTTTT	TGGTTGGAAATTTTGAATGC	TACGCATGAGATTTCGCTCA	60.5	245	INTERGENIC	--	--	--
Ca4_P2_48783727	Ca4	48783727	AT/A	TGAGCGAAATCTCATGCGTA	TGAGATGGGAAATATAGTGCTC	59.7	899	INTERGENIC	--	--	--
Ca4_P2_48784802	Ca4	48784802	ATT/AT	CCGGAGGAGGTTGCTAGAAT	ATCTTGGGGTAGTTGATGCG	60.0	419	INTERGENIC	--	--	--
Ca4_P2_48792291	Ca4	48792291	CTTTTTTTTT/CTTTTTTTTTT	AAACTGCGGGTATGAGGATG	TGGATTGATGACATTTGCATT	60.2	572	INTERGENIC	--	--	--
Ca4_P2_48793498	Ca4	48793498	TA/T	ACGGAGAGTTGGGTGTGAC	GTTATTCCACCGCGAGAAAA	60.1	451	INTERGENIC	--	--	--
Ca4_P2_48793555	Ca4	48793555	TTCTCTCTCTCTCTCTC/TTCTCTCTCTCTCTCTCTC	ACGGAGAGTTGGGTGTGAC	GTTATTCCACCGCGAGAAAA	60.1	451	INTERGENIC	--	--	--
Ca4_P2_48794556	Ca4	48794556	CATT/C	TTGAAGATTGTGCTACCGA	TTTATCCCTCCGTCTCAAAA	57.3	392	INTERGENIC	--	--	--
Ca4_P2_48797593	Ca4	48797593	ATTTTT/ATTTTTT	ATATTCAATGCGCCACCAAT	AAACGGTTGCATAAAACGC	60.0	489	INTERGENIC	--	--	--
Ca4_P2_48798808	Ca4	48798808	TTATAT/TTATATAT	AACGAAAGAGAAATGGAATATGAA	ATGCTGCAAAGAACAACGTG	59.9	534	INTERGENIC	--	--	--
Ca4_P2_48798961	Ca4	48798961	ACGTC/AC	AACGAAAGAGAAATGGAATATGAA	ATGCTGCAAAGAACAACGTG	59.9	534	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48799249	Ca4	48799249	TATGTTT/TATGTTTAATGTTT	TGAAATCCGCAGAAAT ATGC	ATGCTGCAAAGAACA CGTG	59.9	246	INTERGENIC	--	--	--
Ca4_P2_48799420	Ca4	48799420	ATTTT/ATTT	CACGTTGTTCTTGCAG CAT	TTGATCAGCACTTGGT GTG	58.2	266	INTERGENIC	--	--	--
Ca4_P2_48809672	Ca4	48809672	GAAAAAA/GAAAAAAA	GCGAGCGAATTAAC TACC	GGGAACATGACTGGT TCGT	59.8	190	INTERGENIC	--	--	--
Ca4_P2_48813549	Ca4	48813549	GTTTTT/GTTTTT	TGCCTTGTGATCCCA TTT	CCCAAAGTCGATGGCT AAAG	59.7	324	INTERGENIC	--	--	--
Ca4_P2_48815632	Ca4	48815632	CTTTTTTTTT/CTTTTTTTTTTTTT	GTGTCATGGTCGACG CTAA	TGTGCAACGTCACCAT TTTT	60.0	569	INTERGENIC	--	--	--
Ca4_P2_48818516	Ca4	48818516	TAAAAAA/TAAAAAAA	CCCGAAAGGCATATGA AAGA	CAACGATGTTGAAAGC CTCA	59.8	218	INTERGENIC	--	--	--
Ca4_P2_48824466	Ca4	48824466	CAAAAAAAAA/CAAAAAAAAA	TTTTGCTCGTTCTGTCA TGG	GAATTTGGGTCCGAAT CTTG	59.4	416	INTERGENIC	--	--	--
Ca4_P2_48824681	Ca4	48824681	ATTTTTTT/ATTTTTTT	TTTTGCTCGTTCTGTCA TGG	GAATTTGGGTCCGAAT CTTG	59.4	416	INTERGENIC	--	--	--
Ca4_P2_48824745	Ca4	48824745	ATTTTTTT/ATTTTTTT	TTTTGCTCGTTCTGTCA TGG	GAATTTGGGTCCGAAT CTTG	59.4	416	INTERGENIC	--	--	--
Ca4_P2_48825853	Ca4	48825853	TTAAAAATAAAA/TTAAAA	GATTGCGACCGGAAGA TTTA	AAAATATCCCATGCCAA TGC	59.6	509	INTERGENIC	--	--	--
Ca4_P2_48827857	Ca4	48827857	ATTTTTTT/ATTTTTTT	TAGTCGGGTGTGGGT AGAG	AGTACGACCAAAACGG TTGC	60.0	837	INTRON	Ca_23025	--	FAR1
Ca4_P2_48831208	Ca4	48831208	GTATATA/GTATATATA	TATTTCCCAAGACCTCG TGC	ATGTGGTGTGTGTGC CTGA	60.0	255	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_48833902	Ca4	48833902	TAAAAAAAAA/TAAAAAAAAA	CGATTTTCCGTGTCGT TTT	GAACACACCAAAAGCT CCGT	60.2	694	DRR	Ca_23026	--	FAR1
Ca4_P2_48833938	Ca4	48833938	GAA/GAAA	CGATTTTCCGTGTCGT TTT	GAACACACCAAAAGCT CCGT	60.2	694	DRR	Ca_23026	--	FAR1
Ca4_P2_48836352	Ca4	48836352	CTTTTT/CTTTTT	ATGGGCTTGCAAGAG AGAG	AAGACGAACCATGAAC CCAA	60.4	446	INTERGENIC	--	--	--
Ca4_P2_4884278	Ca4	4884278	CAAA/CAA	CTCCAGTTTTCTTGCA GCC	CCCCTGATCTTCTTTT TGG	58.6	413	INTRON	Ca_03769	Z	NAC
Ca4_P2_48846764	Ca4	48846764	ACATCATCATCATCA/ACATCATCATCA	GGTAAACGTGTGTTGC ATGG	ACAGCAGTAGCCCTTT GAGC	59.6	715	INTERGENIC	--	--	--
Ca4_P2_48847771	Ca4	48847771	ATTTTT/ATTTTT	GAAATTTGGACGAAAC GGA	GTGTATATACGCGCAC CCAA	59.5	707	INTERGENIC	--	--	--
Ca4_P2_48849335	Ca4	48849335	TATAACAAT/TATAACAATAATAACAAT	TTGGGTGTATAATGATA GCGAAA	GAGGGACTAGCTACCC CGAT	59.6	441	INTERGENIC	--	--	--
Ca4_P2_48850057	Ca4	48850057	GA/GATCA	GCATCAATGAATCAC CAATCA	TGACGATTTATTACG CCAA	58.2	857	INTERGENIC	--	--	--
Ca4_P2_48850821	Ca4	48850821	CTTTTT/CTTTTT	CACCACATAGTAAACT TGGCG	TGGTTAGAGGGTTG ATGTG	59.8	633	INTERGENIC	--	--	--
Ca4_P2_48851253	Ca4	48851253	ATTTTT/ATTTTT	CACATCAACCCCTCA ACCA	TGCTCCTTGTACGGT GGAT	60.5	496	INTERGENIC	--	--	--
Ca4_P2_4888138	Ca4	4888138	CTT/CT	AAAAGCCTCACCAGGG ATCT	TGCCATCTTCTTGCTG TTG	60.0	698	INTRON	Ca_03769	Z	NAC
Ca4_P2_4890840	Ca4	4890840	TTTAGAAGTCTT/TTTAGAAGTCTTAGAA GTCTT	AACGTGATTGACTGCA CCC	TGATGGAACGATACAA GGCA	60.1	459	INTRON	Ca_03769	Z	NAC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_4891133	Ca4	4891133	AG/A	AACTGGATTGACTGCA CCC	TGATGGAACGATACAA GGCA	60.1	459	INTRON	Ca_03769	Z	NAC
Ca4_P2_4891737	Ca4	4891737	AATTATTATTATTATTATT/AATTATTATT ATTATTATTATT	TGCCTTGATCGTTCCA TCA	TTCTGCTTTTTCTTTC CGA	59.9	540	INTRON	Ca_03769	Z	NAC
Ca4_P2_48921723	Ca4	48921723	TTATTA/TTATTACTATTA	AGGATGAAAATAGGCC CGAC	AGCTTACCAAGCAGGC CATA	59.9	606	INTERGENIC	--	--	--
Ca4_P2_4894281	Ca4	4894281	TATATAGATA/TATA	CTCTGTCCTTCAACTTC GGC	AATTCCTTTTACACTTC GCT	60.1	536	DRR	Ca_03768	K	--
Ca4_P2_4894807	Ca4	4894807	TAAAAAA/TAAAAAA	GACTTGGAGCGAAGGT GAAA	GCAATGTTGCGAGAAC AAGA	60.0	705	DRR	Ca_03768	K	--
Ca4_P2_4894873	Ca4	4894873	TAAAAAA/TAAAAAA	GACTTGGAGCGAAGGT GAAA	GCAATGTTGCGAGAAC AAGA	60.0	705	DRR	Ca_03768	K	--
Ca4_P2_4895586	Ca4	4895586	TACACA/TACA	CCAACCGCTAACTGAC CAAT	CGTGGAGGAAGCTCTA GTGG	60.0	559	DRR	Ca_03768	K	--
Ca4_P2_4897344	Ca4	4897344	ATTT/ATTTT	CTCTGCAGCCTTGATTG GTT	ATGGAGATGGGGCTG TGAC	59.8	278	INTRON	Ca_03768	K	--
Ca4_P2_48975370	Ca4	48975370	TGG/TGGG	TGGTTGGGATTTTGG GTTA	GACCCTCTCCTCTCAA TCCC	60.0	672	INTERGENIC	--	--	--
Ca4_P2_48978055	Ca4	48978055	ATTTTTTT/ATTTTTTT	AGGTTTGGATGAATGT GATGG	TCGAACCTTTGTTTGC CAATTA	59.7	311	DRR	Ca_20768	O	--
Ca4_P2_49008742	Ca4	49008742	CTTCTCAATTCTCAATTCTCAATTCTCA ATTCTCAATTCTCAATTCTTCTCAATT CTCAATTCTCAATTCTCAATTCTCAATT CTCAATTCTCAATTCT	GGGACAAAAATGAGGC GTTA	TTTTGATCACGTTCTG CTG	59.8	639	INTERGENIC	--	--	--
Ca4_P2_49053607	Ca4	49053607	AATATATATATATATATATATATATA/A ATATATATATATATATATATATATATA	AGAAAATTGCATTGGC CTG	TGCTATTGTATGGCGC TCTG	60.0	261	INTRON	Ca_20775	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_49073579	Ca4	49073579	GTT/GT	GTGACTTGGAGGGAGT GGAA	ATCCGCTAACCAATCA CAGC	60.1	453	INTERGENIC	--	--	--
Ca4_P2_49074099	Ca4	49074099	ATTTTTTTTT/ATTTTTTTTT	GCTGTGATTGGTTAGC GGAT	CGACGCGGGTTACACA CTA	60.7	694	INTERGENIC	--	--	--
Ca4_P2_49100863	Ca4	49100863	GAAAAAAAA/GAAAAAAAAA	TCATCAAATTCGTAACG CAAA	GGAGGAAGGAGAGAG GGAGA	59.9	542	INTERGENIC	--	--	--
Ca4_P2_49100951	Ca4	49100951	GA/GAAGATA	TCATCAAATTCGTAACG CAAA	GGAGGAAGGAGAGAG GGAGA	59.9	542	INTERGENIC	--	--	--
Ca4_P2_49102686	Ca4	49102686	TTATATATATATATATATATAT/TTA TATATATATATATATATATATATAT AT	TGCCCCCTTTATTGATT GAGA	CAATCGATGCATGCAA ATTA	58.2	243	INTERGENIC	--	--	--
Ca4_P2_49121831	Ca4	49121831	TTATATATATATATAT/TTATATATATA TATATATAT	CCAAAAATCTGCCAAGA ACG	TGGGGTGTAAGTGTG TGGA	59.8	491	INTERGENIC	--	--	--
Ca4_P2_49135046	Ca4	49135046	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTAT/ATATTATTATTATTAT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TATTATT	TATAAAGCGGTTTGGTT CGG	ATCAACACAACATCCAC CCA	59.7	938	INTERGENIC	--	--	--
Ca4_P2_4978107	Ca4	4978107	AAATAAAATAA/AAA	GTCTAATCCCCATTTT GGC	TCTTGTGGTCGTTGCT TGAG	60.0	557	INTRON	Ca_03758	R	--
Ca4_P2_5023916	Ca4	5023916	TTATATATATATATATATATAT/TTATA TATATATATATATATAT	AAAACAGAGGGCAAGG GACT	CCATTGTGGCTCAAC TTTT	60.0	892	INTERGENIC	--	--	--
Ca4_P2_5028595	Ca4	5028595	GTTTTTTTTT/GTTTTTTTTTTT	TGATAAAAGGGGAAA ATCC	CGCATCCCCAGATCTA ACAT	59.9	163	INTERGENIC	--	--	--
Ca4_P2_5038864	Ca4	5038864	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	CCTTAACAGCGGAGAA TCTGA	AAGAGATGGCACAGTG GGAC	60.1	509	INTERGENIC	--	--	--
Ca4_P2_5081255	Ca4	5081255	GATTATTATTATTATTATTATTATTA T/GATTATTATTATTATTATTATTATT ATTAT	CACCAGCAATAGCTTG CTCA	GAAAAACAGGGCTAGC AACG	59.9	711	CDS (large-effect mutations)	Ca_03748	K	Trihelix

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_5093283	Ca4	5093283	CTTTTTTTTT/CTTTTTTTTT	TGCTTTTGAAACCCCT TCC	ACAGACAACCGCATTT TCC	60.0	687	DRR	Ca_03746	S	--
Ca4_P2_5116820	Ca4	5116820	TCAGCAGNNNNNNNNNNCAGCAGG/ TCAGCAGG	GGATAAGGTTGCACCT TCCA	ATGCCAACATTTTGAG GAGC	60.1	143	INTRON	Ca_03742	Q	--
Ca4_P2_5190022	Ca4	5190022	TTATATATATATATATATATATATATA TATATATATATATA/TTATATATATATATA TATATATATATATATATATATA	ATTCAATCATGTTCCCC CAA	TTTATTTGCGCATTGAC CCT	60.5	716	DRR	Ca_03734	E	--
Ca4_P2_5268963	Ca4	5268963	T/T	GCTGCCAGATAAAGTG GGAC	GAGAGTGACGATGGAT GCAA	59.8	229	INTERGENIC	--	--	--
Ca4_P2_5300098	Ca4	5300098	TAAAAAAAAA/TAAAAAAAAA	GGCTGGAGAAAGAATA TGCG	AAAAGGAGTTTGAAG GGGA	59.9	598	INTERGENIC	--	--	--
Ca4_P2_5326448	Ca4	5326448	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT/ TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTAT	TTCTGGTAATTTGTAA ACATGACTG	AGCCTCAGTAGTTTGG GCCT	60.3	642	INTERGENIC	--	--	--
Ca4_P2_533246	Ca4	533246	TAAAAAAAAA/TAAAAAAAAA	TGGTTTGATTTACAAG CCAT	GAGTTAGCCACACCCC TGAA	60.1	493	INTERGENIC	--	--	--
Ca4_P2_5525661	Ca4	5525661	GAAAAAAAAA/GAAAAAAAAA	TATTAGCCAAAAGGGC AGC	TCCATGTGAATATGATG AACCAA	60.1	320	INTERGENIC	--	--	--
Ca4_P2_5570234	Ca4	5570234	CTTTTTTTTT/CTTTTTTTTT	TGATGCATAAGTACAG GTGGG	AAGTTTTTGCTTTAAA TAGTGTCA	57.7	581	INTERGENIC	--	--	--
Ca4_P2_5574077	Ca4	5574077	TC/T	CCTGGTGAAAAACATC GCTT	CCATATGTATACCGGA CGGC	60.1	585	DRR	Ca_03698	K	NF-YC
Ca4_P2_5618500	Ca4	5618500	CTTTTTTTTT/CTTTTTTTTT	AAGAAATCCATTAGATG TTTCCG	ATGGCAAAACATCAGG AACA	59.0	213	INTERGENIC	--	--	--
Ca4_P2_5622020	Ca4	5622020	TCC/TCCC	TTGATGGCGATCGTGT ATGT	ATCCTGGAGGGAGGAA AAGA	60.0	150	INTRON	Ca_03688	V	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_6389441	Ca4	6389441	TT/TTCCTTATGTGGAAT	GCCCCACCTTCAGT TAAA	ATGCTGGCAAATGATG TCAC	59.5	728	DRR	Ca_03602	--	ERF
Ca4_P2_6424106	Ca4	6424106	CAAAAAAAAA/CAAAAAAAAA	GGGACCGAGATTCAT GTGT	GGCCACAAATGTTGG ATCT	59.8	762	INTERGENIC	--	--	--
Ca4_P2_6519306	Ca4	6519306	TAAAAAAAA/TAAAAAAAA	TGTGGAGTGATTTGA GGGA	CCCTCGAAGTTACTAA GCGG	60.3	720	INTERGENIC	--	--	--
Ca4_P2_6538330	Ca4	6538330	ATTTTTTTTTTT/ATTTTTTTTTTT	ATGCGACCTCCTGAAG AAGA	CGACCTAACATACATT TTGCG	59.6	317	INTERGENIC	--	--	--
Ca4_P2_6581955	Ca4	6581955	TAAAAAAAA/TAAAAA	GCACGTGTGTAATGGT GCTC	TCTTGCTCAACGAAAT CCC	60.2	612	INTERGENIC	--	--	--
Ca4_P2_6596665	Ca4	6596665	TAAAAAAAAAAAAA/TAAAAAAAAAAAA	GAGTTCGAAGTATTG GGGC	TTGGGCAAGATAAAAT CCG	59.9	405	INTERGENIC	--	--	--
Ca4_P2_664091	Ca4	664091	TTATATATATATATATATAT/TTATATA TATATATATATATAT	AGGTGGTGGTGTGGA AGAG	TTACGTAAAAACCGAA CAAAA	59.5	550	INTERGENIC	--	--	--
Ca4_P2_6699109	Ca4	6699109	TT/TTCCTGTGAGT	AAGCGAAATGGTTGG ATCA	TGCGTGCATAGGCT ATTTT	59.8	172	CDS (large-effect mutations)	Ca_03576	--	WRKY
Ca4_P2_6703411	Ca4	6703411	GTTATTATTATTATTATTATTATTA/G TTATTATTATTATTATTATTATTATT A	GGGCCTAGTAGGAGT TGCT	TGATTGGTAATGTGGC AAAA	57.5	604	INTERGENIC	--	--	--
Ca4_P2_6768891	Ca4	6768891	TTATATATATATATATATATAT/TTA TATATATATATATATAT	ACAACCCTCTACCAGC CAG	CAGCAACATGCCAAA GAAA	59.8	636	INTERGENIC	--	--	--
Ca4_P2_6772676	Ca4	6772676	TTATATATATATATATATATAT/TTA TATATATATATATATATATATATAT	GGTACTTGAGCCACA TGCT	CCAAGAACAATCCTC CAAA	59.9	895	INTERGENIC	--	--	--
Ca4_P2_6783863	Ca4	6783863	GAAAAAAAA/GAAAAAAAA	TGGACAGAGAAGGGAG GAGA	AGCAAATTTCCAACCA ATG	59.8	435	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_6875620	Ca4	6875620	TGG/TG	GACAGTTTTGTGCAATC CGA	AACCTATACCCGCACA ATGC	59.9	859	INTERGENIC	--	--	--
Ca4_P2_6899661	Ca4	6899661	ATTTTTTT/ATTTTTTT	AACCTTTGCAGAAATTC CGA	AGAAATTGTCCACCAC TCG	59.8	395	INTERGENIC	--	--	--
Ca4_P2_6907181	Ca4	6907181	TTATATATATATATAT/TTATATATATA TATAT	TTTGAATGGCGACTTC CTT	CCAAATGGCAACTTCC AACT	60.0	569	INTERGENIC	--	--	--
Ca4_P2_6907343	Ca4	6907343	TTATATATATATATATAT/TTATATA TATATATATAT	TTTGAATGGCGACTTC CTT	CCAAATGGCAACTTCC AACT	60.0	569	INTERGENIC	--	--	--
Ca4_P2_6965916	Ca4	6965916	AATATATATATATATAT/AATATATATATA TATATAT	TGTTTGGACTGCTTTAC CCC	CCCTCCAAACTAAAATT TTCTCC	59.4	584	INTERGENIC	--	--	--
Ca4_P2_6992675	Ca4	6992675	AAGAGNNNNNNNNNAGAG/AAGAG	ACTTTGCGTGTGATAA CCC	GTTGATTGAGCCAGC AAAT	60.2	266	INTERGENIC	--	--	--
Ca4_P2_7029739	Ca4	7029739	AATATATATATATATATATAT/AATA TATATATATATATATATATATATATAT ATATAT	GCGAAAGTAGTCCCTC CATTT	AATCAAATGCAAGGTG TGCC	60.9	669	INTERGENIC	--	--	--
Ca4_P2_7089091	Ca4	7089091	GA/GAACAAAAGAGATTCACA	CTTTGCATACCCCTCTC GAC	TTGGGAGGATTGGTTT CAAG	59.9	644	INTERGENIC	--	--	--
Ca4_P2_7110091	Ca4	7110091	ACT/ACTCT	GTTGCACTGCAGCATC AAAT	AGAAGACTAGTCGGCG AACG	59.6	513	DRR	Ca_03526	--	--
Ca4_P2_7127718	Ca4	7127718	GAAAAAAAA/GAAAAAAAA	AATTGGACAATACCG GAA	AGGGAAGGGAAGAA GATCA	60.0	580	INTERGENIC	--	--	--
Ca4_P2_724084	Ca4	724084	TTATATATATATATATATATATAT/TT TATATATATATATATATATATATATAT ATATAT	TGCAAGGGAAGTTTTT TCTT	ACGAGCACGATGGGAT AGAG	60.2	559	INTERGENIC	--	--	--
Ca4_P2_7282104	Ca4	7282104	ATATTATTATTATTATTATTATTATT ATT/ATATTATTATTATTATTATTATT TATTATTATTATTA	CCCAACCCAAAAGATG AGA	ACGGGTTATGCCTCAT TTCA	60.3	764	DRR	Ca_03507	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_7326848	Ca4	7326848	GAIAAAAAAAAAA/GAIAAAAAAAAAA	TTGAATGCGTTTTCCTTC	CGGTGGTTTGGTTCA TTCT	59.8	489	DRR	Ca_03504	R	NAC
Ca4_P2_7388463	Ca4	7388463	CAAAAAAAAAA/CAAAAAAAAAA	TTTTCTCTAATCCCGCA CTCA	TGTTGTTGTCAAAACCC TCAA	59.1	565	INTERGENIC	--	--	--
Ca4_P2_7415395	Ca4	7415395	TAA/TA	TTTCTGTCTCACCCCTG ACC	TGTAGGTTTGGACGGT AGGC	60.0	535	INTRON	Ca_03496	F	YABBY
Ca4_P2_7452911	Ca4	7452911	A/ACC	TGCCAACTCGATTGAAC AAG	GCACGCTAAAGCCTG AAAC	60.0	364	INTERGENIC	--	--	--
Ca4_P2_7485052	Ca4	7485052	TC/TCGCTACGGGAAGGCAACC	CGTACACATTCCGACG ATTG	ACAGGGTTAATTGAGG GGGT	59.6	643	INTERGENIC	--	--	--
Ca4_P2_7485913	Ca4	7485913	TTAATAATAATAATAATAATAA/TTAA TAATAATAATAATAATAATAA	ACACGTTTGTGTTGGT CAA	TCATTGACCAAAATTTCC GGT	60.2	270	INTERGENIC	--	--	--
Ca4_P2_7503468	Ca4	7503468	AATATATATATATATATATATATATAT ATATA/AATATATATATATATATATATAT TATATATATATATATATA	TGTCCAAGTTGCAACAC CAT	TAAAGACCTGGAACCC ACGG	60.0	690	INTERGENIC	--	--	--
Ca4_P2_7553868	Ca4	7553868	CAAAAAAAAAA/CAAAAAAAAAA	GGAGGGGTGGGAAGTA AAAA	ATGATGAGATTGAGGA GCGG	60.2	739	INTERGENIC	--	--	--
Ca4_P2_7573692	Ca4	7573692	TTATATATATATATATATATATATA/TT ATATATATATATATATATATA	TTGCAGACGGGACAAC ATAA	AAACCCAACCGGTTCC TAAC	60.1	865	INTERGENIC	--	--	--
Ca4_P2_7620418	Ca4	7620418	GATATATATATAT/GATATATATATATAT	CGATTTTGTGAAGTGC GTC	TCTCATCGCCGACAAA GTAA	59.4	837	INTERGENIC	--	--	--
Ca4_P2_7710147	Ca4	7710147	AATATTATTATATTA/AATATTATTATA TATTATTATATTA	TCGTTACCCCTCTCGTC ATC	ACAGAATGCCTCATTG GTGG	60.9	927	DRR	Ca_03470	R	Nin-like
Ca4_P2_7735241	Ca4	7735241	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATT	AAGGAAACAAGAATG CACA	CATGTCACACCGTCGT TTTT	59.5	492	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_7935584	Ca4	7935584	TAGTGAGTGAGTGAGTGAGTGA/TAGT GAGTGAGTGAGTGAGTGAGTGA	ACACGCATTGTTGGTT GAA	TGCAAAACAATTTGGCAT GAT	59.9	592	INTERGENIC	--	--	--
Ca4_P2_7937193	Ca4	7937193	TAAAAAAAAA/TAAAAAAAAA	GCTCCGGTCAACACA ATTT	GAAAATTGAAAGGCAT GGGA	59.9	403	INTERGENIC	--	--	--
Ca4_P2_7938199	Ca4	7938199	TTTTTATAA/TTTTTATAATTATTTTATAA	TGCAACACACAATTGCA AAA	TGAGGGGTGGAGTTTG GTAG	60.0	532	INTERGENIC	--	--	--
Ca4_P2_7978076	Ca4	7978076	TATCTAAATCTAAAT/TATCTAAATCTAA ATCTAAAT	GCACTCCATGAAACGA CCTT	CCCTTACGTGGTAACA TAACACA	58.9	847	INTERGENIC	--	--	--
Ca4_P2_80132	Ca4	80132	G/GA	CCGTTTGATTGTGAG GACT	TCGTTGAAAGCTGGAG GTCT	60.0	382	INTERGENIC	--	--	--
Ca4_P2_8039801	Ca4	8039801	ATAAAATTAATAAACTAAATTAATAAAAC TAAAA/ATAAAATTAATAAACTAAATTA AAAACTAAATTAATAAACTAAAA	TTCGAAAATTGGATTGC CA	TTTGTGCGAGATAGGT ACGAAA	59.8	267	INTERGENIC	--	--	--
Ca4_P2_8098817	Ca4	8098817	ATTTT/ATTT	CAAATGGGCCTAAAGA GCTG	GCCTCGGGATGTTAG TGTA	60.0	463	DRR	Ca_03422	T	--
Ca4_P2_8115754	Ca4	8115754	CATATATATATATATATATATATA/CA TATATATATATATATATATATA	GCTGCTAGGGATGCTG TTTC	GAATATTGCCAAGGC TTCA	60.0	208	INTRON	Ca_03421	--	M-type
Ca4_P2_8167140	Ca4	8167140	GCC/GC	GGGTGGGTTTAGAGGA CCAT	TTTCTTGAATGGGCAAA ACC	59.9	259	DRR	Ca_08305	V	GRAS
Ca4_P2_8167238	Ca4	8167238	ATCTT/ATCTTCTT	GGGTGGGTTTAGAGGA CCAT	TGAAGCTTTTGCTACA AGGAA	59.2	737	DRR	Ca_08305	V	GRAS
Ca4_P2_8167347	Ca4	8167347	ATATTATTTT/ATATTATTTTATTATT TTTA	GGGTGGGTTTAGAGGA CCAT	TGAAGCTTTTGCTACA AGGAA	59.2	737	DRR	Ca_08305	V	GRAS
Ca4_P2_8169426	Ca4	8169426	GTCGATC/GTC	GACATCCGAAATGGGC TAAA	ATTTCCAAGGTCACGG TTTG	59.8	907	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_8169626	Ca4	8169626	TAAATAAAAA/TAAATAAAAAATAAAA	TATGGCACCTCCAGTT GAAA	TGTTAAATCCTCCAGAC GGC	60.1	858	INTERGENIC	--	--	--
Ca4_P2_8170487	Ca4	8170487	AT/A	GCCGCTCGGAGGATTT AACA	CTGCCAACTCCAAAAG ATACC	58.7	914	INTERGENIC	--	--	--
Ca4_P2_8171316	Ca4	8171316	A/AT	GGTAAATGGGTTTGGG ACCT	GAGCGGAAAGACCAAA TTGA	60.2	337	INTERGENIC	--	--	--
Ca4_P2_8172016	Ca4	8172016	T/TC	CTAGTGTTCGGCAACA AACG	GCCTCAATTGGAGTTT GCTC	59.8	204	INTERGENIC	--	--	--
Ca4_P2_8173292	Ca4	8173292	GT/G	TCCATCACACAATTGAA GGC	TGAATGTATCGCGTTG TTGG	60.5	569	INTERGENIC	--	--	--
Ca4_P2_8178316	Ca4	8178316	TGG/TG	TGTGCTGCTCAACAGG AAAC	TGGGGGACTTAGCCCT CTAT	59.9	550	DRR	Ca_08306	R	SBP
Ca4_P2_8178926	Ca4	8178926	TTCT/TT	CGTCATTGATTGGTGT GGTC	GGCTTGAGCTTCAAGT TTGG	60.0	789	DRR	Ca_08306	R	SBP
Ca4_P2_8183444	Ca4	8183444	TAAAAAAA/TAAAAA	CCTATTGCTATTGCGT GGG	TCTGAGATGTAGCAGT GCGG	60.2	642	INTERGENIC	--	--	--
Ca4_P2_8185470	Ca4	8185470	TAAAAAAA/TAAAAA	TTAGGTGTCAGAGGT TGGG	GAAAACCAGCATGCTT TTTCA	60.1	542	DRR	Ca_08308	T	--
Ca4_P2_8186328	Ca4	8186328	CTATATATATATATA/CTATATATATATA	TGCTTTTCATTGCGAGA ATCC	TTTCACCTCCTGGTAG ACGG	60.1	626	DRR	Ca_08308	T	--
Ca4_P2_8187730	Ca4	8187730	TCC/TC	CTAAGCCGAGCAGAAG CAAT	TCCCTTTAATGCAAAG GTGG	59.9	499	INTRON	Ca_08308	T	--
Ca4_P2_8193266	Ca4	8193266	TAAAAAAA/TAAAAA	GCATCTCTCCAAGATGT CTGC	TGGGAATTGGGAGCTA TCAG	60.0	620	DRR	Ca_08309	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8204633	Ca4	8204633	CAAAAAAAAA/AAAAAAAAA	ATTCTCTGGCAGCCATT TTG	ATTGCTCACGGAGGAT TTTG	60.1	506	INTRON	Ca_08310	T	MYB_related
Ca4_P2_8205973	Ca4	8205973	ATCTT/ATCTTCTT	CGTGTCCAACATCAAA ACG	TTCCAAAGAACCTACG GTGG	60.0	378	CDS (large-effect mutations)	Ca_08310	T	MYB_related
Ca4_P2_8206232	Ca4	8206232	GTATA/GTATACTATA	CAAGGGGTGAAGTTG CATT	TTGAAGCCACCCTCTG ATCT	59.8	763	INTERGENIC	--	--	--
Ca4_P2_8207569	Ca4	8207569	ATTTTTTTT/ATTTTTTT	CTCGTGTCTTTGTGCGT TGT	TCTCTCTATCTCAGCGT CACTTT	57.5	549	INTERGENIC	--	--	--
Ca4_P2_8209784	Ca4	8209784	TAA/TA	TGAACCAAGTGTCTCT CTGTGA	GGGCCTCTCTCTCTTG GTCT	60.0	480	INTERGENIC	--	--	--
Ca4_P2_8209835	Ca4	8209835	CTTTTTTTT/CTTTTTTT	AGACCAAGAGAGAGAG GCCC	GGGTTTGGTTTGTGCG TAGT	59.9	306	INTERGENIC	--	--	--
Ca4_P2_8210006	Ca4	8210006	AGTGTAT/A	AGACCAAGAGAGAGAG GCCC	GGGTTTGGTTTGTGCG TAGT	59.9	306	INTERGENIC	--	--	--
Ca4_P2_8210730	Ca4	8210730	TCC/TC	GGGATACTTGCCCTCA ATCA	TGATGCTATTCATTTG CGG	59.7	814	INTERGENIC	--	--	--
Ca4_P2_8216534	Ca4	8216534	GTT/GTTT	CGAATCCGCTTCGTGTT AAT	CGACCCGCTTAATATG TGGT	59.8	507	INTERGENIC	--	--	--
Ca4_P2_8216693	Ca4	8216693	AG/A	CGAATCCGCTTCGTGTT AAT	CGACCCGCTTAATATG TGGT	59.8	507	INTERGENIC	--	--	--
Ca4_P2_8216710	Ca4	8216710	T/TG	CGAATCCGCTTCGTGTT AAT	CGACCCGCTTAATATG TGGT	59.8	507	INTERGENIC	--	--	--
Ca4_P2_8220440	Ca4	8220440	AAATTATTT/AAATTATTTAATTATTT	CGGTGAAGCAACGTAG AACA	ACAGTTTTGGGTGCAA AAGG	60.0	688	DRR	Ca_08312	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8222692	Ca4	8222692	A/AC	TTCTGTCTTTGTTGTG CGG	TGCTAAGGATTATGCA GGGG	60.1	483	INTRON	Ca_08312	--	--
Ca4_P2_8223032	Ca4	8223032	GAAAAAAAA/GAAAAAAAA	CAACCTTTGGTGTGG CTTT	ACGCGATAATCCAATC GAAC	59.9	252	INTRON	Ca_08312	--	--
Ca4_P2_8226617	Ca4	8226617	TG/T	TATATGTGTTGCTGTGG GGG	GTACACCAAGGCGATT CGAT	60.0	969	INTERGENIC	--	--	--
Ca4_P2_8239012	Ca4	8239012	CTTTT/CTTT	TTCTCGATCCACAAAA CAAAA	CAACCTCCTCAAATTG GACA	58.5	636	INTERGENIC	--	--	--
Ca4_P2_8239816	Ca4	8239816	CTTTTTTTTTTT/CTTTTTTTTTTT	TGTCCAATTGAGGAG GTTG	CTTAACCTCATCCCAAC CCA	59.8	866	INTERGENIC	--	--	--
Ca4_P2_8250229	Ca4	8250229	TATTAGAAAA/TA	TTCCAGCATAACAATG CCA	CCATGCTTCACGCCTA AAAT	60.1	354	INTRON	Ca_08315	S	--
Ca4_P2_8265225	Ca4	8265225	ACT/A	TGAGAAAAACCAGAGAA AAGGG	TTGTAGCGTGCCTTA CACG	59.9	229	INTRON	Ca_08315	S	--
Ca4_P2_8266891	Ca4	8266891	TGGGGGGGGG/TGGGGGGGG	CCATTGAGGAAGGCAT TGTT	AGCCAGTTCAGGCTAC TCCA	60.0	742	INTRON	Ca_08315	S	--
Ca4_P2_8271274	Ca4	8271274	TAAAAAAAA/TAAAAAAAAA	ATTCAACGGGCCTATAC GGT	TTAGTGGGTACGTTG CGGA	60.2	794	INTRON	Ca_08315	S	--
Ca4_P2_8274882	Ca4	8274882	ATTTTTTTTT/ATTTTTTTTTTT	CGAAGGATGGCTAATT CCAA	CCATTCATCCCCTCTCA TGT	59.7	239	INTRON	Ca_08315	S	--
Ca4_P2_8280329	Ca4	8280329	GTTTT/GTTT	GATGGCGGGTAAGGT AGTT	AACCGAGAGTTGAGAG TTGG	59.1	277	INTERGENIC	--	--	--
Ca4_P2_8281328	Ca4	8281328	C/CCTA	TTGGTGTCAATCGCCTT TTT	CAATCGCAAGGATAAT GGCT	60.1	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8289104	Ca4	8289104	CAA/CA	GCGGGGTTCAAATCCT AAAT	ATAGACGCCCCAAGGT ATCC	60.2	355	DRR	Ca_08316	--	NAC
Ca4_P2_8292742	Ca4	8292742	GATA/GATATATA	AGAGAAAGGGACGAGC ATCA	AGGCATTTTCGTGACG AGTT	59.7	649	DRR	Ca_08317	--	--
Ca4_P2_8293335	Ca4	8293335	AT/AATT	CAATGGTTTGTCTTTG GCT	TTCTCGAATGCGAAGA GTCA	59.7	492	INTERGENIC	--	--	--
Ca4_P2_8295749	Ca4	8295749	ATTTTATT/ATTTTATTATTTTATT	TCAACCCTCATTCAACG ACA	CCTGCGACAATCTGAA GGAT	60.2	840	INTERGENIC	--	--	--
Ca4_P2_8301399	Ca4	8301399	GCAACCTAATGTTCAACCTAA/GCAACCTAA	CACAATGATGTTTGGTT CGG	AGGGGTGTTTACGCAT TGAG	60.0	483	DRR	Ca_08318	S	--
Ca4_P2_8302062	Ca4	8302062	GAAAAAAA/GAAAAAAA	TTTGAAGAATGCCTCCT GCT	TTTCGAGCCCCAGTTA TTTG	60.1	490	DRR	Ca_08319	S	--
Ca4_P2_8305998	Ca4	8305998	GAAA/GAA	CATCATGCAGTCGCCT CTAA	ACCACATCTGCCATCA ATCA	59.9	510	INTRON	Ca_08319	S	--
Ca4_P2_8306394	Ca4	8306394	TCA/T	TTCCGAAAAACAGAAAT CCG	ATTCCCCCGAGAGTGA GATT	59.9	221	INTRON	Ca_08319	S	--
Ca4_P2_8308503	Ca4	8308503	GTTTTTT/GTTTTT	TAACAGGTGAGGGCAT GTCA	TATGCAAAACCAATTGA CCA	59.8	321	INTERGENIC	--	--	--
Ca4_P2_8308551	Ca4	8308551	TAA/TAAA	TAACAGGTGAGGGCAT GTCA	TATGCAAAACCAATTGA CCA	59.8	321	INTERGENIC	--	--	--
Ca4_P2_8309234	Ca4	8309234	TCAACACAA/TCAACACAACACAA	GAATTTAAGAGGAAGG CGATGA	TTCACCTAATTCGTAG GCG	60.1	450	INTERGENIC	--	--	--
Ca4_P2_8310925	Ca4	8310925	CAAAAA/CAAAAA	CATGTGTGGGACTCTTT GGA	CTCAACACGGTTCTGC TCTG	59.6	764	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8313290	Ca4	8313290	ATTG/ATTGTTGTG	GGGTCACAGGACAAG GTAA	CACAACAACCAAGTCCA CCAG	60.0	154	INTERGENIC	--	--	--
Ca4_P2_8313629	Ca4	8313629	ATTTTTTTTTTT/ATTTTTTTTTTT	CTGGTGGACTGGTGT TGTG	GGCAGACAGGAGAGG GAGTA	59.4	563	INTERGENIC	--	--	--
Ca4_P2_8315933	Ca4	8315933	CTT/CTTATT	GGACCCGTGATGCTGT TTAT	TCTCGGTTGATGTCATT ATGCT	59.6	586	INTERGENIC	--	--	--
Ca4_P2_8316304	Ca4	8316304	GTTTTTTT/GTTTTTTTTT	GCATAATGACATCAACC GAGAG	AAAAGAAATGGTGTGT CTCGTTC	59.9	235	INTERGENIC	--	--	--
Ca4_P2_8316722	Ca4	8316722	ACTCT/ACT	GAACGAGAAACAACCAT TTCTTTT	CACGAGTGACACGCCA TTTA	60.7	583	INTERGENIC	--	--	--
Ca4_P2_8317111	Ca4	8317111	CTTT/CTTTT	TCGTGCGCACAGATTT TT	TGATTCGTGCAGGGAT GATA	60.0	478	INTERGENIC	--	--	--
Ca4_P2_8318549	Ca4	8318549	GAAAAAAAA/GAAAAAAAAA	AACGGAAGTTGAGTTTA ACGGA	TAAAGGACCAAGTCGG GAAA	59.5	302	INTERGENIC	--	--	--
Ca4_P2_8319379	Ca4	8319379	ATTTTTTT/ATTTTTTT	TTGCGTTATTTTGTCA CCG	TTATATGGATGGGGC AAAG	59.6	782	INTERGENIC	--	--	--
Ca4_P2_8319710	Ca4	8319710	TC/T	GGGTTGAATTGAAGG ATTCCA	AGGCTGAAGACTTCGA CGAG	59.7	516	INTERGENIC	--	--	--
Ca4_P2_8325707	Ca4	8325707	TA/T	ACGGGGCTGTTACTTTA CCC	TTCTCAATGGGTGCGT ACAA	60.1	739	INTERGENIC	--	--	--
Ca4_P2_8325805	Ca4	8325805	TAAAAAAAA/TAAAAAAAAA	TTTTTGGTGGTAGGG AGAA	TTCTCAATGGGTGCGT ACAA	60.1	357	INTERGENIC	--	--	--
Ca4_P2_8326056	Ca4	8326056	AT/ATT	TGTACGCACCCATTGA GAAA	TAATGGCTGGTTTCGT TTGG	60.9	547	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8330553	Ca4	8330553	CAAA/CA	CCACCATGAATTTGCCT CTT	GGTTGAGCTGGGACAC CTAA	60.1	629	DRR	Ca_08320	--	--
Ca4_P2_8333443	Ca4	8333443	GCTTCTTC/GCTTC	TCAAAGGTGATCATGG ATGG	ACCCTTGCCAAACAC TACG	60.0	593	INTERGENIC	--	--	--
Ca4_P2_8334346	Ca4	8334346	TCACTATATTAACTATATTAAC/TCAC TATATTAAC	AAGTTTGCGGTGATGT GTGA	CAGCGTTATTACAAATG CCGT	60.0	438	INTERGENIC	--	--	--
Ca4_P2_8339338	Ca4	8339338	CAA/CA	AAAACTGCCGCAAAAG CTA	GTTTGAAGATGGCGAT GGTT	59.9	641	INTRON	Ca_08321	--	--
Ca4_P2_8341783	Ca4	8341783	GAAAAA/GAAAAA	TGATCAAATCCCAAGA AGC	TTCCTTGACTGTTGCT GGTG	59.9	235	INTRON	Ca_08321	--	--
Ca4_P2_8342083	Ca4	8342083	AATCATCAT/AATCAT	TGATCAAATCCCAAGA AGC	CCAATCTCTTCTGCTCC CCT	60.7	951	INTRON	Ca_08321	--	--
Ca4_P2_8342865	Ca4	8342865	TAAG/TTAAGAAG	GAGCTTCAACCAAG CACA	GCTTTTGAGCAACTC GTCC	60.0	691	CDS (FRAME SHIFT)	Ca_08321	--	--
Ca4_P2_8344016	Ca4	8344016	CTT/CTTT	TAAGAATTTCCGCATCC CTG	CCTTTCACCTGTTCTGC TCC	60.0	336	INTRON	Ca_08321	--	--
Ca4_P2_8344606	Ca4	8344606	TAAAAAA/TAAAAAA	GAGCAGAACGAGTGAA AGGG	CTCCTTCGCATTTCTGC TTC	60.0	545	DRR	Ca_08322	--	--
Ca4_P2_8345607	Ca4	8345607	T/TC	GTGCACGTGTAGACAG ACTCC	AGGAGGTGCATCGAGG TATG	60.1	346	DRR	Ca_08322	--	--
Ca4_P2_8351185	Ca4	8351185	TAAAAAA/TAAAAAA	ATTTTCGGTTTCCCTTC CAC	CGATTTCCCTTGGTCC AAAT	61.0	960	DRR	Ca_08323	--	--
Ca4_P2_8351374	Ca4	8351374	GACACACA/GACACACACA	TTTACCTCCTCAGAAGA TCATTTTT	CTCCAAATCCAAATCAC ACG	59.0	663	DRR	Ca_08323	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8351455	Ca4	8351455	GAAAAAA/GAAAAAA	TTTACCTCTCAGAAG TCATTTT	GCAGATTGGCATTGAT GTTG	60.1	831	DRR	Ca_08323	--	--
Ca4_P2_8353312	Ca4	8353312	AAT/AATAT	GAAAAATGGGGTCAAG GGAT	GAGAGAAAGGCTGCA CCAC	60.0	487	INTRON	Ca_08323	--	--
Ca4_P2_8353870	Ca4	8353870	CATAAAATAAAATAAA/CATAA ATAAAATAAA	GTGGTTGCAGCCTTTC TCTC	CAGCGCAATGAACTCA AAAA	60.0	719	INTRON	Ca_08323	--	--
Ca4_P2_8354793	Ca4	8354793	AATATAT/AATAT	CGGGGAAATTCAAAAC CAA	GGAGCAGTTGTCCCAT TTGT	60.0	939	DRR	Ca_08324	T	bZIP
Ca4_P2_8357483	Ca4	8357483	CTATA/CTATATA	GCGATGCCAAATGAGA AAAT	AACCTGGGTGATCCTG AACG	60.0	559	INTRON	Ca_08324	T	bZIP
Ca4_P2_8362154	Ca4	8362154	AC/ACC	TTGCGCATATGTGGCAGT CTC	CAACGATCGCTTCTCA AACA	60.0	694	INTERGENIC	--	--	--
Ca4_P2_8362831	Ca4	8362831	TT/TTAT	AGGTTGCAACGGATAT GTCG	CCATGTGCAACCTAG GAAAA	60.0	749	INTERGENIC	--	--	--
Ca4_P2_8364920	Ca4	8364920	GT/GTTGCTACTGTTTGCT	GCTGGAACCTGTTTAC GAGG	TTAGCATGCATTGGGA AACA	60.1	378	INTERGENIC	--	--	--
Ca4_P2_8368866	Ca4	8368866	CATATATATATATATATATA/CATATA TATATATATATA	TCCTGCGACTCAGTTTT CCT	GCCGAAGAGAATGGTT CTTG	59.8	848	INTRON	Ca_08325	--	--
Ca4_P2_8372871	Ca4	8372871	T/TG	TCTTTTTCTGCCCCACT AGC	CAGCTGAGTTGTGAGG TCCA	60.0	150	INTERGENIC	--	--	--
Ca4_P2_8372994	Ca4	8372994	AAGATTA/AA	GGCAAAATGGACCTCA CAAC	CCAATGCCACTTTATG CTCA	59.7	323	INTERGENIC	--	--	--
Ca4_P2_8373181	Ca4	8373181	TACA/TACACA	GGCAAAATGGACCTCA CAAC	GGAGAGTCGGTCTTTG TGGA	60.2	706	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	Indels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8373461	Ca4	8373461	AAC/AACCAC	TGAGCATAAAGTGGA TTGG	GTCGGTCTTTGTGGAG AGGA	60.2	398	INTERGENIC	--	--	--
Ca4_P2_8376439	Ca4	8376439	TA/TAA	GATTCTCTCAATTCGG CCA	TGCGATTGATTTCAGTT TTTG	58.8	373	INTERGENIC	--	--	--
Ca4_P2_8377254	Ca4	8377254	ATTTTTTTTT/ATTTTTTTTTTTT	CCACATATATCTGCCCA ACC	TGACTGTGTGCACTGA AACA	58.9	563	DRR	Ca_08327	KL	--
Ca4_P2_8377411	Ca4	8377411	AT/ATATATATATT	TAGTGTACGTGTTGG GGCA	GGGTGAGACTGAAGCT GGTC	59.8	949	DRR	Ca_08327	KL	--
Ca4_P2_8377585	Ca4	8377585	ATTT/ATT	TTCGTCCATTTGAATCC TGA	CCTGCAAGCACTTACG ACAA	60.1	891	DRR	Ca_08327	KL	--
Ca4_P2_8381452	Ca4	8381452	TAAAAAA/TAAAAAAA	CAATCCGTTAAGGACCT GGA	GATGATTCCTTGCTG GAAA	60.0	388	INTRON	Ca_08327	KL	--
Ca4_P2_8384923	Ca4	8384923	AGGGGGG/AGGGGG	GCCGCAATAGTGTTTT GGT	GCGTATCGGTTGGAAT TGTT	59.8	807	INTRON	Ca_08327	KL	--
Ca4_P2_8396183	Ca4	8396183	T/TG	TTTACAACACATTGCGC ACC	CGTTTATTGACGGAAG GCAT	60.0	681	DRR	Ca_08329	O	B3
Ca4_P2_8396449	Ca4	8396449	GAAAAA/GAAAAA	CGAGCAATGCTCAAG TGAA	CGTTTATTGACGGAAG GCAT	60.0	325	DRR	Ca_08328	R	AP2
Ca4_P2_8397091	Ca4	8397091	CTT/CT	CATCTTACCTGGCTGCA TCA	AAATGCTGGAGTTGAG GGTG	60.1	547	DRR	Ca_08328	R	AP2
Ca4_P2_8400811	Ca4	8400811	GAATTACTAAT/GAATTACTAATTACTAA T	CTTAAGCATCAAAGCCG GAG	CCTCAATTGCCACCA AACT	60.0	469	INTRON	Ca_08329	O	B3
Ca4_P2_8405694	Ca4	8405694	TAA/TAA	GACCAGATTTCCGGTTT TCA	AACAAGCTTCGTGCTG GAAT	59.9	175	INTRON	Ca_08330	O	B3

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8409923	Ca4	8409923	AAGAG/AAG	CGCATCAATACGACGA ACAA	ACCACCACTTTGTAGC CACC	59.9	509	INTERGENIC	--	--	--
Ca4_P2_8413764	Ca4	8413764	TA/T	AATGGTGAACAAGGAG CAGG	TCAAATATTAACCTCAA GCGCA	59.8	714	INTERGENIC	--	--	--
Ca4_P2_8414127	Ca4	8414127	CAAAAAAAAA/CAAAAAAAAA	TACACGTTCCGGCACAT CTTG	ATGCACATGTTTCTGA CCAA	60.0	761	INTERGENIC	--	--	--
Ca4_P2_8415253	Ca4	8415253	GAAAAAAAA/GAAAAAAAAA	CACCTGCACCGCTAAG TTTT	TTGTTGAACACCCACAT GCT	60.0	274	INTERGENIC	--	--	--
Ca4_P2_8415318	Ca4	8415318	AG/AGGG	ACTTTGCCACCTCATCT GCT	TTGTTGAACACCCACAT GCT	60.0	221	INTERGENIC	--	--	--
Ca4_P2_8417735	Ca4	8417735	ATTTTT/ATTTT	CACAGGGGAATAAGGT TGGA	ACAAGAGGCGGAGACA GGTA	59.9	862	DRR	Ca_08331	--	ERF
Ca4_P2_8420231	Ca4	8420231	TATATAATGGA/T	AAAATTTGTTAAACCCC GCA	CACCTCGATTGTGTCA CTCAAAA	60.2	735	DRR	Ca_08333	--	--
Ca4_P2_8422191	Ca4	8422191	GAA/GAA	AAGACGGATGCATTTTG CTC	GACACATGCCCACTG AATG	60.0	841	INTERGENIC	--	--	--
Ca4_P2_8423641	Ca4	8423641	TTAT/TTATAT	ACCATGTCCCATTTTT CAA	TTCGTCTCTAAGTGTG GCG	59.9	719	INTERGENIC	--	--	--
Ca4_P2_8424598	Ca4	8424598	GA/G	GGCACCTGCTTTCAAAT TGT	TCCAATTGAACCAACCA ACA	59.8	463	INTERGENIC	--	--	--
Ca4_P2_8424635	Ca4	8424635	ATGT/ATGTAGTGT	GGCACCTGCTTTCAAAT TGT	TCCTCTTCTCTTACTC CTCCA	59.5	514	INTERGENIC	--	--	--
Ca4_P2_8428271	Ca4	8428271	TGATG/T	CATCTCGCCTTATCTCT CCG	GAACATTTGTGAATGG CACG	60.0	468	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8430074	Ca4	8430074	AAT/AATAT	TTTTGGCATGAAAAGG GAC	GAAATTACCGCTTGA CCGA	60.1	772	DRR	Ca_08334	--	--
Ca4_P2_8432657	Ca4	8432657	CATATA/CATA	TTTTGTGTTGCCTTT CCC	CATCTCATGAACCGAC CCTT	59.9	479	INTRON	Ca_08335	R	--
Ca4_P2_8441953	Ca4	8441953	GTTTGTG/GTTTGTATTTTGTG	AGCAGGAGAGCTGAGA TTGG	TACTGTGTATCGGGGC AACA	60.0	731	INTRON	Ca_08335	R	--
Ca4_P2_8448227	Ca4	8448227	CTTTT/CTTT	CTAGCTCTCCATCCAC AGC	TCCGAACATAATCTATC ACCCA	59.3	633	DRR	Ca_08335	R	--
Ca4_P2_8449229	Ca4	8449229	ATTTTTTTTT/ATTTTTTTTT	TGGAGTTTtagccactt CCA	TCTCGCCAAATATCTAC AATCG	59.2	337	DRR	Ca_08335	R	--
Ca4_P2_8449477	Ca4	8449477	TG/T	TGGAGTTTtagccactt CCA	TCTCGCCAAATATCTAC AATCG	59.2	337	DRR	Ca_08336	--	--
Ca4_P2_8451472	Ca4	8451472	GAA/GAAAA	TCCACTGATTGCTGCT GAC	CAATGGCTGATTACAC ACAC	60.0	384	CDS (FRAME SHIFT)	Ca_08336	--	--
Ca4_P2_8454111	Ca4	8454111	TC/TCC	TTCTTTGGGTCTCCAA CAC	TTATGAGCTTTGGATTG GGC	60.0	631	DRR	Ca_08337	R	MYB
Ca4_P2_8466945	Ca4	8466945	CT/C	AGGACACCAATTGAAT GGC	TGATGATGGTGTGCTT TGGT	60.0	625	INTERGENIC	--	--	--
Ca4_P2_8466970	Ca4	8466970	TTATA/TTA	AGGACACCAATTGAAT GGC	TGATGATGGTGTGCTT TGGT	60.0	625	INTERGENIC	--	--	--
Ca4_P2_8467235	Ca4	8467235	CCATCATCATC/CCATCATCATC	GGCAAGCATTCAATTTC CAT	GGTTGGGATGTTATGT TCGG	60.1	449	INTERGENIC	--	--	--
Ca4_P2_8475153	Ca4	8475153	ATTT/ATT	TGGACCGTACATTTTCG TGA	GTGGTAGCAGAAGGAG CAGG	60.0	829	INTRON	Ca_08339	G	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8478290	Ca4	8478290	A/AT	TTTAGCTTGCCAAACAGCA	CCTTCTCTGTACGTCTCGC	60.0	607	INTRON	Ca_08339	G	--
Ca4_P2_8483100	Ca4	8483100	CTTTTTTTTT/CTTTTTTTTT	ATTTGAGGAGGAGGAGGA	TTTCAAGAGGGCAAT TGAG	60.2	515	DRR	Ca_08340	R	--
Ca4_P2_8488611	Ca4	8488611	CG/CGG	TTCCTTATGAGTTGCAC GGA	TGTTTGGAATCGA ACCA	59.9	252	INTERGENIC	--	--	--
Ca4_P2_8489479	Ca4	8489479	CACATACA/CACA	CCCAAATCACACATG AGC	AGAGTTGTTTCATCTCC AAACG	58.4	415	INTERGENIC	--	--	--
Ca4_P2_8497257	Ca4	8497257	TAAACTGAAGAACT/TAACTGAAGAA ACTGAAGAACT	AGCGTGAGGGAACCT GTGT	GACTGGCAACAGCAAT TTGA	59.8	564	INTRON	Ca_08341	--	CPP
Ca4_P2_8503853	Ca4	8503853	AATTTTATTTT/AATTTTATTTTATTTT	CAGACATTTGAGCCGTT GAA	ACCACTTTTATCATTTG ACTCCA	57.7	421	INTERGENIC	--	--	--
Ca4_P2_8504484	Ca4	8504484	ATTTTTTT/ATTTTTTTTT	TTTGGAGTCAATGATA AAAGTGG	TTTTCGAGTGCCGCTT ACTT	60.0	522	INTERGENIC	--	--	--
Ca4_P2_8505276	Ca4	8505276	CATATATATATATAT/CATATATATAT ATATATATATATATATATAT	ACAATTGTGGGTTGC AAAT	GAAAAGTGGCCCTGTC AAAA	60.1	780	INTERGENIC	--	--	--
Ca4_P2_8509176	Ca4	8509176	CTTTT/CTT	GCCTTCTGGACAAAC GAAG	TCTGCAGTGAAGCAA CATC	60.0	578	INTRON	Ca_08343	YU	--
Ca4_P2_8514326	Ca4	8514326	CTTTT/CTTTTT	TGTCGTGCGTAAGTT TGAC	GAAGCAAAGCTAGGG TGTG	59.9	449	DRR	Ca_08343	YU	--
Ca4_P2_8514652	Ca4	8514652	CTTTTTTTTTTT/CTTTTTTTTT	CACACCCCTAGCTTTG CTTC	CACGAACGCTGTGAA CTTA	59.9	547	DRR	Ca_08343	YU	--
Ca4_P2_8521020	Ca4	8521020	CATA/CATATATA	AATCAACCAATAAAT TCCCA	CACGAAAATGAAAG TTGA	59.7	308	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8522151	Ca4	8522151	TG/T	TGTGATTGTTAGGATGA TGACG	CCAAAACGGGGAGAA ACAA	59.9	288	INTERGENIC	--	--	--
Ca4_P2_8522296	Ca4	8522296	GT/GTT	GCAGTTTGGTCCCC TATT	GCAGTTTGGTCCCC TATT	60.2	328	INTERGENIC	--	--	--
Ca4_P2_8550328	Ca4	8550328	CG/C	GGGGTGACACAAGAG GGAA	AATATAGTGGGTGCA CGGC	59.9	716	INTERGENIC	--	--	--
Ca4_P2_8572936	Ca4	8572936	CTTTTTTTTTTT/CTTTTTTTTTTT	AATTTGAGGGCGAGTG TGTT	GTGTTTCCGCGAGAT CTAT	60.2	533	INTERGENIC	--	--	--
Ca4_P2_8575951	Ca4	8575951	TAAAAAA/TAAAAAAA	TCGGTTTGATTACTCT TTCCA	CGAGAATTCATTATTT TCATTTTCC	60.4	703	INTERGENIC	--	--	--
Ca4_P2_8609841	Ca4	8609841	CTTTTTTTTTTT/CTTTTTTTTTTTTT	GTAGGAAGTCGCCATT TGGA	AACATACGGCGAACT CACA	59.2	612	INTERGENIC	--	--	--
Ca4_P2_8611513	Ca4	8611513	G/GATT	TTGGCCGTTGTGATGT GTAT	TGTGGGAAAGGAATC AAAG	59.9	850	INTERGENIC	--	--	--
Ca4_P2_8611750	Ca4	8611750	AAATAATAATA/AAATAATA	TCAATTCACCTTCGAA CAA	TGTGGGAAAGGAATC AAAG	59.9	534	INTERGENIC	--	--	--
Ca4_P2_8612629	Ca4	8612629	T/TTA	TTTCTTTCTGCTGTCGG CTT	CATGCCATCCACTATG TTGC	60.0	393	INTERGENIC	--	--	--
Ca4_P2_8613273	Ca4	8613273	TAATTAAA/TAA	CCTTTGTTGTATTCAT ATGTCGG	TTTCATTTCAACCAA TGCAC	59.9	807	INTERGENIC	--	--	--
Ca4_P2_8613689	Ca4	8613689	TTTTCT/TT	TGCATTTGGTTGAAAT GAAA	TGGTGGCCTACGAGT AAAG	60.1	374	INTERGENIC	--	--	--
Ca4_P2_8614008	Ca4	8614008	ATTTTTTTTT/ATTTTTTTTTTT	TCATTCCTCAATAACT CCA	AATCCAAAATTAGACGT CAACAA	57.8	384	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8616163	Ca4	8616163	ATTTT/ATTTT	TTCAAAGGCCGTAGG TTTC	TAGTTTGAATGGTCG CACA	60.1	933	INTERGENIC	--	--	--
Ca4_P2_8616425	Ca4	8616425	TAAAA/TAAAA	TCGACACAGCTAGCAA CACA	TAGTTTGAATGGTCG CACA	60.1	581	DRR	Ca_08355	O	--
Ca4_P2_8621480	Ca4	8621480	GAAAAAAAA/GAAAAAAAAA	GTGCATGACCCCTTCT GTT	TGTCAGGCAACAGAAA ACCA	60.3	889	INTERGENIC	--	--	--
Ca4_P2_8622368	Ca4	8622368	ATTTTCTTTT/AT	CAGTCTTTATGGGGCTT CCA	TTCTATGTCTTTGGGT CGG	59.9	542	INTERGENIC	--	--	--
Ca4_P2_8623394	Ca4	8623394	CTAT/CT	CCTTGCATGGTGGTAC TCCT	GTGGACCACACCACAC AAAT	59.1	714	INTERGENIC	--	--	--
Ca4_P2_8625918	Ca4	8625918	ATTTTTTT/ATTTTTT	GGTTTGAATGTCAACAC CCT	TTTTGGAACCTGAACTC CACAC	59.1	293	INTERGENIC	--	--	--
Ca4_P2_8625981	Ca4	8625981	TA/TAA	GGTTTGAATGTCAACAC CCT	TTTTGGAACCTGAACTC CACAC	59.1	293	INTERGENIC	--	--	--
Ca4_P2_8626372	Ca4	8626372	ATTTT/ATTT	TGTGGAGTTCAAGTTCC AAAAG	AAGAATGAAGGGGAGG GAGA	60.0	791	INTERGENIC	--	--	--
Ca4_P2_8633429	Ca4	8633429	A/AT	GCACGAAAAATTGTGA GCAA	ATGGGCATATGGGTCA ATGT	59.9	171	INTERGENIC	--	--	--
Ca4_P2_8633989	Ca4	8633989	CA/CAA	TTCCCAACTCCGTCCAT TTA	TTGATCAAACGCGCAA ATTA	60.2	271	INTERGENIC	--	--	--
Ca4_P2_8634285	Ca4	8634285	ATTTTTT/ATTTTTT	TTCCCAACTCCGTCCAT TTA	AAGGTGATGGTGCTC TCAG	60.3	713	INTERGENIC	--	--	--
Ca4_P2_8635388	Ca4	8635388	TAAAAAAA/TAAAAAAA	TTCTGAACTCGTCCCA TGA	CATGAACAATGTTTGCA TTTG	57.6	658	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_8639881	Ca4	8639881	TA/TACAA	ACTCCCTCAATGGCAAC ATC	ACACCACGAACGCAAC AATA	60.0	652	DRR	Ca_08357	--	--
Ca4_P2_8641169	Ca4	8641169	TAAA/TAAA	TAGGTCAATGCAAACCC CAT	TGGAGTCCCAATCAC CAAT	60.2	197	DRR	Ca_08357	--	--
Ca4_P2_8643488	Ca4	8643488	ATTTTT/ATTTTT	TGCAACGAAGCATGTG ATTT	CGTTCGGTATGCTATA TTCTCA	59.1	650	INTERGENIC	--	--	--
Ca4_P2_8647825	Ca4	8647825	CAA/CA	AATGGCTTCGCTATTGC CTA	AAGGACTGCGAACCTC AAAA	59.9	734	INTRON	Ca_08358	--	G2-like
Ca4_P2_8650892	Ca4	8650892	AATATA/AATATATA	TTTAAATTGAATGTGT CGCGT	ACCACACATGATTCTG CCA	60.0	785	INTERGENIC	--	--	--
Ca4_P2_8657818	Ca4	8657818	TAAAAAAA/TAAAAAAA	GCACAGTGCTTAGACC CACA	CACAGCATACCCAAC ACTG	60.0	448	INTERGENIC	--	--	--
Ca4_P2_8666114	Ca4	8666114	GAAAAA/GAAAAA	AAAAGATTCCGACGAG GGAT	GGGTATCGTAGCCGTT CAAA	60.0	613	DRR	Ca_08361	T	C3H
Ca4_P2_8666608	Ca4	8666608	T/TCCTC	CCAATTTCTGATGCAAA CGA	GCAAGGAGCACTTTC TGTC	60.0	712	DRR	Ca_08361	T	C3H
Ca4_P2_8670711	Ca4	8670711	TTGATGATGATGATGA/TTGATGATGAT GA	TCTTGGTGTGTTTGTC CCA	GAGCATGGCTGACATA GCAA	60.0	862	CDS (large-effect mutations)	Ca_08361	T	C3H
Ca4_P2_8688751	Ca4	8688751	AACA/AA	AGGACCCACAACATCC ACAT	ACCAATCCATGCACGC TACT	60.5	505	INTERGENIC	--	--	--
Ca4_P2_8689007	Ca4	8689007	A/AT	AGGACCCACAACATCC ACAT	ACCAATCCATGCACGC TACT	60.5	505	INTERGENIC	--	--	--
Ca4_P2_8689137	Ca4	8689137	ATTTTT/ATTTTT	CCCATCTGGGTGAAG AAAG	GGTGGTTTAGACGAAT AGAGACG	59.2	670	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca4_P2_8689670	Ca4	8689670	A/ATCTC	TGCAAATTTGGTGAAAA CAGA	TGTCACATTTGCAGAA GAAAAA	58.5	300	INTERGENIC	--	--	--
Ca4_P2_8690776	Ca4	8690776	T/TAA	TTTAATTGCGAGGGAGT AAAAA	GGTGTTTTGATGCGAA GTGA	59.7	335	INTERGENIC	--	--	--
Ca4_P2_8690790	Ca4	8690790	GAAAAAAA/GAAAAAAA	TTTAATTGCGAGGGAGT AAAAA	GGTGTTTTGATGCGAA GTGA	59.7	335	INTERGENIC	--	--	--
Ca4_P2_8691223	Ca4	8691223	ACCC/ACCCC	CACGCATGCATGTTCTT TCT	CAGAGTCCAGACACAC CGAA	59.9	668	INTRON	Ca_08365	G	--
Ca4_P2_8693729	Ca4	8693729	TT/TTCT	ATTTTCAGTTTGCTGGG GTTG	GATGGAAGGATGGCAC AAAT	59.8	414	INTRON	Ca_08365	G	--
Ca4_P2_8698891	Ca4	8698891	AAGAGTAGTAGAGTAGT/AAGAGTAGT	AAGCTGGCCACTGTAA GCAT	TCACAATCTCGACAAC CCAA	60.1	246	INTRON	Ca_08365	G	--
Ca4_P2_8701352	Ca4	8701352	ATTTTTTT/ATTTTT	TTACGACTTTGAATGCC ACG	TGTTTCGCAATTTAGG GGAG	60.1	503	DRR	Ca_08365	G	--
Ca4_P2_8704241	Ca4	8704241	G/GC	TTTGTACCCAACAGGG CATT	ATGCATGCGTTGACAA TGTT	60.0	569	DRR	Ca_08366	J	NAC
Ca4_P2_8704735	Ca4	8704735	CTTTTTTTTT/CTTTTTTTT	CTCCAACATTGTCAACG CAT	TGAATTTGCTCCACCAT TGA	60.0	249	DRR	Ca_08366	J	NAC
Ca4_P2_8705159	Ca4	8705159	GTT/GTTT	TCAATGGTGAGCAAA TTCA	GGTTCCTTCCCAAT TTAG	59.6	399	DRR	Ca_08366	J	NAC
Ca4_P2_8705383	Ca4	8705383	CTTTTTTTTT/CTTTTTTTT	CTAAATGGGGAAGGG AACC	TTATGCCGTTACCAACA ACG	59.5	695	INTERGENIC	--	--	--
Ca4_P2_8706020	Ca4	8706020	GTAATAAATAAT/GTAATAAATAAATAAT AAT	TAACGTTGTTGGTAACG GCA	GACTGCACCTGCGACT ATCA	60.0	451	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFS
Ca4_P2_8707105	Ca4	8707105	AAAT/A	CGAGAGGTATTTATGCT TCACTG	ATCTCTCCGACCATGT GGAA	60.5	712	INTERGENIC	--	--	--
Ca4_P2_8708587	Ca4	8708587	TAAAAAA/TAAAAAA	GCTAAAAATTAGCGACT GGCA	CGGAATCTGCGGTGAT CTAT	60.1	767	INTERGENIC	--	--	--
Ca4_P2_8709656	Ca4	8709656	CAAAAAA/CAAAAAAA	AATTTGTGGTGGGCA TAAA	TGCATTGAGAGAATCA CCAACT	59.7	701	INTERGENIC	--	--	--
Ca4_P2_8709676	Ca4	8709676	TG/T	AATTTGTGGTGGGCA TAAA	TGCATTGAGAGAATCA CCAACT	59.7	701	INTERGENIC	--	--	--
Ca4_P2_8710046	Ca4	8710046	ATTTTT/ATTTTTT	GAGTTGGTGATTCTCTC AATGC	TTGCAAAACATTGATAC TTTTGGT	59.8	269	INTERGENIC	--	--	--
Ca4_P2_8713161	Ca4	8713161	ATTTTTTTTTTTTT/ATTTTTTTTTTT	ACCAGCTTTGGTGATT GTC	CCCCTTTTGCCTCTCTT TCT	59.8	350	DRR	Ca_08367	R	C2H2
Ca4_P2_8719635	Ca4	8719635	ATTTTTTTT/ATTTTTTT	TCCTTGTGGATTAGGC CTTG	TTTGAATTCTCCATCA GCC	60.0	330	INTRON	Ca_08368	Q	--
Ca4_P2_8720115	Ca4	8720115	TAAA/TA	GGCTGATGGAGAATTC CAAA	ACCAAAGACCAGATTG GCAC	60.0	860	INTRON	Ca_08368	Q	--
Ca4_P2_8720139	Ca4	8720139	AAAGT/AAAGTTTAAGT	GGCTGATGGAGAATTC CAAA	ACCAAAGACCAGATTG GCAC	60.0	860	INTRON	Ca_08368	Q	--
Ca4_P2_8723451	Ca4	8723451	CAT/CATTAT	AGAATGGTTGAGGGTC GTTG	AGCAGGTGCCCTGAGA CTAA	60.0	750	INTERGENIC	--	--	--
Ca4_P2_8724841	Ca4	8724841	ATTTT/ATTTT	AAAAACCAATACACGAA GGTTAGAA	ATGGGTTGACTTTCTC CACG	60.0	323	INTERGENIC	--	--	--
Ca4_P2_8726616	Ca4	8726616	T/TA	CAAGCATGGTCTGGCA ATTA	TTGGCAAGAGCAATGA ACTG	60.0	524	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8727840	Ca4	8727840	ATTTTTTT/ATTTTTTTT	TGAATGCCCAAAATAAG ATGA	TCACCAATCCAGCTGG TACA	60.1	425	INTERGENIC	--	--	--
Ca4_P2_8727913	Ca4	8727913	T/TCA	TGAATGCCCAAAATAAG ATGA	TCACCAATCCAGCTGG TACA	60.1	425	INTERGENIC	--	--	--
Ca4_P2_8730605	Ca4	8730605	CG/C	TTCACACCAACCCCTG AAA	ATTTTGAAGAACAATC CGC	59.0	517	INTERGENIC	--	--	--
Ca4_P2_8730686	Ca4	8730686	TAA/TA	TTCACACCAACCCCTG AAA	ATTTTGAAGAACAATC CGC	59.0	517	INTERGENIC	--	--	--
Ca4_P2_8732648	Ca4	8732648	CTATTTTT/CTATTTTTATTTTT	CATTTTCCATGCTTGCT TTTC	TCCCACTTTTACATTG TCCC	59.5	547	INTERGENIC	--	--	--
Ca4_P2_8733054	Ca4	8733054	TGGG/TGG	AAAAATCACCCAAATT AACATCT	CACCTTCCTTGCTCCCT CTG	60.0	867	INTERGENIC	--	--	--
Ca4_P2_8741602	Ca4	8741602	T/TACATC	TGGTGAACACGTATGC CAGT	AACCTCCTTTTGACCA CAA	59.4	771	INTERGENIC	--	--	--
Ca4_P2_8748201	Ca4	8748201	AG/A	CATTTCAATCATTACCC CCC	TCACAACATGAGAATG GGACA	60.0	218	INTERGENIC	--	--	--
Ca4_P2_8750318	Ca4	8750318	TAAAAAAA/TAAAAAAA	CCCATGTTTTAGTGGG GATG	TGCACATTGGCTCTTT GATT	59.3	141	INTERGENIC	--	--	--
Ca4_P2_8750740	Ca4	8750740	TAAAAAAA/TAAAAAAA	AGAATCAAAGAGCCAAT GTGC	TTGGCATACTTCCCATC CAT	60.2	863	INTERGENIC	--	--	--
Ca4_P2_8753314	Ca4	8753314	TGCTGGAACGCTGGAAC/TGCTGGAAC	TTCTTTCCAGTCATT CGG	CCAAATGGAGCTTCCA CCTA	60.1	841	INTRON	Ca_08371	--	NAC
Ca4_P2_8753976	Ca4	8753976	GAAAAAAA/GAAAAAAA	GGTGGGAAGCTCCATT GGTA	TAAGAAGGAAGTGC CACT	60.0	614	INTRON	Ca_08371	--	NAC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8756040	Ca4	8756040	TGAAGAA/TGAA	GTTGATGAGTGCTCAA GCCA	AGCAAGCTGGTTATGG ATGG	60.1	548	DRR	Ca_08371	--	NAC
Ca4_P2_8756398	Ca4	8756398	AGGG/AGG	GCTAACCTTTCCCAATT CCC	TGAATTGGCCAAAACT CAA	59.1	458	DRR	Ca_08371	--	NAC
Ca4_P2_8758235	Ca4	8758235	TGCACGCC/T	CATAGCAGCTTCGATG CAAA	TCACAATTGACAACCA CGG	60.4	297	INTERGENIC	--	--	--
Ca4_P2_8758495	Ca4	8758495	A/AG	TCACCATTGTCGAGTTG GAA	TGCTCATGTCTTCTAAA GATCCA	59.0	762	INTERGENIC	--	--	--
Ca4_P2_8759575	Ca4	8759575	ATTTTT/ATTTTTTT	TGCCACTCTCAATCATT TCG	TCAGGACAAGGACATC CAAA	59.1	817	INTERGENIC	--	--	--
Ca4_P2_8764088	Ca4	8764088	CTTTTTTTTT/CTTTTTTTTT	ATAACCAACTATGCAGG GCG	GGCAACTCGGATTTTC TTCC	60.9	528	INTERGENIC	--	--	--
Ca4_P2_8766483	Ca4	8766483	TAAG/TAAGAAG	GGTTGCGGTCGAAGTT ACAT	GATGGGCCAAACTGCT TTTA	60.1	575	INTERGENIC	--	--	--
Ca4_P2_8766663	Ca4	8766663	TAAAAAAA/TAAAAAAA	GGTTGCGGTCGAAGTT ACAT	GATGGGCCAAACTGCT TTTA	60.1	575	INTERGENIC	--	--	--
Ca4_P2_8774176	Ca4	8774176	CTT/CTTT	AATGGGTTTCGTATCGT TCG	TGATTTATGTTTGTGGC GGA	59.9	574	DRR	Ca_08372	--	NAC
Ca4_P2_8775167	Ca4	8775167	ATT/ATTT	TGTTCCCTGCAATTCAC ATC	ACGGGTCTCGATCAAT GTGT	60.4	360	DRR	Ca_08373	C	--
Ca4_P2_8779838	Ca4	8779838	GAAAAAAAA/GAAAAAAAAA	GGCATGCTGAGTTCTG TGAA	CAACCCACTGTCGAAA GGTT	60.0	486	INTERGENIC	--	--	--
Ca4_P2_8795294	Ca4	8795294	CT/CTAAATATGT	GAAAGACAGCACCCCA AAAA	TCAACCGTTGGAATAT CACG	59.4	666	DRR	Ca_08376	--	M-type

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8802134	Ca4	8802134	GTTT/GTT	CAGTGGCTCTGGGTAT GGTT	CATTGTCAAGTCGGG GTTT	59.8	774	DRR	Ca_08377	--	--
Ca4_P2_8805954	Ca4	8805954	T/TTACA	TTCTTCATAAGTGGGT CGG	GCTAGGCCACTGCTTT CATC	60.0	447	INTRON	Ca_08378	AR	MYB
Ca4_P2_8808997	Ca4	8808997	TAGAGAGAGAGAGAGAGAGA/TAGA GAGAGAGAGAGAGA	CAAACGTGCTGCTTG GCTA	TTACACCTCTCCGAAT CAC	60.1	506	INTRON	Ca_08378	AR	MYB
Ca4_P2_8810050	Ca4	8810050	GAATTATAGCTTTAAAT/GAAT	ACTCCTCCCTCCTGTCT CGT	TGAATATAAATAGACCA ATACCGCAA	60.0	585	INTERGENIC	--	--	--
Ca4_P2_8830201	Ca4	8830201	AATATA/AATATATA	AGAAAACTAAACCGCG CCT	TGGACTTCTTATTTCG CGC	60.2	303	INTERGENIC	--	--	--
Ca4_P2_8836055	Ca4	8836055	TATTTTAAATTTT/TATTTTAAATTTTAA TTTT	TGACCTGTAGGGCCGT AATC	TCACCAATCGAAGCT CAAA	59.4	508	INTERGENIC	--	--	--
Ca4_P2_8836158	Ca4	8836158	GTT/GTTAATT	TGACCTGTAGGGCCGT AATC	TCACCAATCGAAGCT CAAA	59.4	508	INTERGENIC	--	--	--
Ca4_P2_8836388	Ca4	8836388	CTTG/CTGTAGTTTTG	TGACCTGTAGGGCCGT AATC	TCACCAATCGAAGCT CAAA	59.4	508	INTERGENIC	--	--	--
Ca4_P2_8836902	Ca4	8836902	T/TG	AGCTTCGATTGGTGA GGTG	TTGAGTTCAATATGGT GATGTGA	59.4	854	INTERGENIC	--	--	--
Ca4_P2_8836976	Ca4	8836976	ATTTTTTTT/ATTTTTTTT	AAATATTTGGAATCAT TGTGG	GGCCGATAAGCTCTCT AGAAATAA	59.5	622	INTERGENIC	--	--	--
Ca4_P2_8837184	Ca4	8837184	T/TA	AAATATTTGGAATCAT TGTGG	AATTTGGCCGATAAGC TCTC	58.4	627	INTERGENIC	--	--	--
Ca4_P2_8839277	Ca4	8839277	AAAAAATAAAAAATAA/AAAA	GCCACATCGATCGAG ATAC	TTGAACGGGTTTTGTG GTCT	60.4	521	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8840055	Ca4	8840055	TTAAT/TT	TCATTTAAGAATGCAAA ATCACTTG	AGTCCACTTAGCCTGT CCGA	59.9	581	INTERGENIC	--	--	--
Ca4_P2_8840451	Ca4	8840451	TAAAAAAAAA/TAAAAAAAAA	CCAAAATCGACAGGC TAAG	AAAAATCTAACTTTTG TCGGAGG	59.2	675	INTERGENIC	--	--	--
Ca4_P2_8843670	Ca4	8843670	CTATAATTTTT/CT	AGGTGAATCGCCTTCA AAAC	GGTGAAAGAGCAAAAG ACGC	60.0	779	INTERGENIC	--	--	--
Ca4_P2_8858467	Ca4	8858467	TTACTAA/TTACTAATATTATAATACT AA	TTGGTTTCCAAGTTCCT ATC	TTCAACTTCGAGCAAAA GGG	60.4	602	INTRON	Ca_08382	--	MIKC
Ca4_P2_8860985	Ca4	8860985	TAAAAAAA/TAAAAAAA	TGCAACCACTCACATC CAT	TGCAACTTTTGAGATG CAATTT	59.8	324	DRR	Ca_08383	C	--
Ca4_P2_8861999	Ca4	8861999	CAAAAAAA/CAAAAAAA	CGAGGAGCATTATGC AACT	TCCTTCGCCTCTCAAG AAAA	60.1	432	DRR	Ca_08383	C	--
Ca4_P2_8864412	Ca4	8864412	TATAATAATAATAATAATAATAATA T/TATAATAATAATAATAATAATAATA ATAATAATAATAAT	TTCAACAAAGCCTCTTG CTT	GTAAAGCTCCCTTTCC CCAC	59.9	657	INTERGENIC	--	--	--
Ca4_P2_8865404	Ca4	8865404	AA/AAATATTTGTCTCTTTA	GCTGCAGCAGACTAGC AGTG	ATTCTACATTCACCCAG CGG	60.0	612	DRR	Ca_08384	O	--
Ca4_P2_8867611	Ca4	8867611	AT/A	AGCTCCCATACCAGGA CCTT	GTAGCCACCATTTTCTC CCA	59.9	374	INTERGENIC	--	--	--
Ca4_P2_8868445	Ca4	8868445	A/AT	TGGTTTAGAAGTGGGT TGGC	ATTGCAGCCCAACTTT GTC	60.1	816	INTERGENIC	--	--	--
Ca4_P2_8871044	Ca4	8871044	CATAAAAT/CATAAAATTATAAAAT	AAAACATCGGAGTCCA CGTC	AATTTCAATGCGGCAAA TTC	59.9	699	INTERGENIC	--	--	--
Ca4_P2_8877564	Ca4	8877564	TTTCTTCTTCTTCTT/TTTCTTCTTC TTCTTCTTCTT	CCATGCGGTAATCCCA TAAC	GGTGCGAAGAAGGATC TCAG	60.0	291	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8877657	Ca4	8877657	GAGAAAGAAAGAAAGAAAGAA/G AGAAAGAAAGAA	CCATGCGGTAATCCCA TAAC	GGTGCGAAGAAGGATC TCAG	60.0	291	INTERGENIC	--	--	--
Ca4_P2_8879996	Ca4	8879996	AA/AAAAAACA	AAAGGGACAGAGACGA TCCA	TGTTGGTCCATTTTCA TTGG	60.6	336	INTERGENIC	--	--	--
Ca4_P2_8882798	Ca4	8882798	ACT/ACTAATGCT	CCAACTGCATTGACG ACTA	TTCTCCATAAATTCAC CATTGG	60.1	754	INTERGENIC	--	--	--
Ca4_P2_8889783	Ca4	8889783	A/AC	TTAAGAAGTATCACGCG GGC	TCCTTTCTCGTGGTG AGTT	59.7	472	INTERGENIC	--	--	--
Ca4_P2_8890826	Ca4	8890826	CAGGTAG/CAG	TTTGAGGAGTGTGTGG TGGA	ACCCAACCGCACTTT GAAT	59.6	360	INTERGENIC	--	--	--
Ca4_P2_8891981	Ca4	8891981	CAAA/CAA	ATACACCACAACGCGT CAAA	AAGCATGGTATTCGGG AGTG	60.0	204	DRR	Ca_08386	--	--
Ca4_P2_8893770	Ca4	8893770	ATTTTTTTTT/ATTTTTTTTT	TGATGGTGGGTTGTG AGAA	ACCCAAACGGATATC AGAA	59.2	681	INTERGENIC	--	--	--
Ca4_P2_8896251	Ca4	8896251	CAAAAA/CAAAA	GTCGCTAAACTGCAAAA GGC	TTGTCCGGATGAGTT ATCAAA	59.5	477	INTERGENIC	--	--	--
Ca4_P2_8897355	Ca4	8897355	TA/T	GATCCACTCAGGTCG TGTT	ACTTTTGCATCTGGATG GCT	59.7	461	INTERGENIC	--	--	--
Ca4_P2_8903771	Ca4	8903771	GAATTAAT/GAAT	GGATCTCATTGGTTCTA TGGG	CGAGTGTGGTGGTTT TCTT	60.0	490	INTERGENIC	--	--	--
Ca4_P2_8903859	Ca4	8903859	CATAT/CAT	GGATCTCATTGGTTCTA TGGG	CGAGTGTGGTGGTTT TCTT	60.0	490	INTERGENIC	--	--	--
Ca4_P2_8906103	Ca4	8906103	CTTTTTTT/CTTTTTTTTTTT	AATGAATACATTGGCCC TCG	CGTGAAAAACAACAAAT CGTTC	59.5	548	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_8906252	Ca4	8906252	TAAA/TAAAAA	AATGAATACATTGGCC TCG	CGTGAAAAACAACAA TGTT	59.5	548	INTERGENIC	--	--	--
Ca4_P2_8942163	Ca4	8942163	TAGAAAGAAAGAAAGAAAG/TAGAAAG AAAGA	AAGGGAGAATGTTGTG GTGG	CCCAACACTGCTCAAC TCAA	59.9	226	CDS (FRAME SHIFT)	Ca_08390	V	--
Ca4_P2_8977001	Ca4	8977001	ATTTTTTTTT/ATTTTTTTTT	GGCTTATTATGGGGAG ACCC	TGGATTGTTGGAGCAT TTGA	60.0	806	INTERGENIC	--	--	--
Ca4_P2_9030140	Ca4	9030140	ATTTTTTTTT/ATTTTTTTTT	TGGTGTGGAGTCATG CTTT	AAATTGCAATGACGG CTTC	60.1	656	INTERGENIC	--	--	--
Ca4_P2_9049533	Ca4	9049533	TTATATATATATATATATATATATATA TA/TTATATATATATATATATATATATA TATATATATA	AAGAATTGTCAACCAAG TTCTACC	AACATGGCGTTTTGGT TGAT	60.2	667	DRR	Ca_08398	Q	B3
Ca4_P2_9060726	Ca4	9060726	G/GAGCCTGAATTTT	GCATGGTGCAAGATGG TTTT	AAACGCAGTTGGGTA ACAC	59.9	782	INTERGENIC	--	--	--
Ca4_P2_9066423	Ca4	9066423	ACC/AC	GCAACCCGTAGGTGTA GGAA	TGTGCGTTGGTAGTCA ATGTG	60.6	546	INTERGENIC	--	--	--
Ca4_P2_9066518	Ca4	9066518	ATTTTTTTTT/ATTTTTTT	GCAACCCGTAGGTGTA GGAA	TGTGCGTTGGTAGTCA ATGTG	60.6	546	INTERGENIC	--	--	--
Ca4_P2_9079145	Ca4	9079145	ATTTTTTTTT/ATTTTTTTTT	AGTTGGAAGTCGCCAA AGAA	ATGGTGCAATTCTTGC CATA	59.2	629	INTERGENIC	--	--	--
Ca4_P2_9176599	Ca4	9176599	ACTT/ACTTATACCTT	TGTGACCTAGACGCTT GTGC	GGAAAAAGATTGAGGA GCCC	60.0	656	INTERGENIC	--	--	--
Ca4_P2_9229798	Ca4	9229798	TGGG/TGGGG	AAGGCTCAACATGCAAA ACC	TGCCAATTCGATTGGA ATAA	59.0	522	INTERGENIC	--	--	--
Ca4_P2_925502	Ca4	925502	AATATATATATATATATATATATA/AAT ATATATATATATATATATATATATA	AATGGTGCAACACTCCA TGA	CTGTCGGTTTGTTC CCTA	60.0	680	DRR	Ca_07727	T	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_9358456	Ca4	9358456	ATTTTTTTTT/ATTTTTTTTT	CAAGAGTGGACCGACA TCTT	GCGGAGAAGACAGAGA CGAT	59.6	123	INTERGENIC	--	--	--
Ca4_P2_9371255	Ca4	9371255	GAAAAAAAA/GAAAAAAAAA	GGAGCATATGCCTCGT TGTT	TGGAAATCAACTTTTT GGACA	59.5	549	INTERGENIC	--	--	--
Ca4_P2_9388140	Ca4	9388140	C/CTTCAT	TCGTGTTGCGCCTAAC AAT	AGTTTTTAATCCGTGCG TCG	60.1	976	INTERGENIC	--	--	--
Ca4_P2_9388420	Ca4	9388420	TNNNNNNNNN/TGGAAAGAAANNNN NNNN	CCACTTATACGGCAAAG GCT	AGTTTTTAATCCGTGCG TCG	60.1	423	INTERGENIC	--	--	--
Ca4_P2_9460620	Ca4	9460620	ATTTTTTTTT/ATTTTTTTTT	TTGGTGGAAATAATGCC AAA	TTGCGTGTTTTAAGAA TCGG	60.1	283	INTERGENIC	--	--	--
Ca4_P2_9463038	Ca4	9463038	ATTAATTTT/ATT	CAAGAGGAAACATGGA GGGA	CCAAAAAGCAACTTTCA AGCC	61.1	632	DRR	Ca_08435	R	C2H2
Ca4_P2_9506168	Ca4	9506168	AATTATTATTATTATTATTATTATTA TTATTATTATTATT/AATTATTATTATTAT TATTATTATTATTATTATTATT	GGGCAAAACGCAATGT AACT	TACATCTCCAATGCGA CCA	60.1	401	INTERGENIC	--	--	--
Ca4_P2_9550177	Ca4	9550177	TAAAAAAAAAAAAA/TAAAAAAAAAAAA AAAAA	CCTCAGATGAGAGCCA GGAC	TTGGGCAGTACCATT GTGT	58.9	888	INTERGENIC	--	--	--
Ca4_P2_9567689	Ca4	9567689	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATATAT ATAT	ATTGTCGTCAAATGGAC CCT	CGCATGAACGTAGATA TGCC	59.2	251	INTERGENIC	--	--	--
Ca4_P2_9569592	Ca4	9569592	CTT/C	CAATGTGCAATTTAAG TATTGCG	TTGTCCTCTCCCATTT TCC	59.9	355	INTERGENIC	--	--	--
Ca4_P2_9576810	Ca4	9576810	CGTCAGGG/CG	CCCAATTATAGCGTGT GCT	AAAGTTTGGCCTGACT TGGA	59.7	790	INTERGENIC	--	--	--
Ca4_P2_9597551	Ca4	9597551	CTTTTTTTTT/CTTTTTTTTT	TTGTTTGATACACGTGA TCTGC	TGTGAAGCGAAGAGGG ATTT	59.8	806	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_9608721	Ca4	9608721	ATTTTTTTTT/ATTTTTTTTT	TTTTATGAATGAGAAT CGCAA	TTGAATGAGAGTCGGC TCATAG	59.5	320	INTERGENIC	--	--	--
Ca4_P2_9615383	Ca4	9615383	CTCTTCTTCTTCTTCTTCTTCT TC/CTCTTCTTCTTCTTCTTCTT C	TTCTCGCCACCTCAAGT TCT	GCACAGAGCAACAGAA GCAG	59.9	661	CDS (large-effect mutations)	Ca_08443	--	MYB_related
Ca4_P2_9630289	Ca4	9630289	ATTAGTTAGTT/ATTAGTTAGTTAGTT	CCTCTTCCAAACAAATC TTCG	CCAGCTCATCAAAGCC ATTT	60.2	550	INTERGENIC	--	--	--
Ca4_P2_9631458	Ca4	9631458	GTTTCCTCTCCGTCTTT/GTTTCCTCC TCCGTCTTCTCCTCCGTCTTT	TTCTTCATCTTCTCTCT CCG	TTATCGGATGTATGGG AGGG	59.6	148	INTERGENIC	--	--	--
Ca4_P2_9632653	Ca4	9632653	TG/T	TGGATTGTCGTGATCTC AAA	CACACCCGTACTIONCAGC ATTG	60.2	630	INTERGENIC	--	--	--
Ca4_P2_9633059	Ca4	9633059	TAAAAAAAAA/TAAAAAAAAA	CAATGCTGAGTACGGG TGTG	AACACAAGGAGGCCAT GTTC	60.0	503	INTERGENIC	--	--	--
Ca4_P2_9653112	Ca4	9653112	TAAAAAAAAA/TAAAAAAAAA	GGGTTGTACGATGACA GCAA	AAATCGTCGCAATCA GTCC	60.1	208	INTERGENIC	--	--	--
Ca4_P2_9658674	Ca4	9658674	TAAAAAA/TAAAA	TGCAATTTGATACCGAG CCT	TCCCCTCTTTGAGGG ATTT	59.9	914	INTERGENIC	--	--	--
Ca4_P2_9726284	Ca4	9726284	ATTTTTTTTT/ATTTTTTTTT	GGGCTTACCAAAAGCA GACA	GCGCCACCATGGACTA CTAT	60.0	314	INTERGENIC	--	--	--
Ca4_P2_9727283	Ca4	9727283	AT/A	TGTCTCGGGTCACAAA ACTC	TGGTGTCCATTTTGCA CAT	59.8	504	DRR	Ca_08452	E	--
Ca4_P2_9732872	Ca4	9732872	A/AC	CGGTGGTTGATAAAGT CGTG	GAATTCAAATGGGGAA ATGC	59.2	416	INTERGENIC	--	--	--
Ca4_P2_9764739	Ca4	9764739	GTTTTTT/GTTTTTTTT	TCAGGCGGGTTTTATA GACA	CTCTGCTCACAAACCA ACAA	59.9	701	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P2_978893	Ca4	978893	TAAAAAAAA/TAAAAAAA	TTTGTAGGTGCTTTCC ATC	CAATCCCCCAAGCTTA ACAA	59.9	535	INTERGENIC	--	--	--
Ca4_P2_9797931	Ca4	9797931	CAAAAAAAAA/CAAAAAAAAA	CTCGTAAACACAAAGC GCA	TGAGTGTTGCACAACC AAGC	59.9	602	INTERGENIC	--	--	--
Ca4_P2_9847676	Ca4	9847676	TAAAA/TAAA	GAGTTGCAGGGGATGT AGGA	CACAAAGAAAGGCCTG GAAG	59.8	240	INTRON	Ca_08462	Z	--
Ca4_P2_9857350	Ca4	9857350	TGTGCGAGTGCGAGTGCGAGT/TGTGC GAGTGCGAGT	TGAGACGTTTTTCACAC CCA	CTGCAACAATGAATCTT GAAGT	57.0	469	INTERGENIC	--	--	--
Ca4_P2_9923455	Ca4	9923455	AATATATATATATATATATA/AATATATAT ATATATATA	TGTGAACGTCGTCGTAT GGT	CCGATAACAAAAGCTC TCGC	60.0	892	INTERGENIC	--	--	--
Ca4_P2_9946653	Ca4	9946653	TATAAATAAATAAATAAATAAATA/T TATAAATAAATAAATAAATAAATA	CCATATGTGTCGGAAG TCCC	TGACCAAACCTCATTC ACA	59.9	332	INTERGENIC	--	--	--
Ca4_P2_9957557	Ca4	9957557	TAAAAAAAA/TAAAAAAAA	TGTAAGGTGCACATGC TTGC	CAGAAAGTTGAAATG TGCG	59.3	415	INTERGENIC	--	--	--
Ca5_P2_10004188	Ca5	10004188	GTTGTTGTTATTGT/GTTGT	TCGCCATTTCACACTAC TCC	AATTCCTCCTCCCACC AGT	59.8	703	INTERGENIC	--	--	--
Ca5_P2_10004546	Ca5	10004546	ATGT/ATGTCGGTGTTGT	GGCAGGTAGGTTAGCT GCTG	ACCTCCACCACCACTA GCAC	60.0	508	CDS (large-effect mutations)	Ca_20512	--	--
Ca5_P2_10024485	Ca5	10024485	CAAAAA/CAAAA	TGGATTGGAGTTAGCTT GGC	TCCTTGCCTGTTTTC ATT	59.5	495	INTERGENIC	--	--	--
Ca5_P2_10024689	Ca5	10024689	TAAA/TAAAA	GGGTCTTTAGGCCCTC TTGT	ACCTCGTGTGACTGAT GATGA	59.1	565	INTERGENIC	--	--	--
Ca5_P2_10025475	Ca5	10025475	GTTT/GTTTT	TGAGTGCTCGACGACA TTTT	GATGTGAAGCCTCTCA TTACCC	60.0	219	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10025602	Ca5	10025602	TAAAAAAA/TAAAAAA	TGAGTGCTCGACGACA TTTT	AGACCTGTTGATTGTG TTTTGG	59.0	700	INTERGENIC	--	--	--
Ca5_P2_10050680	Ca5	10050680	A/ATAT	CAATGCGAGTTCAGCC AATA	AATCGCATACCGACCA AAAC	59.8	379	INTERGENIC	--	--	--
Ca5_P2_10054215	Ca5	10054215	ACTCT/ACTCTCT	TTGCCCACTTGATGAA ACA	GCCATAGCACCTCTGT AGGC	59.9	531	DRR	Ca_20515	--	--
Ca5_P2_10079478	Ca5	10079478	G/GTGTCGCCACGGC	CGGAAGAAGAAGAAA ACCC	TCTTCCTTGCTCGTCA TCT	60.0	776	INTERGENIC	--	--	--
Ca5_P2_10084501	Ca5	10084501	CTTGTTTTTGTTTT/CTTGTTTTGTTT TTGTTTTT	TTTTTGCCATTCCCATC ATT	TCATGAAAATCATAAGC CAGC	58.6	603	INTERGENIC	--	--	--
Ca5_P2_10087747	Ca5	10087747	TAAAAAAA/TAAAAAAA	TTTGTTGGCTCCAAAG TAATTC	TGTGGAACCATGCCTA ACAC	59.4	770	INTERGENIC	--	--	--
Ca5_P2_10087885	Ca5	10087885	ATTTTTTT/ATTTTTTTT	TTTGTTGGCTCCAAAG TAATTC	TAGGTATGCAGTGGT TGGA	60.0	790	INTERGENIC	--	--	--
Ca5_P2_10093890	Ca5	10093890	GT/G	AATCGGAATCAGCCAAT CAG	TCAGCGTAATCCTCCA ATCC	60.0	606	INTERGENIC	--	--	--
Ca5_P2_10097611	Ca5	10097611	AAAAAATAAAAA/AAAAAA	TGCATTATTCTCAGCG GGT	TCGGTTTCTCAATACC GAT	59.4	199	INTERGENIC	--	--	--
Ca5_P2_10097809	Ca5	10097809	GTTT/GTTTT	GGGCAATGACCGATT CTAA	CATGCCATACCAATCC ATGA	60.2	554	INTERGENIC	--	--	--
Ca5_P2_10124532	Ca5	10124532	GTAACAAT/GT	TGGTTGAAACAACCCA CAAA	TGATTAAGTGGAAGCC ATGTT	57.2	570	INTERGENIC	--	--	--
Ca5_P2_10128452	Ca5	10128452	CTTTTTTTTT/CTTTTTTTTT	TTATCGCGTTAAGCCAA ACC	TATGGCCAAATGGACC TCTC	59.9	616	INTRON	Ca_20519	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10128945	Ca5	10128945	ATTTTT/ATTTTT	GGTAGATCTTTGCTGG GTGG	TGCAACCTGAAACATT GCTC	59.8	274	INTRON	Ca_20519	--	--
Ca5_P2_10129044	Ca5	10129044	TAAAAAA/TAAAAAA	TGGAGCAATGTTTCAG GTTG	AGTTTTCTGGTCTGC CTCA	59.8	370	INTRON	Ca_20519	--	--
Ca5_P2_10131669	Ca5	10131669	TAAAAAAAA/TAAAAAAAAAAAA	AATTAGACGACACGGG GTTG	CGTATCAATTTCTTTTC AAATGG	57.8	635	DRR	Ca_20519	--	--
Ca5_P2_10132207	Ca5	10132207	CTTTTT/CTTTTT	TCCATTGAAAAGAAAT TGATACG	TCATCAACGGTCATTCA ACC	59.3	737	DRR	Ca_20519	--	--
Ca5_P2_10134039	Ca5	10134039	TTATA/TTA	CTGGGGATACGTAGGA GCAA	TTCGGGAGTCGATTAC GAGT	59.7	223	INTERGENIC	--	--	--
Ca5_P2_10144565	Ca5	10144565	T/TC	CTTCCCCTTGACAAACC AAA	TGTTTGCCAAAAGAAAA GGG	60.1	491	INTERGENIC	--	--	--
Ca5_P2_10150668	Ca5	10150668	CGG/CG	TAAATGGCAGGTCAAT GCAC	CATTGAAAGTGTGGTG GGTG	59.8	354	INTERGENIC	--	--	--
Ca5_P2_10156657	Ca5	10156657	GTT/GT	CACCGCGAGATGTTAC TTCA	GGCTTCACAAAGTTTG GGTT	59.1	281	INTRON	Ca_20521	K	--
Ca5_P2_10157748	Ca5	10157748	T/TAA	GCGGAGGATAAGGGTT TTTG	CAGCTATCGTTACACAA GCATT	57.2	692	INTERGENIC	--	--	--
Ca5_P2_10157803	Ca5	10157803	GA/GAGAAA	GCGGAGGATAAGGGTT TTTG	TTCTTGCTCTTTTTA CGGA	59.0	917	INTERGENIC	--	--	--
Ca5_P2_10159555	Ca5	10159555	AAAAAAA/AAAAAAATAAAAAA	CCAACAGGGCAAACGT AAAT	GCACAATGGGCTTATT CGAT	59.9	197	INTERGENIC	--	--	--
Ca5_P2_10159630	Ca5	10159630	TG/T	CCAACAGGGCAAACGT AAAT	GCACAATGGGCTTATT CGAT	59.9	197	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10159953	Ca5	10159953	TAGAGA/TAGAGAGA	CCAACAGGGCAAACCTG AAAT	GCCAAACAAGGGTTAC CTGA	60.0	838	INTERGENIC	--	--	--
Ca5_P2_10164696	Ca5	10164696	AC/ACC	TTCACCCTGAAATCCTC CAG	TCCGGTTCTTACAGAC CACC	60.0	636	INTRON	Ca_20522	--	C3H
Ca5_P2_10164862	Ca5	10164862	C/CTGGTT	TGTAGCCCAACCAAT TCC	TCCGGTTCTTACAGAC CACC	60.0	301	INTRON	Ca_20522	--	C3H
Ca5_P2_10167336	Ca5	10167336	ATTTTTTTT/ATTTTTTTT	AGGGTTCGGGAAGAAT AACC	TTCTTCCGACAAACAA AGG	60.1	263	INTERGENIC	--	--	--
Ca5_P2_10173275	Ca5	10173275	AATATATATATATATA/AATATATATAT ATATA	TGTGGTTCCATAGATG GGGT	CATTGAATCCCATTGAT TGTTG	60.1	273	INTERGENIC	--	--	--
Ca5_P2_10176653	Ca5	10176653	CA/C	CTCTCAAACGGTTGCAT TGA	TGTTTCAGCTGTGATG CAAA	59.0	571	INTERGENIC	--	--	--
Ca5_P2_10185527	Ca5	10185527	A/AT	AAAAAGCAGTTTCGCCA GAA	GAACATGGAGGGTGCA GAAT	59.9	109	DRR	Ca_20524	--	--
Ca5_P2_10189885	Ca5	10189885	T/TG	AGCAGCACAACTCCAC ACAG	TAATCTGGTCCAAGGG ATGC	59.9	417	INTERGENIC	--	--	--
Ca5_P2_10191175	Ca5	10191175	CTTAAATTAT/C	TCTTGTTCTGTGTGCAT AGTTTCG	CATTTTGC GTGTGTG GCT	60.8	407	INTERGENIC	--	--	--
Ca5_P2_10223215	Ca5	10223215	CATAAAAA/C	AATGGGGGTACATGGG AAAT	TCAATTCCACTTGCGAG CAATA	59.3	547	INTERGENIC	--	--	--
Ca5_P2_10223315	Ca5	10223315	ATTTTTTTTT/ATTTTTTTTTT	AATGGGGGTACATGGG AAAT	TCAATTCCACTTGCGAG CAATA	59.3	547	INTERGENIC	--	--	--
Ca5_P2_10223381	Ca5	10223381	TA/T	AATGGGGGTACATGGG AAAT	TCAATTCCACTTGCGAG CAATA	59.3	547	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10226687	Ca5	10226687	ATTTTTTTTT/ATTTTTTTTT	TTGGATTACCGTGAAT GGT	GCGGCACAACATAACT GGAT	60.1	479	DRR	Ca_21246	I	bHLH
Ca5_P2_10226878	Ca5	10226878	ACTC/ACTCGCGGTGAAGTACCTC	TTGGATTACCGTGAAT GGT	GCTGAGGCAGCAATGT CATA	60.0	718	DRR	Ca_21246	I	bHLH
Ca5_P2_10235331	Ca5	10235331	GTTTCTTTATT/GTTTCTTTATTTTTCTT TATT	GAAGAGAGGGATAGCA GTGGA	GTTTCATGTCATGCCAG ATGC	60.1	270	INTERGENIC	--	--	--
Ca5_P2_10245515	Ca5	10245515	ATTTTTTTTT/ATTTTTTTTT	TTCGTCGAAGGAAAATA TTTGAA	AAGGTTGCCTCTTCTC CCAC	60.6	838	DRR	Ca_21244	R	--
Ca5_P2_10263025	Ca5	10263025	ACAGCGGTC/AC	CATCTGAAAGGCCAGC AAAT	GGCTCCTGAGAGTTCTG TGAC	60.0	179	INTERGENIC	--	--	--
Ca5_P2_10264751	Ca5	10264751	CAAAAAA/CAAAAAAA	TTTGAACTTTGCCGAG GCT	ACCATCGCTGAACATG ACAA	60.1	507	INTERGENIC	--	--	--
Ca5_P2_10267496	Ca5	10267496	ATTTTTT/ATTTTTTT	TCGAAACCCATAAAGGT AGCA	TTGGGATTGTGTCTG AGCA	60.2	309	INTERGENIC	--	--	--
Ca5_P2_10267784	Ca5	10267784	TA/TAA	TGCTCAGACACAAATCC CAA	TCAAAATGCCGCTTAA ATAAAA	60.0	175	INTERGENIC	--	--	--
Ca5_P2_10268582	Ca5	10268582	A/AAAAATAATG	TCGACGACAAGAGACT GAGAA	GCATAGGTGAAGGGAA TCCA	59.9	623	INTERGENIC	--	--	--
Ca5_P2_10270683	Ca5	10270683	GTTT/GTTTTGCTTTT	AATTGACTCTGTGACCA TTCCA	CCACCGACGAAAGGTA TTGT	59.9	511	INTERGENIC	--	--	--
Ca5_P2_10276897	Ca5	10276897	GAAAAA/AAAAA	TGCTAACAAATGATT GGGC	TGCTGGGAATTTCAA AACA	59.1	442	INTERGENIC	--	--	--
Ca5_P2_10284409	Ca5	10284409	ATTTTTTT/ATTTTTTTTT	TCACAGATCAGCGCTA CACC	TTTACCCCAACACGTA AGC	59.9	479	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10287397	Ca5	10287397	AT/ATGGATTGAGT	CCCAACGAGGAAAAAC AAAA	TGTTGACTTGTGTGCG TGTC	59.3	469	INTERGENIC	--	--	--
Ca5_P2_10289518	Ca5	10289518	A/AT	TTGTGACACTTTTACC CGTG	GTTACGGTGTGCGGT TTCT	60.0	343	INTERGENIC	--	--	--
Ca5_P2_10290351	Ca5	10290351	CAAA/CAAAA	ATCCGAACCTCGTAGC CATC	TTTGCGCAAGGATATAT GGA	59.1	842	INTERGENIC	--	--	--
Ca5_P2_10290554	Ca5	10290554	AATATATATATATATATATAT/AATATA TATATATATATATATATAT	CAATTCATAAATGTCCA ATTGTTG	TTTGCGCAAGGATATAT GGA	59.1	418	INTERGENIC	--	--	--
Ca5_P2_10291470	Ca5	10291470	GAAAAAAAA/GAAAAAAAA	CACGTTGCTCTTCCAA TTT	TCAATATGCTCGTTACT TGCTCA	59.0	569	DRR	Ca_21242	R	bZIP
Ca5_P2_10298097	Ca5	10298097	TA/TAA	CAATTTGGTGGAGAAAA ATGC	TCGCATTGCCTTAGAA AAA	58.6	668	INTERGENIC	--	--	--
Ca5_P2_10298523	Ca5	10298523	C/CCTATTT	TGTTGTTGTGACAAATC CACATT	GACACCACGTTTCAA CTCA	59.6	415	INTERGENIC	--	--	--
Ca5_P2_10299950	Ca5	10299950	CAA/CAAAA	CCTTTTCAGCATTCCAA TTCA	GGTTAATTATTTTAAAT GGGCGG	59.9	356	INTERGENIC	--	--	--
Ca5_P2_10300146	Ca5	10300146	GA/GATGATTAATAA	CCTTTTCAGCATTCCAA TTCA	GGTTAATTATTTTAAAT GGGCGG	59.9	356	INTERGENIC	--	--	--
Ca5_P2_10302322	Ca5	10302322	ATTT/A	TGATTTCAATTGAGTGA CGTTG	TGGGGTCTTGTGACAC CAT	59.8	645	INTERGENIC	--	--	--
Ca5_P2_10308642	Ca5	10308642	ATTTT/ATTT	TTGACATCAAACTTTCT TTGGC	TGAACATGTGTTTCGATT CGTT	59.0	139	DRR	Ca_21241	--	--
Ca5_P2_10311484	Ca5	10311484	TAAAAAA/TAAAAAAA	AGCGCCACTGTAGCGA TTAT	TCATAACCCCATTTTG TTGA	60.0	487	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10311735	Ca5	10311735	ACGAGAGAG/A	ACACGACAAACACTTC GCA	TTCATTCGTCTTCGTCT TCTCTC	60.0	541	INTERGENIC	--	--	--
Ca5_P2_10313212	Ca5	10313212	CAAAAAAAAAAAAA/CAAAAAAAAAAA	GGGAGTGCATAGGACA AAACTC	TGCTCTGACGAGTCTC CAAA	59.4	225	INTERGENIC	--	--	--
Ca5_P2_10318888	Ca5	10318888	AG/A	AGTCGATGCGGGATAA ATTG	GGCTGCGATTCTCCTT ACAG	60.0	270	INTERGENIC	--	--	--
Ca5_P2_10322569	Ca5	10322569	ATCTCT/ATCT	TTGGCGATGCTTCTTAA GGT	TGCTGCTTTTCTTTTAG GCTC	58.9	682	DRR	Ca_21239	--	--
Ca5_P2_10331676	Ca5	10331676	ATTTTTTTT/ATTTTTTTT	AATGCCAAAATCTCAAA CCG	GCCATGTTTGCTTTTG CACT	58.8	688	DRR	Ca_21237	O	E2F/DP
Ca5_P2_10343037	Ca5	10343037	CATTTCCCTCGTTT/CATTTCCCTCG TTTGATTTTCCCTCGTTT	CTGCCTATTCCTCCAT CAA	AGTAGCTCCAAGAGGC CACA	60.0	614	INTERGENIC	--	--	--
Ca5_P2_10348801	Ca5	10348801	ACC/ACCC	TGTGCCTGAAATGATT GGA	CAGCTTCGTACACTTT GCCA	60.1	615	INTERGENIC	--	--	--
Ca5_P2_10378027	Ca5	10378027	ACC/ACCCACTCACCC	GATCGCAAGTGATGCA AAGA	TGCCACAATCCATTGT CAGT	60.0	858	INTERGENIC	--	--	--
Ca5_P2_10380821	Ca5	10380821	G/GC	TGCATTTGAGGCAGATT GAG	GGGCGCAGTCTTGATA GAAG	60.0	641	INTERGENIC	--	--	--
Ca5_P2_10387488	Ca5	10387488	TATAATAATAA/TATAATAA	TCCCATCTAAATTGATA AGTCGG	CGTCTCATTTAACTCAT TCCACA	59.1	852	INTERGENIC	--	--	--
Ca5_P2_10389582	Ca5	10389582	CTACGTTA/CTA	TGGTTGCTTCATTGCTT GTG	GCGAAGGATATTCGAC CAAG	59.7	216	INTERGENIC	--	--	--
Ca5_P2_10393989	Ca5	10393989	GAAAAAAAAA/GAAAAAAAAA	CCCTACGACGTCGGTT AAAA	CCGGGAGATATGTAGG AGCA	60.1	209	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10396682	Ca5	10396682	TAAAAAAAAA/TAAAAAAAAA	TTGGAGGTCAAATCTG GGAG	AAAATTTTATGCCGCCA CAC	59.8	310	INTERGENIC	--	--	--
Ca5_P2_10398127	Ca5	10398127	GAAAAAAAAA/GAAAAAAAAA AA	TCCACCAACCTTTTAAC CACA	GCTGTGATGGTCATT CTGA	59.6	897	INTERGENIC	--	--	--
Ca5_P2_10409173	Ca5	10409173	TTGTGT/TTGTGTGT	TGGCTCTGAAAAGAA CGAA	TCAATGGTGCTTTGT GGA	60.1	805	DRR	Ca_21231	--	WRKY
Ca5_P2_10412522	Ca5	10412522	ATTTTTTTTTTT/ATTTTTTTT	TTGCATGTTATTTGTTG CGAA	TTTGCCATGTTGGTTT ATCA	58.9	614	INTRON	Ca_21231	--	WRKY
Ca5_P2_10412867	Ca5	10412867	GATA/GATACATA	TTGCATGTTATTTGTTG CGAA	GACCTTTTGCATTGA CGTT	60.0	918	INTRON	Ca_21231	--	WRKY
Ca5_P2_10413807	Ca5	10413807	GTTTTTTTTTTT/GTTTTTTTTT	TTCTCATGCTCACTGGT TGC	TCGCATTTAACCATTCA CACA	60.0	569	INTERGENIC	--	--	--
Ca5_P2_10414029	Ca5	10414029	TACCCAC/TAC	TTCTCATGCTCACTGGT TGC	TCGCATTTAACCATTCA CACA	60.0	569	INTERGENIC	--	--	--
Ca5_P2_10415245	Ca5	10415245	AGG/AG	GACACTCTTAGCATTT GTCAATTT	TTTTTACCAGATCATTG GAGCA	59.6	599	INTERGENIC	--	--	--
Ca5_P2_10418988	Ca5	10418988	TTTAT/TTT	TGCTTGTGGAATGT GGAT	TGTGCCACGTATTAT CTTTT	58.2	408	INTERGENIC	--	--	--
Ca5_P2_10420287	Ca5	10420287	GTTTTTTTTT/GTTTTTTTTT	GGTACAATTGTTGCACC ACG	TTTGGGAGTAGGCCTT CCTT	60.1	702	INTERGENIC	--	--	--
Ca5_P2_10436561	Ca5	10436561	TAAAAA/TAAAAA	CCCAATAACATACTCTA TCCGAAAA	ATCCACGGATTACTCA CGGA	60.3	486	INTERGENIC	--	--	--
Ca5_P2_10440868	Ca5	10440868	CTGATGATTTGATGATT/CTGATGATT T	AAATGGTCGGACAAAAT TGG	TGTTTGTTCATCCACCT CCA	59.9	566	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10443343	Ca5	10443343	GTATATATATATATATATATAT/GTAT ATATATATATAT	TGCCTTTTGTGTTCC TTC	AACGCCTTGAGCTTGA GAAA	60.1	814	INTERGENIC	--	--	--
Ca5_P2_10445932	Ca5	10445932	ACGCCG/ACG	GTATCGCTTGGCACTT CAT	GTGAGTGGGGCTGAGT TTGT	60.2	489	INTERGENIC	--	--	--
Ca5_P2_10446089	Ca5	10446089	TTCTCTCTCTC/TTCTCTCTCTC	ACAAACTCAGCCCCACT CAC	TCCCTTTTAAGGGTTGA GGG	60.3	187	INTERGENIC	--	--	--
Ca5_P2_10455362	Ca5	10455362	TTTATTATTATTATTATTATTA/TTTA TTATTATTATTATTATTA	CGAAACGAAACCAAC AAGT	TGATGTGGCTTGACGT GACT	60.3	364	INTERGENIC	--	--	--
Ca5_P2_10457260	Ca5	10457260	CACAATACTC/CACAATACTCTACAATA CTC	GGGGCGAGATATTCAG ACAA	TGATTGTTCTAGTGGT CGCTCT	59.0	108	INTERGENIC	--	--	--
Ca5_P2_10475192	Ca5	10475192	CTTTTTTT/CTTTTTTT	TCGTGATGTTGATTGC GAT	GGCAAGAAGGATATGG ACGA	60.0	478	INTERGENIC	--	--	--
Ca5_P2_10477577	Ca5	10477577	T/TA	AAATCTGAGCTTTGCC TCA	GGAGGCATTGTTTCCT CAAA	60.1	832	INTERGENIC	--	--	--
Ca5_P2_10481415	Ca5	10481415	ATGTGTGTGTGTGTGTG/ATGTGTG TGTGTGTGTGTGTGTGTG	TGTGAGAACGTCACCC TGAG	GAAATTGCAAGGCAGA GAGG	60.0	632	INTERGENIC	--	--	--
Ca5_P2_10489248	Ca5	10489248	GTTTTTT/GTTTTTTT	TGGAATCCATCTGAG CAA	CTACCTCCATTTTGG GGAT	60.0	479	INTERGENIC	--	--	--
Ca5_P2_10496217	Ca5	10496217	AAA/AAATAAATAA	TTCACCTCAACGAATG TTGT	GGCTCTTTGGAAGAG GGTG	59.8	776	INTERGENIC	--	--	--
Ca5_P2_10497866	Ca5	10497866	AT/ATT	GCAAACGGGTTAATG GAGA	GTCTTATGAGCCGAAG GTCG	59.8	764	INTERGENIC	--	--	--
Ca5_P2_10498397	Ca5	10498397	ACC/AC	GGCTCATAAGACCAAC GCTC	CTCTCCGTTGTTTGT GGAT	60.0	467	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10501158	Ca5	10501158	GAAAAA/GAAAAA	GCAACAAAATAACACTT ACGAAAAA	CCGACGATAAAAGTCC CTCA	60.1	596	INTERGENIC	--	--	--
Ca5_P2_10507484	Ca5	10507484	ATTTTTTTTT/ATTTTTTTTT	TGCAAGTTAAAGAATAA TTTAGAGCG	GGAAACGATTGGATTG GAGA	60.0	897	INTERGENIC	--	--	--
Ca5_P2_10507987	Ca5	10507987	GTTCTTCTTCTTCTC/GTTCTTCTTCT C	TCTCGAATCCAATCGTT TCC	ACCAACTTCATCAACCT CGG	60.0	143	CDS (large-effect mutations)	Ca_21230	--	--
Ca5_P2_10511429	Ca5	10511429	GTT/GTTT	AATGTGTGTGGGGATC GAAT	TAGGCCCCAACCAAGT AGTG	60.0	444	DRR	Ca_21230	--	--
Ca5_P2_10513999	Ca5	10513999	AATTATT/AATT	TTTTGTTCCAAAGAGAA CACGA	AAACATCGCAGCCTTG AGTC	60.4	784	INTERGENIC	--	--	--
Ca5_P2_105147	Ca5	105147	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATATA TATA	CAGAACAAACACGAGA GCCA	TTTGTACCCGAGGTTAT CCG	59.8	650	INTERGENIC	--	--	--
Ca5_P2_10515050	Ca5	10515050	TAATAG/T	AGAAATTGCCCATCCT CCC	TCGTGAAACTTTGACTT TAATCG	58.5	537	INTERGENIC	--	--	--
Ca5_P2_10515370	Ca5	10515370	A/AT	CGATTAAAGTCAAAGTT TCACGA	AGCAAACCAGGTTGTC CTGT	59.6	560	INTERGENIC	--	--	--
Ca5_P2_10516286	Ca5	10516286	TTTTTATTTATTTT/TTTTTATTTATTT TATTTT	ATTTGGGTTGAAGTGT GCC	ATTCAATGCAACTCCC TGC	60.1	598	INTERGENIC	--	--	--
Ca5_P2_10516320	Ca5	10516320	A/ATGAAGCAC	ATTTGGGTTGAAGTGT GCC	ATTCAATGCAACTCCC TGC	60.1	598	INTERGENIC	--	--	--
Ca5_P2_10550017	Ca5	10550017	C/CATATTTTACCATTGAT	CTCCTCATATTGCAGGC GTT	CGGCTAAACAACAAGC CATT	60.1	703	DRR	Ca_21226	--	--
Ca5_P2_10550493	Ca5	10550493	TAAAAAAA/TAAA	AATGGCTTGTGTGTTAG CCG	CAAGCAATTCGTGTTT CCA	59.7	305	DRR	Ca_21227	C	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10550623	Ca5	10550623	GTTTTTTTT/GTTTTTTTTT	AGCGTTGTGTGAA ACC	TCCACCTTGATTATGC TTGC	57.8	788	DRR	Ca_21227	C	bHLH
Ca5_P2_10559263	Ca5	10559263	ATTTTTTTTT/ATTTTTTTTT	CACGAATCAGGGAGG AAAA	GCTTTTACGGAATGGC AAAA	60.1	795	INTERGENIC	--	--	--
Ca5_P2_10559602	Ca5	10559602	AT/ATTTATCATTCATATGT	TGTCATTTCAAATTAGA CCCCAAA	GCTTTTACGGAATGGC AAAA	60.1	250	INTERGENIC	--	--	--
Ca5_P2_10563740	Ca5	10563740	CG/C	AAAGGCAAAATGATCCA TGC	CCCTAGCTTGCTTGAA CTGC	60.2	246	INTRON	Ca_21225	--	--
Ca5_P2_10564446	Ca5	10564446	TAAAAAAA/TAAAAAAA	TCCAAATCCCAAGCTAC CAA	GGGCCTCATTTCCCTT TAAC	59.8	408	INTRON	Ca_21225	--	--
Ca5_P2_10564601	Ca5	10564601	ATTTT/ATT	TCCAAATCCCAAGCTAC CAA	GGGCCTCATTTCCCTT TAAC	59.8	408	INTRON	Ca_21225	--	--
Ca5_P2_10572522	Ca5	10572522	AATATATATATATATATATAT/AATA TATATATATATAT	CGTGGACAAAGATCGT GATG	TCATTGTAAAGAGCG GTGC	58.9	382	INTERGENIC	--	--	--
Ca5_P2_10588970	Ca5	10588970	T/TTA	TCATTCTTTATGCGTT TGGC	GTTTTGGCGTTGTTT CACT	60.0	792	INTERGENIC	--	--	--
Ca5_P2_10589055	Ca5	10589055	GATAATAA/GATAA	AAAGGGACCAATGAGT TTTAACC	GTTTTGGCGTTGTTT CACT	60.0	318	INTERGENIC	--	--	--
Ca5_P2_10605600	Ca5	10605600	GT/GTT	AGTGAACCAACGCCA AAAC	TCACTCAAAGGCTAC TGCC	60.4	272	DRR	Ca_21224	--	--
Ca5_P2_10610168	Ca5	10610168	ATTTTTTTTT/ATTTTTTTTTT	GCTTTGCCACATGAGAT TGA	GCAGTGCTGAATTTTG GTGA	59.8	519	INTERGENIC	--	--	--
Ca5_P2_10611566	Ca5	10611566	CTA/CTATA	CTAGCACCTGCAACCA CTGA	GGGTTGACAGCATAAG GCAT	60.0	347	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10611823	Ca5	10611823	AT/A	ATGCCTTATGCTGTCAA CCC	AACTTAGAGCAAGGCG ATGG	59.5	339	INTERGENIC	--	--	--
Ca5_P2_10625989	Ca5	10625989	TAAAAAA/TAAAAAAA	TGTAGGGGTACAGGG AAAG	AACTTCGTTGTTTTG CCA	60.5	165	INTERGENIC	--	--	--
Ca5_P2_1065182	Ca5	1065182	TAAAA/TAAAA	AATGGCCACGAATCTG AAAG	ACCATTTTCAACTGCAT CCC	59.8	634	INTERGENIC	--	--	--
Ca5_P2_10659656	Ca5	10659656	GTTTTTTTTT/GTTTTTTTTT	TGCTGTCTTTCTGCTT TGC	AGACTATGGTCCACAA GCCG	60.1	257	INTERGENIC	--	--	--
Ca5_P2_10673945	Ca5	10673945	ATTTTTTTTT/ATTTTTTTTT	CACGGCTCATTCAACAA CAT	GAAGTGGGCGTTTTAC CAGA	60.1	577	INTERGENIC	--	--	--
Ca5_P2_10679625	Ca5	10679625	TAAAAAAA/TAAAAAAA	GGGATTGTTTTGAATAT GAGGG	TCACACGATCATTTGG CAT	59.9	596	INTERGENIC	--	--	--
Ca5_P2_10686981	Ca5	10686981	TAAAAAAA/TAAAAAAA	GCTCCTTCTGCATCAAC ACA	TGCCCCACATTTTAGA CCTC	59.9	509	INTERGENIC	--	--	--
Ca5_P2_10687869	Ca5	10687869	TAAAAAAA/TAAAAAAA	CGAGGAACGACAAGGG TAAA	TGAGTTGAGTTAAAAAC CAGCAGA	60.3	673	INTERGENIC	--	--	--
Ca5_P2_10687910	Ca5	10687910	CTAT/C	CGAGGAACGACAAGGG TAAA	TGAGTTGAGTTAAAAAC CAGCAGA	60.3	673	INTERGENIC	--	--	--
Ca5_P2_10689102	Ca5	10689102	TAAAA/TAA	ATGGGCCACCTATTGA GACA	TGCCAAAGAAAAAGT TTCG	60.2	623	INTERGENIC	--	--	--
Ca5_P2_10689622	Ca5	10689622	AGAAGCATG/AG	CGAAACCTTTTCTTTG GCA	AACGGATTGTCCCTTC ATTG	59.8	418	INTERGENIC	--	--	--
Ca5_P2_10693789	Ca5	10693789	CTTGATTGTTTTGTGATTG/CTT GTGATTG	CCAATTGAATTGTCCG TCC	TTGCAAAGCTGGGTC AAGT	60.8	406	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_10705967	Ca5	10705967	TA/TAATAATA	AAAACAATGTCGTGCA AAGTG	CCACCACCTTAATGA CCACA	60.7	782	INTERGENIC	--	--	--
Ca5_P2_10792462	Ca5	10792462	AATATATATATATATAT/AAATATATA TATATATATAT	TCACCTTGAATTAGGG GCA	TCATTCACCTTGTGAC CACG	59.6	634	INTERGENIC	--	--	--
Ca5_P2_10867305	Ca5	10867305	GC/G	TGTAATCATTAGGGAT GCATGA	GCACGTGCACATGTCT TACA	59.3	560	INTERGENIC	--	--	--
Ca5_P2_10995810	Ca5	10995810	AAATAATAATAATAATAAT/AAATAA TAATAATAATAAT	ACTTCAGGTGGTCGAT GTCC	GGGAGCGACCTCACAC TAGA	60.4	923	INTERGENIC	--	--	--
Ca5_P2_1101216	Ca5	1101216	GATTTGAAGAATATTTGAAGAA/GATTT GAAGAATATTTGAAGAATATTTGAAGAA	TATGTGGCGATGAAGT GAGG	TCGACCTCACAGCCA AATC	60.1	724	INTERGENIC	--	--	--
Ca5_P2_11108313	Ca5	11108313	TTATATATATATATATATATA/TTATAT ATATATATATATATATA	CCATTTGATTTGGGAG AGA	TCACTCACATATGCACC CGT	60.0	356	INTERGENIC	--	--	--
Ca5_P2_11131180	Ca5	11131180	GT/GTT	CAAGTGCACAGCGGAA TTTA	TCCGATTGGATTTTCAG GAC	59.9	148	INTERGENIC	--	--	--
Ca5_P2_11132314	Ca5	11132314	GT/G	TCGACTTGCAATCGCT TTG	GGGGGAGATTGTTGGT TTTT	60.0	686	INTERGENIC	--	--	--
Ca5_P2_11132906	Ca5	11132906	A/AG	AAAAACCAACATCTCC CCC	TTGGTCGACAAGCAAC TGAG	60.0	716	INTERGENIC	--	--	--
Ca5_P2_11166925	Ca5	11166925	CTTTTTTTTT/CTTTTTTTTTT	GGGAGCACAGTTGGAA AATC	ACGTGGCGATATGTGA ATGA	60.0	536	INTERGENIC	--	--	--
Ca5_P2_11168411	Ca5	11168411	AATA/AA	TTCAACGGAACGTGAT CTTT	TTGGTTGGGGGAGTTA TTGA	60.2	954	INTERGENIC	--	--	--
Ca5_P2_11168740	Ca5	11168740	T/TA	TCGTTGAGGAAAAACAA ACAAA	TTGGTTGGGGGAGTTA TTGA	60.2	557	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_11168801	Ca5	11168801	ACTATTAGTCTATTA/ACTATTA	TCGTTGAGGAAAAACAA ACAAA	TTGGTTGGGGAGTTA TTGA	60.2	557	INTERGENIC	--	--	--
Ca5_P2_11168904	Ca5	11168904	GTCTCTCT/GTCTCT	TCAATAACTCCCCAAC CAA	TCACAATTGGGTTTG ATCA	59.8	227	INTERGENIC	--	--	--
Ca5_P2_11169035	Ca5	11169035	CG/C	TCAATAACTCCCCAAC CAA	TGACGCCGTGAAAAAC ATTA	60.1	626	INTERGENIC	--	--	--
Ca5_P2_11233017	Ca5	11233017	TAAAA/TAAA	ATTGGACGTATCCGA GTTG	GTTGTGGGGAAGT ACCC	60.2	633	INTERGENIC	--	--	--
Ca5_P2_11291761	Ca5	11291761	TA/TAAGTCAACA	TTTGGTCCTTGTAAC CCC	GCGTGAAGATCATCT GGAT	60.0	367	INTERGENIC	--	--	--
Ca5_P2_11342947	Ca5	11342947	ATATTATTATTATTATTATTATT ATTATT/ATATTATTATTATTATTATT ATTATTATTATTATTATT	TTGCAGCAAAAAACG AAC	CATGCTCACACAATT CAC	60.0	736	INTERGENIC	--	--	--
Ca5_P2_11420785	Ca5	11420785	TTATTA/TTATTACTATTA	ATTAAGTGAATGGATC CGG	AGTGTGAAGGACGAG CAAG	60.4	485	INTERGENIC	--	--	--
Ca5_P2_11433516	Ca5	11433516	ATT/AT	TAAGCGCACGTTCAAT GTG	AAGTTGAGCAAGTCG AAAA	58.7	427	INTERGENIC	--	--	--
Ca5_P2_11434569	Ca5	11434569	ATATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA/ TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTA	TTGCAACATCCAAAT AAACG	GGTTTTGTTGACTCA GGAGC	58.8	430	INTERGENIC	--	--	--
Ca5_P2_114518	Ca5	114518	AATATATATATATATATATATATAT ATATATATATATATATAT/AATATATATAT ATATATATATATATATATATATAT	AAGGTTATGACTATGCT TGGGG	CCATGCCATAAACACT GTGA	59.5	930	INTERGENIC	--	--	--
Ca5_P2_11492835	Ca5	11492835	AAATAATAATAATAATAATAATA ATAATAAT/AAATAATAATAATAATA ATAATAATAATAATAATAAT	GGACGTTAACACGTG TCAAAA	AATATGGGGATGCGAC TACG	59.8	752	INTERGENIC	--	--	--
Ca5_P2_11496437	Ca5	11496437	TAAAAATAAAAATAAAAATAAAAA TATAAA/TAAAAATAAAAATAAAAAT ATAAAAAATAAAAATATAAA	GAAAAAAGGAAGGGA CCCG	ATTCAAATAATAAAATC ATCACGAAG	57.1	821	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_11505972	Ca5	11505972	TTCCTC/TTC	GGACCTAAATTTTGCA CAACA	GAACGCGAGATATTGG GTGT	60.0	199	INTERGENIC	--	--	--
Ca5_P2_11517113	Ca5	11517113	T/TA	TCGATTATGCGTAGGG AAGG	CGGGAGATACGTAGGA GCAA	60.2	248	INTERGENIC	--	--	--
Ca5_P2_115778	Ca5	115778	TTCACCGTCA/TTCA	AAAGATTGCAATTTGCC TGC	TTTTTAGGGGCGATT GTATT	59.7	511	INTERGENIC	--	--	--
Ca5_P2_11606213	Ca5	11606213	GATATATATATATATATATATAT/GAT ATATATATATATATATATATAT	TGTGAAAAAGATGAAGT GTGAAAAA	GTTTGGCGAAAACCTC ACCG	59.7	726	INTERGENIC	--	--	--
Ca5_P2_11628665	Ca5	11628665	CNNNNNNNNN/CNN	TATCCCCGTCCATTAAC CAA	GGGAGTGGTTGAGACC TTGA	60.1	248	INTERGENIC	--	--	--
Ca5_P2_11667274	Ca5	11667274	TTGCTGCTG/TTGCTG	GCTCAAAGCACATGAG GTGA	TGCCAAAGCCATGTTT CATA	60.1	377	INTERGENIC	--	--	--
Ca5_P2_1170267	Ca5	1170267	TGAGAGAGAGAGAGAGAG/TGAGAG AGAGAGAGAGAG	GGAGGAGAGGCAGACT TGTG	GCATGCCTCTCATTTC CAT	60.0	587	INTERGENIC	--	--	--
Ca5_P2_11729570	Ca5	11729570	AAATAATAATAA/AAATAATAA	CACGGTCCCTAGAGCC AATA	CGGGAGATACGTAGGA GCAA	60.2	672	INTERGENIC	--	--	--
Ca5_P2_11878820	Ca5	11878820	CATATATATATATATATATATATAT/AT CATATATATATATATATATATATAT	TATTTTGATTTTGGCT CGG	AGAGGGGTTTGTGTTT GACG	60.0	599	INTERGENIC	--	--	--
Ca5_P2_11879108	Ca5	11879108	TAA/TAA	AAGATTTCTCCCTCTC CCA	CTTTAACATGCGTTTC GGT	60.0	327	INTERGENIC	--	--	--
Ca5_P2_11886997	Ca5	11886997	GATAATAATAATAATAATAA/GATAA TAATAATAATAATAATAA	TGCCTTCGGTTTCTTA TTG	AATGTTTGAATCCCC CTC	60.0	888	INTERGENIC	--	--	--
Ca5_P2_11983861	Ca5	11983861	GTCT/GATCTTCT	CTGCTGTCAACTCCA CCA	TCAAAATCCCCAATAA CCA	60.0	713	DRR	Ca_17106	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_12040897	Ca5	12040897	T/TTTTAAATGAAG	TCGATGATGTAACTCG CAA	GCGGTGTCATTTTGT CAA	59.6	636	INTERGENIC	--	--	--
Ca5_P2_12129667	Ca5	12129667	CT/C	CGTATTATTTGGGGT TTGC	GCTCACAACCTCGGTCT TTCC	59.9	449	INTERGENIC	--	--	--
Ca5_P2_1230643	Ca5	1230643	TT/TTCCGT	ACGAAATCGAAGAGAA GCGA	TCCAGGACACAAACAA TCCA	59.9	455	INTERGENIC	--	--	--
Ca5_P2_12366498	Ca5	12366498	CTTTT/CTTTT	ATAAGGCTGCTGCTGT GGT	GCAATTGTTTGTTCG GCT	60.1	351	INTERGENIC	--	--	--
Ca5_P2_1239625	Ca5	1239625	AATATATATATATATATATA/AATATAT ATATATATATATATA	GGTTGATTTTGAATAGG TGTCG	ATTAAATTAAGGGGCC GCAG	60.3	107	INTERGENIC	--	--	--
Ca5_P2_12441998	Ca5	12441998	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT /AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAAT	CATCAGGCCTATTCAAG GCT	TTTTGTTGCCGAGTA GTTT	58.5	469	INTERGENIC	--	--	--
Ca5_P2_12448859	Ca5	12448859	ATTTT/ATTTT	TTCTACCCGAAATTGT GCC	GTCAGTCAGCCTCTCT TGCC	60.1	361	INTERGENIC	--	--	--
Ca5_P2_1245935	Ca5	1245935	ATTTTTTTTTTT/ATTTTTTTTTTTT	TTGACTGGGCAAAATCA ACA	TTTTATGGCTTAGAGGT GTTCAAA	59.3	206	INTERGENIC	--	--	--
Ca5_P2_12475737	Ca5	12475737	GATATATATATATATATATATATA/ GATATATATATATATATATATATATA ATA	GAGAACGCGACCTCCT ATTG	CTGGCAATGCTAGCA GAAA	59.2	529	INTERGENIC	--	--	--
Ca5_P2_12578471	Ca5	12578471	TATAAAATAAAATAA/TATAAAATAAAAT AAAATAA	CTGCATAGGCTATTGG CTGA	GCCACCCTCGTACTCC TCTT	60.6	445	INTERGENIC	--	--	--
Ca5_P2_12606519	Ca5	12606519	AAGAGAG/AAGAG	TGTGTTTGGTTGAAAGC AATG	GAAGAAGCAGTCAAGG TGGC	60.0	540	INTRON	Ca_17071	PT	--
Ca5_P2_12606549	Ca5	12606549	CGG/C	TGTGTTTGGTTGAAAGC AATG	GAAGAAGCAGTCAAGG TGGC	60.0	540	INTRON	Ca_17071	PT	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_12619050	Ca5	12619050	AATATATATATATATATATATA/AATAT ATATATATATATATATATATATA	TCCTAACCTTTTGACTA ATTTTCTTC	TCAATCCTCTTAAGATA TTTCCCTG	59.1	685	INTERGENIC	--	--	--
Ca5_P2_12631984	Ca5	12631984	GCGTC/GC	GGTTATCACCGTGGT CTCT	TGGCTTCTGGTTGGAT TTTC	60.1	648	INTERGENIC	--	--	--
Ca5_P2_1286848	Ca5	1286848	TAAAAAAAAA/TAAAAAAAAA	CTCATTGAAATTCAT TCGGA	CGTTCACCTTCCACAA AACAA	60.0	494	INTERGENIC	--	--	--
Ca5_P2_1298884	Ca5	1298884	CAAAAAAAAA/CAAAAAAAAA	TTGAGCACAGAACCA CTTCA	GGTCGTTGTGGATTT AGCG	60.5	674	DRR	Ca_26278	R	NAC
Ca5_P2_132937	Ca5	132937	CAA/CAAA	CCAAAGACACAGCAA GCAA	CACCTCCACCAGTTGC AAAA	59.7	569	INTERGENIC	--	--	--
Ca5_P2_133085	Ca5	133085	ACC/AC	GCCATGGAGTGCTGGT TATT	GCGTTGTGAAACAGG ACAA	59.7	709	INTERGENIC	--	--	--
Ca5_P2_133283	Ca5	133283	AATATAT/AATAT	ACCTTTACATGGTGCCA AGC	GCGTTGTGAAACAGG ACAA	59.7	433	INTERGENIC	--	--	--
Ca5_P2_133428	Ca5	133428	GAACA/GAACAATTTTATAATAACA	ACCTTTACATGGTGCCA AGC	GCGTTGTGAAACAGG ACAA	59.7	433	INTERGENIC	--	--	--
Ca5_P2_13624288	Ca5	13624288	ATTTT/ATTTTT	TGAAATGTTGTTGGTA GTGGC	CGACGGTGCCAATTT CTAT	60.0	948	INTERGENIC	--	--	--
Ca5_P2_13628890	Ca5	13628890	TTGT/TT	CAAAGCATAGATCGGA CCGT	CAACAATGACGCAACC ATTT	59.4	799	INTERGENIC	--	--	--
Ca5_P2_136326	Ca5	136326	A/AT	TCGAATGTCAACAAACA AGCA	ATTCCTGCACACCACTT TCC	60.0	433	INTERGENIC	--	--	--
Ca5_P2_13636401	Ca5	13636401	A/AC	ATCGACAAACCAACATG CAA	GGGAAACTCACTTGCG GTTA	60.1	735	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_13636726	Ca5	13636726	T/TCCA	TGAAATGCAGTACCATA AGTCGAT	GGGAACTCACTTGCG GTTA	60.1	629	INTERGENIC	--	--	--
Ca5_P2_13636921	Ca5	13636921	CTGT/CT	TAACCGCAAGTGAGTTT CCC	GCGGTGGCTGAGTTTC TTAC	59.9	387	INTERGENIC	--	--	--
Ca5_P2_13640097	Ca5	13640097	AATATATATATATATATATATATA/ ATATATATATATATATATATA	CCCAACAATCACCATTCA ACTCA	CTGCGATCCGATAACC TCAT	60.1	557	INTERGENIC	--	--	--
Ca5_P2_136504	Ca5	136504	AAAAAGAAAAAGAAAA/AAAAAGAAA AAGAAAAAGAAAAAGAAA	TTTCTAACCCGGAACAC GTC	ATTCCTGCACACCACTT TCC	60.0	189	INTERGENIC	--	--	--
Ca5_P2_13702174	Ca5	13702174	ATTTTTTTTTT/ATTTTTTTTTTTT	ACAGCCCAGGTGATTTT TGC	ATGGATGCAATGAACA TGGA	59.7	341	INTERGENIC	--	--	--
Ca5_P2_13714998	Ca5	13714998	TA/T	TGATGTGAGGTGACAG GCAT	GTAGCGTGGAGAGGAG CAAC	60.0	374	INTERGENIC	--	--	--
Ca5_P2_1377883	Ca5	1377883	TCC/TC	GACTCTTCCATAGCGT GCC	CACCTTGTAGCCAACG GTTT	60.0	720	INTERGENIC	--	--	--
Ca5_P2_13806811	Ca5	13806811	CATCATATC/CATC	GCCAGAAAACTTTGCA GACC	TCTTTATCCGCTGCGAT TTT	59.8	308	INTERGENIC	--	--	--
Ca5_P2_1381338	Ca5	1381338	CTTT/CTT	TCCTGGGCTTAATCAA TCG	CCCGTGATAGGCAGTA CGTT	60.0	646	INTERGENIC	--	--	--
Ca5_P2_13825062	Ca5	13825062	ATATTATTATTATTATTATTATCATT ATTATTATTAATATGATTATTATTATTAT TATTATTATTATTATTATTATTATTATTA TTATTATT/ATATTATTATTATTATTATTA TTATTATCATTATTATTATTAATATGATT ATTATTATTATTATTATTATTATTATTATTA ATTATTATTATTATTATTATTATTATTATTA	TGGTTTCATAACGTTTG TCCA	TGATTTGGTCATTGGT ATTCA	57.9	823	INTERGENIC	--	--	--
Ca5_P2_13854486	Ca5	13854486	ATA/ATACTCGATGGTA	GCTTGTCGCGTAAC CTTC	CCAATGTAGTGGTTGA TGCG	60.0	911	INTERGENIC	--	--	--
Ca5_P2_13855690	Ca5	13855690	TA/TAA	CCAGGTTTGCACTCAA CTCA	GGGTGATGAGGACTCA GGAA	60.0	573	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_14394771	Ca5	14394771	AG/A	GGCTCGTCGAACCTTT CAG	GTGGGAGACAGGTGTG GAGT	60.0	831	INTERGENIC	--	--	--
Ca5_P2_14394852	Ca5	14394852	CTTTT/CTTTT	TCTTCCACCCAGTTTC ACC	TTGAGGGCTATGTTTT CGG	60.1	337	INTERGENIC	--	--	--
Ca5_P2_146635	Ca5	146635	GAAAAAAAA/GAAAAAAAA	TGCATTATTACTTCTTT ACCAACA	CGAGGAAGGTAATACC ATTTTGA	59.4	712	INTERGENIC	--	--	--
Ca5_P2_1475597	Ca5	1475597	GAAAAA/GAAAAA	ATGCTAAGGGTGGTGC TTTG	TTGAGCCTTCACGACA TTTG	59.8	213	INTERGENIC	--	--	--
Ca5_P2_1485293	Ca5	1485293	ATTTT/ATTT	CAAATGCCCAACATTTA ACG	AGTGAAACCAACGCCA AAAC	60.0	506	INTERGENIC	--	--	--
Ca5_P2_149074	Ca5	149074	TT/TTAT	TTCGGTTGGTTTGCAA TTT	TGCGGAGTTGGATCTC TCTT	60.0	200	INTERGENIC	--	--	--
Ca5_P2_1511121	Ca5	1511121	CTTT/CTT	GGGACTGATTCGTCCT TTCA	TGAACGTAGAGTTTGC ACCG	59.9	473	INTERGENIC	--	--	--
Ca5_P2_15126551	Ca5	15126551	CTTTTTTTTTTT/CTTTTTTTTTTTTTT	CCTGTGGTGAGTGTG ATGG	AGACAGAAAGGCGAA TCAA	59.8	596	INTERGENIC	--	--	--
Ca5_P2_15176756	Ca5	15176756	AATATATATATATATATATATATAT/ AATATATATATATATATATATATAT AT	ACATTTAGGCCCACTG GTG	GTTGGTTCCTAGCAC CGTA	60.0	725	INTERGENIC	--	--	--
Ca5_P2_15184248	Ca5	15184248	AGGGGGG/AGGGGGGGG	TCTAACCCGGAATCCTT TGA	TGAGGATTGAACGTAA CCCA	59.0	300	DRR	Ca_21631	--	--
Ca5_P2_152255	Ca5	152255	CATATATATATATATAT/CATATATAT ATATATAT	TTTTGGCCCTAAGACA CAC	TTTAATTGCACGCTCAC GTC	59.9	331	INTERGENIC	--	--	--
Ca5_P2_15237764	Ca5	15237764	GATATTCATTAT/GAT	GTGCGGTCCTTAATTG CAT	GTTGTGGGATGAAGT ACCC	60.2	697	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_16109117	Ca5	16109117	ATTTTTTTTTTT/ATTTTTTTTT	CACCACTGAAACCAAC CCT	CAAGTGGAACCCACCA ATTT	59.7	188	INTERGENIC	--	--	--
Ca5_P2_161153	Ca5	161153	CTT/CTTAAATT	CTGATACTCCACTTTGT CGTGTG	GCATAATCCGCTCACC CTAA	60.1	819	INTERGENIC	--	--	--
Ca5_P2_16126632	Ca5	16126632	CTATATATATATATA/CTATATATAT ATATATA	GCCACGATTTATACCG CTTT	ATGGAAGAAAAGATGC CACG	60.1	388	INTRON	Ca_17911	C	MYB
Ca5_P2_16238083	Ca5	16238083	AATATATATATATATATATATATA/ ATATATATATATATATATATATATA	CTGATGCGGCCATTAA AACT	TGTTCCCCCAGAAACA TCAT	60.2	409	DRR	Ca_17916	K	MYB
Ca5_P2_162548	Ca5	162548	TTTATT/TTT	TGTCCTGTGCAAGAGA GGC	TCCATGACAGTTCAAG GATCTC	59.1	456	INTERGENIC	--	--	--
Ca5_P2_16319965	Ca5	16319965	TGGG/TGGGG	TTGTGTGCAAGATCCA CATT	TTGACCATTGCACGAA ACAT	60.0	502	INTERGENIC	--	--	--
Ca5_P2_1633237	Ca5	1633237	CAAAAAAAAA/CAAAAAAAAA	TGCATTGTGCTAGATG GTCTT	TGTTCCGATTGTATTT GAGGA	59.5	699	INTERGENIC	--	--	--
Ca5_P2_1634715	Ca5	1634715	ATTTTTTTTTTTTT/ATTTTTTTTTTT TT	TGTTACATGGTTGCTCC CAA	CGATACTACCCCTCG TTGT	60.0	829	INTERGENIC	--	--	--
Ca5_P2_16363340	Ca5	16363340	GTT/GTTT	AATCCTGGTGACGATT TTC	ACATCGCCATTACCGA ACTC	60.0	445	DRR	Ca_17921	R	MYB_related
Ca5_P2_16382084	Ca5	16382084	TAAAAAAAA/AAAAAAAA	CTCCCTCTGCAACACAC AGA	TGCAGATAAATGGCCA AACA	60.1	469	INTERGENIC	--	--	--
Ca5_P2_16393546	Ca5	16393546	CTTTTTTTTT/CTTTTTTTTT	CACAACCTCCGCCATTAC CTT	GTTGCAAGTTGCCGTG TCTA	59.9	713	INTERGENIC	--	--	--
Ca5_P2_164138	Ca5	164138	T/TGTAATG	GGTAAAGAGACTCGC GTGG	CTGATGTGCTCGTTGT TGCT	60.1	695	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_16470095	Ca5	16470095	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA/ AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAA	CATCCATTGGCTTTTG ACA	TCGGAAAGTTGGCCAA TAAA	60.4	789	INTERGENIC	--	--	--
Ca5_P2_165547	Ca5	165547	TTATA/TTATATATA	ATTAATTGGATTGGCA GCG	ATTTTGGTTTGCCACA CTC	59.8	572	INTRON	Ca_18171	--	NAC
Ca5_P2_16633256	Ca5	16633256	GTTTTTTTTTTT/GTTTTTTTTTTT	GGAATCCATTCGTATT TGC	GTATGCCAAGTCCAGG AAGC	59.7	628	INTERGENIC	--	--	--
Ca5_P2_166515	Ca5	166515	TTAATAATAATAAT/TTAATAATAATAA AT	ATTCTGCAGGAGGCCA CAGT	TTGGATTCCAGTCCCA TAGC	59.9	285	CDS (large-effect mutations)	Ca_18171	--	NAC
Ca5_P2_166546	Ca5	166546	CAATCCAAATCCAAATCCAAATCCAAAT C/CAATCCAAATCCAAATCCAAATCCAA ATCCAAATC	ATTCTGCAGGAGGCCA CAGT	TTGGATTCCAGTCCCA TAGC	59.9	285	CDS (large-effect mutations)	Ca_18171	--	NAC
Ca5_P2_16715406	Ca5	16715406	GAAAAAAAA/GAAAAAAAA	TTGCGTTACGGATTGA TGA	GCTAAATTACATTCGTG GTCCC	59.7	240	INTERGENIC	--	--	--
Ca5_P2_16765808	Ca5	16765808	TAGA/TA	CGATCGTGCTACGTCTT CAA	TGGTGGGAATGTTGTG ATTG	60.2	677	DRR	Ca_17941	R	HSF
Ca5_P2_1677289	Ca5	1677289	CTATATATATATATATATATATATATA T/CTATATATATATATATATATATATAT ATAT	AAGCGCTGTAAAAGGT GCAT	ATGTGAATCCCACCAG GAAA	60.2	794	INTERGENIC	--	--	--
Ca5_P2_168125	Ca5	168125	T/TG	AGAGAGGGCTTCGTTCA AACA	CGAGACCATTCAGTCC AAAAA	60.1	577	DRR	Ca_18171	--	NAC
Ca5_P2_168371	Ca5	168371	TAAAAAAAA/TAAAAAAAA	TTTTTGACTCAATGTT CTCG	ACCACTGAAACCAACC ACAT	57.7	564	DRR	Ca_18171	--	NAC
Ca5_P2_16881029	Ca5	16881029	GGTTGTTGTTGTTGTT/GGTTGTTGTTG TTGTTGTT	TGCATGCTTAATTTGAC AGTGA	TGATTTAACGGTTGTGA TTGATT	58.4	779	INTERGENIC	--	--	--
Ca5_P2_16889364	Ca5	16889364	AATATATATATATATATATATATATATA TATATATATATATATAT	GGAGAAAATTCATTGG CATT	CCTTTCATGGGACAG TTTT	60.0	985	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_1695092	Ca5	1695092	TTTCNNNNNNNNNTTC/TTTC	TCCACTTCACAAAGCAG CAC	GCTGCAAGTGCAGAGC ATAG	59.9	282	INTERGENIC	--	--	--
Ca5_P2_16958159	Ca5	16958159	GA/G	GGAAGGATGGAATTT TGGT	TATTTTGGATTTTGGCT CGG	59.9	417	INTERGENIC	--	--	--
Ca5_P2_16958294	Ca5	16958294	AT/A	GGAAGGATGGAATTT TGGT	GGTGGAGAGTGAGGT GGTGT	60.0	684	INTERGENIC	--	--	--
Ca5_P2_16961163	Ca5	16961163	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTAT/TTTATTATT ATTATTATTATTATTATTATTATTAT TATTATTAT	TCAATCCGTTTCTTTTC GGA	TTGAAGCCGAGAAAAC GACT	60.0	672	INTERGENIC	--	--	--
Ca5_P2_16964758	Ca5	16964758	CA/CAA	TTGTCGTCTCGATGTAA GCG	TCTCAATCAAATAGGC CCG	60.0	296	INTERGENIC	--	--	--
Ca5_P2_16970696	Ca5	16970696	GATAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATAATA /GATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATA	TTGCTCCTACGTATCCC CAG	CCTCCCGTCCATTTT ATT	60.0	594	INTERGENIC	--	--	--
Ca5_P2_17007480	Ca5	17007480	AATATATATATATATA/AATATATATAT ATATATATA	TGCAATCAATTTTGTAG CCA	TGGTGGTTGTTGTCTC CTCA	60.1	626	INTERGENIC	--	--	--
Ca5_P2_17020837	Ca5	17020837	TAGAGAGA/TAGAGA	CCTACGGATGACCTCT CTCG	GGTTTAACATCCCCAC AAGC	59.3	773	INTERGENIC	--	--	--
Ca5_P2_170263	Ca5	170263	ATT/ATTTT	TCCAAGACCAGGCTAA ATGC	CATGGACAAATGCAC AAGG	60.0	504	INTERGENIC	--	--	--
Ca5_P2_1709441	Ca5	1709441	T/TC	AAGCTTGATAGCCACA TGC	ACAAATGTTTCCCCCA TCA	60.0	453	INTERGENIC	--	--	--
Ca5_P2_1709760	Ca5	1709760	A/ATT	TGATGGGGAAACATT TTGT	AAAAAGGCATGTGAA TGATCT	59.8	247	INTERGENIC	--	--	--
Ca5_P2_171078	Ca5	171078	TAAA/TA	AATGGTTTTCAGAGCG GAGA	GCAAATTTGTGTGTG CTTTG	59.3	723	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_171559	Ca5	171559	A/AT	CAAAGCACACAAAT TTGCTA	GCCATCCATCTACAAG CCAT	59.9	277	INTERGENIC	--	--	--
Ca5_P2_17169621	Ca5	17169621	CAAAA/CAAAAA	CCTCGAAGGACCGTAA ATCA	GTGGCACCTCGGTAAA CAGT	60.0	427	INTERGENIC	--	--	--
Ca5_P2_17244450	Ca5	17244450	AG/A	GTACCCTCCTCCTCGG TCTC	TTGTGTTTCAACAACCT CCAA	59.1	729	INTERGENIC	--	--	--
Ca5_P2_17258502	Ca5	17258502	TTAATAATAATAATAATAATAATAA/ TAATAATAATAATAATAATAATAA A	ATGTGGGAGACATGTG TGGA	TTAAGCCACAAGTGGG GAAC	60.0	712	INTERGENIC	--	--	--
Ca5_P2_17263854	Ca5	17263854	TTATATATATATATATATATATATATA TATATATATATATATAT/TTATATATATAT ATATATATATATATATATATATATAT	GCTTTTATCTTGGCCCT CCT	AATTGTGGATGCAGAG TGTC	60.0	288	INTERGENIC	--	--	--
Ca5_P2_17314539	Ca5	17314539	TAAAAAAAAA/TAAAAAAAAA	TCGATTATGCGTAGGG AAGG	TTGCGACAACCTGGTG ATTC	59.7	824	INTERGENIC	--	--	--
Ca5_P2_173324	Ca5	173324	ATTTTTTTTTTT/ATTTTTTTTTTT	TGTTTATCCACAAGCTT TCCG	ACCGTGAGATGCCACA TTTT	60.4	270	DRR	Ca_18172	J	--
Ca5_P2_17448710	Ca5	17448710	CACTATACAA/CACTATACAACATACAA	TGTGGATGTTCAAGGG ACAA	ACAAATGGCGTATGCC TCTC	60.1	864	INTERGENIC	--	--	--
Ca5_P2_17494887	Ca5	17494887	CTGA/CTGACCTCCTATATGTGA	CTACGCCAAGAACTG CTCC	GTACGCGTCCAGACAT AGCA	59.9	245	INTERGENIC	--	--	--
Ca5_P2_1749550	Ca5	1749550	ANNNNNNNNN/ANNNNN	TCCACTTCACAAAGCAG CAC	TGGTGTGTCGTCAGA ATGA	58.6	398	INTERGENIC	--	--	--
Ca5_P2_17503626	Ca5	17503626	TATCAT/TAT	ATGGGGATAGCTTTGA GGGT	CTCCTTTCCTGCTGCT TATG	60.0	601	INTERGENIC	--	--	--
Ca5_P2_17526738	Ca5	17526738	T/TG	GATTGGGGGAAGATGA GGAT	TTTGCGTTACGAATTTG ATGA	59.2	465	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_17575418	Ca5	17575418	GTT/GT	TCTCCATTCTGTCCGT AGG	TTAAGTCAGGGGCTCA GGAA	59.8	523	INTERGENIC	--	--	--
Ca5_P2_17612584	Ca5	17612584	CATTCAAAAAATTC/CATTCAAAAA TTCATAAAAAATTC	GTCTCTTGCTCTCCAC CAA	TTTATGTGGTGAATTG GCGA	59.9	769	INTERGENIC	--	--	--
Ca5_P2_17613064	Ca5	17613064	GAAAAAAAAA/GAAAAAAAAA	CGCCAATTCACCACATA AAA	TGCTTTCCAAGATGGA TGTTG	59.6	293	INTERGENIC	--	--	--
Ca5_P2_17672056	Ca5	17672056	GTTTT/GTTTTT	CTGTTTCATCGCACGCA CTAT	AGAATACGTGGTAGGG CACG	60.0	446	INTERGENIC	--	--	--
Ca5_P2_17726441	Ca5	17726441	ATTTTTTTTT/ATTTTTTTTT	GGTCCAATTCACCAT GTC	TCTGATTTGGGCTGCC TAGT	59.8	294	INTERGENIC	--	--	--
Ca5_P2_17733319	Ca5	17733319	A/ATCGGTTACGC	CGCGATGTCGTCTAAA GTGA	GAGGGGAGGGTTTTG CTAC	59.9	583	INTERGENIC	--	--	--
Ca5_P2_17757862	Ca5	17757862	TC/TCC	AGAGTCTTTCCAAACG GCCT	TGTTGGAATCAAGTTG GTTTT	57.1	815	DRR	Ca_22474	--	--
Ca5_P2_17760753	Ca5	17760753	TAATAAAATAAAATAAAATAAA/TA ATAAAATAAAATAAAATAAAATAAA A	TGAAACCGCGTTTGATT GTA	GGTTGGGACCACTTCT CAAA	59.9	168	INTERGENIC	--	--	--
Ca5_P2_17763580	Ca5	17763580	CATATATATATATAT/CATATATAT ATAT	TCAGGGGCCTATGATT GAC	TGTGCAACTTGAAC CTAGA	59.5	462	INTERGENIC	--	--	--
Ca5_P2_17763617	Ca5	17763617	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTAT TTATT	TCAGGGGCCTATGATT GAC	TGTGCAACTTGAAC CTAGA	59.5	462	INTERGENIC	--	--	--
Ca5_P2_17852569	Ca5	17852569	ATTTTTTTTT/ATTTTTTTTTT	AGCCAGTCGAAGCACA TTCT	TCCCCTTGAATTTTGA GTG	59.9	791	DRR	Ca_22847	--	--
Ca5_P2_17876530	Ca5	17876530	CAA/CAAA	TTTCATCCATCACCGAC AAA	CTCAACGAATGCCTGA AACA	59.8	573	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_17876693	Ca5	17876693	CACAAA/CAA	TGTTTCAGGCATTCTG GAG	TCAATACCATTTTCACC GCA	59.9	471	INTERGENIC	--	--	--
Ca5_P2_179179	Ca5	179179	CAAAAAA/CAAAAAAA	TTAGCAGCAGACGCA GAGA	GACTCTGCTGGTTGG AAGC	60.0	340	INTRON	Ca_18172	J	--
Ca5_P2_180097	Ca5	180097	ATTTTTTTTT/ATTTTTTTT	ATGACCAAGGAGGCAC AGAC	GAATCAGAATGACGAT TGTTTGA	59.1	782	INTERGENIC	--	--	--
Ca5_P2_18015209	Ca5	18015209	TAAA/TAA	GCTTATCCCGAATTG ACA	ATCGCATTGACGAC AAAA	59.3	759	DRR	Ca_22851	--	--
Ca5_P2_180472	Ca5	180472	A/AC	CCCTCAAACAAGGTTG TTAGTTT	TGACAAATTTGATTGGA GAGTCA	59.6	913	INTERGENIC	--	--	--
Ca5_P2_18049660	Ca5	18049660	CATATATATATAT/CATATATATAT	GCACGTTGTAAAGAGT GGACTG	AAAAGGCCCAAGAG TTGA	59.7	694	INTERGENIC	--	--	--
Ca5_P2_18072367	Ca5	18072367	TAAAAAAAAA/TAAAAAAAAA	CGAAAAAATAAGGTG CAGTT	GTTCAACTGACGGGA GAAA	60.1	613	INTERGENIC	--	--	--
Ca5_P2_18136111	Ca5	18136111	CTTTTTTTTT/CTTTTTTTTTT	CGGGTCATTTCTTCT CCA	TTGTGGTCCTTTAAGAT GGTTG	59.0	327	INTERGENIC	--	--	--
Ca5_P2_18176797	Ca5	18176797	TAAAAAAAAA/TAAAAAAAAA	TGGGTTGAAAGTTGGA TGTG	ATCCTGGTTGGGAAG GTAG	60.2	473	INTERGENIC	--	--	--
Ca5_P2_18181708	Ca5	18181708	GTTTTTTTTT/GTTTTTTTTTT	ACGGTTAACGGATGAC GAAG	TGTAACAACTGCAAT GGG	59.4	595	INTERGENIC	--	--	--
Ca5_P2_18191704	Ca5	18191704	ATTTTTTTTT/ATTTTTTTTTT	TGAAATCCGCCTAAATC CTG	TAATTGGGAACCAAA AAGC	58.9	715	INTERGENIC	--	--	--
Ca5_P2_1819638	Ca5	1819638	GAAAAAAA/GAAAAAAA	TCTGGAGTTTCGAGC GATT	GATGAAATCGAGGACC AGGA	60.0	384	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_1824949	Ca5	1824949	TCC/TCCC	GCCCAAAAGTCCAAT GAA	GCTAGGGTGGAGCCT CTCT	60.0	810	DRR	Ca_26714	--	--
Ca5_P2_18261167	Ca5	18261167	CAAAAAAAAA/CAAAAAAAAA	ACCATGCAAGACATCC ACA	AACCGGGTACCAATT CACA	60.1	697	INTERGENIC	--	--	--
Ca5_P2_18299239	Ca5	18299239	GTTTTTTTT/GTTTTTTTTT	ATCACAAATTTTCGCGA CCT	CGGGATTGTGAAGAAG TGGT	60.0	880	INTERGENIC	--	--	--
Ca5_P2_18300997	Ca5	18300997	TA/TAA	TAGAAGCTGAGGTGG CAGT	AAATTGAACATGCCTC GACC	59.9	657	INTERGENIC	--	--	--
Ca5_P2_18310904	Ca5	18310904	GTTTTTTTTTT/GTTTTTTTTTTT	ATGGGTAAAAACGCATT GCT	CCCATCACCTCCCTA TTTT	60.0	314	INTERGENIC	--	--	--
Ca5_P2_18311599	Ca5	18311599	GAATAATAATAATAATAATAATA ATAATAATAATA/GAATAATAATAA TAATAATAATAATAATAATAA	AAAAGCCATGCAACCA AAG	GAAGAAGATGGGTTGG CTGA	60.2	589	INTERGENIC	--	--	--
Ca5_P2_18404984	Ca5	18404984	CATATATATATATATATATATA/CATA TATATATATATATATATATATATA	ATTTTGGACAACAGTT CGC	GCAAGAACATGTGAGG AGCA	60.0	397	INTERGENIC	--	--	--
Ca5_P2_18428828	Ca5	18428828	CGG/CG	CGATTGACGAATCGATT GAA	GTTTAGGCACGTAGGG ACCA	60.0	348	INTERGENIC	--	--	--
Ca5_P2_18589511	Ca5	18589511	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTAT/TTTATTATTATTATTATT TATTATTATTATTATTATTATT TTATTATTATTATTATTATT	CACGTTCCCACTCTC TCA	TCCATTACGGCAAATT CAA	59.0	829	INTERGENIC	--	--	--
Ca5_P2_18593873	Ca5	18593873	TTA/T	GGTCTGTCCAATCAGA CCGT	TCCATTAAGCCCCTCAA CAA	60.4	600	INTERGENIC	--	--	--
Ca5_P2_18612826	Ca5	18612826	GTATATATATATATATATATATATA TAT/GTATATATATATATATATATAT ATATATAT	GCAATTAAAGTTGCCTT GGAA	TGCATAGGTCCCATAA AAACG	59.8	374	DRR	Ca_24762	QR	B3
Ca5_P2_18645920	Ca5	18645920	ATTTTTTTTTTT/ATTTTTTTTTTT	GGGTGGGAATAGGTCA GGTT	GGTTTGCAGGATTGT GACT	60.1	779	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_18683897	Ca5	18683897	AGCG/AGCGCGAGTCATCAGCTCGG	ATGGCCGTTCTTAGTTG GTG	GTACAAAGGGCAGGGA CGTA	60.0	395	INTRAGENIC	--	--	--
Ca5_P2_18761912	Ca5	18761912	TAAAAATAAAAAATAAAAAATAA A/TAAAAATAAAAAATAAAAAATAA	CCGCATAACAAAATCT TCCA	AGAAAAACCTCCCTGC GAAT	60.1	504	INTERGENIC	--	--	--
Ca5_P2_18774822	Ca5	18774822	CA/CAA	TAGACGTTGGGGACAC ATGA	GGATCTCTTCTCATGG CTGG	59.8	562	INTERGENIC	--	--	--
Ca5_P2_18813953	Ca5	18813953	AAATAATAATAATAATAATAATA ATAACAATAATAACAATAATAAT AATAATAATAATAAT/AAATAATAAT AATAATAATAATAATAACAATAATA TAACAATAATAATAATAATAATA ATAATA	AAGAGACTTTTGGGGC AACA	ATGCATTGCAACTCAT CTTT	57.4	505	INTRON	Ca_24488	--	--
Ca5_P2_18821116	Ca5	18821116	AGAACTTTTCGAACTTTTCGAACTTTC GAA/AGAACTTTTCGAACTTTTCGAA	TGAGTTTTGTACCACGC ACC	GCCAAACGTTCGAAAT GAAA	61.0	789	INTERGENIC	--	--	--
Ca5_P2_188946	Ca5	188946	CTT/CTTT	CCCCATTTTACAATCC ACG	CATGTATGAGCAGCCA CACC	60.1	366	INTERGENIC	--	--	--
Ca5_P2_18944656	Ca5	18944656	CAAAA/CAA	TCCTGTCATGTGCTTTC AGC	CTAACCTCCAGGACC CAAT	60.2	131	INTERGENIC	--	--	--
Ca5_P2_190126	Ca5	190126	AAA/AAATTAA	CCCAAAACTAGTGAG GCGA	AAATCCTAAAAGCACG GGTT	57.7	828	INTERGENIC	--	--	--
Ca5_P2_1903216	Ca5	1903216	GA/GAA	TGCATAGGCCTCTTGTC CTT	AGTTCCGCGCTAGATT TCAA	60.0	553	INTERGENIC	--	--	--
Ca5_P2_191179	Ca5	191179	CCAA/CCAACAA	GCAAGTGATGATGAG CGGA	GCTCCAAAGTGCAAGT GTGA	60.0	605	INTERGENIC	--	--	--
Ca5_P2_191704	Ca5	191704	CGGA/C	TCACACTTGCACTTTGG AGC	TTGTTGGGATCCCTGA AGAG	60.0	484	INTERGENIC	--	--	--
Ca5_P2_191792	Ca5	191792	ACTATCTATCTATA/ACTATCTATCTA TCTATCTA	TCACACTTGCACTTTGG AGC	CTTGGAAATCGAAACCG TTGT	60.0	680	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_20455904	Ca5	20455904	TTTATTATTATTATTATTATTATT ATTATTATTATTGTTATTATTGTTAT TATTATTATTATTATTATTATTATTA TT/TTTATTATTATTATTATTATTATT ATTATTATTATTGTTATTATTGTTATTAT	TCACTTTCCAGCCTCC ACT	CCCGGTCAAACCTCAA ATTA	59.8	729	DRR	Ca_18207	--	--
Ca5_P2_20515946	Ca5	20515946	GAAAAAAAAA/GAAAAAAAAA	TGTCAACAGCAGAGGC TGAG	TGGTTCCAACATCTC CTCC	59.9	577	INTERGENIC	--	--	--
Ca5_P2_20518047	Ca5	20518047	ATATTATTATTATTATTATTATTATT ATTATTAT/ATATTATTATTATTATTATTA TTATTATTATTATTATTAT	TGGCTACTTATGACCT GGC	TGAGTCCGGCCTACGA TTTA	60.6	592	INTERGENIC	--	--	--
Ca5_P2_20547334	Ca5	20547334	AACCAACACCAACCAACA/AACCAAC ACCAACACCAACACCAACA	AGGAGATGGAGCGTTG TTTG	TTGGTTAGCGTGCATC TGAG	60.0	462	INTERGENIC	--	--	--
Ca5_P2_206513	Ca5	206513	ATT/AT	ATCACGCAGATGATGG CATA	AAAGGCAAAAGGATGG GAGT	59.9	426	INTRON	Ca_18175	--	--
Ca5_P2_20743462	Ca5	20743462	AA/AATA	AAAATAAAGCATGGCGT TGG	AGTTTGTAACCGTGC GTCG	61.1	258	INTERGENIC	--	--	--
Ca5_P2_20759180	Ca5	20759180	CAATAATAATAATAATAATAATAATA ATAATAATAATAAT/CAATAATAATAATA ATAATAATAATAATAATAATAAT	AACAGGAGGTCGTTGT GACC	ATCAGGTTCCGTTGCA AGAC	60.1	757	INTERGENIC	--	--	--
Ca5_P2_20781552	Ca5	20781552	GATATATATATATATATATATATATAT GATATATATATATATATATATATATAT AT	GCTGAGGTGGGAAACA TTTG	CCAAATCAGAACCAAA GGCA	61.0	598	DRR	Ca_18223	--	ARF
Ca5_P2_208088	Ca5	208088	TA/T	TGTTTGGGGAACCTGC TTTC	GCCAAATGCGACTCT GTTA	59.9	578	INTERGENIC	--	--	--
Ca5_P2_208132	Ca5	208132	TAATGAATGAATGAA/TAATGAATGAAT GAATGAA	TGTTTGGGGAACCTGC TTTC	GCCAAATGCGACTCT GTTA	59.9	578	INTERGENIC	--	--	--
Ca5_P2_2082706	Ca5	2082706	TA/TAA	CAAGCATGATCCAGGG AGAT	CCATAACCGGAATTAAT GGACC	59.5	475	INTERGENIC	--	--	--
Ca5_P2_2083274	Ca5	2083274	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTA/ATATTAT TATTATTATTATTATTATTATTATTATTA TTATTATTATTA	CCATTAATCCGTTTAT GGTGAA	TTTCTAAATTCGAGG ACAAA	57.9	501	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_208514	Ca5	208514	ATTTTTTTTTTT/ATTTTTTTTT	ATTCCAATTCGGATGT CTC	AACAAGTGATGGTGAT GCCA	60.0	407	INTERGENIC	--	--	--
Ca5_P2_20895157	Ca5	20895157	TTTATTATTATTATTATTATTATT ATTATTATT/TTTATTATTATTATTAT TATTATTATTATTATTATTATT	ATGAAGTGATGCCCTTA CCG	TTGGATGGAGGTTGTG TTGA	59.9	303	INTERGENIC	--	--	--
Ca5_P2_209767	Ca5	209767	GAAAAAAAA/GAAAAAAAAA	AAAACATTCAACCAACC ACCA	TTAGACCATCCACAACA CGG	59.4	320	DRR	Ca_18176	--	C2H2
Ca5_P2_210018	Ca5	210018	TTATACTTATCTAT/TTAT	TTAAACACCCGTGTTGT GGA	AAATGGCTTAGGGAGG GAGA	60.0	607	DRR	Ca_18176	--	C2H2
Ca5_P2_2100697	Ca5	2100697	ATTTTTTT/ATTTTTT	TGGACACGACGGTGAA ATAA	TTCGGTTCTTGTTGCC TCT	59.9	642	INTERGENIC	--	--	--
Ca5_P2_21009024	Ca5	21009024	CTATATATATATATATATATATAT/C TATATATATATATATATATATATAT AT	AACAGATTTTAACCCGT GCG	CGCAATGCGAGAGTTA TCGT	61.3	275	INTERGENIC	--	--	--
Ca5_P2_210200	Ca5	210200	ATTTTTTTTT/ATTTTTTTTT	TTAAACACCCGTGTTGT GGA	AAATGGCTTAGGGAGG GAGA	60.0	607	DRR	Ca_18176	--	C2H2
Ca5_P2_210510	Ca5	210510	ATT/ATTT	TCTCCCTCCCTAAGCCA TTT	GAATTATCCGCTGCTT GCAT	60.2	201	DRR	Ca_18176	--	C2H2
Ca5_P2_210754	Ca5	210754	TAAAAAAAAA/TAAAAAAAAA	TCTCCCTCCCTAAGCCA TTT	TGGCTCAGAGCTGATT CTGAT	60.1	746	DRR	Ca_18176	--	C2H2
Ca5_P2_21085449	Ca5	21085449	A/AT	TTAGGCGACCACTGTAT CCC	TGAGCCACTTTGATCA GCAC	60.0	758	INTERGENIC	--	--	--
Ca5_P2_21106062	Ca5	21106062	CATATATATATATATATATATATAT AT/CATATATATATATATATATATAT ATATATAT	GATTTTGACGATGCCTT GGT	TTCTTTCCTTGCTCACC TTCA	60.0	443	INTERGENIC	--	--	--
Ca5_P2_21106566	Ca5	21106566	TAGAA/TAGAAGAA	TGAAGGTGAGCAAGGA AAGAA	AAAAACCACAAGTGTG CTTAGG	58.4	236	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_21121401	Ca5	21121401	CACATATA/CATA	TGTCACCATTCAAGGAA GCA	TGCTACTAGGCCCTCA GCAT	60.0	721	INTERGENIC	--	--	--
Ca5_P2_21144099	Ca5	21144099	ATATTATTATTATTATTATTATT ATTATTATTATTATT/ATATTATTATTATT ATTATTATTATTATTATTATTATTAT TATT	AATCGTTGGTGGCCTTA GTG	AGGGGAAAACCTTGCT CCTA	60.1	484	INTERGENIC	--	--	--
Ca5_P2_21152020	Ca5	21152020	ATTTTTT/ATTTTTTT	AAATTGTGGGTTTCGC GTAG	GAGGTAGGTGGCAAG GACA	60.1	459	INTERGENIC	--	--	--
Ca5_P2_2140832	Ca5	2140832	G/GC	GCCCGGATTGCAAGTA TAAA	TTTGTGAGAGGGTGGG AGTC	60.1	549	INTRON	Ca_26505	B	--
Ca5_P2_21411216	Ca5	21411216	TAAAAAAA/TAAAAA	CCAAAGTGGGTCAATAA CGC	CTTCGACAGCCAGTTC ATCA	60.0	883	INTERGENIC	--	--	--
Ca5_P2_21459937	Ca5	21459937	GATATATATATATATATAT/GATATAT ATATATATATAT	AAATTGAAGCTCGAATC CCA	GCCCTGTTTGTTCGA TTGT	60.9	671	INTERGENIC	--	--	--
Ca5_P2_21498233	Ca5	21498233	AT/ATTGGTCCAAACGTT	CCAGTCTCTTTGGTTCT CAC	GGGCATTGTGAGAAGGT ACGA	60.1	826	INTERGENIC	--	--	--
Ca5_P2_21501337	Ca5	21501337	AAT/AATAT	GCGTCGTACGGAGACA AATTA	TGACGAAGGAAACCA TGTG	59.5	340	INTERGENIC	--	--	--
Ca5_P2_21623515	Ca5	21623515	AAATTAATT/AAATT	AGGTCATTTTCATCCAC CCA	ACACACCTATGGGATG CACA	59.8	678	INTERGENIC	--	--	--
Ca5_P2_21754940	Ca5	21754940	AAATAATAATAATAATAATAATA ATAATAATAATA/AAATAATAATA AATAATAATAATAATAATAATAA TAATAATAATAATA	TAAACATGTTGCATC CGC	TTGCAGCAAAACAAG CAAC	60.0	396	INTERGENIC	--	--	--
Ca5_P2_21755455	Ca5	21755455	CATAG/CATAGTATAG	TGGCTTTGTGATCTCA TGC	ACCAATGCAAGCTGGA AGAA	60.8	363	INTERGENIC	--	--	--
Ca5_P2_21756986	Ca5	21756986	GAAAAAAA/GAAAAAAA	AAACCTGGATGGGAAT TCAA	TCGACTTGCTTTGGCT TTTT	60.0	439	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_21762261	Ca5	21762261	TG/T	TACCTTAACGCCTCCAC CAC	CAAGGTGAAGAGGCTT TTGC	60.0	708	INTERGENIC	--	--	--
Ca5_P2_21779978	Ca5	21779978	TAAAAAAAAA/TAAAAAAAAA	TGGTTGTTCAATTCATG TTCAA	CACCCAATGGTGATT GCAA	59.4	696	INTERGENIC	--	--	--
Ca5_P2_217922	Ca5	217922	CTT/CTTAGTTT	AAGGACATCCACAATG GAAA	ATCACAACACCACCAC GCTA	60.0	406	INTERGENIC	--	--	--
Ca5_P2_218483	Ca5	218483	ATCTCTC/ATCTCTCTC	TAGCGTGGTGGTGTG TGAT	CCTTCAAGGTCAGCC ACAT	60.1	739	INTERGENIC	--	--	--
Ca5_P2_218592	Ca5	218592	TATAATAATAATAATA/TATAATAATA ATAATAATAATA	TAGCGTGGTGGTGTG TGAT	CCTTCAAGGTCAGCC ACAT	60.1	739	INTERGENIC	--	--	--
Ca5_P2_21866401	Ca5	21866401	CT/CTTT	GGTTGAGAGGGCTCAA CAAG	GCTTCGTTCTTCGTTCT TCG	60.1	615	INTERGENIC	--	--	--
Ca5_P2_21866481	Ca5	21866481	GA/GAA	TCCGATTGGATTTTCAG GAC	GCTTCGTTCTTCGTTCT TCG	60.1	437	INTERGENIC	--	--	--
Ca5_P2_21874875	Ca5	21874875	GAAAAAAAAA/GAAAAAAAAA	TAAACACTTAACCGGG GCTG	ACTTTCAGCTGGGCAC ACTT	59.9	424	INTERGENIC	--	--	--
Ca5_P2_21883868	Ca5	21883868	AATATATATATATATATA/AATATATAT ATATATATATATA	GCTCCATTTGTGGTTCC AAT	CTATTTTGCTATGCCGC TCC	59.8	405	INTRON	Ca_24467	--	C2H2
Ca5_P2_21899576	Ca5	21899576	TAAAAAAAAA/TAAAAAAAAA	TGACCTGACGTGGCCT ATTG	CCCAAACAAGCCTTAT GGA	59.9	519	INTERGENIC	--	--	--
Ca5_P2_21899696	Ca5	21899696	TAAAAAA/TAAAAAA	TGACCTGACGTGGCCT ATTG	CCCAAACAAGCCTTAT GGA	59.9	519	INTERGENIC	--	--	--
Ca5_P2_219030	Ca5	219030	TAAAAAA/TAAAAAA	TTGAGATGTGGCTGAC CTTG	CTGGAGCTGTCTCCAA CACA	60.0	613	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_22918526	Ca5	22918526	AT/ATT	TTATCGGCCTTATCCAC TGC	TGAAATCCATGAACC GTGA	59.9	915	INTERGENIC	--	--	--
Ca5_P2_22919284	Ca5	22919284	ATTTT/A	TCACGGTTCATGGATTT TCA	TTCGGAGATTCCACCA AATC	59.9	639	DRR	Ca_21962	--	--
Ca5_P2_22919631	Ca5	22919631	AG/A	GATTTGGTGAATCTCC GAA	GCCACCGACTACTTCT CCCT	60.6	336	DRR	Ca_21962	--	--
Ca5_P2_22919722	Ca5	22919722	GTT/GT	GATTTGGTGAATCTCC GAA	GCCACCGACTACTTCT CCCT	60.6	336	DRR	Ca_21962	--	--
Ca5_P2_2295220	Ca5	2295220	GAA/GA	GCACCAGCATAAACTG CACA	GCAGGAGTTTTCTTG CATT	59.3	739	INTERGENIC	--	--	--
Ca5_P2_22955537	Ca5	22955537	ATATAGAACCTATAGAACCTA/ATATAG AACCTA	GCTCAAAGCACATGAC AGGA	GATTGACGCATCAAAG GGTT	59.9	777	INTERGENIC	--	--	--
Ca5_P2_22981606	Ca5	22981606	CT/CTT	TCAATTTCTCTCTCGT GTG	TTGTTGGAGATTTTGG AGGG	59.9	349	INTERGENIC	--	--	--
Ca5_P2_23051252	Ca5	23051252	ATTTTTTTTT/ATTTTTTTTTT	TGGGACTAAAACATAGC GCC	ACGGATGAGTGACGTG ACAA	60.2	118	DRR	Ca_21972	U	--
Ca5_P2_23096429	Ca5	23096429	TGTG/TGTGAGTG	GAATGTGCCGCCTATT GTTT	TGTCCTCCCTTAATTGC ACA	59.1	662	INTERGENIC	--	--	--
Ca5_P2_23111759	Ca5	23111759	ACCCCC/ACCCCCC	TCTCACGGTTGTGAGG ACTG	TAGAGAAGTGTGCACC GTGG	59.9	600	INTERGENIC	--	--	--
Ca5_P2_23184362	Ca5	23184362	AATTATTATTATTATTATTATTA/AATTAT TATTATTATTATTATTATTA	GAAAAAGCGCTGTAAT GGC	ATCCACCAACCAAGA CAAA	60.2	725	INTERGENIC	--	--	--
Ca5_P2_2323461	Ca5	2323461	GAAAA/GAAAAA	GCGCCAGATTCAAACA CTA	ACCAGCAGACCAAAAT GGAC	60.0	262	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanched scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_2323758	Ca5	2323758	TGA/TGGAGGA	GTCCATTTTGGTCTGCT GGT	TCCTGTCTCGATTC ATC	60.0	425	INTERGENIC	--	--	--
Ca5_P2_2327252	Ca5	2327252	TAA/TAAA	TCGAAATGAAATCGAG GACC	ACAGACGAGGGCTAGG GATT	60.1	721	INTERGENIC	--	--	--
Ca5_P2_23306940	Ca5	23306940	CTTTTTTTTT/CTTTTTTTTTT	GTATTGAGGGGGTTGG AGGT	CCCTTTCAACCTTTTGC ATC	59.5	352	INTERGENIC	--	--	--
Ca5_P2_23426466	Ca5	23426466	TTCTCTCTCTCTCTCTCTCTCTCT C/TTCTCTCTCTCTCTCTCTCTCTC	GCTCGAATAAAATCGCC AAA	GTTGAGGAGGTGCCAT AGGA	60.1	783	INTERGENIC	--	--	--
Ca5_P2_23476079	Ca5	23476079	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	GCACATGAGATCTTGA GGCA	TTTTGGTCCCCAAC ATAA	60.0	102	INTERGENIC	--	--	--
Ca5_P2_23547474	Ca5	23547474	TAAAAAAAAA/TAAAAAAAAA	AGCCCATGAAATAACC CAA	CCAAATTATCGAAAA CGG	60.3	484	INTERGENIC	--	--	--
Ca5_P2_23585549	Ca5	23585549	TTT/TTTAAACATACTT	TTGCCACTGACTTGTGC AAT	CAGGGATCTCCAAAA TGTG	60.3	622	INTERGENIC	--	--	--
Ca5_P2_236073	Ca5	236073	CGAAGAAAAT/CGAAGAAAATGAAGAA ATGAAGAAAAT	TTGAATTACCGGAGG AATC	GGGATAGGAGGGTT GTGTT	60.1	680	INTERGENIC	--	--	--
Ca5_P2_23608112	Ca5	23608112	GCCTCACCTCATCTCACC/GCCTCA CCCTCATCCTCACCTCATCTCACC	CAACTTCGAGGGGAAT TTGA	CTGGTATGGGTGCTTC TGGT	60.0	529	CDS (large-effect mutations)	Ca_17689	--	--
Ca5_P2_23645517	Ca5	23645517	T/TCAGA	CCCCATGTTGGATAAC CAG	TCTTGGTCTTCAATTG CCC	60.1	839	INTERGENIC	--	--	--
Ca5_P2_23663097	Ca5	23663097	TAATGAATGAATGAA/TAATGAATGAA	GAGGGTTTTGGGTGAG TGAA	AGTTTTCAAGGGTAGC GGGT	60.0	789	INTERGENIC	--	--	--
Ca5_P2_23663124	Ca5	23663124	C/CGA	GAGGGTTTTGGGTGAG TGAA	AGTTTTCAAGGGTAGC GGGT	60.0	789	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_23664574	Ca5	23664574	TT/TTCCAAC	CAAGAAGGAACGAGT GCTC	TAGCCTAGAGCAGGG TGAA	60.0	626	INTERGENIC	--	--	--
Ca5_P2_23672060	Ca5	23672060	TC/TCGCCC	TGAGTAAGGGGGCTGA AATG	TGAGAGACGGTGGTT ACCC	60.0	822	CDS (FRAME SHIFT)	Ca_17683	--	--
Ca5_P2_236749	Ca5	236749	AT/ATT	AACACAACCTCCCTAT CCC	CCAACAAATGCATGC CATC	59.8	819	INTERGENIC	--	--	--
Ca5_P2_23675051	Ca5	23675051	GT/G	TCCATGCACATTGCTCT CTC	TGGGTTATTTTCATGG GCTT	59.3	514	INTERGENIC	--	--	--
Ca5_P2_236894	Ca5	236894	CCACA/CCA	CCCTCACAATTACAAT CCCA	CCAACAAATGCATGC CATC	59.8	763	INTERGENIC	--	--	--
Ca5_P2_237297	Ca5	237297	CTGTCAT/CTGTCATGTCAT	TCAATTGCAATACCGG AAAT	TGAATTTGGATAGGTG CAAAAA	59.5	233	INTERGENIC	--	--	--
Ca5_P2_237378	Ca5	237378	GA/GACAGAATGCAAA	TCAATTGCAATACCGG AAAT	TGCAACTCATGTGTGA ATCG	59.2	614	INTERGENIC	--	--	--
Ca5_P2_23750817	Ca5	23750817	CTTTTTTTTT/CTTTTTTTTT	CGATTTGGGTCTTTTG ATT	GGTCACATAGCGCTCT CACA	60.0	710	INTERGENIC	--	--	--
Ca5_P2_2375435	Ca5	2375435	TTTA/T	ATGTTTTGGATTTTGGC TCG	AGGAAGAGTGGAGTTG CGAA	60.0	571	INTRON	Ca_18664	--	B3
Ca5_P2_23770283	Ca5	23770283	ATTTT/ATTTT	TTGGCCTTCCTTTTACA TGC	CCATCAAGCGTCTGTT GAGA	60.0	882	INTERGENIC	--	--	--
Ca5_P2_23771514	Ca5	23771514	G/GAAATAATAATAA	ACCGATTTTGCCTAC TTT	AAGTTTTTGGCATTGCT TGC	60.3	326	INTERGENIC	--	--	--
Ca5_P2_237891	Ca5	237891	GT/GTT	CATGCACATTACACA TGA	GTGTCGTCCAACCTCT CCAT	60.0	486	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_23812349	Ca5	23812349	TAAAAAAAAA/TAAAAAAAAAAAAA AA	ATTGCTAGCCACATTT GGG	CGCTATGATAGGATGG TCCAA	59.9	664	INTERGENIC	--	--	--
Ca5_P2_239370	Ca5	239370	CAA/CAAA	AACTCGCATGTATTC CAC	TGGATTCCCAAACTA GCC	59.9	597	INTERGENIC	--	--	--
Ca5_P2_23976521	Ca5	23976521	GT/GTT	TTGGTGAAAGATTTT GCG	TTCAATGACAAAGGG GAGA	60.4	759	INTERGENIC	--	--	--
Ca5_P2_239777	Ca5	239777	CTTT/CTTTT	CTCAACGCTGCCACA AGA	TGGATTCCCAAACTA GCC	59.9	473	INTERGENIC	--	--	--
Ca5_P2_23990846	Ca5	23990846	GCCC/GCC	TTCAGCTGGTTGCAC ATAG	AGTTGGAAGTCGCCA TTTG	60.1	261	INTERGENIC	--	--	--
Ca5_P2_24097297	Ca5	24097297	AAGCTTTGGATAC/A	CAGAGCCAACTACA GGCA	ATTTGAAGGGCATGT GAAG	59.9	329	CDS (large-effect mutations)	Ca_17656	S	--
Ca5_P2_2410636	Ca5	2410636	GATAATAATAATAATAATAATA/ GATAATAATAATAATAATAATA	AAATTGAACATGCTCG ACC	CCGTCGAAAGTTCTG CTTC	60.0	465	INTRON	Ca_18664	--	B3
Ca5_P2_241183	Ca5	241183	ATTTTTTT/ATTTTTTTT	AAAACACAACCCTTCA GAGACA	GGGACGTCTTCGCATA CATT	60.0	129	INTERGENIC	--	--	--
Ca5_P2_2424723	Ca5	2424723	CAAAAAAAAA/CAAAAAAAAA	GCAAGGAAACGAAAT GGA	TCCAGATCGAATTAAT GCA	59.1	509	INTRON	Ca_18664	--	B3
Ca5_P2_24302587	Ca5	24302587	ATTTTTTTTTTT/ATTTTTTTTTT	TGCCCATTTAAACTTG GGT	CCAATGACGACTTCCC ACTT	60.0	158	INTERGENIC	--	--	--
Ca5_P2_243413	Ca5	243413	CTAAT/CT	CAGAAAGTAAACGGGC CAAG	TGAGGTCGATAAACAT AAAAATACG	58.6	491	INTERGENIC	--	--	--
Ca5_P2_243436	Ca5	243436	CAA/CA	CAGAAAGTAAACGGGC CAAG	TCGCGCAAATAACATT TGA	60.2	951	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_25027142	Ca5	25027142	TAAAAAAAAAAAAA/TAAAAAAAAA	AAATGGAATAACTTTGA AAATGGAA	CTCCATCGCACACTTT CTCA	60.0	602	INTERGENIC	--	--	--
Ca5_P2_25050486	Ca5	25050486	AATATATATATATATATATATATAT ATATATATAT/AATATATATATATATAT ATATATATATATATATATATATAT	AGTGCGGAGCTTGAT AGAA	GGGTCCAAGTTGAAC AAACCA	60.3	677	INTERGENIC	--	--	--
Ca5_P2_25109370	Ca5	25109370	T/TATTA	ACCACCAAAAAGGGTT GGTT	CGCATTCCAGATATGC AACA	60.6	500	INTERGENIC	--	--	--
Ca5_P2_25129964	Ca5	25129964	T/TA	ATCTCCAAGCTCGGCT GTAA	TTCTTTGGCCTAGTGT GGG	60.1	211	INTERGENIC	--	--	--
Ca5_P2_25186556	Ca5	25186556	GAAAAAAAA/GAAAAAAAAA	TCAGAGGTACATTCGC CAGA	GTCAATTTGATAGGCC CCCT	60.2	686	DRR	Ca_15627	L	--
Ca5_P2_25202952	Ca5	25202952	ATTTTTTTTTTTT/ATTTTTTTTTTT	AACCAGGGTCTATTCCA TGC	TTGGTAATGCGTTGAT GGTG	60.4	790	DRR	Ca_15629	O	--
Ca5_P2_2521445	Ca5	2521445	ATTACAGAGTTACA/ATTACAGAGTTAC AGAGTTACA	CTGGGCAAGGGATCTG AATA	GCACATTATACCGCGC TTTT	60.1	603	DRR	Ca_18666	--	Trihelix
Ca5_P2_25230946	Ca5	25230946	C/CT	TGTGGAACAATCGATTT GGA	AGTGTTTGAGGTGGTG AGGG	60.0	420	INTERGENIC	--	--	--
Ca5_P2_25232479	Ca5	25232479	GTTTT/GTTTTT	CCACCCTGATTTTGGAA GAA	AAAATCCAACAATCTCC CCC	60.0	790	INTERGENIC	--	--	--
Ca5_P2_25240045	Ca5	25240045	CAAAAAAAAA/CAAAAAAAAAA	CAGACTTTCAGCACTT CAATG	TTTGGCCAGACCACCT TTAC	60.0	924	INTERGENIC	--	--	--
Ca5_P2_25242251	Ca5	25242251	CTGT/CTGTTATAAAATTGT	CCTTGCTGGTTGAATC GGT	TGCATAATCGATTGCG ACAT	59.9	593	INTERGENIC	--	--	--
Ca5_P2_25250090	Ca5	25250090	ATCTT/AT	TGCTCTGACTCATTCAA CCG	TCTTAGCTAGACGCC CTGC	59.8	638	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanched scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_25287994	Ca5	25287994	CAAAAA/CAAAA	TTGCTTGAAGACATGAA CGC	TGGATGTCAAGCAGTC TTGC	60.0	493	INTERGENIC	--	--	--
Ca5_P2_25288223	Ca5	25288223	AGAAACTTGTGATTGAGGAAAC/AGAA C	TTGCTTGAAGACATGAA CGC	TGGATGTCAAGCAGTC TTGC	60.0	493	INTERGENIC	--	--	--
Ca5_P2_25345595	Ca5	25345595	GAAAAAA/GAAAAAA	TCCAATGAAAAGAGAAA TGTGAA	CACTCCACATTCGAAA CGA	59.7	122	INTERGENIC	--	--	--
Ca5_P2_25364005	Ca5	25364005	GTATATATATATATATAT/ATATATAT ATATATATAT	TTTTTCTCTTATAAAGG GACCAGAAA	TGGACCAACTTGCACA CATT	60.0	552	INTERGENIC	--	--	--
Ca5_P2_25484902	Ca5	25484902	TAAG/T	TGAAATGATACGGTGTG GGA	TGATTGGTTATTGCAGT TATGTGTT	59.7	683	INTERGENIC	--	--	--
Ca5_P2_2552337	Ca5	2552337	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATAT ATATATATATATATATATATAT	TTCGAACGTGAATCGT GAAA	ATTGGCAATAGCAACA ACCC	59.8	236	INTERGENIC	--	--	--
Ca5_P2_25555823	Ca5	25555823	ATATG/A	GGATCGTGTGGTGGAT AGTA	TTGAGTTATTACGAAA ATGAAAAA	58.4	317	INTERGENIC	--	--	--
Ca5_P2_25565924	Ca5	25565924	TTATATATATATATATAT/TTATATATATA TATATATAT	AGCCCATTTCCAACACT TTG	AAACCTTGAAGGCCA ACTT	60.0	632	INTRON	Ca_09033	QR	B3
Ca5_P2_25600693	Ca5	25600693	A/AT	CGTGCACTTTCACGAC AAAT	TTGCTGTACTTGGTTG CTCG	60.1	801	INTRON	Ca_09030	E	--
Ca5_P2_25623890	Ca5	25623890	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT TTT	TGACGAAGCAATCTTAC CGA	TGTTGTCCAACCCTCTT CTCT	58.8	459	INTERGENIC	--	--	--
Ca5_P2_25636144	Ca5	25636144	AAAAAATAAAAA/AAAAAATAAAAAAT AAAAA	TACCCTCCAACAAGCCA ATC	GGGAACACTCAAATCC TCCTT	59.4	512	INTERGENIC	--	--	--
Ca5_P2_25653033	Ca5	25653033	AAATTAA/AAA	GTGATCGTCTTCGGATT GGT	CATAAGGATCGGGGAA TCAA	59.7	628	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_25915705	Ca5	25915705	ATTTTTTTTT/ATTTTTTTTT	TAGGGCATTTTGGTCC GTAG	CCAAACAGAGCTAGAA TTGGA	57.1	943	INTERGENIC	--	--	--
Ca5_P2_25922321	Ca5	25922321	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT	AGGCGTTTGTGTATGG AAGG	ATTGGACAAAAGGAGG ACCC	60.2	580	INTERGENIC	--	--	--
Ca5_P2_25988402	Ca5	25988402	TAAAAAAA/TAAAAAAA	TGAGTTTGACATGGCAA TTTTT	CCTCCATGGAATCATC GTCT	59.9	377	INTERGENIC	--	--	--
Ca5_P2_26078186	Ca5	26078186	AAGA/AA	TCATGAAATGCAAGTT CGAC	GCATTGCCATGATTG AAGA	59.6	793	INTERGENIC	--	--	--
Ca5_P2_260923	Ca5	260923	CATAT/CATATAT	CTTCGGCCTAAGATTT TGC	ATTGCGGTTGTTCCGT TATC	59.8	358	DRR	Ca_18180	A	--
Ca5_P2_261589	Ca5	261589	CAA/CAAAA	CTTGTGCAACCACGAG ACTT	CATTTTACTTGTGCGAG CGA	60.0	612	DRR	Ca_18180	A	--
Ca5_P2_26213471	Ca5	26213471	ATATTATTATTATTATTATTATT ATTATTATTATTATTATTAT/ATATTATTA TTATTATTATTATTATTATTATT ATTAT	TGAGTTAAACTAACA ACGAAGATAA	TTTTGTAATTGTATTTC ATAACGAAGA	57.6	792	INTERGENIC	--	--	--
Ca5_P2_262311	Ca5	262311	CTTTT/CTTT	TCGCTCGCACAGTAA ATG	GGTCGATGCGTAGTT CCAT	60.0	859	INTRON	Ca_18180	A	--
Ca5_P2_26280416	Ca5	26280416	CTTTTTTTTT/CTTTTTTTTT	GGGGAAAAGGTACAA GCCT	AGCGACCTCCTACTG GTGA	59.9	251	INTERGENIC	--	--	--
Ca5_P2_2628560	Ca5	2628560	AT/ATATATT	TTGTTTCTCCAGTT TGG	TTTAGCATTGACCGT CCT	59.8	357	INTERGENIC	--	--	--
Ca5_P2_26329315	Ca5	26329315	CATATATATATATATAT/CATATATAT ATATATATATAT	AAGCTACGACATGATG GCAA	CACGGTGGTCATCGAC ATAG	60.0	525	INTERGENIC	--	--	--
Ca5_P2_26379323	Ca5	26379323	TAAAAAAA/TAAAAAAA	CCAAGTGCAAAATAAC ACGAA	TGACAAAACACACACA TCCAA	59.1	513	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_26994998	Ca5	26994998	TC/TCC	GGAGCGGGAATATGAC TGAA	GGGAGAGGTTGGGAG CTTAC	60.1	492	DRR	Ca_08931	R	MYB
Ca5_P2_26995171	Ca5	26995171	TAG/TAGCACAGCACTAAG	GGAGCGGGAATATGAC TGAA	GCGGCAGAAGAACCTA TTTG	59.8	576	DRR	Ca_08931	R	MYB
Ca5_P2_26996169	Ca5	26996169	TG/TGATCG	ATGTTGGGAACCTGCA CTCC	AACTATGCTCTGTGGA CCGC	60.0	458	DRR	Ca_08931	R	MYB
Ca5_P2_26996806	Ca5	26996806	A/AAAAGCAAAATTA	TCGTTTTGGGTGAATTG TGA	TGCCTCCTCGTTCCTTT TTA	59.8	410	INTERGENIC	--	--	--
Ca5_P2_27000467	Ca5	27000467	AA/AAGA	TTGGCACTGAATAGTG CTCG	TCGAAGCTGTGCTAAT GGTG	60.0	361	INTERGENIC	--	--	--
Ca5_P2_27000752	Ca5	27000752	CTTTTTTTTTTTTT/CTTTTTTTTTTT T	TTGGCACTGAATAGTG CTCG	CGTCCGAATAGACGA ACAT	60.0	698	INTERGENIC	--	--	--
Ca5_P2_27000834	Ca5	27000834	ATCTCT/ATCT	TTGGCACTGAATAGTG CTCG	CTCAGCGGGTAGAGTA TCGC	60.0	940	INTERGENIC	--	--	--
Ca5_P2_27072859	Ca5	27072859	GAAAAAAAAA/GAAAAAAAAA	CATGCCCTCTTGCAAT ACT	TGGCTCTTGACTTT GGTG	59.9	671	INTERGENIC	--	--	--
Ca5_P2_27081316	Ca5	27081316	TAAAAAAAA/TAAAAA	CCACTCAAAGTCCCC AATA	GGCAGAGCTTGAACGA AAAC	60.0	643	INTERGENIC	--	--	--
Ca5_P2_27099226	Ca5	27099226	GAA/GAA	TGGCAGACAAACCAA CAAA	TGGTTTTGCCATGAGA CAGA	60.2	406	INTERGENIC	--	--	--
Ca5_P2_27193838	Ca5	27193838	GTTTTTTTT/GTTTTTTTTT	TTCAAGATATAAGAGG CCGGA	TGACACGGGACGTCGT AGTA	60.2	350	INTERGENIC	--	--	--
Ca5_P2_27198500	Ca5	27198500	AC/ATGAATTC	TGTCTGCCCTCTCTGAT CCT	AGGGTTGAAAAAGTAA AGATTAAAAA	57.4	592	DRR	Ca_08920	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_27204653	Ca5	27204653	GAAAAA/GAAAAA	GCAAAGCGATCACAA CTCA	GAAATGCTTCTTTCGG CTTG	60.0	329	INTERGENIC	--	--	--
Ca5_P2_27249998	Ca5	27249998	AATATATATATATATATATATATA/A ATATATATATATATATATATATATA	TTGCATTGTTCCTCA TGA	TGTATCGGGATGCGAC ATAG	59.5	234	INTERGENIC	--	--	--
Ca5_P2_27252852	Ca5	27252852	ATTTTTTTTT/ATTTTTTTTTT	TAATTGGCGTCACTCAA CCA	TTGAAAATTTGAGTTAT GCATTTGA	59.9	659	INTERGENIC	--	--	--
Ca5_P2_27278537	Ca5	27278537	GTTTTTTTTT/GTTTTTTTTTT	TCAACGTTTTTGAAGG TCA	TGACGCAAAAGAGGAG ACAA	59.6	464	INTERGENIC	--	--	--
Ca5_P2_27332965	Ca5	27332965	TAAAAAAA/TAAAAAAA	TTGAAGGCTAGATGGC ATGA	ATTGGTTTGGCTCAGT TTGG	60.0	315	DRR	Ca_08909	L	--
Ca5_P2_27339973	Ca5	27339973	ATTTTTTTTT/ATTTTTTTTT	CGGCTGAGATTAAATT TGTGTGT	TTTCATTTACCAAAGA CTAAACA	59.2	697	INTERGENIC	--	--	--
Ca5_P2_27364017	Ca5	27364017	AAAAAAAAATAAA/AAAAAAAAATAAA AAAAATAAA	CAAGAAGAGTCCATTG GGGA	GGTAAGACCACTCGAT CAATCA	59.1	748	INTERGENIC	--	--	--
Ca5_P2_27369515	Ca5	27369515	TAAAAAAA/TAAAAAAA	GCCCATTCCTCACTCAA CTT	GCTGCAAGAAAGTTAG CAAGG	59.3	360	INTERGENIC	--	--	--
Ca5_P2_27389155	Ca5	27389155	A/AAAAAT	CACGAGCTTCAAGAGA GCCT	ATGAGATCGTTGTTGG GAGC	60.1	507	INTERGENIC	--	--	--
Ca5_P2_27389757	Ca5	27389757	TTATATATATATATATATATA/TTATAT ATATATATATATA	GCTCCCAACAACGATCT CAT	GCACGATTGTCATGTC GAGT	59.7	898	INTERGENIC	--	--	--
Ca5_P2_27393057	Ca5	27393057	CAGTCATA/CAGTCATAGAGTAGTCATA	TGGTGCTGATGAATTTT CACTT	TGCAATTTCCCTTACGC TTT	59.7	639	INTERGENIC	--	--	--
Ca5_P2_27445899	Ca5	27445899	CATTAATATTAATTAATTAATTAATTA ATATTAATAT/CATTAATATTAATTAAT ATTAATATTAATAT	TGCCAGAGCAACTAGG CTTT	ATTGTTGTCCAGAAGC CTGC	60.3	474	INTRON	Ca_08906	--	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_27458409	Ca5	27458409	ATTATATATAAAATTTTATATATAAAATT TTAT/ATTATATATAAAATTTTATATATAA AATTTTATATATAAAATTTTAT	CAATTGGTCGGCAGAG TTTT	CCCACAACCATGCAAT AGAA	59.4	531	INTERGENIC	--	--	--
Ca5_P2_27460399	Ca5	27460399	GAAAAAAAA/GAAAAAAAA	GCACATGTGTTGGCAA CTTT	AAAGCTCACCAATGC CACT	59.7	456	INTERGENIC	--	--	--
Ca5_P2_27472549	Ca5	27472549	AG/A	GCATTATGCCGTCATCA TTTT	TTCGCATTCAAAATTGT TGTT	58.2	491	INTERGENIC	--	--	--
Ca5_P2_27477754	Ca5	27477754	ATTTTTTATTTTTTTTATTTTTTTT/A TTTTTTTATTTTTTTTATTTTTTTT TTTTTTT	CCGCCCTCCTTTTCTAG TCT	AAAAACCCAAATATGC CCC	59.9	678	INTRON	Ca_08905	--	bHLH
Ca5_P2_2754705	Ca5	2754705	AG/A	GAGCTTTTGAGCCGAA ACAC	GGGTGTGAATGGGGCT TAGG	60.6	597	INTERGENIC	--	--	--
Ca5_P2_27603143	Ca5	27603143	GATATATATATATATAT/GATATATATAT ATAT	CTTGCCCTTCATGCGAAT TTT	GATTTCAAAGATGCAG GGGA	60.0	555	DRR	Ca_08896	--	--
Ca5_P2_27675113	Ca5	27675113	GATATATATATATATATATATA/GATA TATATATATATATATATATA	TTGCCACTTGATACAGC AAAA	ATCGGTGGGAATAAGA GCCT	59.9	891	INTERGENIC	--	--	--
Ca5_P2_276846	Ca5	276846	T/TGCATCGGTTCA	TTGTTGCTTTTCTTCG GCT	ACAGGCACTCCAGGAT CAAC	60.1	330	INTRON	Ca_18181	D	--
Ca5_P2_27718024	Ca5	27718024	TAAAAAA/TAAAAAA	TGGCAACAGAAACCAAA CAA	TTCTTTTAGCCCGTTGC TGT	59.9	573	INTERGENIC	--	--	--
Ca5_P2_27724317	Ca5	27724317	GAAAAA/GAAAAA	CCAACTCTTCTTTGCT TGC	TGCAAACTACAACGAT TCTCC	59.3	820	INTERGENIC	--	--	--
Ca5_P2_27724401	Ca5	27724401	GATATATATATATATATA/GATATATA TATATATATA	ACATCATTGGCATTGG GTTT	TGCAAACTACAACGAT TCTCC	59.3	678	INTERGENIC	--	--	--
Ca5_P2_2774211	Ca5	2774211	CTCT/CTCTTCCCTTAATCT	ATCCGACATTCTTTGG CAG	CAAAGCAAGGTGAAGT GCAA	60.0	842	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_27800920	Ca5	27800920	AC/A	TCTCAACAAGCACAAAT GCC	TTTATTTGAGCCAAGG GGTG	59.9	112	INTERGENIC	--	--	--
Ca5_P2_27880873	Ca5	27880873	GAAAAAAAAA/GAAAAAAAAA	GGCAGCTTCTGTTTGT CAAC	CATTCTCCTCCCAAG GGT	60.3	786	INTERGENIC	--	--	--
Ca5_P2_27906217	Ca5	27906217	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	TCCAACAACATCAAAT CATCA	TGTCAACTCTCCAGC ACCA	60.4	630	INTERGENIC	--	--	--
Ca5_P2_27945125	Ca5	27945125	TAATAATAA/TAATAATAAAAAATAAA	TGGCTACATCCAGTCC CTTC	TTGGGCAAAATTTAGTTC TTGTTT	59.1	579	INTERGENIC	--	--	--
Ca5_P2_27953689	Ca5	27953689	TA/T	AACAACAGCCCCAATGT AGC	ACGCTTTTCAACAAC GCT	59.9	794	INTERGENIC	--	--	--
Ca5_P2_27998972	Ca5	27998972	GTGCGTA/G	GTGTGTGTGTGTGTGT GCG	TGCATGGACTAGCCTT GAAC	58.9	365	INTERGENIC	--	--	--
Ca5_P2_28012407	Ca5	28012407	AATATATATATATATAT/AAATATATATA TAT	TTGAAGGAAGATGAATC GTTGA	ATGCGGATACTCTCTG CCAC	60.2	622	DRR	Ca_13417	S	--
Ca5_P2_280542	Ca5	280542	AATTATTATTATT/AATTATTATTATTATT	CAAACAAGCTTTTTCAC TTTCTCA	AGGACCTCCCTTTTCT CCA	60.0	636	DRR	Ca_18183	--	ARF
Ca5_P2_28055720	Ca5	28055720	AATATATATATATATATATATATATAT ATATA/AAATATATATATATATATATATA TATATATATATATATATA	CAAATGGCGACTTCCAA CTT	CATGCCATAGCTGCAT GTTC	60.3	713	INTERGENIC	--	--	--
Ca5_P2_28068856	Ca5	28068856	CTATATATATATATATATATA/CTATAT ATATATATATATATATA	GATTGCGGTTCACTC GTT	TGATGATGAATGTTGC ACGA	59.6	139	INTERGENIC	--	--	--
Ca5_P2_28087394	Ca5	28087394	TATAA/T	TTTGCTTTTGAAGCA CAC	GACATTTGAACTTGAA TTTCCT	58.7	509	INTERGENIC	--	--	--
Ca5_P2_28090344	Ca5	28090344	AATATATATATATATATATATATATAT ATA/AAATATATATATATATATATATA TATATATATATA	CACCATTGGAACCTTC GAT	CAATTGCCAACTGAGA AAATGT	59.1	725	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_28103137	Ca5	28103137	ATTTTTTTTT/ATTTTTTTTT	CGTCTTTAAACGGTCG CTTC	AAAAAGAAATTTGGG CGGT	59.8	700	INTERGENIC	--	--	--
Ca5_P2_28131912	Ca5	28131912	ATTT/ATT	TGCCATATTCAGGAGT GTGC	ATGTACATTGCATGAG GCCA	60.0	850	INTERGENIC	--	--	--
Ca5_P2_28136431	Ca5	28136431	AATATATATATATATA/AATATATATAT ATATATATA	CTCAAAACTCAACTTCG CCA	TTTGTTGCAAAATGTG TGG	60.4	135	INTERGENIC	--	--	--
Ca5_P2_28155675	Ca5	28155675	TAT/TATCAT	TGTTTTGTCTTCTTCA CACGA	CGGACAAACGTGGATG ATAA	59.4	543	INTERGENIC	--	--	--
Ca5_P2_28187994	Ca5	28187994	AATATATATATAT/AATATATATATATA TATAT	CAAGAAAAGTAACCATC GTAATGA	TGTGGATTCATGATCCT TG TG	59.4	494	INTERGENIC	--	--	--
Ca5_P2_28188039	Ca5	28188039	T/TC	CAAGAAAAGTAACCATC GTAATGA	TGTGGATTCATGATCCT TG TG	59.4	494	INTERGENIC	--	--	--
Ca5_P2_28192036	Ca5	28192036	CATATATATATATATATAT/CATAT ATATATATATATATATAT	CCACATGCTCATTGTGT GACT	CCATTCTCCTTCAACCA GAC	59.5	653	INTERGENIC	--	--	--
Ca5_P2_28224948	Ca5	28224948	TTATATATATATATATAT/TTATATATA TATATATATATAT	GACCCACGTATGAAGG TGAAA	TATTGAGGCAATCC CAGA	60.4	486	INTERGENIC	--	--	--
Ca5_P2_28234704	Ca5	28234704	AATATATATATATATATAT/AATATA TATATATATATATATAT	TTTCAAGCTTTTGATGC ACG	TTTCTTTCCAGTTCCA CCG	60.1	751	INTERGENIC	--	--	--
Ca5_P2_28238690	Ca5	28238690	GTTTTTTTT/GTTTTTTTTT	CAGGTACGAGAGTTGC GTCA	TAAGATTCTCCGGGCA TCAC	60.0	827	INTERGENIC	--	--	--
Ca5_P2_28241348	Ca5	28241348	TAAAAAA/TAAAAAAA	GGGCTAAAGTCATTGG GTGA	GCCATATGGATTGTCT GCAT	59.8	649	DRR	Ca_13400	--	ARF
Ca5_P2_28246811	Ca5	28246811	AATATATATATATATA/AATATATATAT ATATATATATATATATATA	TGCCCTCGTCAAACTAA CAA	GTCTTTGTGAGGGCA AAGG	59.7	791	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_28247768	Ca5	28247768	TAAAAAAAAA/TAAAAAAAAA	ACCACCTTATTTGTGG TGC	TCAGGCTTAGGCCTCA AAAA	60.0	796	INTERGENIC	--	--	--
Ca5_P2_28291153	Ca5	28291153	CAAAAAAAAA/CAAAAAAAAA	CACGTCCCTAACATTT GCC	TGTTCTGATATTTGC CGA	59.1	400	INTERGENIC	--	--	--
Ca5_P2_28310357	Ca5	28310357	AAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAAT /AAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAA TAAT	CCAACATGTGGGATAA CTTGTC	TGGCCTGACCTATTCT CACC	60.1	635	INTERGENIC	--	--	--
Ca5_P2_28342481	Ca5	28342481	TTCAAAATCAAAATCAAAATCA/ TTCAAAATCAAAATCAAAATCA	CTCCTTAAGTGTACGG CCCA	GGACTATTTTCGCGAA TGAGTAA	59.7	329	INTERGENIC	--	--	--
Ca5_P2_28366916	Ca5	28366916	TTATATATATATATATATATATATA TATAT/TTATATATATATATATATAT ATATATATATAT	TGAATGCACTCAAAGC ACA	TACAAAGACGTTGTGC TCGC	59.9	747	INTERGENIC	--	--	--
Ca5_P2_28370910	Ca5	28370910	TTATATATATATATATATATATATA TAT/TTATATATATATATATATATAT AT	CTAGTTCGTAACCCGT GCGT	AGGCATGGTGTGGAG TCAT	60.4	260	INTERGENIC	--	--	--
Ca5_P2_28411984	Ca5	28411984	ATTTTTTTTTTTTT/ATTTTTTTTTTTT	TTTCCTTTGTACCCCA CAC	ATCTGTTTTACGGCTG GGTG	60.0	153	DRR	Ca_13382	--	SAP
Ca5_P2_28413401	Ca5	28413401	A/AT	TTCTCCTGAAGCTGTC GGT	ATTGCCAACATTTCCG GTAG	59.8	252	INTERGENIC	--	--	--
Ca5_P2_28588926	Ca5	28588926	TGGG/TGG	CAACTGCTCCTGTTCTC CAA	CTAGGAGCATGTCGCT CTCC	60.1	412	INTERGENIC	--	--	--
Ca5_P2_286315	Ca5	286315	ACC/ACCC	ATGATTTGAATTTGCGA GGC	TCCAACGGGGTTTAAG AGTG	60.0	821	INTERGENIC	--	--	--
Ca5_P2_286412	Ca5	286412	GTTTTTTT/GTTTTTTT	TGCTGCTACTACTGCCA TCG	TCCAACGGGGTTTAAG AGTG	60.0	760	INTERGENIC	--	--	--
Ca5_P2_28702762	Ca5	28702762	TG/T	TCATTTTATCACAAGGG TAGTTTTG	TGAATTATACCGTTTGA TGCAC	57.6	621	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_287058	Ca5	287058	ATTTTTTT/ATTTTTTTT	CACTCTTAACCCCGT GGA	CACTGTTCCTTGTGG GAGG	60.5	700	DRR	Ca_18184	R	B3
Ca5_P2_28763604	Ca5	28763604	CATTATTATTATTATTATTATTAT TTATTATTAT/CATTATTATTATTATT ATTATTATTATTATTATTAT	CCCAAATGCCCTACTCT GAA	TTTCATTTTCATTTTCAA GTTATCAA	57.1	729	DRR	Ca_13353	--	--
Ca5_P2_288048	Ca5	288048	CTT/CTTTT	GGACCAGCAAGAAGCA ACTC	TGTGAGAAATGGGAAT TGGA	58.9	933	DRR	Ca_18185	R	B3
Ca5_P2_28839815	Ca5	28839815	ATTTTTTTTTT/ATTTTTTTTTT	CGGCATAATTTGGTGAA TTG	CCACGTCAACGCAAAG TAGA	59.9	845	INTERGENIC	--	--	--
Ca5_P2_28864108	Ca5	28864108	AATATATATATATATATATATAT/AATA TATATATATATATATAT	AAAAGGGACGATACTT GCCA	TCCTCTCAAAAGCCCT CAAA	59.9	787	DRR	Ca_13346	--	NF-YC
Ca5_P2_28865362	Ca5	28865362	TTCT/TT	TTTAGTGGTGCAAGTG CATGT	CGAAAGCTAGCCATGA GGTT	59.5	104	INTERGENIC	--	--	--
Ca5_P2_288684	Ca5	288684	ATACTTACTT/ATACTT	CTTGGACTCCAGTGCC TCAT	GTGCATTTTGCAGGCA ATTA	59.7	474	DRR	Ca_18185	R	B3
Ca5_P2_28921728	Ca5	28921728	CAAAAAAAAA/CAAAAAAAAAA	TTTTCTCCCTCACCAAC GTC	TGGTACCCGTCCAAAG GATA	60.2	596	INTERGENIC	--	--	--
Ca5_P2_289542	Ca5	289542	CATATATATATATA/CATATATATATA TATATA	GCAAGAACAGGTGTCA TGGA	AAAATGCGAGAAAATG TGGC	60.1	611	INTRON	Ca_18185	R	B3
Ca5_P2_28974386	Ca5	28974386	TAAAAAAAAA/TAAAAAAAAA	GCCATAATCGAGAGGA ATGG	ATTAATCCCCGTCAAGA CCC	60.0	527	INTERGENIC	--	--	--
Ca5_P2_28978028	Ca5	28978028	A/ATAATG	AGCAGCACATCAAAATG CAG	TTGTGCTTGTCTGAAG TGGG	59.8	354	INTERGENIC	--	--	--
Ca5_P2_28978125	Ca5	28978125	C/CCG	TGCAGAACCAAAACAAG CAG	GGACTAGGTCAGCATT TCGC	59.8	845	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_29097154	Ca5	29097154	ATTTTTTTTT/ATTTTTTTTT	GCTGCATGCGTTACGA GATA	AAATTCACGGTGTCAT CTTCG	60.0	271	INTERGENIC	--	--	--
Ca5_P2_29098754	Ca5	29098754	ATTTTTTTTT/ATTTTTTTTT	CATCATGTTCAATGAA GCCA	CCATCCATTATTCCAAC CCA	60.4	822	INTERGENIC	--	--	--
Ca5_P2_291054	Ca5	291054	TAAAAAAAA/TAAAAAAAAA	TGCTTCATATGCTTGAC CACA	TGGTGCTTCTTGGCT CTTT	60.0	476	INTRON	Ca_18185	R	B3
Ca5_P2_29111048	Ca5	29111048	AGNNNNNNNNNG/AG	TGCGAGTGAATCTGAG GATG	TGCGCAGCATTATCTG AAAC	60.0	548	INTRON	Ca_23826	I	--
Ca5_P2_291688	Ca5	291688	ATTTTT/ATTTTTTT	AAAGAGCCAAAGAAGC ACCA	AGCAAATGCGACTGTG ATTG	59.9	722	DRR	Ca_18186	--	--
Ca5_P2_291943	Ca5	291943	GCGCAACCGCAA/GCGCAACCGCAACC GCAA	TTCTGGCTTAATCCCA CTC	GTCTGTGCTCTTCCC AATC	59.7	517	DRR	Ca_18186	--	--
Ca5_P2_292149	Ca5	292149	A/AC	AAAGTGCGAAGTTTG CAGT	TGCTTTCCCTCAACAG TCA	59.4	485	DRR	Ca_18186	--	--
Ca5_P2_29247345	Ca5	29247345	ATTTTTTTTT/ATTTTTTTTT	CGTGAAAACCTCCCT CAAA	TGACGAGCGTAAGAAC ATGC	60.0	853	INTERGENIC	--	--	--
Ca5_P2_29351977	Ca5	29351977	CTATTATTATTATTATTATTATT ATTATTATT/CTATTATTATTATTATT ATTATTATTATTATT	GAGCCGAAAACGTATC CTAA	TTAGGCGCGTTTCAAG AACT	60.0	701	INTERGENIC	--	--	--
Ca5_P2_29413662	Ca5	29413662	CATATATATATATATATATATATA/ CATATATATATATATATATATATA	GCTGCTCCTTGGAAG TAAA	ACCAAGTTGGCTGCTC TGTT	59.9	575	INTERGENIC	--	--	--
Ca5_P2_29418887	Ca5	29418887	TTATATATATATATA/TTATATATAT ATATATA	CCCAAGCTAGAAGTGT CACGA	TTGCATGGGCATAGTG AGAG	59.8	671	DRR	Ca_16633	G	--
Ca5_P2_29568691	Ca5	29568691	ATTTTTTTTT/ATTTTTTTTT	AATTGTGCACATTGTG CGT	CACCGTTCAATTTTC GATT	59.8	489	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_29572290	Ca5	29572290	ATTTTTTTTTTT/ATTTTTTTTTTTT	CGGTCCATCTCGTAGG TCAT	ATGGCTGATAATTTACG CGG	60.0	560	INTERGENIC	--	--	--
Ca5_P2_29592860	Ca5	29592860	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATATA TATA	TTTGATTCTTTTGAGCG ATTCA	GTCGTACCCCTTTGGGA GACA	60.0	744	INTRON	Ca_16645	T	MYB
Ca5_P2_29601698	Ca5	29601698	ATTATTTATTTAT/ATTATTTATTA TTTATTTATTTAT	ATCTTTGGTTGGTTGGT TGC	TGCATATCCATTGAGTT TCACA	59.0	607	INTERGENIC	--	--	--
Ca5_P2_29614403	Ca5	29614403	ATTTTTTTT/ATTTTTTT	TGGAAGTTACAATCAGC TGTA	CGTGTCCAGAAATTTT TGTT	58.2	641	INTERGENIC	--	--	--
Ca5_P2_29665140	Ca5	29665140	ATCACATTTTCACATTTTCACATTT/ATCAC ATTTTCACATTTTCACATTTTCACATTT	TGGAAGCGATTTATCC TGG	AGAGATCTTCTTGCGG TGGA	60.0	579	INTERGENIC	--	--	--
Ca5_P2_29689908	Ca5	29689908	CTTTTTTTTTT/CTTTTTTTTTT	AATCAAAATTTTCAAC AAA	CATCAAAATTTTCAACC AAA	59.6	488	INTERGENIC	--	--	--
Ca5_P2_29720043	Ca5	29720043	TTATATATATATATATATAT/TTATATAT ATATATATATATATA	GCAGTTTGAAGCTTA CACGA	CCAATAGAGGTGCGAC CAAT	60.0	726	DRR	Ca_16654	--	MYB
Ca5_P2_29778022	Ca5	29778022	CAAAAAAAAAA/CAAAAAAAAAA AAA	GCTGCTGGCACATCTA CTCA	TAAGTGAACAGATGG TCGC	59.9	547	INTERGENIC	--	--	--
Ca5_P2_29778782	Ca5	29778782	TAAAAAAAAA/TAAAAAAAAA	TTCGATTCACCCGAAGA AAT	GTGGCGTGAAACAACA AATG	60.0	329	INTERGENIC	--	--	--
Ca5_P2_29827143	Ca5	29827143	TAAAAAAAAA/TAAAAAAAAA	ATCTGGTTAACGGATG CGAG	TTGGGACTGACAGAAA GAAAAA	58.9	669	INTERGENIC	--	--	--
Ca5_P2_29881935	Ca5	29881935	CTATATATATATATATATATATATATA TATATATATA/CTATATATATATATATATA TATATATATATATATATATA	ACATGCTTGAGAGTT GCCT	TCCATGCAATTCGTTTT TGA	60.1	425	INTRON	Ca_16670	K	--
Ca5_P2_29904685	Ca5	29904685	GAAAAAAAAA/GAAAAAAAAA	GCTTCCACGTTTGATT GGT	TGGGAAGATTACGCAC TTCA	59.3	631	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_30106797	Ca5	30106797	ATAGGTCA/ATAGGTCAGGTCAAGCTA GGTCA	GCCAGCAACCTCCAATT AAG	TGCACATTGACCCAAAT TGT	59.8	779	INTERGENIC	--	--	--
Ca5_P2_30106907	Ca5	30106907	TAAAAAAA/TAAAAAAA	GCCAGCAACCTCCAATT AAG	TGCACATTGACCCAAAT TGT	59.8	779	INTERGENIC	--	--	--
Ca5_P2_30107423	Ca5	30107423	TG/TGG	CAATTTGGGTCAATGTG CAA	GCCAACTAGTCTCAG AAGCA	59.6	475	INTERGENIC	--	--	--
Ca5_P2_30107954	Ca5	30107954	AAACA/AA	TCATTGCATTCATTCAC CAAA	TCCAACAGGATTCGTG ACAA	60.1	709	INTERGENIC	--	--	--
Ca5_P2_30114886	Ca5	30114886	TTATATATATATATATATATATATA TA/TTATATATATATATATATATATA	CGGGTGGCTTAGTGAG AAGT	AAACTCTTCCGCTCAC CTTT	59.4	325	INTERGENIC	--	--	--
Ca5_P2_30115828	Ca5	30115828	CATATATATATATATATATATA/CA TATATATATATATATA	TCCGGGTTTTGTTTTTC AGT	GACTGATTAACCGACA TAATTCGT	58.5	378	INTERGENIC	--	--	--
Ca5_P2_30121861	Ca5	30121861	ATAT/ATATATATTTAT	CATGCGTGAATTGATC GTC	AAACGCGTCACTTTAC CTTCTC	59.8	224	INTERGENIC	--	--	--
Ca5_P2_30126893	Ca5	30126893	ATTTTTTTTT/ATTTTTTTTT	GTGGCTTCCAAAGAGA AACG	TTCGGTACACAATTTTC CCC	59.7	612	INTERGENIC	--	--	--
Ca5_P2_30128968	Ca5	30128968	GATTATAATTAATAA/GATTATAATTA AAAATAATTATAATTAATAA	TGTTTCTCTCCGCTC ACA	CCGCCGACTATACGTG TTTT	59.1	681	INTERGENIC	--	--	--
Ca5_P2_30131050	Ca5	30131050	AATATATATATATATATATA/AATAT ATATATATATATATA	CAAATTTGAGCAACAA TGC	AACACAAATGTTAAAT GCGAAGA	59.9	571	INTERGENIC	--	--	--
Ca5_P2_30135601	Ca5	30135601	CAT/CATAT	CTGGTCCTCCTCTGTC GAG	ATCCCATCAAAATAGCT GCG	60.1	426	DRR	Ca_04690	J	E2F/DP
Ca5_P2_30284983	Ca5	30284983	ATATTATTATTATTATTATTATTATT ATTATTATTGTTATTGTTATTATTATT TAT/ATATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT	TGTTGTCACATGCTTG GGT	TTGTGCACATTTTATTC TTCAAA	57.5	651	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_30325134	Ca5	30325134	ATTTTTTTTTT/ATTTTTTTTTT	CGACTATTGGACTGAG CAAGC	GTGATTTGAGAATACG CCCG	60.5	497	INTERGENIC	--	--	--
Ca5_P2_30338194	Ca5	30338194	TTATATATATATATATA/TTATATATATAT ATA	TGAAATCTCAATAAATG GCGG	CATCGATGGTTGATAA GAAATG	58.5	154	INTERGENIC	--	--	--
Ca5_P2_30355494	Ca5	30355494	CATATATATATATATATATA/CATATA TATATATATATATATA	CCTTTGGTTCAAGTAAT GGCA	TGCACACACCAATTCC AAGT	60.0	531	INTERGENIC	--	--	--
Ca5_P2_30468145	Ca5	30468145	GTATATATATATATATATA/GTATATA TATATATATATATA	TGCGTAAAAAGTCAAAT AAGTGAA	GCAGTTTTATTCAACCA AATCAA	58.2	241	DRR	Ca_04729	--	--
Ca5_P2_30533386	Ca5	30533386	GTATATATATATATATATATATATA TATATATA/GTATATATATATATATATA TATATATATATATATATATATATA	AAAATTCGCACTCATTT CCG	AACTAAAACGGAGGG GCAT	59.8	357	DRR	Ca_04741	--	bHLH
Ca5_P2_30551642	Ca5	30551642	AT/ATT	CAAGAGCCATCGTCAT CAGA	AGCTGATGCCAAGCTC AAAT	60.0	838	INTRON	Ca_04744	R	C3H
Ca5_P2_30587292	Ca5	30587292	TCTTCTCCTTCTCCTTCTCCTTCTCCTT CTCTTCTCCTTCTCCTTCTCCATCTCC TTCTCCTT/CTTCTCCTTCTCCTTCTCC TTCTCCTTCTCCTTCTCCTTCTCCATCT CCTTCTCCTT	GGGGCAACCCCTAATA AAAA	CATCAAGGAGACGCTG AACA	60.0	590	CDS (large-effect mutations)	Ca_04750	K	C3H
Ca5_P2_30610017	Ca5	30610017	AAATAATAATAATAATAATAATAATA ATA/AAATAATAATAATAATAATAAT AATA	TTGCAATCAAACCTTT GAAAA	GCCATTCAATGAACAA CGTG	60.0	604	INTERGENIC	--	--	--
Ca5_P2_30610925	Ca5	30610925	GTTTTTTTT/GTTTTTTTT	ATAATCATCCACCCGAT CCA	TGTCACCCCTAAAGAC GCAA	59.3	976	INTERGENIC	--	--	--
Ca5_P2_3061873	Ca5	3061873	GATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATA/GATAA TAATAATAATAATAATAATAATAATA ATAATAATAATAATA	TTGCTCTACGTATCC CAG	TTATTTACCGTCGTGT CCA	60.0	332	INTERGENIC	--	--	--
Ca5_P2_30712358	Ca5	30712358	G/GGATAGAAA	TATTGGATTGGCCAA CAT	TTCGTTGGTTTTGGGT TCTC	59.9	534	INTERGENIC	--	--	--
Ca5_P2_30819736	Ca5	30819736	A/AT	GGAAAGGAAGGAAAA GGTG	CATCATTGTTGGATATG CGG	59.8	428	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_30826086	Ca5	30826086	TAAAAAA/TAAAAAAA	AATTTCCGGGCTCAAG AAT	TGTCGTGAGCGAAGT GTAA	60.4	668	INTERGENIC	--	--	--
Ca5_P2_30828016	Ca5	30828016	CAGTTAGTT/CAGTT	TGGAAAAGAGAGTGGG TGGT	TTGGTTTTTCGGATCTT TGC	60.1	598	INTERGENIC	--	--	--
Ca5_P2_30828251	Ca5	30828251	CACAA/CA	TGGAAAAGAGAGTGGG TGGT	TTGGTTTTTCGGATCTT TGC	60.1	598	INTERGENIC	--	--	--
Ca5_P2_30832548	Ca5	30832548	AGGG/A	TCCAAAACCCAGAATC CAA	TTCGTCGTTGATGCTTT TTG	59.8	633	DRR	Ca_04780	R	G2-like
Ca5_P2_30832859	Ca5	30832859	CAAAAAAAAA/CAAAAAAAAA	GACGATGCTGAAATG CCAA	TTCGTCGTTGATGCTTT TTG	59.8	482	DRR	Ca_04780	R	G2-like
Ca5_P2_30834614	Ca5	30834614	AAATAATAATAATAATA/AAATAATA ATAATAATAATAATAATA	CGACGATTTCTCCGAAT TGT	TTTATCGGATTTTAAA GGGAAA	58.2	420	INTERGENIC	--	--	--
Ca5_P2_30835479	Ca5	30835479	TTATATATAT/TTATATATATAT	TCGGCGATGTAAATTC TCG	TGATAGACAAGCCACA TGCC	59.7	495	INTERGENIC	--	--	--
Ca5_P2_30840881	Ca5	30840881	AT/ATAATT	CCAACCTCGTGAATTGG TAAAA	CACTCATAAGTTACTTG AGCTATGCTT	58.8	472	INTERGENIC	--	--	--
Ca5_P2_30841076	Ca5	30841076	T/TGTATAC	CCAACCTCGTGAATTGG TAAAA	CACTCATAAGTTACTTG AGCTATGCTT	58.8	472	INTERGENIC	--	--	--
Ca5_P2_30844172	Ca5	30844172	C/CTCTT	CCAACCTCATCCACCTC CTC	AAACGATGCAATGGTT GAGAG	60.1	248	INTERGENIC	--	--	--
Ca5_P2_30844785	Ca5	30844785	C/CAAGACT	TGATTTTGTGACGAAGT AGAAGAGA	TGCGAACACAACAACC ATTT	60.0	231	INTERGENIC	--	--	--
Ca5_P2_30844820	Ca5	30844820	TTGTTGTGTT/TTGTT	TATGTTTTCGAGCGTT GCT	AAGTTGAAGGAAGTGC ACGA	57.4	465	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_30848351	Ca5	30848351	GAAAAA/GAAAA	CCTTGTAAGAAAGCG GCAG	TTTTTCCAACCGAGCAT TTC	60.1	717	INTERGENIC	--	--	--
Ca5_P2_30848614	Ca5	30848614	GTTTTTTTT/GTTTTTTTT	TCCTTGACGTGTTGC ACT	TTTTTCCAACCGAGCAT TTC	60.1	214	INTERGENIC	--	--	--
Ca5_P2_30849042	Ca5	30849042	CAAAA/CAAA	GAAATGCTCGGTTGGA AAAA	GCATGCCTTTATTAGA GCGG	59.8	526	INTERGENIC	--	--	--
Ca5_P2_30852049	Ca5	30852049	TAAA/TAAAA	TCCGTACGGTTACGGT TTTC	TTGGGTGCTGGTCTT CTTC	60.2	509	INTERGENIC	--	--	--
Ca5_P2_30858994	Ca5	30858994	TTT/TTTATT	ATGAAGGCTGCGTTCT GACT	GGCCCTTGGAAGTCAC ATAA	59.9	214	DRR	Ca_04781	--	NF-YB
Ca5_P2_30859236	Ca5	30859236	ATTTTTTT/ATTTTTTT	ATGAAGGCTGCGTTCT GACT	AACCATCAACCACTGG AACC	59.7	740	INTERGENIC	--	--	--
Ca5_P2_30860226	Ca5	30860226	TT/TTCT	TATTGAGCGTGTGAAC CGA	TTAGCAACTGATCGCC ACTG	60.0	687	INTERGENIC	--	--	--
Ca5_P2_30860398	Ca5	30860398	GAAAAAA/GAAAAAA	TATTGAGCGTGTGAAC CGA	TTAGCAACTGATCGCC ACTG	60.0	687	INTERGENIC	--	--	--
Ca5_P2_30860511	Ca5	30860511	CAA/CAAA	ATAGCAACTCCATCC GCT	TTAGCAACTGATCGCC ACTG	60.0	580	INTERGENIC	--	--	--
Ca5_P2_30861561	Ca5	30861561	TA/T	TTACCTACTCCGAATGC CCA	TTACAGTTTCAAGTTAG TTTGAATGA	59.3	572	INTERGENIC	--	--	--
Ca5_P2_30861801	Ca5	30861801	TTAAT/TTAATGTAAT	TTACCTACTCCGAATGC CCA	TGATGGTGGTGAGGAT CAAA	59.9	658	INTERGENIC	--	--	--
Ca5_P2_30864475	Ca5	30864475	TAA/TAAA	TTCTGCAAGACGGTTCT GTG	CGGATGTCTACCTCTG TGTT	60.0	260	INTRON	Ca_04782	T	bHLH

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_30868972	Ca5	30868972	AT/A	ACCATTCACTTTCTGCA GCC	ATTTCATGTCCAACAA GGC	59.8	526	DRR	Ca_04782	T	BHLH
Ca5_P2_30873220	Ca5	30873220	AA/AAGA	GGGACCGTCGGAATTT TTAT	GCACGGCATCAACCTA AAAT	60.0	674	INTRON	Ca_04783	--	BES1
Ca5_P2_30875873	Ca5	30875873	ATT/ATTT	GTCGTCCAGCGGTTAG GATA	AAGAGAATTAGAGAAG AGTGCGG	58.4	318	DRR	Ca_04783	--	BES1
Ca5_P2_30876347	Ca5	30876347	AAACAA/AAA	AATTGTTTACCGCACTC TTCTC	CCGGCGAAATTAATAT GGTG	60.2	471	INTERGENIC	--	--	--
Ca5_P2_30876698	Ca5	30876698	GTTTTTTTTTTTT/GTTTTTTTTT	CGCCGGAGAAAAATGT TAAA	ATGCAACTGACCAATTT AATGA	57.2	539	INTERGENIC	--	--	--
Ca5_P2_30877095	Ca5	30877095	ATTT/ATT	TTCACGAAGTATGAGTT TTTGATGA	ACCCACTGGACTGCTG CTAT	59.8	409	INTERGENIC	--	--	--
Ca5_P2_30877283	Ca5	30877283	TAA/TA	TTCACGAAGTATGAGTT TTTGATGA	ATTGTTAACGGTCTCC GTCG	60.0	735	INTERGENIC	--	--	--
Ca5_P2_30877568	Ca5	30877568	CATTATTATTATTATTA/CATTATTATTAT TATTATTATTATTA	TGCAATAGCAGCAGT CCAG	ATTGTTAACGGTCTCC GTCG	60.0	351	INTERGENIC	--	--	--
Ca5_P2_30880041	Ca5	30880041	TA/TACACAA	CCTGTATTCTGCCTCAG CGT	CAACCTAAGATTGGCC GTGT	60.0	494	DRR	Ca_04784	R	--
Ca5_P2_30882274	Ca5	30882274	TTTAGACAAATTAGACA/TTTAGACA	AGGTTTGGGTGGTTTC AATG	AAACTCGGTCTCAAGG GGTT	60.0	780	INTERGENIC	--	--	--
Ca5_P2_30886397	Ca5	30886397	CTT/CTTT	GTGACATATTGAGGGT GGGG	CTCCCCAACGTAGAAC CAAA	60.0	791	INTRON	Ca_04785	R	--
Ca5_P2_30898589	Ca5	30898589	ATTTTTTT/ATTTTTT	TATGGTGTGGTGAACG ATGG	CGAACATGAACCTTGCT CGAA	60.0	914	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_30898776	Ca5	30898776	AG/A	CCCGGATGGAGATGTT AGAT	CGAACATGAACTTGCT CGAA	60.0	642	INTERGENIC	--	--	--
Ca5_P2_30900578	Ca5	30900578	AAAA/AAAAATAAA	AGTGTACGTGAGAGT GCCA	TCAAAGGAGGCAATG GTAA	59.6	570	DRR	Ca_04787	T	MYB_related
Ca5_P2_30900953	Ca5	30900953	TA/TAACA	CGGTCCGACTTGTCTTT ATCA	GGAATTGGAAGTCGGA TGAA	59.9	367	DRR	Ca_04787	T	MYB_related
Ca5_P2_30909427	Ca5	30909427	ACT/A	TTCGTGAAAAATGTTTG TTTGG	GACGTTACAAAAGCAT GAATCG	59.7	674	INTERGENIC	--	--	--
Ca5_P2_30909997	Ca5	30909997	TATTAAT/TATTAATTAAT	CGTTTGGTTCATGTTTT CCTT	ATCGAGGAAGAGAATG GGGT	59.9	243	INTERGENIC	--	--	--
Ca5_P2_30910017	Ca5	30910017	T/TC	CGTTTGGTTCATGTTTT CCTT	ATCGAGGAAGAGAATG GGGT	59.9	243	INTERGENIC	--	--	--
Ca5_P2_30910282	Ca5	30910282	ATTTTTTTTT/ATTTTTTTTT	ACCCCATCTCTTCTCTG GAT	ACGGTCACATCTTCCA CTCC	60.0	526	INTERGENIC	--	--	--
Ca5_P2_30917795	Ca5	30917795	G/GA	GAACCAAAGTTGTGGA ACAAAA	GTGCGTAAGTGCAGTT GGAG	59.5	526	INTERGENIC	--	--	--
Ca5_P2_30919604	Ca5	30919604	TTATA/TTATATA	TGGATACATCTCAATGG GCA	CTCCACACGCGATA AACT	60.1	737	DRR	Ca_04789	--	--
Ca5_P2_30923030	Ca5	30923030	TTATAATTTA/TTATAATTTATATAATTTA	GACTTCAACCATCACC ACC	ACCAACCAACCACTCC ACTC	59.9	411	INTERGENIC	--	--	--
Ca5_P2_30924630	Ca5	30924630	CGG/CGGG	ATGCTTTGTCTCAAGTG CGG	TTTGAAATTAACGACG GGG	59.8	549	INTERGENIC	--	--	--
Ca5_P2_30927465	Ca5	30927465	TAAAAAAA/TAAAAAAA	TTCGATGCAAGACACTA CCAA	CGATTTATGCGGAGAC TCGT	60.2	723	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_30927659	Ca5	30927659	TACA/TA	TTGAAGAAGGGTAATG CGATT	CGATTTATGCGGAGAC TCGT	60.2	116	INTERGENIC	--	--	--
Ca5_P2_30927704	Ca5	30927704	GTATATA/GTATATATATA	TTGAAGAAGGGTAATG CGATT	CGATTTATGCGGAGAC TCGT	60.2	116	INTERGENIC	--	--	--
Ca5_P2_30928660	Ca5	30928660	CAAAAGTCAACA/CAAAAGTCAACACAC GTAAAAAGTCAACA	AAGAAGCACGTCATTG CTG	GTTTGAACCAGTGCGA TCCT	60.1	668	INTERGENIC	--	--	--
Ca5_P2_30929556	Ca5	30929556	T/TAAGTAGACTTAAC	AACAAGGATCGCACTG GTTT	GGTTCACCACCAACCT GACT	59.9	590	INTERGENIC	--	--	--
Ca5_P2_30932039	Ca5	30932039	AAAGATAAGATAAGA/AAAGATAAGA	TGAGTAAC TTCGAACGT GCAG	AGTAGTGTTGGCCTGT GCCT	59.8	553	INTERGENIC	--	--	--
Ca5_P2_30934463	Ca5	30934463	ATTT/ATT	GCCAAATTAATAACGG CACA	GCAAGGGGTGAGAAAA TGAA	60.1	927	DRR	Ca_04790	--	--
Ca5_P2_30936563	Ca5	30936563	T/TC	GCAGTTGTGCACGTTG ATTT	TGAGTGACGGTTTGAC TGGA	60.3	456	INTERGENIC	--	--	--
Ca5_P2_30937344	Ca5	30937344	CAA/CAAA	GGCTGGCTAAAAGATA CCCC	TGCACGTGATGTTGTG GAAT	60.0	590	DRR	Ca_04792	--	--
Ca5_P2_30941228	Ca5	30941228	TAAAAAAAA/AAAAAAAA	TGCTTTGACAAATGGAG TGG	TCTCGAGATCGAATT GAGACTT	59.5	233	INTERGENIC	--	--	--
Ca5_P2_30941710	Ca5	30941710	CAAAAAAAAA/CAAAAAAAAA	TCTCAAATTCGATCTCG AGAAAA	TCGATAGGTTTAATG GAACAA	58.5	574	INTERGENIC	--	--	--
Ca5_P2_30942392	Ca5	30942392	CTCTT/CTCTTCTT	TTATAAATTTGGGCACG CGT	GCCATTTTGACCGACC TAGA	60.1	155	INTERGENIC	--	--	--
Ca5_P2_30948697	Ca5	30948697	CAA/CAAA	ATATTGTTGGTAGCGTC GGC	TGTGCGGAGACATCTT ATGC	59.8	601	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_30948949	Ca5	30948949	TAGAAGAAG/TAGAAG	ATATTGTTGGTAGCGTC GGC	TGTGCGGAGACATCTT ATGC	59.8	601	INTERGENIC	--	--	--
Ca5_P2_30949176	Ca5	30949176	CAAT/CAATTAAT	ATGGCATAAGATGTCTC CGC	TGCATGAGGGTAGAGA CTATCAA	58.9	338	INTERGENIC	--	--	--
Ca5_P2_30950079	Ca5	30950079	ATCTC/ATC	TGTTAATGTTTATGGCC GCA	CAGCGTCTTGTCAAAT GTGT	58.8	508	INTERGENIC	--	--	--
Ca5_P2_30951992	Ca5	30951992	TAAAAAAAA/TAAAAAAAAA	TGTTGGTAGGGGTGGG AATA	TTGAATGTGTTTGTG GATGA	58.9	398	DRR	Ca_04794	--	--
Ca5_P2_30957314	Ca5	30957314	AATTTTG/A	AGCCTCCTACAACCTTT CCC	TGATCCAAGTTTAGTT GCAATTC	59.6	467	INTERGENIC	--	--	--
Ca5_P2_30957781	Ca5	30957781	A/ATTT	TTTGAATTGCAAATAA ACTTGA	CTAACAAGAAATCCGC GCTC	60.0	641	INTERGENIC	--	--	--
Ca5_P2_30959016	Ca5	30959016	CTATAT/CTAT	GGGGCATACTGCTACG ATGT	TTGCTACACCTTGAC CACA	60.3	639	INTERGENIC	--	--	--
Ca5_P2_30959641	Ca5	30959641	AT/ATGATACT	TGTGGTCAAGGTGTAG CGAA	TGCCATGTATTCTGAG CGTC	59.8	425	INTERGENIC	--	--	--
Ca5_P2_30959956	Ca5	30959956	GTTTTTTTTT/GTTTTTTTTT	CTTTGAAGCTCACCTC CAC	ACCTTTGACACGAAAC GGAA	60.5	748	INTERGENIC	--	--	--
Ca5_P2_30961401	Ca5	30961401	CATAT/CAT	GGACGATCGATGGAGA CAGT	GAAGCCAAGATAGCAC AGGC	60.0	383	INTERGENIC	--	--	--
Ca5_P2_30961731	Ca5	30961731	A/AC	GCCTGTGCTATCTTGG CTTC	AGGATTGCTCCAGCAA AGAA	60.0	493	INTRON	Ca_04795	R	--
Ca5_P2_30961814	Ca5	30961814	CTAA/CTAATTAA	GCCTGTGCTATCTTGG CTTC	AGGATTGCTCCAGCAA AGAA	60.0	493	INTRON	Ca_04795	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_30971169	Ca5	30971169	TAAAAAA/TAAAAA	TTCCACCAATCTCTGCA AAA	TTGAAAAGCCCATTTTG ACC	59.9	450	INTRON	Ca_04796	T	--
Ca5_P2_30977866	Ca5	30977866	TAAAAAA/TAAAAA	GCATATCTTGGCCCTTC AAA	CTGAGGACCGGACTC AATA	60.1	522	INTRON	Ca_04796	T	--
Ca5_P2_30986745	Ca5	30986745	GATAAAT/GATAAATTGTCATTAATAA T	AAAAAGACTGCAACAAG AAAAACT	TCTCATACTGCATCC GCTG	60.0	957	INTERGENIC	--	--	--
Ca5_P2_30987073	Ca5	30987073	TAAAAA/TAAAAA	TGTGGAATCACCGACA AAAA	TCTCATACTGCATCC GCTG	60.0	268	INTERGENIC	--	--	--
Ca5_P2_30987368	Ca5	30987368	AT/ATT	TCAGCGGATGCAGTTA TGAG	GCGACTACTGTGCGAG TCAC	59.7	501	INTERGENIC	--	--	--
Ca5_P2_30988109	Ca5	30988109	TCCTTCTCGA/T	TAGTCGCACTATTGCAC GCT	ATTCTCCGTTTCAGGT TGTG	60.0	851	INTERGENIC	--	--	--
Ca5_P2_30994608	Ca5	30994608	TAAA/TAAAA	TTTGCCCTCCTGTGAGT TCT	GTTTCCCGCACATTGA TCTT	59.9	540	INTRON	Ca_04797	K	--
Ca5_P2_30997360	Ca5	30997360	GA/GAA	TTGGTGCCAAATTGGT GTAA	CTCTCGACTCTCAAATT CCGA	59.6	419	DRR	Ca_04797	K	--
Ca5_P2_30998862	Ca5	30998862	TTAT/TT	ATAGATGCTGCGGCCA TTAG	AATATAGAAACCAATA ACCCGTTT	57.7	166	INTERGENIC	--	--	--
Ca5_P2_30999647	Ca5	30999647	A/AC	CATTTTCAATAAATCTG AAATGATTGT	GCAATGTTATGCAAGC AGCA	61.0	206	DRR	Ca_04798	--	--
Ca5_P2_31000378	Ca5	31000378	CAAAAA/CAAAAAA	CAAGCGTATCCATAGTC CACC	ACTCTCCCCTCCCAAC CTAA	59.9	487	DRR	Ca_04798	--	--
Ca5_P2_31001905	Ca5	31001905	AAT/AATATAT	CGACTCACGACAGAGG ATGA	CGAAGAGGAAATTCTT GTTTGTIT	60.0	836	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31002201	Ca5	31002201	TAAAAAAAA/TAAAAAAAA	TCAACCCACACAAGAT TCA	CGAAGAGGAAATCTT GTTTGT	60.0	653	INTERGENIC	--	--	--
Ca5_P2_31004244	Ca5	31004244	GTTT/GTTTT	TGGCTTAATATTGTGGC AGATG	GAAAAAGCACCCAGAA AAAA	59.2	175	INTERGENIC	--	--	--
Ca5_P2_31004299	Ca5	31004299	CTTGTAATT/CT	TGATTCTGCTTGACAA GTGC	ATGGCCAAGAATTCA CAGG	59.9	546	INTERGENIC	--	--	--
Ca5_P2_31009263	Ca5	31009263	CTTATTAAT/CTTATTAATTATTAAT	TCATTGGCATGAAACCA GAG	TGAATGTTGGAACAA GCCA	60.1	318	INTERGENIC	--	--	--
Ca5_P2_31009609	Ca5	31009609	CAA/CAAAA	TGGCTTGTTTCCACAT TCA	CTCCCTTCCATTCTC TCC	59.9	693	INTERGENIC	--	--	--
Ca5_P2_31012665	Ca5	31012665	TA/T	GTTCCGCCTCTTAAC TCC	CCCTCACACTCAACAC ACAA	58.1	745	INTERGENIC	--	--	--
Ca5_P2_31013035	Ca5	31013035	GTTTT/GTTTTT	GCCCAACCTTAAGAG CTTT	CACCTGCTAATTGCAAC CGA	59.9	616	INTERGENIC	--	--	--
Ca5_P2_31014350	Ca5	31014350	CTTTTTTTT/CTTTTTTTT	ACTTTTGACCTGTGG GTG	ATGTGAAAACTTCACG GGG	59.8	636	INTERGENIC	--	--	--
Ca5_P2_31015449	Ca5	31015449	AA/AATTCTTTTA	TTCATCCAATCCATCCA CCT	TTGCCCGCTTTTATTA TGG	59.9	747	INTERGENIC	--	--	--
Ca5_P2_31029239	Ca5	31029239	AAACAACAACAACAACAACAA/AAA CAACAACAACA	TTTCATTCGGTTTTTGG GAG	GATCGGGTGATTCAAT TAGTTTG	59.7	872	INTERGENIC	--	--	--
Ca5_P2_31029772	Ca5	31029772	ATTTTTTTTT/ATTTTTTTTTT	TCAAACCTAATTGAATCA CCCGA	TTTTGCATTTAATTCA AGAACCTT	59.5	509	INTERGENIC	--	--	--
Ca5_P2_31031627	Ca5	31031627	TA/TAA	ATGCGAAATCCGTCTCA TTC	CAAAACACCTCGCACA GAGA	60.0	853	INTRON	Ca_04801	B	MYB_related

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31031889	Ca5	31031889	AATAATATAATAT/AATAATAT	AGCTCTCTGTGCCATT CTT	ATAGTTGCCGGAACA AAAC	60.1	531	INTRON	Ca_04801	B	MYB_related
Ca5_P2_31032598	Ca5	31032598	AA/AATCAAATTA	AGCCTTCTGCTGATGCT GAT	ACCAAACCTCAGGCGAC AAGT	59.8	329	DRR	Ca_04802	--	--
Ca5_P2_31038384	Ca5	31038384	ATACTACT/ATACT	TCAAAACACAATCCTTC CTTCA	TGGAATAATGACGGTG ACGA	59.9	625	INTERGENIC	--	--	--
Ca5_P2_31041985	Ca5	31041985	ACT/ACTCT	TCATCAACTTCCGTGT CCA	CCATTGCTGTTACGAT GCT	58.8	477	INTERGENIC	--	--	--
Ca5_P2_31044270	Ca5	31044270	GTTTAGACTTTTA/GTTTA	GGCCCAAAAGAGGTTT CTAC	TTCGAAATGGACAAAT CTTACAA	59.9	216	DRR	Ca_04803	O	--
Ca5_P2_31044407	Ca5	31044407	ATA/ATAATGTTA	GGCCCAAAAGAGGTTT CTAC	TGACACCTTTAAATAAT TCCATGA	57.7	574	DRR	Ca_04803	O	--
Ca5_P2_31045566	Ca5	31045566	AT/ATT	AACTCACTCCACAATG CCC	CACCTGCAATCAACC CCTT	60.0	231	INTRON	Ca_04803	O	--
Ca5_P2_31046318	Ca5	31046318	TTGTTTATTAGT/TT	TGGTTTATCCTTCAAC CGC	CACGTGATTTCTCCATC GTG	60.1	730	INTRON	Ca_04803	O	--
Ca5_P2_31050359	Ca5	31050359	CATTCAATTCAT/CATTCAATTCATAT TCAT	AAGAAGGAGGAAGAGC AGGG	TGATCCGCATAAAGCA TTCA	60.2	189	INTERGENIC	--	--	--
Ca5_P2_31051735	Ca5	31051735	AA/AAGAACAAAATA	TGAAATTGACTGAGAAA TTGCAT	AAGAAATGCAAGGGC ATTA	59.5	223	INTERGENIC	--	--	--
Ca5_P2_31051998	Ca5	31051998	TAAAAA/TAAAAA	CATAATGCCCTTGCAAT TTC	TATCCACATGGCAAGA TCCA	59.9	382	INTERGENIC	--	--	--
Ca5_P2_31052451	Ca5	31052451	TAAAAA/TAAAAA	TGGATCTTGCCATGTG GATA	TCTGAAACCTGGTGGG AGAC	60.1	581	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31054226	Ca5	31054226	TAAAAAA/TAAAAAAA	TTGCTTCTTTAATGCC ACC	AAACGGAGGAGTGTT CCCT	60.0	291	INTRON	Ca_04804	--	NAC
Ca5_P2_31062689	Ca5	31062689	TCC/TC	CTATTGTGGCTTCCATC GGT	CAGCAAGGCCAATACC AAAT	60.0	599	INTRON	Ca_04805	R	--
Ca5_P2_31063645	Ca5	31063645	CCTAGCTTG/CTTAAGACAACACTAGCT TG	CCCAGTTCAGTGGTTCT GGT	CTGTTCTGTCTCAGG GAGC	60.0	824	INTRON	Ca_04805	R	--
Ca5_P2_3106419	Ca5	3106419	CACA/CACATAACTACA	CAATTTTCGTGATGTGG CAG	TGAGTGATGCGAGTTG TTCG	61.0	749	INTERGENIC	--	--	--
Ca5_P2_31065540	Ca5	31065540	TATAA/TATAATAA	GTGCATCCTGTTTTCG GTT	GTGATGACTTCAAGGG GCAT	59.9	938	INTRON	Ca_04805	R	--
Ca5_P2_31068913	Ca5	31068913	A/AT	GAAAACTCGACCTCCTA TTGAA	TAAAGCCGCCCATTTA GAA	59.7	595	DRR	Ca_04806	--	--
Ca5_P2_31072626	Ca5	31072626	CAA/CA	CCTTCACAGCAGCAAC AAAA	AGGGAGCAATGCATGA AAAC	60.1	566	INTERGENIC	--	--	--
Ca5_P2_31072835	Ca5	31072835	A/AC	GTTTTCATGCATTGCTC CCT	TTCAACCAATGCACTT CAA	60.1	622	INTERGENIC	--	--	--
Ca5_P2_31073126	Ca5	31073126	CTTTT/CTTTTT	GTTTTCATGCATTGCTC CCT	TTCAACCAATGCACTT CAA	60.1	622	INTERGENIC	--	--	--
Ca5_P2_31073172	Ca5	31073172	GTTTTTTTTT/GTTTTTTTTT	GTTTTCATGCATTGCTC CCT	TTCAACCAATGCACTT CAA	60.1	622	INTERGENIC	--	--	--
Ca5_P2_31076855	Ca5	31076855	T/TG	AATAGGCACATGTCCAT CCC	CCATTGGTTCAATTTTG GTG	58.7	637	INTERGENIC	--	--	--
Ca5_P2_31078017	Ca5	31078017	TTATA/TTA	GGGACATGCGTTTATC AAAGT	TCCATAAACCCATAAT CAAAA	58.2	473	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31078519	Ca5	31078519	AT/ATTT	TTTTGATTATGGGTTT ATGGA	ACCAACACCAACTATTG GCA	58.9	473	INTERGENIC	--	--	--
Ca5_P2_31083532	Ca5	31083532	AAGTAGTTG/AAGTAGTTGAGTAGTTG	TCTTATCCCCTCTCCCC TGT	TTACTTGTTCGCCCGA ATC	59.9	777	DRR	Ca_04808	--	--
Ca5_P2_31084271	Ca5	31084271	TAAC/TAACCAAC	GATTCGGGGCAACAA GTAA	ATTCACCCCAACCTT AGC	60.2	524	DRR	Ca_04808	--	--
Ca5_P2_31087296	Ca5	31087296	GAAAAAAAAA/GAAAAAAAAA	TGCACTTCCGATCAAT CAA	TCCAATAAAATTTTG GGTTTT	60.0	140	DRR	Ca_04809	O	--
Ca5_P2_31092038	Ca5	31092038	TAAAA/TAAAA	ATTTAGGGGAACGCC TTTA	AACTGTTGTGAGAGCC GCTT	60.1	317	INTRON	Ca_04809	O	--
Ca5_P2_31094152	Ca5	31094152	AATATATA/AATATA	TTTCATGCAATCAAAA ATCG	CTGCCCAATGTCTAA TGCT	60.1	438	DRR	Ca_04810	O	--
Ca5_P2_31098359	Ca5	31098359	TC/T	GAGGCCATTCAAACCA AAAA	CCACGTTTGTCTTTG ACCT	60.0	662	INTRON	Ca_04811	--	NF-YC
Ca5_P2_31102459	Ca5	31102459	AAAA/AAAACAAA	CATTGGATCGGCAATT TTC	CATCCCAGATTTTGTG GGT	59.6	728	INTERGENIC	--	--	--
Ca5_P2_31108640	Ca5	31108640	CAAAAA/CAAAAAAA	TTGAGCCCTATCTGTT GGG	AAACCATCTGGGTTT TTCC	60.0	442	INTRON	Ca_04812	R	--
Ca5_P2_31109120	Ca5	31109120	AATAAATA/AA	AGTCAAGCCTCACTCC CAGA	TCCCGATTTTGGTCAA CAT	60.2	434	INTRON	Ca_04812	R	--
Ca5_P2_31110488	Ca5	31110488	AGGATAATG/AG	GGTGAGTCAACGGCAT TTTT	CCGGTGCAAGTTTCA TAAA	61.0	279	INTERGENIC	--	--	--
Ca5_P2_31111351	Ca5	31111351	C/CGTATAAT	TTTGTTTACAAGGGTAG TTTGTA	CATTAGGATTCGTTTG ATATGGA	59.3	485	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31111411	Ca5	31111411	ATTTTTTTTT/ATTTTTTTTT	TTTGTTCACAGGGTAG TTGTCA	TGAAACCCAAACAC GGAT	60.2	560	INTERGENIC	--	--	--
Ca5_P2_31111925	Ca5	31111925	TAAAAA/TAAAAA	ATCCGTGTTTGGGT TCA	TGGGTCATTGAAGTC TAATTG	60.0	457	INTERGENIC	--	--	--
Ca5_P2_31111985	Ca5	31111985	AT/A	ATCCGTGTTTGGGT TCA	TGGGTCATTGAAGTC TAATTG	60.0	457	INTERGENIC	--	--	--
Ca5_P2_31112728	Ca5	31112728	TAAAAA/TAAAAA	CAATTAGCACTCAATG ACCCA	CGTGCATCATTTCA GAC	60.0	784	INTERGENIC	--	--	--
Ca5_P2_31113202	Ca5	31113202	ATTTTTTT/ATTTTTTT	GTCGGTGAAATGATGA CACG	GAGGACGTCTTTTCG TCCA	60.2	317	INTERGENIC	--	--	--
Ca5_P2_31113335	Ca5	31113335	AGACG/AG	GTCGGTGAAATGATGA CACG	GAGGACGTCTTTTCG TCCA	60.2	317	INTERGENIC	--	--	--
Ca5_P2_31115282	Ca5	31115282	AA/AATA	CCATCTCCAACAATATC AAATTCA	CCCGAATTGCAAGAG TAAT	60.1	428	INTERGENIC	--	--	--
Ca5_P2_31118727	Ca5	31118727	GTTTTTTT/GTTTTTTT	ATCCAACGGTTAACGAA TGC	CTCTATTCAATGCAC CCA	59.6	606	DRR	Ca_04814	--	NF-YC
Ca5_P2_31121983	Ca5	31121983	TCAACTCCAACCTCAA/TCAACTCCAAC TCCAACCTCAA	CTGCTGCCAAACTTCTC CTC	CCGTTTGTGAGTGTT CATC	60.2	614	INTRON	Ca_04814	--	NF-YC
Ca5_P2_31123518	Ca5	31123518	GAAAAAAAAA/GAAAAAAAAA	TTGGAGTTTTTTGTTCA CAATGTT	AGAACACACTCTTGCC GCTT	60.1	505	INTERGENIC	--	--	--
Ca5_P2_31129813	Ca5	31129813	GTAA/G	GAGAGGGTGAAAAATG GCAA	TACCATTCCCAACCACA CCT	60.1	430	INTERGENIC	--	--	--
Ca5_P2_31130050	Ca5	31130050	TG/T	GAGAGGGTGAAAAATG GCAA	TACCATTCCCAACCACA CCT	60.1	430	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31132248	Ca5	31132248	GTTT/GTT	TAATGTGCTGCAAACCA GGA	CAGGGAATTGATTCGA GCAT	60.0	409	INTRON	Ca_04815	--	--
Ca5_P2_31149820	Ca5	31149820	AATGAGATGAGATGAGATGAGATGA/AA TGAGATGAGATGAGATGA	CGCCGCCTATACAACA AAAT	AAGCTTGTGGGAAAGG GAAT	59.9	400	INTRON	Ca_04818	--	GRAS
Ca5_P2_31150042	Ca5	31150042	T/TAA	CGCCGCCTATACAACA AAAT	GCGTCAAGGAAAGCTA ATCG	60.0	939	INTRON	Ca_04818	--	GRAS
Ca5_P2_31153699	Ca5	31153699	TAAAAAAAA/TAAAAAAAA	TTTAAAGGGGCTCACTT GCT	TTTTGGCATAAAATTGA AGTATGG	59.3	552	INTERGENIC	--	--	--
Ca5_P2_31153866	Ca5	31153866	ATTT/ATT	TGAACAATATTTCTCTT CCAGCA	TTGTGTGGAGGTAAAA GCCC	60.0	885	INTERGENIC	--	--	--
Ca5_P2_31153903	Ca5	31153903	CAAAAA/CAAAAA	TGAACAATATTTCTCTT CCAGCA	TTGTGTGGAGGTAAAA GCCC	60.0	885	INTERGENIC	--	--	--
Ca5_P2_31153994	Ca5	31153994	TAAAAA/TAAAAA	GACCATACTTCAATTTT ATGCCAA	TTGTGTGGAGGTAAAA GCCC	60.0	432	INTERGENIC	--	--	--
Ca5_P2_31154231	Ca5	31154231	TG/TGAG	GACCATACTTCAATTTT ATGCCAA	TTGTGTGGAGGTAAAA GCCC	60.0	432	INTERGENIC	--	--	--
Ca5_P2_31155852	Ca5	31155852	CTAATAATAATAATAATAATAAT/CT AATAATAATAATAATAATAATAAT	GGTGGGTCGCTTTTAT ATGA	AAGGGGAAAGGAAAG GAAA	59.0	253	INTERGENIC	--	--	--
Ca5_P2_31170171	Ca5	31170171	GCC/GC	CAGCCCCGATAACACA TTCT	GGCCCCATTACAGGA ATTT	60.0	612	DRR	Ca_04822	TU	C3H
Ca5_P2_31175434	Ca5	31175434	GTT/GT	CCTTCAAGCCCTAAGA TCC	AGTTTGCTCCATGGGA ATTG	59.9	252	INTRON	Ca_04822	TU	C3H
Ca5_P2_31177378	Ca5	31177378	ATCTA/ATCTATTCTA	CAAGAGCCATCTCATCC CAT	GAGCTGTGTGCAGCCT ACAA	60.2	452	INTRON	Ca_04822	TU	C3H

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_31182029	Ca5	31182029	GAAGAA/GAAGAAGAAGAA	ACAGCCTCAGCTCCAC TGAT	ATGAAATTGCTCCGTT GAGG	60.1	382	INTERGENIC	--	--	--
Ca5_P2_31183009	Ca5	31183009	G/GATGC	CCAAACACTCAAACCGA CTC	AAAGACCAAATTGGAC ACTTCA	58.6	817	DRR	Ca_04823	--	WOX
Ca5_P2_31183454	Ca5	31183454	AGTTAAAAATG/AGTTAAAAATGTTTGT AAAAATG	GGAGCTGATTGATAGA TTTGGAA	TTTCTTGTCCCCAAATG TCTT	58.5	567	DRR	Ca_04823	--	WOX
Ca5_P2_31183515	Ca5	31183515	TTGT/TT	TTCACATACCCCAAGT TTGAGA	TTTCTTGTCCCCAAATG TCTT	58.5	272	DRR	Ca_04823	--	WOX
Ca5_P2_31183794	Ca5	31183794	CAAAAAA/CAAAAAA	AAGACATTTGGGGACA AGAAA	ATGCCTACTGTGAACC AACG	58.7	628	DRR	Ca_04823	--	WOX
Ca5_P2_31184967	Ca5	31184967	TC/T	CAACCATTGAAGGGAG CCTA	AATGATGGGTTTGCCT TAGC	60.0	653	DRR	Ca_04823	--	WOX
Ca5_P2_31185925	Ca5	31185925	CTTTTTTTTT/CTTTTTTT	ATTTGAAGCTGGAGAG GGGT	TCCATCACCTCTCAACA CGA	60.2	529	INTRON	Ca_04823	--	WOX
Ca5_P2_31186832	Ca5	31186832	TCC/TCCC	GTGTCTTTCGGTGGAG GAAA	TGACGTTGATAGAAAC GAAGACA	59.8	478	INTERGENIC	--	--	--
Ca5_P2_31187813	Ca5	31187813	CAAAAAA/CAAAAAA	GAGGAATGCTAATGTG TCCCA	AAAGTGTTCCTCGCCT CGAA	60.0	603	INTERGENIC	--	--	--
Ca5_P2_31188289	Ca5	31188289	TAAA/TAAA	AAAGTGTTCGAGGCGA GAAA	GCATGAGTTCATTGGT GGTG	60.0	479	INTERGENIC	--	--	--
Ca5_P2_31189292	Ca5	31189292	ATCTT/ATCTTCTT	TTTCGTCGTAATAATTC TTTATTGA	GTCGGAATTCGAAGTG TGGT	60.0	540	INTERGENIC	--	--	--
Ca5_P2_31191176	Ca5	31191176	AATATATATATATA/AATATATATATAT A	AACCGTGTACGAGCGG TATT	TGTGTTTGCAAGGAAA ATCC	58.6	619	INTRON	Ca_04824	CR	NAC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31191876	Ca5	31191876	G/GT	GGATTTTCCTTGCAAC ACAC	GTTCCATGCTTCCAC CTGT	60.0	665	INTRON	Ca_04824	CR	NAC
Ca5_P2_31192988	Ca5	31192988	TAAAAAAA/TAAAAAAA	TGGCAGGGTGGTAAAA AGAA	AAGTATCCATTGGCTC CGTG	60.0	557	DRR	Ca_04825	R	WOX
Ca5_P2_31193802	Ca5	31193802	T/TTC	TTAATTCCAATGCGGAA AGC	CCTTTCCAATGCACCA ACT	60.0	367	DRR	Ca_04825	R	WOX
Ca5_P2_31196205	Ca5	31196205	GT/GTT	GGGTTTGAAAGGGGAG AGAG	TACCGTGACAAACAAG CGAG	59.9	217	INTERGENIC	--	--	--
Ca5_P2_31197193	Ca5	31197193	TA/T	TTGGCTAAATACCTCTC GTTCC	GTCGGTTGAGCTAGGG CTTA	59.5	488	INTERGENIC	--	--	--
Ca5_P2_31229749	Ca5	31229749	GATATATA/GGATATATATA	TCGGCTCCTTTTCATT ACG	CTACCGATTGCAATC CAAT	59.9	272	INTERGENIC	--	--	--
Ca5_P2_31229830	Ca5	31229830	TAAAAAAA/TAAAAAAA	TCGGCTCCTTTTCATT ACG	CACACTTTCGTTGCGT CACT	59.9	622	INTERGENIC	--	--	--
Ca5_P2_31230495	Ca5	31230495	AC/A	AGTGACGCAACGAAAG TGTG	AAAGAGGTTTGACTGA TTTTGAGA	58.5	511	INTERGENIC	--	--	--
Ca5_P2_31231114	Ca5	31231114	GTTTTTTTTT/GTGTGTTTTTTTTT	TCTCAAATGGTACTTGG AACAA	AATTCACGTTGAGTGA CCCAT	59.3	185	DRR	Ca_04829	--	--
Ca5_P2_31231138	Ca5	31231138	TAAATAAATAATAA/TAAATAAATAA TAAATAAATAATAA	TCTCAAATGGTACTTGG AACAA	AATTCACGTTGAGTGA CCCAT	59.3	185	DRR	Ca_04829	--	--
Ca5_P2_31241531	Ca5	31241531	CTTTTTTT/CTTTTTTTTT	CGATGAACGCAAACTC AAGA	TAATCAACCAAAACCC CAA	60.0	689	INTRON	Ca_04830	R	--
Ca5_P2_31254755	Ca5	31254755	GTTT/GTT	CTCACTTTTCCATTCC AAACA	CCGACATGACAATGAT CAAGA	59.5	313	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_31255133	Ca5	31255133	TAAAAAAAAA/TAAAAAAAAA	TCTTGATCATTGTCATG TCGG	CACCTGCACCTGTCAG AGAA	60.0	573	INTERGENIC	--	--	--
Ca5_P2_31255359	Ca5	31255359	GAATAATAACAATAATA/GAATAATA	TCTTGATCATTGTCATG TCGG	CACCTGCACCTGTCAG AGAA	60.0	573	INTERGENIC	--	--	--
Ca5_P2_31255829	Ca5	31255829	TG/T	AGACGGCAACAAACT GGC	TGTCTATTTTGGTGTGC GTAAAA	59.6	673	INTERGENIC	--	--	--
Ca5_P2_31256076	Ca5	31256076	TA/TAA	TTTTTGTGTACGATG GCTAA	CGCTCAACACACGTT CATT	59.8	672	INTERGENIC	--	--	--
Ca5_P2_31257262	Ca5	31257262	TATAATAATAATA/TATAATAATAATA AATAATAATAA	AAACAGTCACCAAACCA GGC	CACCAAAATGTTGCCTT CAA	59.6	218	INTERGENIC	--	--	--
Ca5_P2_31264749	Ca5	31264749	TTATATATATATAT/TTATATATATATATA T	CTGGAGCTGGTGTGTC ATTG	GGCCATTGCAAAAC TTGT	60.0	374	DRR	Ca_04832	T	WRKY
Ca5_P2_31268811	Ca5	31268811	TAAAAA/TAAAAA	TCTCCAACGGTTAACTC AACA	TGTGTCAAGTCATCAC GGAAA	60.1	523	INTERGENIC	--	--	--
Ca5_P2_31271824	Ca5	31271824	TA/T	CTGCAAGAGGTTTGGC TTTC	TTGATCCCTAGCATGA CAAGAA	59.7	719	INTRON	Ca_04833	T	WRKY
Ca5_P2_31272097	Ca5	31272097	AG/A	ACCTATGGTTACGCAG CACC	TGGGATTTTCTGCTTCT TTTATG	59.6	693	INTRON	Ca_04833	T	WRKY
Ca5_P2_31272560	Ca5	31272560	ATTTT/ATTTT	TTCTTGTGCTGCTAGGG ATCAAT	TGAACGGACCTAATC CCTG	59.9	861	INTRON	Ca_04833	T	WRKY
Ca5_P2_31287214	Ca5	31287214	TAAAAAA/TAAAAAA	TTCTGACGTGACGTATT CTCATC	TATCGCTCAACAAGC AACG	60.0	470	INTERGENIC	--	--	--
Ca5_P2_31292148	Ca5	31292148	TC/TCC	TCCATCAGCTACCTCCA TCC	GTTTGATTTTGGTGGT GGG	60.1	725	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31292993	Ca5	31292993	GTTG/GTTGAATTCTTG	AAATGCGGGTTTCAC GTC	TCTGCTCCCGTTGA GCTT	60.0	527	INTERGENIC	--	--	--
Ca5_P2_31302356	Ca5	31302356	CAA/CA	CTTCCTGCAGGGGTAT TTCA	ATGCATCCCTGCGAAT TAAC	59.9	179	INTERGENIC	--	--	--
Ca5_P2_31305290	Ca5	31305290	CTT/CTTT	ATCCCTCCTCCCTCTTT TGA	CACGGCAATTTCTCCC TAAA	60.1	633	INTERGENIC	--	--	--
Ca5_P2_31311316	Ca5	31311316	CTTTT/CTTTTT	TTGGCACATATGGGGT TTTT	CCAACGCATAAGTCAT GTGG	60.0	730	DRR	Ca_04834	--	Nin-like
Ca5_P2_31311984	Ca5	31311984	AACACAC/AACACACAC	CCACATGACTTATGCGT TGG	CATTACACACATTGCA CCA	60.0	312	DRR	Ca_04834	--	Nin-like
Ca5_P2_31317675	Ca5	31317675	TTAAAGTAAA/TTAAA	TGTTTAGGGAATCTGAC GCC	TTGCACACAAAATAAG TGCC	58.9	602	INTERGENIC	--	--	--
Ca5_P2_31319933	Ca5	31319933	ATTTTTTTTTT/ATTTTTTTT	CCTTTACGCCTTGACTC TGC	GATCGATTTCGTGAATT GAAAA	59.1	387	INTERGENIC	--	--	--
Ca5_P2_31321508	Ca5	31321508	TAAAAAAA/TAAAAAAA	GGGCTTCGTACCAAAA ACAA	AAAGAAAACCATGTGC CCAA	60.3	565	INTERGENIC	--	--	--
Ca5_P2_31325751	Ca5	31325751	TAATAAATAAATAAT/TAATAAATAAT AAATAAATAAAT	TCATACACATTACCCAC GCTTT	ACTCGCATAATGGTAT GGGC	59.8	598	INTERGENIC	--	--	--
Ca5_P2_31327026	Ca5	31327026	T/TA	AAGGCCTTGTACGGTC ATTG	TTGGCATAGTTCTGAAA GACCA	59.7	602	INTERGENIC	--	--	--
Ca5_P2_31333124	Ca5	31333124	CAAAAAAAAA/CAAAAAAAAA	CACAGCAGTTTCCATG CAGT	ATGTAAGTCACCCCAA ACGC	59.9	236	INTRON	Ca_04835	P	--
Ca5_P2_31333502	Ca5	31333502	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CACAGCAGTTTCCATG CAGT	CCATTCTGAAGAGTTT GCGG	60.8	523	INTRON	Ca_04835	P	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_3133742	Ca5	3133742	CAA/CA	GCGTTTGGGGTGACTT ACAT	TGGTTCGTTCTGTGT TGAT	60.0	780	INTRON	Ca_04835	P	--
Ca5_P2_31334829	Ca5	31334829	TATTATAAAATT/TATT	AATGTCCCCAACCAATT TGA	ATGGGTGATAAATACC TGTTTTG	57.0	774	INTERGENIC	--	--	--
Ca5_P2_31335103	Ca5	31335103	TAA/TAAA	CATTAACGATGGGTTTT CTTTTT	TGAATGTATTGCAATTG TTTTGA	58.2	745	INTERGENIC	--	--	--
Ca5_P2_31337412	Ca5	31337412	AATA/AATATATA	TGATAAGGAAAGAGC GCGT	TTTTGCAAATTTTCAGA GATCAA	58.9	722	INTERGENIC	--	--	--
Ca5_P2_31338733	Ca5	31338733	GA/GAA	TGAAGAGCTTTGAGAA GAGGAAA	TGCGTTCAGACCAAAA CAAG	59.9	562	INTERGENIC	--	--	--
Ca5_P2_31340520	Ca5	31340520	CAACAAACAAA/CAACAAA	AGGCCCAAACCATACAA TCA	CACCAGACATCACCAC CTTG	60.0	536	INTERGENIC	--	--	--
Ca5_P2_31342686	Ca5	31342686	TAAAAAAA/TAAAAAAA	ACCCCTTCAATTGTGA TCG	CCGTCCACAACCGTTC TATT	59.9	858	INTERGENIC	--	--	--
Ca5_P2_31355229	Ca5	31355229	TGGAAGGAAGGAAG/TGGAAGGAAG	AATGCCAACAAACAA CCA	AGCTCTTGGGATTTC TTCA	60.0	699	INTERGENIC	--	--	--
Ca5_P2_31361479	Ca5	31361479	CAAAA/CAAA	GACGGGCTTTTGTATT CCA	GACATGGGCCTATTGC CTAGT	60.4	461	INTERGENIC	--	--	--
Ca5_P2_31361550	Ca5	31361550	ATGTTT/ATGTTGTTC	GACGGGCTTTTGTATT CCA	GACATGGGCCTATTGC CTAGT	60.4	461	INTERGENIC	--	--	--
Ca5_P2_31364177	Ca5	31364177	TTTTT/TTTTCTTC	TCAACAACCAACATCAA AGTGA	TTTCCGATTGGTCTC TTA	59.4	809	INTERGENIC	--	--	--
Ca5_P2_31365376	Ca5	31365376	A/AT	TAACCTGATTCAGAAGC GGC	GTGTCGATAGGACCGC AGTT	60.1	638	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31365681	Ca5	31365681	AAATA/AA	TAACCTGATTGAGAAGC GGC	GTGTCGATAGGACGCG AGTT	60.1	638	INTERGENIC	--	--	--
Ca5_P2_31371469	Ca5	31371469	ATTTTTTTTT/ATTTTTTTTT	CAAACGGCTGGAGCAT AAAT	GTCCGTTCTTTTGCCAT GTT	60.0	717	DRR	Ca_04838	S	--
Ca5_P2_31375160	Ca5	31375160	ATTT/ATT	TTGTCCGTTTGTTACGT GGA	TCCAAAGCCTGAAGCT CAAT	60.0	429	INTERGENIC	--	--	--
Ca5_P2_31375255	Ca5	31375255	GT/GTCATGAATGAAATT	TTGTCCGTTTGTTACGT GGA	TCCAAAGCCTGAAGCT CAAT	60.0	429	INTERGENIC	--	--	--
Ca5_P2_31375720	Ca5	31375720	A/AT	ATTGAGCTTCAGGCTTT GGA	TCGGGTTGAAATTGTTA GGC	59.9	295	INTERGENIC	--	--	--
Ca5_P2_31375927	Ca5	31375927	GTTT/GTTTTT	ATTGAGCTTCAGGCTTT GGA	CAATTCAAATGTTTCAA AACAACA	59.0	767	INTERGENIC	--	--	--
Ca5_P2_31386154	Ca5	31386154	ATA/ATATTTAGTA	ATGTCGACTGCGTGAC TACG	TTGCTCTTACAGCGCA AAGG	60.5	759	DRR	Ca_04840	S	--
Ca5_P2_31392948	Ca5	31392948	T/TGTAATG	TTGGTGAGAAACTGA TAAACG	TAGGGTCGTGCAGTG GTGA	60.2	259	INTERGENIC	--	--	--
Ca5_P2_31393346	Ca5	31393346	GTATATATATA/GTATATATATATA	TCACCACTGACACGAC CCTA	TGCCCCGTAGTTTTTCTT GTG	58.8	522	INTERGENIC	--	--	--
Ca5_P2_31396550	Ca5	31396550	GAGACCAGACCAG/GAGACCAG	GAGCATTAGTGCTTGG CACA	CTGTGATCTGCCAGTT GCAT	59.9	335	INTRON	Ca_04842	--	MIKC
Ca5_P2_31401482	Ca5	31401482	GTGTTGACT/GTGTGACTACCTGTTGA CT	TCATGGGAGAACCAAA GGAG	GCTGTCTCCCATTC ACTA	60.1	626	DRR	Ca_04843	--	--
Ca5_P2_31408248	Ca5	31408248	ATTCATTT/ATTCATTTTCATTT	ATTTGTCTCCGTTTGT CCG	AACGAGTGGACCTGGT AACG	60.0	555	INTRON	Ca_04843	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31408843	Ca5	31408843	ATGAAATTGAAATTG/ATGAAATTG	CGGGCAAGTGATTGTT AGGT	TCACACTCACACTCTTC CGC	60.0	291	INTERGENIC	--	--	--
Ca5_P2_31409770	Ca5	31409770	CA/CAAAAAATTAA	AGGGCGGATTAGTTTT CGAG	TTGAAGAATTGTATGTT GTTGGA	59.5	557	INTERGENIC	--	--	--
Ca5_P2_31412254	Ca5	31412254	AATTA/AA	CACGTGTCCATCAAAAT TGC	TGCAAGCGAATCAAAC AAAA	60.4	721	INTERGENIC	--	--	--
Ca5_P2_31423555	Ca5	31423555	GATTTAATTTA/GATTTA	TGGATTGTGTGTCTAC CCA	TCGAGACGGAAGAGAA CGAT	60.0	301	INTERGENIC	--	--	--
Ca5_P2_31429862	Ca5	31429862	ATTTTTTTTTT/ATTTTTTTTT	CAAAGGAAAATCGCCA CAGT	AGGGCCTACAGCCTCT GTTT	60.3	809	INTERGENIC	--	--	--
Ca5_P2_31434842	Ca5	31434842	TA/TCATATAATAAA	AGGCGTCTTCCAACTTT TCA	TGTCACCAATCGGATT CAA	59.9	615	INTERGENIC	--	--	--
Ca5_P2_31435124	Ca5	31435124	CTTTTT/CTTTTT	TTGAAATCCGATTGGTG ACA	ATTGGTGTCCCTTGT CTCG	60.0	538	INTERGENIC	--	--	--
Ca5_P2_31435328	Ca5	31435328	ATTTTTT/ATTTTT	TTGAAATCCGATTGGTG ACA	ATTGGTGTCCCTTGT CTCG	60.0	538	INTERGENIC	--	--	--
Ca5_P2_31435353	Ca5	31435353	AAA/AAAAATAA	TTGAAATCCGATTGGTG ACA	ATTGGTGTCCCTTGT CTCG	60.0	538	INTERGENIC	--	--	--
Ca5_P2_31441846	Ca5	31441846	TAAAAAAA/TAAAAAAA	AATGATCGTTGAAGCAT CCC	GCCTCAATGACCCTTG ACAT	59.9	742	INTERGENIC	--	--	--
Ca5_P2_31442562	Ca5	31442562	CT/C	GTCAGGGTCATTGAG GCAT	GCCTAGTAGAACCAAG GGGG	60.0	557	INTERGENIC	--	--	--
Ca5_P2_31444478	Ca5	31444478	AC/ACC	AACAGCGACAACTTTT GCC	TCCGAAATGTGCTTATT GGG	60.8	550	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31444498	Ca5	31444498	CTTTTTTTTT/CTTTTTTT	AACAGCGACAACCTTTT GCC	TCCGAAATGTGCTTATT GGG	60.8	550	INTERGENIC	--	--	--
Ca5_P2_31455329	Ca5	31455329	CT/CTT	TTGCTTTTAGGGCGTCA TCT	TATGCACGTTGTTGGG CTAA	60.1	458	INTERGENIC	--	--	--
Ca5_P2_31456132	Ca5	31456132	TAAAAA/TAAAAA	GAAAAAGAATCCACGAC CGA	GGCGTGGAAGATATCG AAAA	60.0	443	INTERGENIC	--	--	--
Ca5_P2_31456646	Ca5	31456646	CTTTTTTTTTTTTT/CTTTTTTTTTTT	TTTTCGATATCTTCCAC GCC	TATGGCAAAAAGTTGT CGCA	60.3	727	INTERGENIC	--	--	--
Ca5_P2_31457540	Ca5	31457540	ATT/ATTT	TGCGACAACCTTTTGGC ATA	TGGGGCTGCTTGTTTA AGAT	59.7	813	INTERGENIC	--	--	--
Ca5_P2_31460612	Ca5	31460612	AC/A	TTTGATCAATTCACGG TTC	TGGCAGTGAACTTTT CTTT	59.2	874	DRR	Ca_04847	--	--
Ca5_P2_31463048	Ca5	31463048	GTTTTTT/GTTTTTTT	GAGGTGATCCAAAGCC ATGT	ATAAACAGGGACCATG CCAC	59.7	771	INTERGENIC	--	--	--
Ca5_P2_31465989	Ca5	31465989	TTATC/TTATCTATC	TTGCACAGCTGCAAATT CA	TAGGGGTATGGCCACT TTTG	59.8	555	INTERGENIC	--	--	--
Ca5_P2_31474537	Ca5	31474537	C/CA	TTTTTGTGTAGTTTTT TTTTTGGG	TTGGAGAAATCCAAATA ACCTC	57.2	640	INTRON	Ca_04848	--	--
Ca5_P2_31474883	Ca5	31474883	ATATAATTGTTATAATTG/ATATAATTG T	CGATAGAATCATGCTAC AAAATGTG	AGTGCTCTCCCCAAGC TACA	60.0	705	INTRON	Ca_04848	--	--
Ca5_P2_31481808	Ca5	31481808	TG/T	GATGGTTTGGTTGTTTT GGG	ACTACAGTCCACCGGC CTTA	59.6	507	INTERGENIC	--	--	--
Ca5_P2_31489071	Ca5	31489071	TA/TAA	GATTGAGGGCCACGTC ATAG	TGCACCATGCAGTATC AACA	59.7	359	INTRON	Ca_04850	E	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31504924	Ca5	31504924	GGTGTGTGTGT/GGTGTGTGTGT	GCATGTGGAACACACC TCAC	AAATGGCACATTGAAA GGC	59.9	805	INTRON	Ca_04853	Q	--
Ca5_P2_31505255	Ca5	31505255	ATTTTTTTT/ATTTTTTTT	ATTTTCGCGGAGAGT AAGT	TGGGGGAGAGTTGTCT TTTG	60.1	691	INTRON	Ca_04853	Q	--
Ca5_P2_31505281	Ca5	31505281	TAAAAAAAAA/TAAAAAAAAA	TTTACCACTTGAGATT CGC	TGGGGGAGAGTTGTCT TTTG	60.1	568	INTRON	Ca_04853	Q	--
Ca5_P2_31506180	Ca5	31506180	TAAA/TAAA	GGCCCATCCATTACCT TCT	CCAGCTGCTTTGTGAA ATGA	60.0	748	INTRON	Ca_04853	Q	--
Ca5_P2_31507991	Ca5	31507991	TTATA/TTA	GTCCTCGCCTATGTTTG GGA	GAATTCGGCTTGCAG GACT	59.5	341	INTRON	Ca_04853	Q	--
Ca5_P2_31509118	Ca5	31509118	ACCCCC/ACCCC	TGGCCAATACCCCAA GTAA	CTGAATGCGGAAGTTA AGGG	59.7	596	INTRON	Ca_04853	Q	--
Ca5_P2_31509396	Ca5	31509396	GTTTTTTTTT/GTTTTTTTTTTTTT	TGGCCAATACCCCAA GTAA	CTGAATGCGGAAGTTA AGGG	59.7	596	INTRON	Ca_04853	Q	--
Ca5_P2_31526667	Ca5	31526667	CTTTTT/CTTTTTT	GGATGTTATTGGTCAT TTTTCG	TTGTGAAATGCACGAG AGAA	58.0	254	INTERGENIC	--	--	--
Ca5_P2_31528715	Ca5	31528715	CTTGTCTTT/CTTGTCTTTTCTTTT	TCCATAAACCAATCGA GCA	CACCGTGAAAGAAAA GATGAG	58.9	806	INTERGENIC	--	--	--
Ca5_P2_31528942	Ca5	31528942	GA/G	CAATTTTGATCATTCAA TCTTTC	CACCGTGAAAGAAAA GATGAG	58.9	454	INTERGENIC	--	--	--
Ca5_P2_31532842	Ca5	31532842	CTT/CTTT	AAGCAAAAGGAGGGA TGAT	CCTGAAACTCAACCC AAGG	59.6	577	INTERGENIC	--	--	--
Ca5_P2_31535070	Ca5	31535070	T/TGTTATTTA	CACTCTTCTTCCATCC CCA	GAAGTCATTCAGTAA GCCCA	60.2	687	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31535350	Ca5	31535350	A/AGTTGGTT	CTCCCTCGATTATGAT TCCA	AATTGACGGGTTCAAG CAGA	60.6	771	INTERGENIC	--	--	--
Ca5_P2_31539135	Ca5	31539135	GTTGAA/GTTGAATTGAA	GCACATATGAAGTAAT GAGCG	AACAGACCATTATCCTG GTCAAC	59.3	209	INTERGENIC	--	--	--
Ca5_P2_31539485	Ca5	31539485	TAAAA/TAAAA	CGCACATATGAAGTAAT CGAGC	AAACGCCTTTGTGAA CACC	60.0	863	INTERGENIC	--	--	--
Ca5_P2_31539844	Ca5	31539844	GTTTT/GTT	TGTTTGAAGGACCAAT GAA	ACCGGAGAGGGCATAA AAGT	60.0	146	INTERGENIC	--	--	--
Ca5_P2_31545245	Ca5	31545245	AT/ATT	GTAATTTTGCCTGATT GTT	TTTTGCACACGCAAAAT CAT	60.1	588	INTERGENIC	--	--	--
Ca5_P2_31550362	Ca5	31550362	TA/TAA	CAGATACCATCAGCGC TTCA	CAAGGAAACGAAAAGC ATCA	58.9	848	INTERGENIC	--	--	--
Ca5_P2_31551541	Ca5	31551541	GAA/GA	TTACAGATGCACGGCT GAAG	GGAGTGAAATCCCAGC AAAA	60.1	213	INTERGENIC	--	--	--
Ca5_P2_31551885	Ca5	31551885	GTTTTTTTT/GTTTTTTTT	TTACAGATGCACGGCT GAAG	TGTGAGATTCATCTAAA TTGAACATT	58.2	747	INTERGENIC	--	--	--
Ca5_P2_31552568	Ca5	31552568	ATTTTTTT/ATTTTTTT	AATCAAATGTGGGTAC GGGA	CGAGCTTTTCCACTCTA GCAA	59.8	190	INTERGENIC	--	--	--
Ca5_P2_31553334	Ca5	31553334	GT/GTGTAT	TTCAGGCATTGAAGAG CAGA	AACGGTTACGCAGCAG AGAT	59.9	286	INTERGENIC	--	--	--
Ca5_P2_31553471	Ca5	31553471	CAA/CAAA	TTCAGGCATTGAAGAG CAGA	AACGGTTACGCAGCAG AGAT	59.9	286	INTERGENIC	--	--	--
Ca5_P2_31555586	Ca5	31555586	GTTTT/GTTT	AAGGTGGGACCCCAAT TATC	CTGAAAGGATCTGACT GGCG	60.9	620	DRR	Ca_04857	K	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31563195	Ca5	31563195	AATAA/AATAAGTGATAA	CACTCCCTGTCTCGTT TCC	CGAACGAGACTGTCAG CAAG	59.8	313	INTERGENIC	--	--	--
Ca5_P2_31563660	Ca5	31563660	TA/T	CTCCATGATTCTTTTCC CCA	GTGAAGCACGAGAGTA GGGG	59.9	564	INTERGENIC	--	--	--
Ca5_P2_31564314	Ca5	31564314	TAAAAAAA/TAAAAAA	CCCCTACTCTCGTGCTT CAC	CTCATATGTGAAATCCC GCC	60.3	917	INTERGENIC	--	--	--
Ca5_P2_31566906	Ca5	31566906	CACA/CCAACA	TTTGGGACAATTTTGT TTGC	TGGGTCAAGTTTAGGT CGCT	59.7	716	DRR	Ca_04858	E	--
Ca5_P2_31567967	Ca5	31567967	CTTATTA/CTTA	CACATTTGCAATGTTTC TTCG	CCGGTCAATATTTTGC GAGT	60.0	536	DRR	Ca_04858	E	--
Ca5_P2_31568304	Ca5	31568304	AATATATATAT/AATATATAT	TCAACCCACGTGCTTT GTA	CCGGTCAATATTTTGC GAGT	60.0	196	INTERGENIC	--	--	--
Ca5_P2_31568829	Ca5	31568829	CTTTTTTTT/CTTTTTTT	TGCGACGGAATGTCTC ATTA	GCATTGGCATGTGAAA AATG	59.9	721	INTERGENIC	--	--	--
Ca5_P2_31569100	Ca5	31569100	CAAT/C	GCCGACAAACAAATACA GTGA	GCATTGGCATGTGAAA AATG	59.9	204	INTERGENIC	--	--	--
Ca5_P2_31584538	Ca5	31584538	TAAAAA/TAAAAAA	TTTGAGGCACCGATGA TAGA	GAGGAGGATGTGCCA CGTT	60.0	530	INTERGENIC	--	--	--
Ca5_P2_31585122	Ca5	31585122	GTTTT/GTTTTT	AACGTGGACACATCCT CCTC	CTAGCTGAAGTTTCATG CGCC	61.1	181	DRR	Ca_04861	R	--
Ca5_P2_31585436	Ca5	31585436	TAAAAAAA/TAAAAA	AACGTGGACACATCCT CCTC	ACACGGAGGGAGTGT GGTA	60.4	954	DRR	Ca_04861	R	--
Ca5_P2_31585638	Ca5	31585638	TTTAAATATTAAATTTAAAT/TTTAAATA TTAAATATTAAATTTAAAT	CACAGAATTTGGTGGC ATTG	TGATCATGCGTGGATT TTGT	59.9	745	DRR	Ca_04861	R	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31586253	Ca5	31586253	TTATCAAAAAGAAAATCAA/TTATCAA	TCCAGCATGATCAAAT TGT	TATTGCTCAAAGTGGA GCCC	60.2	640	DRR	Ca_04861	R	--
Ca5_P2_31587183	Ca5	31587183	CAA/C	TGGAACCAAAACATGCT TCA	TAACGGGTGAGTGAAA AGCC	60.1	682	INTRON	Ca_04861	R	--
Ca5_P2_31593650	Ca5	31593650	AATAT/AAT	CCCGATACAAGTCGGA CACT	AATTTAATCCTCCATCC CCG	60.0	576	INTRON	Ca_04861	R	--
Ca5_P2_31596027	Ca5	31596027	A/AGAGATATATTG	CAATATCAAACATCGCC ACTCA	TATTGAGGGTGGTGGC TTTC	59.9	616	INTRON	Ca_04861	R	--
Ca5_P2_31596044	Ca5	31596044	GATATAT/GATAT	CAATATCAAACATCGCC ACTCA	TATTGAGGGTGGTGGC TTTC	59.9	616	INTRON	Ca_04861	R	--
Ca5_P2_31597751	Ca5	31597751	CTT/CT	AACCCACAAATCCAACA CAG	CCGCATTGAGTCTCCA TTTT	60.1	473	INTERGENIC	--	--	--
Ca5_P2_31599963	Ca5	31599963	AC/ACC	GGTATGTGGAGAGCAT CACG	TGGTTGCAAAGTGTGT GTGA	59.8	231	INTERGENIC	--	--	--
Ca5_P2_31602427	Ca5	31602427	AACC/A	ACTGAGCCTTCGTTGAA TGG	TGGACCAATTCGTGA ATGA	59.9	573	INTERGENIC	--	--	--
Ca5_P2_31602535	Ca5	31602535	CAAAAAAAAA/CAAAAAAAAA	ACTGAGCCTTCGTTGAA TGG	TGGACCAATTCGTGA ATGA	59.9	573	INTERGENIC	--	--	--
Ca5_P2_31606958	Ca5	31606958	CA/C	GGGGGTGATTCTGGAA TTTT	CAAAAGATTCTCCGAT CCA	60.0	485	DRR	Ca_04862	IR	--
Ca5_P2_31609157	Ca5	31609157	AATAATAATAATAAA/AATAATAATAA TAATAATAA	TGATCCCAAGTGGCCT AAAG	GCAGCTGCTTTTAAAT GGAC	59.9	290	DRR	Ca_04863	--	--
Ca5_P2_31609524	Ca5	31609524	T/TGTATATGAA	GCAGGCTGCCTATTTG AGTC	ATGTAGCAAACCTGCG GGTC	60.1	627	DRR	Ca_04863	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_31610317	Ca5	31610317	AA/AAAGAAAAATA	TCCCAATCAAATCGGGA ATA	ATGGACCAACCTTCAT TGG	59.6	180	DRR	Ca_04863	--	--
Ca5_P2_31610741	Ca5	31610741	CAAAAA/CAAAAAA	ACAACCCAATCCCAATC AAA	GGGGAGGAGAAGGAA ATCAG	60.0	939	DRR	Ca_04863	--	--
Ca5_P2_31610778	Ca5	31610778	TAAAAAAA/TAAAAAAA	ACAACCCAATCCCAATC AAA	GGGGAGGAGAAGGAA ATCAG	60.0	939	DRR	Ca_04863	--	--
Ca5_P2_31611802	Ca5	31611802	TGGG/TGG	TTCTTACCTGGGCTGAA TGG	GCAGGCTGTTTCACAA CTGA	60.0	689	INTERGENIC	--	--	--
Ca5_P2_31613486	Ca5	31613486	GATATA/GATATATCATATA	TCAACGAGTCGTAAAG GGG	GTCCCAACTCGGAATC TGAA	60.1	418	DRR	Ca_04864	R	B3
Ca5_P2_31621509	Ca5	31621509	CT/CTGTATATGTACTTT	ATCCGAGTTTGCATG TCC	GGGACGTGGAGATTGT TGAT	59.8	635	INTERGENIC	--	--	--
Ca5_P2_31622785	Ca5	31622785	C/CT	GGCGTTTTGTGTTTGA GAA	CAAGGCAACAAACGAT AGCA	59.9	328	INTRON	Ca_04865	J	GRAS
Ca5_P2_31623290	Ca5	31623290	TGG/TGGG	GCAAGTCCTTGCAGCC TAAC	TTGAAGGATCAAAGG TTCG	60.0	356	INTRON	Ca_04865	J	GRAS
Ca5_P2_316293	Ca5	316293	AATATATATATATATATATAT/AATATA TATATATATATATAT	TTCTACCTTTCTGCCG CTA	TTAATTGAAAGTGGG GTGAA	59.3	562	INTERGENIC	--	--	--
Ca5_P2_31630101	Ca5	31630101	T/TG	TCAATCACCATTAAATCA CAATCAA	CTGGGGATTGATTCAT TTGG	60.1	341	INTERGENIC	--	--	--
Ca5_P2_31630256	Ca5	31630256	AATCACATCACATCACATCA/AATCACAT TCACATCA	CCAAATGAATCAATCCC CAG	GATGATCCCTGAGGCA GAAA	60.2	438	INTERGENIC	--	--	--
Ca5_P2_31634691	Ca5	31634691	TA/T	GAAGCACCAGCAAAGT AGCC	TTGACATTGACCGATAT ATTAGTCTT	58.6	373	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31639443	Ca5	31639443	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CGGTCAACTACGATGTT GCTT	TTTCACAATTTTGGTCC ATCT	57.0	541	INTERGENIC	--	--	--
Ca5_P2_31639526	Ca5	31639526	TAAAA/TAAAAA	CGGTCAACTACGATGTT GCTT	AAATTGATTGCGCACTTT TGGTT	59.9	634	INTERGENIC	--	--	--
Ca5_P2_31642001	Ca5	31642001	ATTTT/ATTTT	TGGCAACTAAGGCATC TCTG	TTGGGGATGAAAATGG AAAA	60.1	779	INTERGENIC	--	--	--
Ca5_P2_31648841	Ca5	31648841	CTTGATT/CT	TGACTGGTTTGGCACTT CAG	GAGATTTTGAGCCAGC TTCG	60.1	811	DRR	Ca_04866	A	GATA
Ca5_P2_31648877	Ca5	31648877	TTTAAATCT/TTTAAATCTTTAAATCT	TGACTGGTTTGGCACTT CAG	GAGATTTTGAGCCAGC TTCG	60.1	811	DRR	Ca_04866	A	GATA
Ca5_P2_31652822	Ca5	31652822	TA/T	AGGTATGTTTTCCGGCA CAG	CTCCAACCGTTATGGC AACT	60.0	514	INTRON	Ca_04866	A	GATA
Ca5_P2_31656236	Ca5	31656236	CTAGTTGTA/CTA	AACTTTCACCTGCACCA ACC	ATACCGAGCTCCCTTC GATT	60.1	695	INTERGENIC	--	--	--
Ca5_P2_31656516	Ca5	31656516	AA/AATGTTTAATAGA	GACAAAAGCATGGTGG TCTG	ATACCGAGCTCCCTTC GATT	60.1	221	INTERGENIC	--	--	--
Ca5_P2_31658056	Ca5	31658056	ATTT/ATT	CAGCATTGCACAACCAA ACT	CAGATTTCTCACCTTC ACACA	60.1	618	INTERGENIC	--	--	--
Ca5_P2_31658090	Ca5	31658090	GTTTTTTTT/GTTTTTTTT	CAGCATTGCACAACCAA ACT	CAGATTTCTCACCTTC ACACA	60.1	618	INTERGENIC	--	--	--
Ca5_P2_31659792	Ca5	31659792	TTT/TTTAATT	TAACCTACACGCATCC ACA	TTTTATCACATCCTTCA TTTGGG	60.1	667	INTERGENIC	--	--	--
Ca5_P2_31662583	Ca5	31662583	TAAAAAA/TAAAAAA	CAATGGCTCTTGATGGT TCC	AAGTGGTGGCCTCTGT TTTT	58.7	854	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31667322	Ca5	31667322	TAAA/TAAAA	GTGGCGAAGAAGGAGG TAGA	CAAGTCCTGCAGCTGA TTTTT	59.5	941	INTERGENIC	--	--	--
Ca5_P2_31669569	Ca5	31669569	GTTTT/GTTTTT	CAACATCGGTGGGTC TTTC	CAGAGCAGTTTGCACT TTGG	59.6	319	INTERGENIC	--	--	--
Ca5_P2_31678718	Ca5	31678718	AAAGAAGA/AAAGA	GCCATGAGATTTTTCGT GCT	CTCTGCATGCACCTAG ACCA	60.0	214	INTERGENIC	--	--	--
Ca5_P2_31681318	Ca5	31681318	AT/ATTATACTTT	ACTACTACCCACACTC CCG	AGCAGCAGCAGCAGTA ATCA	59.9	442	DRR	Ca_04870	--	--
Ca5_P2_31685020	Ca5	31685020	CTTTTT/CTTTTTTT	AGGCTGTGACCCTAGT TCCA	TTCAATTTGTGGCGTGT CAT	60.0	725	INTERGENIC	--	--	--
Ca5_P2_31685319	Ca5	31685319	ATTTT/ATTTT	AACCGAAATGTTCCCA CAC	TTCAATTTGTGGCGTGT CAT	60.0	600	INTERGENIC	--	--	--
Ca5_P2_31687603	Ca5	31687603	ATTTCTTCTTTCTTTCTT/ATTTCTTTCT TTCTT	TCACTCTGATTTTGAG GGC	TTGCCAGAATCAATGG ATGA	60.0	505	INTERGENIC	--	--	--
Ca5_P2_31691708	Ca5	31691708	TA/TAA	CCGTTCAACCTCTGCAT CTT	TTGAGTGATGTGGCAA AGAGA	59.4	746	DRR	Ca_04871	OJ	bZIP
Ca5_P2_31693187	Ca5	31693187	AATA/AA	GGCTAAGCCCAAGAA TCTC	TGTGAAAATAACACAG GTAGAACCA	59.9	662	INTERGENIC	--	--	--
Ca5_P2_31694006	Ca5	31694006	GGAATGAATGAATGAATGA/GGAATGAA TGAATGAATGAATGAATGA	CCAAGCATGCTCATCA GAAA	TGAGAATGGGATCAGG GAAG	60.0	484	INTRON	Ca_04872	--	G2-like
Ca5_P2_31699777	Ca5	31699777	GTTTTTTTTT/GTTTTTTTTT	CCACAAGAACAATTATG CCAAA	ATGCATTGCATAAGT CACG	59.7	613	INTERGENIC	--	--	--
Ca5_P2_31699872	Ca5	31699872	CTT/CTTT	CCACAAGAACAATTATG CCAAA	ATGCATTGCATAAGT CACG	59.7	613	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_31701207	Ca5	31701207	TTAT/TTATAT	ATACGCATGCATCAACT CCA	GAAGCAACTCCATCG GAGA	60.3	614	INTERGENIC	--	--	--
Ca5_P2_31701551	Ca5	31701551	TTTA/TTTAATTA	CATCTCCGATGGAAGTT GCT	CCCAAAATCAACCAAA GCTC	59.5	559	INTERGENIC	--	--	--
Ca5_P2_31705393	Ca5	31705393	AAC/AACGTAC	ATTTGTGTTGTGGGT CCAT	CCCACCTTGCTGTGA CCTT	60.0	231	INTRON	Ca_04873	--	G2-like
Ca5_P2_31706402	Ca5	31706402	TAAAAAAAA/TAAAAAAAA	AACGGTGTAGCATTCTG GTGT	CGTGGGTCAAGTTGAGT TTGA	59.7	367	INTRON	Ca_04873	--	G2-like
Ca5_P2_31707305	Ca5	31707305	ATTTTTTTT/ATTTTTTTTTT	CGCCAGTTTAGATGAT GCAA	ATTTGGGTGACACTTC CTGC	60.0	505	INTRON	Ca_04873	--	G2-like
Ca5_P2_31710056	Ca5	31710056	CA/CAGA	GCATTGAGTCAAACAG CCAA	TTTTGCTGAAGCCAG GTCT	60.0	353	DRR	Ca_04874	--	--
Ca5_P2_31714891	Ca5	31714891	T/TG	GCAGCATCAAACACCC CTAT	GTGCACTTTGCTCCA CTTT	60.3	171	INTRON	Ca_04875	--	FAR1
Ca5_P2_31716024	Ca5	31716024	AAA/AAATAA	CAATGAAACCTGCAAC CTT	CACGAGAATCTCCCT ACCA	60.1	717	INTRON	Ca_04875	--	FAR1
Ca5_P2_31716104	Ca5	31716104	TC/T	CAATGAAACCTGCAAC CTT	CACGAGAATCTCCCT ACCA	60.1	717	INTRON	Ca_04875	--	FAR1
Ca5_P2_31719625	Ca5	31719625	CA/CATA	AGTTTTTCCATTGGCGT TCA	TTGGTTTGTGAAGAA GGGT	59.4	895	INTERGENIC	--	--	--
Ca5_P2_31720853	Ca5	31720853	CCTTCTTC/CCTTC	TCCTATACAGTCGGT GATGTT	TCCATTTTTCAGATGGA CCC	59.7	521	INTERGENIC	--	--	--
Ca5_P2_31720937	Ca5	31720937	TTA/T	CGTCGGTGATGTTTTTC CTT	TCCATTTTTCAGATGGA CCC	59.7	512	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31722791	Ca5	31722791	ATAGCTA/ATAGCTAGCTA	TAGGTGAAAGCATGCA AACG	GCTTGTGCCTACCAAA GTCC	59.7	486	DRR	Ca_04876	R	bHLH
Ca5_P2_31726199	Ca5	31726199	T/TC	AGCAACCTCTGTCCAC GACT	CATCATTGTCAACCCCA AAA	59.2	556	INTRON	Ca_04876	R	bHLH
Ca5_P2_31726458	Ca5	31726458	ATTTTTTTT/ATTTTTTTTTT	GCAACCTCTGTCCACG ACTT	TTGGAGCACGTAGAAT TGGA	59.3	772	INTRON	Ca_04876	R	bHLH
Ca5_P2_31726817	Ca5	31726817	ATTTTTT/ATTTTTTTT	TCCAATTCTACGTGCTC CAA	CTCAACCAAGCGACC TTGT	60.3	565	INTRON	Ca_04876	R	bHLH
Ca5_P2_31728220	Ca5	31728220	GATATATATATATATATAT/GATATAT ATATATATATAT	ATGGTTGCTCATAGACA TCGT	GCATCACCTCCACCTT GAAT	59.9	830	INTERGENIC	--	--	--
Ca5_P2_31728341	Ca5	31728341	GATATA/GATATATATA	TTTTTCTTTGAAATTTT GACC	GCATCACCTCCACCTT GAAT	59.9	501	INTERGENIC	--	--	--
Ca5_P2_31730522	Ca5	31730522	CTTT/CTT	CCATAGATGTGACTCGT ATGATTG	GCTTCCAACCTCCAAGC AAGA	60.5	710	INTERGENIC	--	--	--
Ca5_P2_31732127	Ca5	31732127	CTGT/CT	TGCTAGCTTCTTCCAC GTT	AAAACGAACAAAATAA CATTCTG	57.4	306	INTERGENIC	--	--	--
Ca5_P2_31747598	Ca5	31747598	T/TC	TTTAGTTGGTGAGTCGA GCG	ACATGGAAAACATGAG GGAA	57.8	553	INTERGENIC	--	--	--
Ca5_P2_31754975	Ca5	31754975	TTAT/TT	TTTGGTGCGAGTACACT TCC	TGAGGATTTGGTTGAG AGGTG	60.1	261	INTERGENIC	--	--	--
Ca5_P2_31755077	Ca5	31755077	CTTT/CT	TACACTTCCGTGCACC GTTA	TGAGGATTTGGTTGAG AGGTG	60.1	250	INTERGENIC	--	--	--
Ca5_P2_31759396	Ca5	31759396	G/GC	CCACAAGCAGCACAAA GTGT	GGATTAGCGCGTCTGA CTTC	60.0	490	DRR	Ca_04880	O	MYB_related

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_31760008	Ca5	31760008	GTTT/GTT	GAAGTCAGACGCGCTA ATCC	AATGCTTATGCAGGAG TGGG	60.1	660	DRR	Ca_04880	O	MYB_related
Ca5_P2_31760331	Ca5	31760331	TCCC/TCC	CTCCAATGTAGAGGGG TCCA	TTGTTCATCGTAACCCC ACA	59.8	316	DRR	Ca_04880	O	MYB_related
Ca5_P2_31760524	Ca5	31760524	ATT/ATGAGGGATT	CTCCAATGTAGAGGGG TCCA	TTGTGATCGGAAAATT GGTTT	59.3	766	INTERGENIC	--	--	--
Ca5_P2_31762104	Ca5	31762104	TAA/TA	TAATGTGAACGCGCAT GATT	AAGAGCAACCTAGTCC GCAA	60.0	229	DRR	Ca_04881	--	--
Ca5_P2_31769395	Ca5	31769395	ATTATT/A	CTCCAACGGTGAACCT AACA	TTGGAGTTGTGCCAAT GTGT	60.0	563	INTERGENIC	--	--	--
Ca5_P2_31772153	Ca5	31772153	AATTAATATTAATAT/AATTAATAT	CTTGTGCCACACACAT TTT	TCCATTGTTGTTGTCT CGT	60.0	498	INTERGENIC	--	--	--
Ca5_P2_31773021	Ca5	31773021	GTTTTTTTTTTT/GTTTTTTTTTTT	CGACGACAACAACAT GGAC	AACACGGTGTGAGTCT TCCC	60.0	647	INTRON	Ca_04882	Z	MYB_related
Ca5_P2_31777053	Ca5	31777053	ATTTTTTT/ATTTTTTT	AAACACATCCCACAGG CTTC	GGCAAGAGCAAGACAT GTGA	60.0	931	INTRON	Ca_04882	Z	MYB_related
Ca5_P2_31787653	Ca5	31787653	CA/C	GAACCCCAACACGCT TCTA	GCTTTAACGGCGCATA TGTT	60.1	626	DRR	Ca_04883	--	--
Ca5_P2_31792803	Ca5	31792803	CTTTTTT/CTTTT	TATTGGTTGCAGGTCG ATGA	TTTAAAGATGGGAGC GGTG	60.1	308	DRR	Ca_04884	--	--
Ca5_P2_31793044	Ca5	31793044	TGGG/TGG	TATTGGTTGCAGGTCG ATGA	TGCCTTAGCATTCTCA GTGG	59.0	797	DRR	Ca_04884	--	--
Ca5_P2_31793281	Ca5	31793281	ATTTTTTTT/ATTTTTTTT	TAGCCTTTGAAGATGC GGTT	TTTTGAAGATCATCCCT CCG	60.0	891	DRR	Ca_04884	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31797813	Ca5	31797813	TAAA/TAAAA	GCACAACAAGCATTCTG CAT	GATAATTGCGGGTTG CTTA	59.9	171	DRR	Ca_04885	--	--
Ca5_P2_31797845	Ca5	31797845	ACCCC/ACCCCCC	GCACAACAAGCATTCTG CAT	TAAAGTTGGAAACCT CGG	59.1	557	DRR	Ca_04885	--	--
Ca5_P2_31805131	Ca5	31805131	GAAAAA/GAAAAAA	TGCAGTGGATAGATA CGGG	TCTTTTGGCAGTGTCA GCAC	60.0	919	INTERGENIC	--	--	--
Ca5_P2_31805298	Ca5	31805298	A/AGT	ATCCCCGAAACTTACAA TGC	TCTTTTGGCAGTGTCA GCAC	60.0	355	INTERGENIC	--	--	--
Ca5_P2_31806703	Ca5	31806703	GTTTTTTTTTTTTTTTT/GTTTTTTTTT TT	TTCGTACTTTACCAAT CTTAAACACA	AGATGGAAGCGGTACA TTGG	60.0	390	INTERGENIC	--	--	--
Ca5_P2_31807113	Ca5	31807113	CG/C	CCAATGTACGCCTTCCA TCT	CCCACACGCGTCTACA ATT	60.9	596	INTERGENIC	--	--	--
Ca5_P2_31807148	Ca5	31807148	ATTTTTTTTT/ATTTTTTTTT	CCAATGTACGCCTTCCA TCT	CCCACACGCGTCTACA ATT	60.9	596	INTERGENIC	--	--	--
Ca5_P2_31807328	Ca5	31807328	TAAAAAAAAA/TAAAAAAAAA	CCAATGTACGCCTTCCA TCT	ACGACCCACCGTGTAT GATT	60.1	837	INTERGENIC	--	--	--
Ca5_P2_31807637	Ca5	31807637	GCAC/G	AAATTGTAGACGCGTGT GGG	TTGCATTGTTACATGC TCA	59.8	465	INTERGENIC	--	--	--
Ca5_P2_31807859	Ca5	31807859	TCC/TC	AATCATACACGCTGGG TCGT	TTGCATTGTTACATGC TCA	59.8	224	INTERGENIC	--	--	--
Ca5_P2_31807893	Ca5	31807893	CAAA/CAAAA	AATCATACACGCTGGG TCGT	ACGTTATCTATGAGGC CCCC	60.2	713	INTERGENIC	--	--	--
Ca5_P2_31809508	Ca5	31809508	TAAAAAAAAA/TAAAAAAAAA	TCTGTTCTCGACGTTGT TCG	CAAAAGAACATGGACC ACGA	59.5	637	INTRON	Ca_04886	Z	--

INDEL marker IDs	Chromosomes/ nanched scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31812979	Ca5	31812979	AAAA/AAATTTGAAA	CATATCCGATTCCTC AAA	TTGGAACGAAAAGTT GAAAA	59.6	518	DRR	Ca_04886	Z	--
Ca5_P2_31835187	Ca5	31835187	AG/A	AGAGTGCATCCTATGC GACC	CCAACAAAAGAGGGG AGTT	60.3	211	INTERGENIC	--	--	--
Ca5_P2_31835201	Ca5	31835201	TAAAAAAA/TAAAAAA	AGAGTGCATCCTATGC GACC	CCAACAAAAGAGGGG AGTT	60.3	211	INTERGENIC	--	--	--
Ca5_P2_31836426	Ca5	31836426	ATTTTAAATT/ATTTTAAATTATGCTTT TTAAATT	TGGGCTACAAAAATGCA TCA	ACTGACCATCCTCATTT GGC	59.9	808	INTERGENIC	--	--	--
Ca5_P2_31837580	Ca5	31837580	TAAAAAA/TAAAAAA	TTTCACACCGTTCACGA AAA	CATCATCAACCAACCCT GTG	59.8	564	INTERGENIC	--	--	--
Ca5_P2_31837773	Ca5	31837773	GGTAATATATAT/G	TTTCACACCGTTCACGA AAA	CATCATCAACCAACCCT GTG	59.8	564	INTERGENIC	--	--	--
Ca5_P2_31843831	Ca5	31843831	T/TA	TACCAACGGCTAAACC GAAG	TTAACGGCCCTGTTCTT GAC	60.1	684	INTERGENIC	--	--	--
Ca5_P2_31844171	Ca5	31844171	CGG/CG	CAAGAACAGGGCCGTT AAGA	CGGTAGCCTAATGAAC TCGC	59.9	371	INTERGENIC	--	--	--
Ca5_P2_31847356	Ca5	31847356	T/TAATC	GGACTATTCAACCATGC GCT	CGCCATTTGTTTTGTTT CAA	59.6	701	INTERGENIC	--	--	--
Ca5_P2_31853293	Ca5	31853293	ATTATAA/ATTATAACTTTATAA	TTCAAAGTGACAAACAT CTCCA	CTTTCTTTGACCATCAC GCA	59.8	237	INTERGENIC	--	--	--
Ca5_P2_31859212	Ca5	31859212	AAATTAA/AAA	TGTTTTGTCTCCAAGCA GAAGA	TGAAGAACCCTAAACC AAGGAA	60.0	499	INTERGENIC	--	--	--
Ca5_P2_31859391	Ca5	31859391	CATTTTTATTTTTATTTTTATTTT/CA TTTTTATTTTTATTTT	TGTTTTGTCTCCAAGCA GAAGA	CTCTCCCTCGCCGTAC AATA	60.2	874	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31859850	Ca5	31859850	AAATACTAATACTAATA/AAATACTAATA CTAATACTAATACTAATA	GTATTGTACGGCGAGG GAGA	TTTGACATCACATTCA TGGATTA	59.2	602	INTERGENIC	--	--	--
Ca5_P2_31861858	Ca5	31861858	CT/CTCTCTAT	TCAATCTCCATCTTCCC CTG	CACCTTTTGTAGCCC CAA	60.0	634	INTRON	Ca_04892	--	--
Ca5_P2_31862121	Ca5	31862121	TA/TAA	TCAATCTCCATCTTCCC CTG	TGTCTCCGCAACCTCT TCTT	60.0	901	INTRON	Ca_04892	--	--
Ca5_P2_31869313	Ca5	31869313	TAA/TA	TCTTTTCACGGAAGAAG GGA	TTTGGTGCCTTTTATAA TGAATGA	59.8	645	DRR	Ca_04893	--	--
Ca5_P2_31869532	Ca5	31869532	TAA/TA	GCTGGAGGCACCTTCAA GAGT	TTGGTCATTGAAATAAT TGGGTT	59.5	788	DRR	Ca_04893	--	--
Ca5_P2_31871185	Ca5	31871185	TAGAGAGAGAGAGAG/TAGAGAGAGAG AG	GAATGAGGTTCCGGAA AGAA	TCGAATAAACACGCTA CCCC	60.0	143	INTERGENIC	--	--	--
Ca5_P2_31882128	Ca5	31882128	TAAAAAAAA/TAAAAAAAA	AGCTCTTATGCAATGG GTCG	TATGCTACGACGCAAC GAGT	59.5	457	INTERGENIC	--	--	--
Ca5_P2_31882431	Ca5	31882431	TAGAGAGAGAGAGAGAGAGAG/TAG AGAGAGAGAGAGAG	AGCTCTTATGCAATGG GTCG	CCTCCAATTCCAAGTT TTGTT	59.4	611	INTERGENIC	--	--	--
Ca5_P2_31883506	Ca5	31883506	ATTTTTTTTTTT/ATTTTTTTTTTT	CATTTTCCGAGCAATCC ACT	GCAGTTAAATCCATAC TAATTCACG	59.4	828	INTERGENIC	--	--	--
Ca5_P2_31883810	Ca5	31883810	AAAATTA/AAAATTATAAATTA	TGTGGTGTGTAAATC AGGATG	TGATTGCGGATTTTAT GGT	60.2	780	INTERGENIC	--	--	--
Ca5_P2_31886554	Ca5	31886554	AATA/AA	AGGCTTCAAGGTCAGA CCAG	AATGGCTGGGCAGTAA AACA	60.5	235	INTERGENIC	--	--	--
Ca5_P2_31887650	Ca5	31887650	G/GGAAT	TGAATTGATACGCCATT TCG	ATGCACCAGTCACACC TCAC	59.6	484	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31887987	Ca5	31887987	ATTTTTTTTT/ATTTTTTTTTTT	GTGAGGTGTGACTGTT GCAT	TTCAAGGACATGAATTT TGCC	59.9	722	INTERGENIC	--	--	--
Ca5_P2_31889225	Ca5	31889225	GTTTATTTTATTT/GTTTATTTTATTTATT TTATTT	AGATTGTGCAAAGTGG GGAC	GTAAATGACCCTGGGG GAGT	60.1	618	INTERGENIC	--	--	--
Ca5_P2_31892271	Ca5	31892271	GTTTTTTT/GTTTTTTT	TCCTCAAGCATGCAAAA CAG	GTATTTTCCAAACCGA GCCA	59.9	596	INTRON	Ca_04896	--	WRKY
Ca5_P2_31894832	Ca5	31894832	GTATGTTTGTTATGTTTGGTT/GTATG TTTGGTT	TGATCAGCCATTGAATT GGA	GCTTTTCATTGCCTTCA AGC	60.0	877	DRR	Ca_04896	--	WRKY
Ca5_P2_31897937	Ca5	31897937	AAGCTA/AAGCTAGCTA	TTCTTCCAGGGTGCCAT ATC	CTGCTCTGGATAATCC CCAA	60.0	428	INTRON	Ca_04897	--	--
Ca5_P2_31897997	Ca5	31897997	A/AT	TTCTTCCAGGGTGCCAT ATC	CTGCTCTGGATAATCC CCAA	60.0	428	INTRON	Ca_04897	--	--
Ca5_P2_31899382	Ca5	31899382	G/GT	CAGGACTGCTGCCACA GTAA	AAAAACAACGCACCAT CCAT	60.2	878	INTERGENIC	--	--	--
Ca5_P2_31900131	Ca5	31900131	ATTTTTTTTT/ATTTTTTTTTT	CTGCAAAGGGTAGTTC AGCC	AAGTGTTCAGTTCAC AGCG	60.1	360	INTERGENIC	--	--	--
Ca5_P2_31900463	Ca5	31900463	T/TC	CGCTGTGAAGTGCAAC ACTT	ATTTCGTGGGTGCCAA TAAC	59.7	250	INTERGENIC	--	--	--
Ca5_P2_31903196	Ca5	31903196	TTTTATAATATTAT/TTT	CAAGTTTCTTGAAGCC TGC	CATCCAATCCATCCCAA AAG	60.1	563	INTERGENIC	--	--	--
Ca5_P2_31905197	Ca5	31905197	CTTTTTTT/CTTTTTTTTT	TGTGTGAGAAAAGTTGT AGAGATGC	TGTTTCCCAATAGACC CCAG	59.8	653	INTERGENIC	--	--	--
Ca5_P2_31905904	Ca5	31905904	GTTT/GTT	ACACGTCTGGGGTCTA TTGG	TGATTCAAACCTCAAAA ATCAAAA	59.9	872	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31906133	Ca5	31906133	TAAAAA/TAAAAAA	CGTAGGTGTACAAATC CCGA	CTCCCTTTCATTGCATG GTT	59.9	887	INTERGENIC	--	--	--
Ca5_P2_31906416	Ca5	31906416	GTT/GTTT	CAATTTTGATTTTGAG GTTTGAA	CTCCCTTTCATTGCATG GTT	59.9	202	INTERGENIC	--	--	--
Ca5_P2_31915574	Ca5	31915574	TAAAA/TAAA	GCGGCTTTTAGCAATC AAG	ACGCGTCAATTGGAG AAAC	60.1	583	INTERGENIC	--	--	--
Ca5_P2_31919399	Ca5	31919399	ATT/ATTATTT	CCCTCTCTCCCTCAGTT CCT	ACTCCTCTAGTCTCC CTTG	59.8	485	INTERGENIC	--	--	--
Ca5_P2_31921838	Ca5	31921838	GAAAAAA/GA	TTGCTTGGTCGTGACT CCA	TTGCAAAAAGGAAGTA CCCG	60.1	606	INTERGENIC	--	--	--
Ca5_P2_31922417	Ca5	31922417	TTAT/TT	CACGCACACCTCAACT CAAT	ATGCCCACTTTTCTCA TGC	60.1	718	INTERGENIC	--	--	--
Ca5_P2_31932559	Ca5	31932559	AAACAACA/AAACAACA	CAAAATGGGAGGAAAA CCAA	TCATCAAAAGGGAAAC CTGC	60.1	284	DRR	Ca_04898	--	--
Ca5_P2_31938363	Ca5	31938363	TTTTTCTCTCTTTT/TTTTT	GTGGTGCCACTCCCAC TATT	ATTGCTGGTGGTCCAA ACTC	60.0	174	INTERGENIC	--	--	--
Ca5_P2_31938862	Ca5	31938862	AT/ATCTTAATTGT	GTTTGACCACCAGCA ATCT	TTTTCCATGTTTTCGC ACT	60.5	760	INTERGENIC	--	--	--
Ca5_P2_31939101	Ca5	31939101	AATA/AA	TGCAACATTGGTTAAT GGAGA	TTTTCCATGTTTTCGC ACT	60.5	550	INTERGENIC	--	--	--
Ca5_P2_31941021	Ca5	31941021	AATATATATATATATATATATAT A/AATATATATATATA	CGTAAACAAGGCCAA ACAC	GCCCCCTTCAATAATC CAT	60.0	568	INTERGENIC	--	--	--
Ca5_P2_31941334	Ca5	31941334	ATTTTT/ATTTTTT	ATGGATTATTGAAGGG GGC	GCGATTATATGGTGC CGTC	60.3	417	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31941372	Ca5	31941372	ATTTT/ATTTT	ATGGATTATTGAAGG GGC	GCGATTATATGGTGC CGTC	60.3	417	INTERGENIC	--	--	--
Ca5_P2_31943086	Ca5	31943086	TAAAAA/TAAAAA	TGTGGCACTTAGATGC ATTTG	TTGCCAACAATTAAAGC GAC	58.8	445	INTERGENIC	--	--	--
Ca5_P2_31943734	Ca5	31943734	TAAAAA/TAAAAA	TTCTTTGCTCTGCTTG CCT	TGTTGTTGGACCATTAT GCAC	59.3	630	INTERGENIC	--	--	--
Ca5_P2_31944532	Ca5	31944532	ATTTT/ATTTT	CTGCAAAATGCAATCA TGC	AAGGTGAATGCAATCC CAAG	59.9	413	INTERGENIC	--	--	--
Ca5_P2_31944876	Ca5	31944876	AC/A	CTTGGGATTGCATTAC CTT	TGTACGTTGTTGTGTG TTTGACA	60.0	418	INTERGENIC	--	--	--
Ca5_P2_31945685	Ca5	31945685	ATTTT/ATTTT	GGAAGCTCCTTCAACT CGTG	GGCGAGGTTGGATTGT AAAG	59.6	149	INTERGENIC	--	--	--
Ca5_P2_31945710	Ca5	31945710	TTTT/TTTAGCTACGTTT	GGAAGCTCCTTCAACT CGTG	GGCGAGGTTGGATTGT AAAG	59.6	149	INTERGENIC	--	--	--
Ca5_P2_31946772	Ca5	31946772	TAAAAA/TAAAAA	GAAAGACCAGCAAGG AGAG	GCCATTTTCGAGTACG GTGT	60.0	266	INTERGENIC	--	--	--
Ca5_P2_31953492	Ca5	31953492	CAAA/CAAAA	GGCAAAACCATCCAGA AGTA	TGGCTACCAAAGTCCC AAAC	60.0	486	INTRON	Ca_04899	S	ARF
Ca5_P2_31958667	Ca5	31958667	ATTTT/ATTTT	CCATTGTAACGATT TCTCCA	CAAGTACGGGCAAG TTTGA	60.3	542	INTERGENIC	--	--	--
Ca5_P2_31959175	Ca5	31959175	ATTT/ATTT	CAAACCTGCCGTAGT CTTGA	CAGTGACAAAGGTGT GTGG	60.0	338	INTERGENIC	--	--	--
Ca5_P2_31959447	Ca5	31959447	CTTTTT/CTTTTT	CCACACACCTTGTCCA CTG	GCTTAGGTTAGGTACC GTTTGG	59.1	454	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31959719	Ca5	31959719	TA/T	CCACACACCTTTGTCCA CTG	TTGGGTTGAGTTTCAT GGGT	60.2	960	INTERGENIC	--	--	--
Ca5_P2_31960083	Ca5	31960083	TTCTCT/TTCT	TCAAGTTGGAGATTGAA CCC	CTTGGGTTGAGTTTCA TGGG	60.3	202	INTERGENIC	--	--	--
Ca5_P2_31960544	Ca5	31960544	TAAAAA/TAAAAA	ACCCATGAAACTCAACC CAA	TTTAATTCATTGCGGG CAT	60.3	585	INTERGENIC	--	--	--
Ca5_P2_31964037	Ca5	31964037	T/TG	CCAACAAGACTGACCC CACT	TCATTGTGATGCTCTCA CCG	60.8	877	INTERGENIC	--	--	--
Ca5_P2_31964201	Ca5	31964201	GTTTTTTTTT/GTTTTTTTTT	CCAACCTGCCTGGTCG ATTA	TCATTGTGATGCTCTCA CCG	60.8	778	INTERGENIC	--	--	--
Ca5_P2_31967141	Ca5	31967141	AATATATATATAT/AATATATATATAT	ACGGGTCATTTTAAACA CGC	TTGCCACCAAGTCAT GATA	60.1	550	DRR	Ca_04900	--	--
Ca5_P2_31969297	Ca5	31969297	GAATAATAA/GAATAATAATAA	GATGGAAGAGTGACGG TGGT	CCGCAATCCTCACCTG TATT	60.0	174	INTERGENIC	--	--	--
Ca5_P2_31969588	Ca5	31969588	CTGCATTGCAATT/CTGCATTGCAATT TGCAATT	GATGGAAGAGTGACGG TGGT	CATTCCCTAGTGACAG CGAG	58.5	740	INTERGENIC	--	--	--
Ca5_P2_31970233	Ca5	31970233	CATATATATA/CATATATATATA	CGCTGTCACTAGGGA TGTGT	CTGTTTTACCACCAA GCG	60.5	435	INTERGENIC	--	--	--
Ca5_P2_31971491	Ca5	31971491	ATTTT/ATTTT	CGTCGTTTCAGATCAG GGTT	GTATGGGTTGTATGG ACCG	59.9	876	INTERGENIC	--	--	--
Ca5_P2_31972825	Ca5	31972825	A/AG	CTTTGAAAAACGAACC ACC	CAACTAATCGAGGAAG TCCCA	59.2	759	INTERGENIC	--	--	--
Ca5_P2_31973164	Ca5	31973164	CTTT/CTTTT	TGGGACTTCCTCGATTA GTTG	CGACGTTGTTTGTTC GTCA	60.7	492	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31974245	Ca5	31974245	GTTTTTTTTT/GTTTTTTTT	GGCTAAGTTTCTTGG GGG	GCACTCCATGAATCAA AGCA	59.8	696	INTERGENIC	--	--	--
Ca5_P2_31976038	Ca5	31976038	CTTATTTATTTATTTATT/CTTATTTATTT ATTTATTTATT	AGCAACGGTGTAAGG GAAA	CGGTAGCCAGGCTGAT ATGT	60.1	397	INTERGENIC	--	--	--
Ca5_P2_31977940	Ca5	31977940	ATGT/AT	AAGGGGACGGAGTTAG AAGG	TTTGAGTGTTGGAGGA ACCC	59.9	655	INTERGENIC	--	--	--
Ca5_P2_31978151	Ca5	31978151	T/TG	CCCTCCTGCTTCCATTA ACA	AAATCAACATGCTTGG GGAG	59.9	301	INTERGENIC	--	--	--
Ca5_P2_31978727	Ca5	31978727	GTATATATATATATAT/GTATATATAT AT	GGGTTCTCCAACACT CAAA	GGGCAACAATTTTCTC CAA	59.9	710	INTERGENIC	--	--	--
Ca5_P2_31980468	Ca5	31980468	AAAC/AAACAAC	ATGAACTACCCGACGA CCAA	TTACGCATAGAAAGC ATCG	60.0	425	DRR	Ca_04901	R	--
Ca5_P2_31981912	Ca5	31981912	TA/TATGAAATATTCTAA	AATCTGGGAGCCTTGT GTTG	GGTTTCAATCTGCTGC CAAT	60.1	703	INTRON	Ca_04901	R	--
Ca5_P2_31988086	Ca5	31988086	GAAAAAAAA/GAAAAAAAA	CCATCAGCAGAACTGC AAAA	ATGAGCAAAGACCAC CACC	60.0	195	INTRON	Ca_04901	R	--
Ca5_P2_31989784	Ca5	31989784	ATT/AT	ATTCGTTTCCCCTGTT CCT	CGGAAGTTCTCAAGAG ACGG	60.0	258	INTERGENIC	--	--	--
Ca5_P2_31991616	Ca5	31991616	CTATTATTATTATT/CTATTATTATTATTA TT	CCCAGCGTAATTTAAT GCT	TCCATTCCAAGCTCCAA ATC	60.0	455	INTRON	Ca_04902	R	--
Ca5_P2_31991736	Ca5	31991736	CAA/CA	GATTGGAGCTTGAAT GGA	CTGGATGAACGGAACC ATCT	59.9	406	INTRON	Ca_04902	R	--
Ca5_P2_31999075	Ca5	31999075	TGGGGG/TGGGGGG	AACGGTTATTTCCGGC TTT	TCACACCTCTCCCCCT ATGA	60.5	165	DRR	Ca_04903	--	S1Fa-like

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_31999312	Ca5	31999312	GA/G	AACGGTTATTTCCGG TTT	TTACAACAGCACGTGC AACC	60.8	433	DRR	Ca_04903	--	S1Fa-like
Ca5_P2_32000614	Ca5	32000614	AC/A	ATCACTGTGGGAAGG AGTG	TTGAAGGTTGTCGTGT TGGA	60.1	745	DRR	Ca_04903	--	S1Fa-like
Ca5_P2_32005179	Ca5	32005179	ATTTTT/ATTTTTT	AAACCCGATAAAAAGCG TGA	ACAGAAAAAGCGGATA GGCA	59.8	526	DRR	Ca_04904	Z	MYB_related
Ca5_P2_32005545	Ca5	32005545	GTTTTTT/GTTTTTTT	TGCCTATCCGCTTTTTC TGT	CCGCACTTGATTGTG ACAT	59.6	550	DRR	Ca_04904	Z	MYB_related
Ca5_P2_32007977	Ca5	32007977	CAATAAAAA/CAATAAAAAATAATAAA AAA	GATTGATTCCATGCGTC CTC	AACGGTGTCACCTCCT CAAC	60.0	842	INTRON	Ca_04904	Z	MYB_related
Ca5_P2_32015160	Ca5	32015160	CA/CACTATATA	AGGAAGTGGACAATGG TTGG	TAATGCAAACTTTGGG GGAG	59.9	784	INTERGENIC	--	--	--
Ca5_P2_32017949	Ca5	32017949	ATTT/ATT	TTTCAAGTGTGAGAGG CAAA	CGATTGCAATAAAGC AGCA	60.0	816	DRR	Ca_04905	--	--
Ca5_P2_32018567	Ca5	32018567	CTAATAATAATAATAAT/CTAATAAT AATAATAAT	CAATCTGTTGCCTGCT CAA	TCACGGTGAGTCGTTG TCAT	60.2	451	INTRON	Ca_04906	S	--
Ca5_P2_32020735	Ca5	32020735	GAAAAAAAAAAAA/GAAAAAAAAAAAAA	GAGTAAAGCAGGTGCG AAGG	TCCCAGTAAGGCTAGC TCCA	60.0	765	INTRON	Ca_04906	S	--
Ca5_P2_32021738	Ca5	32021738	CAAA/CA	CTTGGAAGGTCACAA CGAT	TACTGTGAGCATGGCA CCTC	59.9	659	INTRON	Ca_04906	S	--
Ca5_P2_32024431	Ca5	32024431	ATTTTTT/ATTTTTTT	AACCCCATTTCAACCAT CAA	TCCATATTCGGTAGCC GTTC	59.9	627	DRR	Ca_04906	S	--
Ca5_P2_32037572	Ca5	32037572	CG/C	GCAAGTGACTCCAAGG AAGC	ATGTGGGTGGGTGAAA TGAT	59.9	296	INTRON	Ca_04908	KT	DBB

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_32040453	Ca5	32040453	T/TC	ATAGTATCGTTTGTGGC GGC	TTTGCACATACATGACC AATCA	59.9	482	DRR	Ca_04909	K	MIKC
Ca5_P2_32041461	Ca5	32041461	CTT/CT	GAAGTAGCGGTCATGC CAAT	ATAGTGGAGGAGCTGG AGCA	60.0	338	DRR	Ca_04909	K	MIKC
Ca5_P2_32044892	Ca5	32044892	T/TC	CTGTTTTTCACGCGCAA AAT	TCTTCCCTAATCACGCA TCC	60.0	763	INTERGENIC	--	--	--
Ca5_P2_32062626	Ca5	32062626	ATTTTTTTTTT/ATTTTTTTTTT	GAGTGGGGGATGTCAA TGAG	TAGGCTGCCGTACAAT ACGA	59.3	340	INTERGENIC	--	--	--
Ca5_P2_32062989	Ca5	32062989	ATATTATTATTATTATT/ATATTATTATTA TT	GAGGGAGAGCTCATGT GGAA	TTCGTGCATGCAAATT GAGT	60.3	376	INTERGENIC	--	--	--
Ca5_P2_32065425	Ca5	32065425	C/CG	TATTTGTGACGAGCAC CCC	ACCTGAGATGCAAAATT CGG	60.1	124	INTERGENIC	--	--	--
Ca5_P2_32068203	Ca5	32068203	TT/TTGATAAATGAAT	TGAAAAATGGAATCCCA CTAGC	GAGCATTTAGTGGAGC GGAG	60.0	683	INTERGENIC	--	--	--
Ca5_P2_32080664	Ca5	32080664	GAAAAAAAA/GAAAAAAAAA	GGTTGGTGACTTGGTG GTGT	TCCATGATAAATGTGTG GAAAA	57.9	745	DRR	Ca_04910	C	--
Ca5_P2_32084497	Ca5	32084497	T/TA	TTTGCCGTTTTAAATG AGG	CAATGTTTTATGACGT GGC	60.0	358	INTRON	Ca_04911	K	LBD
Ca5_P2_32086717	Ca5	32086717	GAATTAA/GAATTAATTAA	TTGCATGAGGTTTGGC ATA	GGTCCCAAAATGTGAC ATCC	60.0	336	DRR	Ca_04911	K	LBD
Ca5_P2_32086876	Ca5	32086876	ATTTTT/ATTTTT	TTAAACCTTGCGGTTCC ATC	GGTCCCAAAATGTGAC ATCC	60.0	287	DRR	Ca_04911	K	LBD
Ca5_P2_32087284	Ca5	32087284	TAA/TAAA	GGATGTCACATTTTGG GACC	TTGAGTTATACCATGCT TCTCAACA	60.1	553	DRR	Ca_04911	K	LBD

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_32087684	Ca5	32087684	ACTTCTT/ACTT	AAAACCATGTTGCCACA AACT	TGTGTGTGGTGGGTCA ATCT	59.8	930	DRR	Ca_04911	K	LBD
Ca5_P2_32087748	Ca5	32087748	TAAAAA/TAAAAA	TTCTAAATGTTGAGAAG CATGG	TGTGTGTGGTGGGTCA ATCT	59.8	630	DRR	Ca_04911	K	LBD
Ca5_P2_32090869	Ca5	32090869	GGGTATTAT/G	TCAGGGATGACAATTG GTAGAG	TCGTCCGTAATAAGTG ACCCA	60.4	231	INTERGENIC	--	--	--
Ca5_P2_32096296	Ca5	32096296	AGAT/AGATGAT	TTGTGGATACCAAAAGA ATCTCAA	CACACCACCTCCTCT GTTT	60.0	648	INTERGENIC	--	--	--
Ca5_P2_32097444	Ca5	32097444	CTTAATTA/CTTA	GCTCACTGCCAATTTTC TCC	GCAATAGATAGCGCAC ACGA	60.0	761	INTERGENIC	--	--	--
Ca5_P2_32098338	Ca5	32098338	CTTTTTTTTT/CTTTTTTTTT	TTGTGTTGTCAGCGAA GGAG	CGACAAGGCAAGAAG AAAG	60.0	573	INTRON	Ca_04912	--	ERF
Ca5_P2_32100080	Ca5	32100080	CATAT/CATATATAT	GTGGCATCAGGAATAG CGTT	CACCTAAAGTCCCAA CCAA	59.8	480	INTRON	Ca_04912	--	ERF
Ca5_P2_32100682	Ca5	32100682	ATTTTTTTTT/ATTTTTTTTT	TAAGGCGGCTGACTCT CATT	TGCTCCCTTGCAAATTT CTT	59.8	772	INTRON	Ca_04912	--	ERF
Ca5_P2_32104880	Ca5	32104880	TAAAAA/TAAAAA	TTTCAACCCCGATTAA CCA	TGTTTCTCGTTGCCCG TAGT	60.7	835	INTERGENIC	--	--	--
Ca5_P2_32111441	Ca5	32111441	CATT/CATTAATT	TCTCCCATTAGCTAA CCAAAA	TGTGCAACAATGTCATA CCG	59.0	367	INTERGENIC	--	--	--
Ca5_P2_32113178	Ca5	32113178	ATTTTTTT/ATTTTTTTTT	ACGGCCACATGCATTT ACT	TCCGATTGATTTATTGG AGCA	58.2	304	INTERGENIC	--	--	--
Ca5_P2_32115801	Ca5	32115801	TGTACGTAC/TGTAC	CTCGATTCATCGTCATT GGTT	GAATGGCTCAAGGGAG ATGA	60.2	582	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_32119098	Ca5	32119098	GAT/GATAT	TTGTCGGTGAAGTTGTT TGG	TCAATTGGAAGCACAT CGAC	59.7	451	INTERGENIC	--	--	--
Ca5_P2_32119133	Ca5	32119133	CAGA/C	GTCGGTGAAGTTGTTT GGGT	TCAATTGGAAGCACAT CGAC	59.7	449	INTERGENIC	--	--	--
Ca5_P2_32138752	Ca5	32138752	TAAGAAGAA/TAAGAA	GCCGTTTGTATGTGTG GACT	CGAAGTCGCAAAACAC GTTA	59.9	575	INTERGENIC	--	--	--
Ca5_P2_32144176	Ca5	32144176	ATTTTTTTTT/ATTTTTTTTTTT	AATGCACTGTGATTGCG GTC	TTGGGGTCACTAATTG GAGC	59.9	438	DRR	Ca_04915	O	--
Ca5_P2_32147774	Ca5	32147774	A/AATTTAATCGATC	GTGCAGAAGAGGAGAA TGGC	ACAAATCAGCCCGACG TTAC	60.0	574	DRR	Ca_04917	G	C2H2
Ca5_P2_32149202	Ca5	32149202	TCAC/TCACAC	AAATTCCATTTTCGGGA ACC	GGTGGGAATCCTTGGA AAAT	60.0	466	DRR	Ca_04917	G	C2H2
Ca5_P2_32155171	Ca5	32155171	CAAAA/CAAAAA	CGGACATGACGTTCAA CCTA	GTCAAATGGCCCACT CACT	60.0	514	INTRON	Ca_04917	G	C2H2
Ca5_P2_32159188	Ca5	32159188	TAAA/TAAAA	CCTCAACCTGATGGGA CACT	CAAATGTCTCCACCT TGAA	59.7	618	INTRON	Ca_04917	G	C2H2
Ca5_P2_32160479	Ca5	32160479	ATTTTTTT/ATTTTTTTT	CGCCCTACTCTGTGCT CTG	AAAATTTTGGTGTTGCG CAC	59.8	380	INTRON	Ca_04917	G	C2H2
Ca5_P2_32161908	Ca5	32161908	CT/CTCTATAT	ATTTTCGACTCCTCCT CCA	GGAGGGGATTTGAAC TGGT	60.2	442	INTRON	Ca_04917	G	C2H2
Ca5_P2_32162925	Ca5	32162925	TGAGAGAGAGAGAGAGAG/TGAG AGAGAGAGAGAGAGAGAGAG	CACGTGCCTTTTCTCAC TCA	ATCTTGTTGAGCAGC GTTT	59.9	408	INTRON	Ca_04917	G	C2H2
Ca5_P2_32163070	Ca5	32163070	CCTTCTT/CCTTCTTCTT	CACGTGCCTTTTCTCAC TCA	GTTGATCTTACGGCC TCCA	60.1	552	INTRON	Ca_04917	G	C2H2

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_32164917	Ca5	32164917	ATTTTTTT/ATTTTTTTT	GAAGTCGGTTCAACGT GGTT	GCGACACGACACGTAA GAGA	60.1	153	INTRON	Ca_04917	G	C2H2
Ca5_P2_32165510	Ca5	32165510	CATATATATATATA/CATATATATATATA TA	TCCCTTAATGCTGATGG AGG	TCCAACAACCAATCATT CAAA	58.9	296	INTRON	Ca_04917	G	C2H2
Ca5_P2_32182918	Ca5	32182918	AT/A	ATTGGTCCCAATCATGG AAA	ACGGTTCAAGCGGTAG TTTG	60.2	240	INTERGENIC	--	--	--
Ca5_P2_32186163	Ca5	32186163	T/TC	TCTCCCTGTTTGAGCC ATC	TACAGTTTTTGAGGT GGGG	59.8	353	INTERGENIC	--	--	--
Ca5_P2_32190466	Ca5	32190466	TAAAAAAAAA/TAAAAAAAAA	TGAATGCAAAAGCTTCA AACA	TAAATTTCCGGGTGAT GCTT	59.4	550	DRR	Ca_04918	K	TALE
Ca5_P2_32192146	Ca5	32192146	AT/ATGTGT	TATAACGTGCTGTGG CTGC	TGCAATGGCTAGTAA GCGA	59.6	618	INTERGENIC	--	--	--
Ca5_P2_32196357	Ca5	32196357	TC/TCC	AGCATTTCCAAAGGGG ACTC	CCAAAACGGTGGACTG GTTA	60.8	779	INTRON	Ca_04919	K	TALE
Ca5_P2_32201181	Ca5	32201181	T/TGTGTGTG	ATTCGATCCTCCTCTTC CGT	TTCTCTGCCTCTCTCC AAA	60.1	892	INTRON	Ca_04920	M	--
Ca5_P2_32201348	Ca5	32201348	A/AC	ATGGAGTTGGCGTTTC TGTT	TTCTCTGCCTCTCTCC AAA	60.1	772	INTRON	Ca_04920	M	--
Ca5_P2_32207299	Ca5	32207299	TAA/TA	GGTCCCTGTCGGTCAG TTTA	GATTGTTTGTGTTTCGT CGG	60.3	796	INTERGENIC	--	--	--
Ca5_P2_32210939	Ca5	32210939	C/CG	GCTATTGGTGGTCGTC GTTT	TCCAATCTACGGGAC GTAG	59.9	686	INTRON	Ca_04921	O	FAR1
Ca5_P2_32213085	Ca5	32213085	TAAA/TAAAAAA	TGCAGAAACATTCCGA TGA	TGGAACAACTTTTGGA ATGGG	60.2	700	DRR	Ca_04922	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_32217559	Ca5	32217559	TGC/TGCGC	TCTTCTCGTGTGTGCTG CTG	TTAGCAGCATTCCCC ATAC	59.9	152	INTERGENIC	--	--	--
Ca5_P2_32225711	Ca5	32225711	CTAAATAAAATATAAAATAAA/CTAAAT TAAA	TTACCTCTCACGTGCAAT TCG	AACAAATATGGACAAG CCGC	60.0	639	INTERGENIC	--	--	--
Ca5_P2_32225894	Ca5	32225894	CAAAAAAAAA/CAAAAAAAAA	GCGGCTTGCCATATTT GTT	TTCATCATTTCGGAGC CGT	60.4	245	INTERGENIC	--	--	--
Ca5_P2_32226752	Ca5	32226752	ACC/ACCC	TTGGGCGACGTTACTTT TAGA	GGAGTGGGTTATTCTT TTGGC	59.8	189	DRR	Ca_04923	T	WRKY
Ca5_P2_32226879	Ca5	32226879	TT/TTATAT	TGGCCAAAAGAATAACC CAC	AAAATTTGAATGATTC CTCGTG	59.4	142	DRR	Ca_04923	T	WRKY
Ca5_P2_32227379	Ca5	32227379	GCC/GC	GCTCAAATTTAAGGTA TGTTTG	TGTGCATCCCTTGCAAT ATTA	60.1	679	DRR	Ca_04923	T	WRKY
Ca5_P2_32232650	Ca5	32232650	ATTT/ATT	AAAACATCCACCAAGAC GAAA	TGGTGGGAAGAAATGAA ATGA	58.9	355	INTERGENIC	--	--	--
Ca5_P2_32240947	Ca5	32240947	ATTTTTTTT/ATTTTTTTT	TTCAGCCTCCCTTTCCT ACA	CAACCTCTTTTGCCAT GAT	59.9	622	INTERGENIC	--	--	--
Ca5_P2_32241464	Ca5	32241464	GTAATAATAATA/GTAATAATAATA TAATAATA	ATCATGGCCAAAAGAG GTTG	TCGGTTTGGTTGGGT TAAA	60.2	724	INTERGENIC	--	--	--
Ca5_P2_32253033	Ca5	32253033	ATTTGTGTTGTG/ATTTGTG	TTGCAACCAATTCGAGT GAA	CACGAATGGTGAAGG GTCT	60.0	387	DRR	Ca_04924	--	ARF
Ca5_P2_32261714	Ca5	32261714	TGG/TG	TATTTGACCCGATACCC GAA	GCATCTCCTTCAGCGT CTTC	60.1	554	INTERGENIC	--	--	--
Ca5_P2_32267524	Ca5	32267524	T/TCCTCCATTTTG	TAACGAATGGCCAAA GGAG	GATGAATGTGCTTCTC GCAA	60.0	663	DRR	Ca_04925	U	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_32319718	Ca5	32319718	TTA/TTAGTA	TGATTCATTGCATGTC ATGTT	GGTGTGCGCAAAGAC AAAT	60.0	796	INTERGENIC	--	--	--
Ca5_P2_32320368	Ca5	32320368	TCC/TC	ATTTGTCTTTTGCCGAC ACC	ATCGACTGCATGAAGC TCCT	60.0	606	INTERGENIC	--	--	--
Ca5_P2_32324347	Ca5	32324347	GCTCTCTCTCTCTCTC/GCTCTCTCT CTCTCTC	TGATGCCACGTGAGAA AGAG	CTGTTCAAGATGCAGG CAAA	60.0	899	DRR	Ca_04930	I	bHLH
Ca5_P2_32325553	Ca5	32325553	TAAAAAAA/TAAAAAAA	TGCCCAATATCTGTTCA CCA	ATGCATCCTGTGCCAT ACAA	60.0	609	DRR	Ca_04930	I	bHLH
Ca5_P2_32329993	Ca5	32329993	AGG/AGGG	GGAGGCATCGATGTTA GGAA	CGCATTGTTTTGAAGC TGA	60.0	808	INTRON	Ca_04931	T	--
Ca5_P2_3234176	Ca5	3234176	ATTTTTTTTT/ATTTTTTTTTTT	GATGTCGTTGCGAGAG TGAA	TGAACAAAGCAAAGCG TCAT	59.5	169	INTERGENIC	--	--	--
Ca5_P2_32348939	Ca5	32348939	TTT/TTTTGGAAGTT	GCAAGTTGGTGGAGAT TGAAG	GCTGAAGCAGAACCTT GTCC	60.0	476	DRR	Ca_04932	QI	GeBP
Ca5_P2_32349699	Ca5	32349699	TAAAA/TAAAAA	AGGGGCCATGTGTAAG TACG	CATTAAACCCGATGAG GGCT	60.0	566	DRR	Ca_04933	--	--
Ca5_P2_32349746	Ca5	32349746	CTTTT/CTTT	AGGGGCCATGTGTAAG TACG	CATTAAACCCGATGAG GGCT	60.0	566	DRR	Ca_04933	--	--
Ca5_P2_32350759	Ca5	32350759	TAAAAA/TAAAAA	ACACTTACGGAACATTG TGCT	TGCACAGCAGAATTAG TGGG	59.9	357	DRR	Ca_04933	--	--
Ca5_P2_32352329	Ca5	32352329	ATTTTT/ATTTTTT	TTTGGTTTTACAGGAA GCC	AAGGATGCGTTTGGAT TGAC	59.9	420	INTERGENIC	--	--	--
Ca5_P2_32352849	Ca5	32352849	ATTTTT/ATTTTTT	AAGTCAATCCAAACGCA TCC	CCCTGGTGAGAACAG AAAA	60.1	908	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_3235916	Ca5	3235916	ATTTTTTTTTTTTT/ATATATTTTTT TTTTTTT	TGGATGTAGCTATCGC GTTG	CAAGAACGAGGAACAC AAGAAA	59.4	189	INTERGENIC	--	--	--
Ca5_P2_32362062	Ca5	32362062	TTAT/TTATAT	ACGGGAAAGAATGGGA TTTC	GGGAACAGGAACACAA GGAA	59.9	394	INTERGENIC	--	--	--
Ca5_P2_32391991	Ca5	32391991	AAATAAT/AAAT	AATGGTTGGGGGAAGA AATC	GGATGAGGGACCTCAA TGAA	59.9	731	INTRON	Ca_04938	--	bZIP
Ca5_P2_32396570	Ca5	32396570	TATAATAATAATAAT/TATAATAATA TAAT	CAGCTGTTGAGTCCG GTTT	TGGATCGAGAAGAAAG TGCC	60.3	810	INTERGENIC	--	--	--
Ca5_P2_32435142	Ca5	32435142	TC/T	CCATCGCAAGGCTGTA AAAT	ACATGTCAAGTGGGG TGTT	60.1	873	INTERGENIC	--	--	--
Ca5_P2_32522095	Ca5	32522095	TTATATATATATA/TTATATATATA	GCTGTTATGTTGGTTC GCA	GGGTTTGCCTTCTCC ACTC	61.0	614	INTERGENIC	--	--	--
Ca5_P2_32540371	Ca5	32540371	TA/T	TGGTTGCTTGTGGTTT CTG	GTGAAAGAGCGTTAGA GCGG	60.2	706	INTERGENIC	--	--	--
Ca5_P2_32649599	Ca5	32649599	ATTTTTTTTTT/ATTTTTTTTTT	TCGGACAAGTAGCAAA AACAA	CCGTATTTTGAATATC AGTGCC	59.8	561	INTERGENIC	--	--	--
Ca5_P2_32694142	Ca5	32694142	AAATAATAATAATAATAATAA/A AATAATAATAATAATAATAATAA	GCCATGATATTTGCGG ATAA	GATCGCAACCTGAGGA TGTT	60.1	553	DRR	Ca_04975	--	SBP
Ca5_P2_32704938	Ca5	32704938	CATATATATATATATATATATAT/ CATATATATATATATATATATAT ATATATATAT	ATAAGCAACGGCTCACT GGT	GGAGACCAAAATTGCG AATC	59.5	648	DRR	Ca_04976	--	--
Ca5_P2_32736061	Ca5	32736061	TTT/TTTCCTT	AAAAGGGTGTCACAAG TGGG	TGAAAAGGATGAAAGT CGCA	59.4	250	INTRON	Ca_04978	T	--
Ca5_P2_32745764	Ca5	32745764	TAAA/TAAAA	AGGCATCACATTGAGG GACT	CCTCGGTGACCTGAA TAAA	59.9	148	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_33441420	Ca5	33441420	ATTT/ATTTT	GTGTGTGAGAGGTTGT TGGG	TAAGTCGAACCAACCG ATCC	59.9	204	INTERGENIC	--	--	--
Ca5_P2_33444959	Ca5	33444959	GATATA/GATATATA	TTATGGAGGCCACATT ACA	GAAATTAAGGCCTCTT GATCTTTTT	59.6	961	DRR	Ca_01912	O	MYB_related
Ca5_P2_33456475	Ca5	33456475	TTATGTTAAATATGTAA/TTATGTTAAA TATGTTAAATATGTAA	GATGAAGTGCTGATCA GAGGC	ACCAGGAAACATTGCC AGAC	60.0	789	DRR	Ca_01911	O	MYB_related
Ca5_P2_33457018	Ca5	33457018	TTTTATTTATTTATTTA/TTTTATTTATTT ATTTATTTA	GTCTGGCAATGTTTCCT GGT	GGTGGTGATGTATAT CTTACGGG	59.8	430	DRR	Ca_01911	O	MYB_related
Ca5_P2_33457459	Ca5	33457459	ATT/ATTT	TCTTCAAATTAATTC CACCCA	GTTGAAATTTTGGGTG TCGG	60.2	750	DRR	Ca_01911	O	MYB_related
Ca5_P2_33457924	Ca5	33457924	ATTTTTTT/ATTTTTTTT	CCGACACCCAAATTC AAC	GCCCTCAGATGAGAGT CAGG	59.9	680	DRR	Ca_01911	O	MYB_related
Ca5_P2_33506470	Ca5	33506470	TTATATATATATAT/TTATATATATATA TATAT	CCATAAGCCTAAATCTC TTGCC	AGATATAGCGTGTGAG GCCC	59.2	503	INTERGENIC	--	--	--
Ca5_P2_3353130	Ca5	3353130	A/AC	GCGGTACCTCCACAT AGTT	TGTGTGGAGCCCATAT GAAA	59.9	659	INTERGENIC	--	--	--
Ca5_P2_33542100	Ca5	33542100	GTTTATTTATTTATTTAT/GTTTATTTAT TATTTATTTATTTAT	AATTCGGTTTTTGGCGT GTA	GTTAAGGGACCACGAA TGCT	59.1	569	INTERGENIC	--	--	--
Ca5_P2_33600042	Ca5	33600042	CT/C	TAACCATTCACAGCCA CAA	CTTAGAGGTCGCTTCA ACGG	60.0	680	DRR	Ca_01896	--	--
Ca5_P2_33632878	Ca5	33632878	ATTTTTTTTT/ATTTTTTTTT	ACAATCGTCCAGCTTT GAG	CATGCCACAAAAATTCA ACG	60.0	723	INTERGENIC	--	--	--
Ca5_P2_33687861	Ca5	33687861	TTATATATATATAT/TTATATATATATA T	GACTTCCTAAGGAGGG TGGC	ATTTCCACGGCAAAATC GTA	60.3	381	DRR	Ca_01887	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_337016	Ca5	337016	ATTT/ATTT	CCAAACTGGGGAGAA ACAA	TGATATTGGAGGGGC ATAA	60.1	306	DRR	Ca_18190	H	--
Ca5_P2_33701975	Ca5	33701975	AGGGGG/AGGGG	GGGAGTAGGGTGGAGT AGCC	GAGCCACCAGAGATCC TCAC	59.8	279	DRR	Ca_01884	K	MYB
Ca5_P2_33794381	Ca5	33794381	AATATATATATAT/AATATATATATAT TAT	GCAAGGGTACCCACGT CTAA	TAATTTCCACCACCC CAT	59.9	439	INTRON	Ca_01877	Q	--
Ca5_P2_33798172	Ca5	33798172	TAAAAAA/TAAAAAAA	GCGGAATGACCTACCG AATA	CATCACATCACTATGCT CCCTC	59.6	714	INTERGENIC	--	--	--
Ca5_P2_3379986	Ca5	3379986	GAAA/GAA	TCCCTTTACTGAATTA TGTGGC	GCAGCACAGGTCGATT ACAA	59.9	199	INTERGENIC	--	--	--
Ca5_P2_33804970	Ca5	33804970	GTTTTTTTTT/GTTTTTTTTT	CGAAAAATTGAAATCG GGA	CCACAATGTTTTCGCT CCT	60.1	178	INTERGENIC	--	--	--
Ca5_P2_33822575	Ca5	33822575	G/GC	GGCGTGTGAATACCG TTCT	GTCGACTCCAGTTTC TCCA	60.2	949	DRR	Ca_01875	--	--
Ca5_P2_33876092	Ca5	33876092	TTATTATTATTATTATT/TTATTATTA TTATTATTATTATT	TTGAAATGAAGCCACC ACA	TTTCCCACTCGAAACCT GTC	60.1	379	INTRON	Ca_01865	--	bZIP
Ca5_P2_33883232	Ca5	33883232	AATTTAACTATATT/AATTT	TGACATAAGCACCAC GTTC	TCCTACGGTCTTGT GGG	60.0	559	INTERGENIC	--	--	--
Ca5_P2_33888841	Ca5	33888841	ATTTTTTTTT/ATTTTTTTTTT	AACTTCCAAGTGACGT GTTGG	CTGACAAGTCTTTGT CATTGAT	58.2	702	INTERGENIC	--	--	--
Ca5_P2_34016644	Ca5	34016644	TTTATTATTATTATTATTATTAT/TTT ATTATTATTATTATTATTATTATTAT	TAAGTGTGAATGTGG ACGG	AAAACACGCACTTTCTG CAA	59.5	621	INTERGENIC	--	--	--
Ca5_P2_34072036	Ca5	34072036	CCCAAAGCAGAT/C	CATTGGTGTGTCTGTT CGG	ACCGTTCGGTTTGTCT GAC	60.0	262	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_35527896	Ca5	35527896	ATTTTTTTT/ATTTTTTTT	AAATAAAGGGGAAGG TGGC	CGTTAACTCTGCGTG GGAT	60.1	717	INTERGENIC	--	--	--
Ca5_P2_35572820	Ca5	35572820	AC/A	ACATAAGCCAACAACC CCA	AGAGCGATCTAGTCCG CAAA	60.1	892	INTERGENIC	--	--	--
Ca5_P2_35599782	Ca5	35599782	TTATATATATATATATATATA/TTATAT ATATATATATATATA	ATTTCCAACTGTTTGGG CAG	TACTAGATCGCGTCCC ACG	59.8	665	INTERGENIC	--	--	--
Ca5_P2_35607633	Ca5	35607633	CAATAATAATAATAATAATAATAATA AAAATAATAATAATAATA/CAATAATAA TAATAATAATAATAATAATAATAATA AAAATAATAATAATAATA	TCGTTTACAGCATCGAC CAA	GAACAATCTTGCACG TCCC	60.5	531	INTERGENIC	--	--	--
Ca5_P2_35608840	Ca5	35608840	ATTTT/ATTT	TCTTAACGCACGCATTT CTG	GCAGTCTTGGTGTGG GTTT	60.0	528	INTERGENIC	--	--	--
Ca5_P2_35734976	Ca5	35734976	CNNNNNNNN/CNNN	TTTTGGCAACTTGTT AGG	TCAATATAAACGGCGA AGGG	59.9	570	INTERGENIC	--	--	--
Ca5_P2_3575663	Ca5	3575663	A/AC	TTTGACGAAGAGCCAT GTTG	CGGGAATCAGTTTTGA GGAA	60.0	254	INTERGENIC	--	--	--
Ca5_P2_357876	Ca5	357876	A/AC	GTGAACAAGCCCATTG GAGT	GGATTGGCAATTCATT TGG	60.1	161	INTERGENIC	--	--	--
Ca5_P2_35983003	Ca5	35983003	GTTATTATTATTATTATT/GTTATTATT TATTATTATT	ATCACGGGATACGACC ACAT	AGTGGAGAGAGAGCG GTTGA	60.1	730	DRR	Ca_01625	--	bHLH
Ca5_P2_36021839	Ca5	36021839	ACC/AC	CACCGTTCCTCTGAC AGT	GTGAAATGAGTTCGT CCGC	60.6	112	INTERGENIC	--	--	--
Ca5_P2_360986	Ca5	360986	ATTTTTTTTTT/ATTTTTTTTTT	TGTGAGTTTAAGGGAG GGGA	GCATCCAGGATCAGAG GTGT	60.1	390	DRR	Ca_18192	P	--
Ca5_P2_36120649	Ca5	36120649	GA/GATAA	GCTTTCAGGCCAGACT ATGC	AGGGGTAGGAATAGGC CAGA	59.9	118	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_3615116	Ca5	3615116	TAGAAGAAGAAGAAGAAGAAGAAG AAGAAGAAGAAGAA/TAGAAGAAGAAG AGAAGAAGAAGAAGAAGAAGAAGA AGAAGAA	TTGAGGGTGACATTGC AAAA	TAAATTGGTCAACGGC ACAA	60.0	415	INTERGENIC	--	--	--
Ca5_P2_36157082	Ca5	36157082	ATTT/ATT	TGAGTTTTTCTTCTACA TACCACCA	TTGTTTCGAACCATCA GAG	59.8	358	INTERGENIC	--	--	--
Ca5_P2_36176137	Ca5	36176137	AATATATATATAT/AATATATATATAT	TCATTGACATTTGTCC CCA	TTGGTTGGAAAGGTTT GTCA	59.0	617	DRR	Ca_01608	--	--
Ca5_P2_36212540	Ca5	36212540	GTT/GTTAGATT	TTTCATTGTTTCCGTCA CCA	TTGAGTCAATGCAAGA GTCCTT	59.0	874	DRR	Ca_01603	I	B3
Ca5_P2_36213208	Ca5	36213208	CAT/CATTGAT	GGAATCGCCACAATGG TAAG	AAGGATCTCGAGAGCA CGAA	60.1	408	DRR	Ca_01603	I	B3
Ca5_P2_36214320	Ca5	36214320	G/GC	TACCAACCCAACAATGC AGA	TGGTGATGGTGATGGA ACTG	60.4	475	DRR	Ca_01603	I	B3
Ca5_P2_36285568	Ca5	36285568	TAAAAAAAA/TAAAAAAAA	GGCTTAACGCTCTGTC GTCT	AGCAGCTGCCATTTGA GAAT	60.0	630	INTERGENIC	--	--	--
Ca5_P2_36308359	Ca5	36308359	TTTATT/TTTATTGGTATTATTATT	GTTTGTGGCGGATTTT GTTT	CCGATACAACGGAATT GTCC	60.2	423	DRR	Ca_01593	Z	--
Ca5_P2_36375832	Ca5	36375832	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATAT ATAT	GTGCGCGAGTGAAATA GGAT	AGCACGATGCAAGAGT TGTG	60.1	580	INTERGENIC	--	--	--
Ca5_P2_36414199	Ca5	36414199	ATTTTTT/ATTTTTT	AACTCGCAATGCATCCA ATC	TGTGACCATGATTTGT GGG	60.2	240	INTERGENIC	--	--	--
Ca5_P2_36445067	Ca5	36445067	ATTTTT/ATTTT	ACCAGCTTCCACCCCT CTAT	GAAACGAAGCTTTGGA GCAC	60.0	687	INTRON	Ca_01575	--	--
Ca5_P2_36491208	Ca5	36491208	AG/AGG	TTCGCAACTCCACTCTT CCT	AACACAACGTGACACC CAAA	59.9	476	DRR	Ca_01569	D	M-type

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_37027315	Ca5	37027315	ATTTTTTTTT/ATTTTTTTT	GTTCGAAATGCTGCTC CTC	GGACATCCTCCTCCAT CTGA	60.0	433	INTERGENIC	--	--	--
Ca5_P2_37056417	Ca5	37056417	CTATATATATATATATATA/CTATATAT ATATATATATA	CCGATTAGAGATCAATG CAGAG	TATGCATTGGGCGAGT GTTA	60.1	334	INTERGENIC	--	--	--
Ca5_P2_37070230	Ca5	37070230	CTTTTT/CTTTTTT	CCAACCAATTCAACGGA AAC	GGGCCAATTATATTGG ACAGA	58.8	704	DRR	Ca_01509	J	GRAS
Ca5_P2_37218586	Ca5	37218586	TATACATACATACATACATATA/TATA CATACATACATACATA	CACTCGTATCATGCTTG TCG	CTTTTTCGCCACCATTT GTT	60.0	680	INTERGENIC	--	--	--
Ca5_P2_37228639	Ca5	37228639	AG/AGG	CAAGTTCGTGCCCATTC TTT	AGCAGCTCGAATCCAA CACT	60.0	480	INTERGENIC	--	--	--
Ca5_P2_37229002	Ca5	37229002	CCACACACACACACACACA/CCACAC ACACACACACACA	GAGCTGCTGAGCTGGA CTTT	GCAACTGACTTGTGT GCGT	60.0	281	INTERGENIC	--	--	--
Ca5_P2_37235701	Ca5	37235701	AATATATATATATATATATATA/AAT ATATATATATATATATATA	GTTGGAGCCAAAACTA GCG	ACATTCATTGGCCCTTT TGA	60.3	577	INTERGENIC	--	--	--
Ca5_P2_37244251	Ca5	37244251	CATATATATATATATATATATATAT ATATAT/CATATATATATATATATATAT AT	TTTGGACAAACCCAATC TCA	GTACCGTGCATCCAA TTTA	58.5	690	INTERGENIC	--	--	--
Ca5_P2_37288205	Ca5	37288205	TAAAAAA/TAAAAAAA	TCACGCGCATTTATGAA TTT	ACGCAAACTGAGTCTG TCCA	59.5	596	INTERGENIC	--	--	--
Ca5_P2_37303563	Ca5	37303563	GTGTGTGTGT/GTGTGTGTATGTGT GTGT	GATTATTGTGTGCGTG CGT	AAAGGATCAACTCGGG AAAAA	59.9	183	INTERGENIC	--	--	--
Ca5_P2_37347650	Ca5	37347650	ATTTTTTTTTTT/ATTTTTTTTTT	CTAGTCTCGGCCAAA ACAA	TTTGCGTTACGAATTG ATGA	59.2	448	INTERGENIC	--	--	--
Ca5_P2_37401293	Ca5	37401293	T/TCCGGATTCA	TCGTTGCACTTGATAAA CGC	TATATTCGAATCCGAAG CGG	60.0	132	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_3742109	Ca5	3742109	TT/TTACATAT	ATTACGAGCAGCGGA AAGA	TGGTCATGCAGAACT CAGC	60.0	605	INTERGENIC	--	--	--
Ca5_P2_3742639	Ca5	3742639	TA/TAA	TGCTGAGTTTCTGCATG ACC	CCCGTGATAGGCAGTA CGTT	60.0	597	INTERGENIC	--	--	--
Ca5_P2_3755353	Ca5	3755353	ATTTTTTTT/ATTTTTTTT	AGCATTGTGAACAAGG TCCC	CCTGCTTGTGTGGTG AGTG	60.3	487	INTERGENIC	--	--	--
Ca5_P2_37666217	Ca5	37666217	TAAAAAAAAA/TAAAAAAAAA	CTGTTGATGCCTTGTC GGTA	GAAAGCAAGGGGAATC ATCA	60.0	448	INTRON	Ca_01456	R	ERF
Ca5_P2_37673409	Ca5	37673409	G/GT	GGGAAACGCAAGAAAT GAGA	ACGTTGAGAATTGAG TGGC	60.1	396	DRR	Ca_01455	TU	--
Ca5_P2_37676399	Ca5	37676399	GTTTTTTTTT/GTTTTTTTTT	TAGCCTCAATCTCACTC GCA	AAATGGTAAACACCGC GAAG	60.0	797	INTERGENIC	--	--	--
Ca5_P2_37713383	Ca5	37713383	TAAACAAAACAAAACAAAACAAA/ TAAACAAAACAAAACAAAACAAA	CATCGTGTGTCCATCCT TTG	TCTCGTATTTCCGCCA GTT	59.7	658	INTERGENIC	--	--	--
Ca5_P2_37757226	Ca5	37757226	CAAAAAA/CAAAAAA	AGCATTATAGGGAGCG CAGA	ATTCTAGGACGAAGCC GTCA	59.8	379	INTERGENIC	--	--	--
Ca5_P2_37799581	Ca5	37799581	CTTTTT/CTTTTT	GCACCGTGATTTGATG ATG	ATCAAGTCAGTGCTGC ATCG	60.0	594	DRR	Ca_01443	--	--
Ca5_P2_378415	Ca5	378415	T/TG	AGCTTTAGCTTGAGGG GGAG	TCGATTTAATCCGCAG AAGG	60.2	510	DRR	Ca_18193	E	--
Ca5_P2_37868766	Ca5	37868766	CATTATATTATATTATATTATATAT/ ATTATATTATATTATATTATATTATTA TAT	GCGAAAACCTTGGTGG TGTT	ACAAGATCCACACCGC TACC	60.0	541	INTRON	Ca_01437	H	--
Ca5_P2_3787032	Ca5	3787032	TATAATAATAATAATAATAATAA TAATAATAATATTAGTAATAACAATA TTAATAATAATAATAATAACAATATT AATAATAATAATAATAATAATTAA TAATAATAATAATAATAATAATAA AATAATAATAATAATAATAATAA	CATACAATAAGATCCAT CGCTGA	GATCCTGCACACATC TAACG	58.2	680	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
Ca5_P2_37903499	Ca5	37903499	T/TATA	TCACGTGACACGAA CAAA	GCACCTATTTATCGGG ATGC	59.4	279	INTERGENIC	--	--	--	
Ca5_P2_37930695	Ca5	37930695	TT/TTTTCATAGGT	TCCTTGCTCCACTTTTC CAT	TGGTTGATTGGCTGAT TAATTG	59.8	644	INTERGENIC	--	--	--	
Ca5_P2_37951256	Ca5	37951256	CAGAGA/CAGAGAGA	GAGCTTTAAATCAGGAT GCGA	AAAATCTCTCGCGCTG TCAT	60.0	716	INTERGENIC	--	--	--	
Ca5_P2_37955644	Ca5	37955644	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TTGGAGAGGTGCATGG TAAA	TCGTTGTCTTTTGTCT TGCC	60.3	603	INTERGENIC	--	--	--	
Ca5_P2_37980921	Ca5	37980921	TGGG/TGG	TGATTTATGATTGTGGG CGA	GTTTGGATGCGTGTTT CCTT	60.0	704	DRR	Ca_01423	U	bHLH	
Ca5_P2_37981277	Ca5	37981277	ATT/AT	AAGGAAACACGCATCC AAAC	TGCGCAAAATCGTAGA CAAG	60.0	311	DRR	Ca_01422	B	MYB_related	
Ca5_P2_37982128	Ca5	37982128	CGCCAATA/C	AGCTCCAAGAGCAGTT CCAA	ATCACGTCCCCTACTT CACG	60.0	599	DRR	Ca_01423	U	bHLH	
Ca5_P2_37994601	Ca5	37994601	AT/ATTCTCCT	TTGTTGATGGCTGATTG CAT	GTTTTAGCACCACTTT GGC	59.9	943	INTRON	Ca_01421	B	--	
Ca5_P2_37997822	Ca5	37997822	TAAAAA/TAAAAA	GCTATTGCAAACTCCAA TCAA	TGGTGAACACTCCGGA TTTA	59.0	494	DRR	Ca_01421	B	--	
Ca5_P2_38000622	Ca5	38000622	ATTTTTTTTTTT/ATTTTTTTTTTT	GCCATGTGCGTGATTTT TCT	TGGAATAAAATGCCAA ACAAA	59.4	643	INTERGENIC	--	--	--	
Ca5_P2_38003361	Ca5	38003361	GAAAAA/GAAAAA	CTTGTGCCATTTTGCT TGA	TGGCTTCGACATAACA ATCG	59.7	713	INTERGENIC	--	--	--	
Ca5_P2_38005397	Ca5	38005397	CTCT/C	TGAGAGACCTTGATTGA TACAAATG	TCAATTTGGTTCCAACG TCAT	60.2	540	INTERGENIC	--	--	--	

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_38007676	Ca5	38007676	CTTTTTTTTT/CTTTTTTTTT	TTTGACGGGTCTCATTC TGA	TGACACATTTATTCGAC CGC	59.5	462	INTERGENIC	--	--	--
Ca5_P2_38008849	Ca5	38008849	AAGA/AA	TGATGATGAAATGGAC CCAA	GGGGATTTTCGTTTTG GTTT	60.0	365	INTERGENIC	--	--	--
Ca5_P2_38016624	Ca5	38016624	TAAGAAA/TAA	ATCCTCGAGAAGGAAG GAGC	CCTTTTCCCTCCAATGT CAA	59.9	276	INTRON	Ca_01419	A	--
Ca5_P2_38017775	Ca5	38017775	CTTTTT/CTTTTT	TGATCCCATGTGCACAA ACT	CTATCCACACAACGTC GAGC	59.3	405	INTRON	Ca_01419	A	--
Ca5_P2_38019468	Ca5	38019468	ATTTTTTTT/ATTTTTTTT	TTTTTCAGCTTTGGAC CAG	CAAACGTAACCATTGT GCCA	60.4	644	DRR	Ca_01419	A	--
Ca5_P2_38021365	Ca5	38021365	AAAGCA/AAAGCAAGCA	TCTTGCAATTTCTCAG CCT	ATTTTGGCAGCTGTCTT TGG	60.2	507	INTERGENIC	--	--	--
Ca5_P2_38023980	Ca5	38023980	AACACAC/AACAC	CCGCAGTAAGAGTTTG ACCA	TTCGGAGGAATGGTTG TTTC	59.9	548	INTERGENIC	--	--	--
Ca5_P2_38026164	Ca5	38026164	ATTTTTTTTTT/AATTTTTTTTTTT	ATGCCAAAAATAACGC CAG	ATTGCAATGAAAAGGC AACC	59.9	738	INTERGENIC	--	--	--
Ca5_P2_38027300	Ca5	38027300	ACT/A	TTGTTCTCCACCACCAT TTG	TGCTTACAAGGTATTCT TGCCA	59.8	916	INTERGENIC	--	--	--
Ca5_P2_38027475	Ca5	38027475	T/TA	TGGAGTGATACACATT TTGTGG	TGCTTACAAGGTATTCT TGCCA	59.8	446	INTERGENIC	--	--	--
Ca5_P2_38028893	Ca5	38028893	CTATTTATTTATTTATTT/CTATTTATTTA TTT	TCAATCACCTTAGAATC TCACCC	CGAAGTGTTAGATCG GCTC	59.8	603	DRR	Ca_01418	R	DBB
Ca5_P2_38031714	Ca5	38031714	ATTTTT/ATTTTT	GACTGGAACCTTCGG TTGA	TCTGTTTTCTCGCACCA CTG	60.0	612	INTRON	Ca_01418	R	DBB

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_38032027	Ca5	38032027	ATCTCTCTCTC/ATCTCTCTCTCTC	CAGTGGTGCGAGAAAA CAGA	TTCCATAATGTCCAGC CAAA	59.9	429	INTERGENIC	--	--	--
Ca5_P2_38034605	Ca5	38034605	CG/CGG	CTGCTATTGCGATCCCT CTC	TTTTGAACGCAAGAAAA CAGAA	59.9	800	INTERGENIC	--	--	--
Ca5_P2_38034644	Ca5	38034644	GTAT/GTATATAT	CTGCTATTGCGATCCCT CTC	TTTTGAACGCAAGAAAA CAGAA	59.9	800	INTERGENIC	--	--	--
Ca5_P2_38034841	Ca5	38034841	TTTA/TTTAATTA	TGTCGCCATTATACCG ACA	CGACGAGGTATATGCC AACA	59.6	856	INTERGENIC	--	--	--
Ca5_P2_38042134	Ca5	38042134	T/TA	TTGTCATAGGTTATACG GTAGGTCTC	GGGGACCAAAACCACA ATTA	59.5	265	INTERGENIC	--	--	--
Ca5_P2_38043572	Ca5	38043572	TAAA/TAAA	AGGAGGCTAATTGAGG GAGC	TGTGGGTGCATGGTAG AAAA	60.0	519	INTERGENIC	--	--	--
Ca5_P2_38045991	Ca5	38045991	ATT/ATTTTCTT	TGACATTTTCAAATGCC CAG	TGAAATGCGAAAGAGG TGAA	59.4	652	INTERGENIC	--	--	--
Ca5_P2_38048496	Ca5	38048496	CGAGTT/C	GTTGCATTTGGGCAATT TCT	CTCCTTCAGCAAAGCA TACG	58.7	527	INTERGENIC	--	--	--
Ca5_P2_38049343	Ca5	38049343	TAAAAAAAA/TAAAAAAAAA	AAACTCGAAACATCTA TCTCG	TCCTTTCATGATTATGC ATTGA	59.4	732	INTERGENIC	--	--	--
Ca5_P2_38051854	Ca5	38051854	TTTTTCTTT/TTTT	AAAAGTTGGCCTTTCCT AACAA	TCAATTGTGTGCATCA GTTTCA	60.2	534	INTERGENIC	--	--	--
Ca5_P2_38052063	Ca5	38052063	CATATGAATATGAAT/CATATGAAT	CAACAAAATTTCCCAAA AATTGA	TTTTTGGCAGTTATCGA CATT	57.3	822	INTERGENIC	--	--	--
Ca5_P2_38052150	Ca5	38052150	TAAAAAAAA/TAAAAAAAAA	CAACAAAATTTCCCAAA AATTGA	TTTTTGGCAGTTATCGA CATT	57.3	822	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_38058498	Ca5	38058498	AG/A	TTGTTGACAACTTGCCG AAG	GCGGTACTATTAGGC CGAT	58.3	492	DRR	Ca_01417	R	--
Ca5_P2_38058853	Ca5	38058853	CTTT/CTTTTT	CGGCCTAAATAGTACC GCAA	GGGTCCATGAAAAACA TTCG	60.2	557	DRR	Ca_01417	R	--
Ca5_P2_38066285	Ca5	38066285	CAAGATGAAGACGAAGATGAAGA/CAA GATGAAGATGAAGACGAAGATGAAGA	CCGTCCTCTTCTTCGAC AAC	CGGCGATCTTGGACCT ATTA	60.1	307	CDS (large-effect mutations)	Ca_01413	--	--
Ca5_P2_38067303	Ca5	38067303	TTATAT/TT	TGAAATCAAAACCCAC ATCA	AACTGTCTTGTGGAT TGTC	59.1	600	DRR	Ca_01413	--	--
Ca5_P2_38067587	Ca5	38067587	TTAAAAA/TTAAAAAATTACATATAAAA A	TGAAATCAAAACCCAC ATCA	GCGACAGATTCAACTC ACAGA	59.0	676	DRR	Ca_01413	--	--
Ca5_P2_38067693	Ca5	38067693	CTATATA/CTATATATA	GAGCACAATAATTTTCG TCAACA	GCGACAGATTCAACTC ACAGA	59.0	593	DRR	Ca_01413	--	--
Ca5_P2_38067755	Ca5	38067755	AGACAG/A	AGCAATGTGCACATCC AAA	GCGACAGATTCAACTC ACAGA	59.0	106	DRR	Ca_01413	--	--
Ca5_P2_38068190	Ca5	38068190	GAAAAGAAAAAGA/GAAAAGAAAAAGAA AAAGA	GCAATGTGCACATCCA AAC	CCCTTACGTGCTAAGC GAAA	59.5	580	DRR	Ca_01413	--	--
Ca5_P2_38070976	Ca5	38070976	TAA/TAAA	CGAATAATGTCGCAT CAAC	TCAAACACGCCTATT TGT	59.2	975	INTERGENIC	--	--	--
Ca5_P2_38071203	Ca5	38071203	AG/A	TTTTGGGAAAAAGATT CGATT	CTCAAACACGCCTATT TTG	59.3	435	INTERGENIC	--	--	--
Ca5_P2_38071355	Ca5	38071355	AG/A	TTTTGGGAAAAAGATT CGATT	TACTCGTGAGTGCGCA GTGT	59.5	744	INTERGENIC	--	--	--
Ca5_P2_38071525	Ca5	38071525	TATTGAT/TAT	CAAAATGAGGCGTGT GAG	GGGTTGAGAAATGTGA GGGA	59.9	484	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_38072280	Ca5	38072280	TGG/TG	TAGGGCTAGGGTTTC GGTT	TGGCGCAAAATGATGA AATA	60.0	475	INTRON	Ca_01412	O	MYB_related
Ca5_P2_38075218	Ca5	38075218	GTTTTTTTTTTT/GTTTTTTTTT	ATTTTGAAGCTGTTGG TGG	TGATCCACTCCCCTCTT GTC	60.0	457	DRR	Ca_01412	O	MYB_related
Ca5_P2_38075506	Ca5	38075506	TCC/TC	GACAAGAGGGGAGTGG ATCA	CACAACGGCAAGACAG ACAT	59.8	441	DRR	Ca_01412	O	MYB_related
Ca5_P2_38078782	Ca5	38078782	ACC/AC	TGATCTTGCTCCTAGGC GTT	GCAAACGCTGTTTTCC ATT	60.1	419	INTRON	Ca_01411	D	WRKY
Ca5_P2_38078875	Ca5	38078875	CTTTATATATTTATATAT/CTTTATATAT	TGATCTTGCTCCTAGGC GTT	GCAAACGCTGTTTTCC ATT	60.1	419	INTRON	Ca_01411	D	WRKY
Ca5_P2_38080854	Ca5	38080854	A/AC	AATAGATCCTGATGGC CGTG	TCGATTCACCATGACA GCAT	60.1	813	INTRON	Ca_01411	D	WRKY
Ca5_P2_38088698	Ca5	38088698	TCCC/TCC	ATTTACATGCGGTTCCG TTC	GACTCAATTGCGGCCA TATT	59.9	566	DRR	Ca_01409	--	--
Ca5_P2_38095032	Ca5	38095032	TGG/TGGG	TGAACATTCAAAGTACA ATGAGTCAA	ATCAGACCCAAATCAC GAGG	59.9	565	INTERGENIC	--	--	--
Ca5_P2_38101800	Ca5	38101800	G/GTACAAAGTGGACCGCT	GTCGAAGTACTCGGCG CTAC	ACGTCGAAGGGAGACT CAGA	60.0	610	INTERGENIC	--	--	--
Ca5_P2_38102985	Ca5	38102985	TA/T	GCTGGTGGCATACTT GGTT	GTCCATGACAGCAGCA AAAA	59.8	122	CDS (FRAME SHIFT)	Ca_01408	P	--
Ca5_P2_38103620	Ca5	38103620	GATATT/GATATTATATT	TTTTCAGGTGTTATTCA CGGC	ACGAACATGTTGCAAA ACCA	60.0	147	DRR	Ca_01408	P	--
Ca5_P2_38104582	Ca5	38104582	TAAAAAAA/TAAAAAAA	TACTGGTGGATTGATCC GGT	TGGGCATCCCAAGTGT TAAT	60.2	641	DRR	Ca_01408	P	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_38105777	Ca5	38105777	TTTATTATTATTATT/TTTATTATTATTAT TATTATT	GGGCCAATTGCTCAT GAA	AGACTCCGTGCCACT TCAT	59.7	745	INTERGENIC	--	--	--
Ca5_P2_38106497	Ca5	38106497	AATATATAT/AATATAT	TCAAATGGCAATGGAG ATCA	GAAACCCCTCAAGAAA GCCC	60.1	444	INTERGENIC	--	--	--
Ca5_P2_38107026	Ca5	38107026	AAAACAA/AAA	GGGCTTTCTTGAAGGG TTTC	TGTGCCTAATGAAGTT GCCA	60.3	564	INTERGENIC	--	--	--
Ca5_P2_381106	Ca5	381106	TG/T	CCGATACCCCTTCTGA GTTG	TCTGCGACAACAGATG GAAG	60.0	772	INTERGENIC	--	--	--
Ca5_P2_38110715	Ca5	38110715	CATATATATATATA/CATATATATATA	TATACGCAGCCCAACAT CAC	GATTGTCTGCTGGATT GGGT	59.9	426	DRR	Ca_01407	S	--
Ca5_P2_38116703	Ca5	38116703	AC/A	CACACAGAAATTCGCT TCA	AATGCACCTGAACATTC AAAATTA	57.8	393	INTERGENIC	--	--	--
Ca5_P2_38117183	Ca5	38117183	ATTTTTTT/ATTTTTTTTT	AATTTTGAATGTTCAAG TGCATTA	AACAATTCTACAAGTTC GGAAGTG	58.8	570	INTERGENIC	--	--	--
Ca5_P2_38121467	Ca5	38121467	AA/AAAACAATA	ATTGGATCTAGTGCGAT GCC	GGTGATAGGTGGACGG CTTA	60.0	198	INTERGENIC	--	--	--
Ca5_P2_38121673	Ca5	38121673	AATATATATA/AATATATATATA	ATTGGATCTAGTGCGAT GCC	TGGGTTTAGGGTTAG GCTT	59.8	429	INTERGENIC	--	--	--
Ca5_P2_38122114	Ca5	38122114	CAAAAA/CAAAA	AGCCTAACCCCTAAACC CAA	TGTGCAAAAGTTTCAC GACAT	59.2	588	INTERGENIC	--	--	--
Ca5_P2_38126896	Ca5	38126896	AATATAT/AATAT	GCATTACGACTTTGTTG CGA	TCACCACCTTCATTGTC AGC	59.7	483	INTERGENIC	--	--	--
Ca5_P2_38133214	Ca5	38133214	TAGAA/TAGAAGAA	TTTCGAAGGTTTCTGGA AAAG	TCACCCACATTCGAA ACTT	60.4	211	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_38137183	Ca5	38137183	TAAAAAAAA/TAAAAAAAA	TTTTGGAATACACCGGA AAA	GTCGAAGTACGCCATT AGCC	59.8	341	INTERGENIC	--	--	--
Ca5_P2_38137478	Ca5	38137478	CAATAAT/CAAT	GGCTAATGGCTCAGTT CGAC	TACATACCACCCGATT CGC	60.7	229	INTERGENIC	--	--	--
Ca5_P2_38137803	Ca5	38137803	ATTTTTTTTT/ATTTTTTTTT	GGCTAATGGCTCAGTT CGAC	TTTCATGGGTGCAAAAC AAAA	59.9	622	INTERGENIC	--	--	--
Ca5_P2_38137873	Ca5	38137873	TC/T	GGCTAATGGCTCAGTT CGAC	TTTCATGGGTGCAAAAC AAAA	59.9	622	INTERGENIC	--	--	--
Ca5_P2_38141017	Ca5	38141017	CTTATAAG/C	CGTCATATGCAGATTT GCG	AAGCCCAAAAAGAAAT GAGG	58.3	552	INTERGENIC	--	--	--
Ca5_P2_38150207	Ca5	38150207	GTTTTTTTT/GTTTTTTTT	CATTTTCGGTTCCTCCT CCA	ACTTTTGCCGATCCAA CAAC	60.0	792	INTRON	Ca_01402	--	bHLH
Ca5_P2_38150301	Ca5	38150301	TAAAAAAAA/TAAAAAAAA	CATTTTCGGTTCCTCCT CCA	ACTTTTGCCGATCCAA CAAC	60.0	792	INTRON	Ca_01402	--	bHLH
Ca5_P2_38151978	Ca5	38151978	GAAAAAA/GAAAAAA	TACCCTTTCAGCAAGG CTGT	TTTCAAAACGCCGTCT GTTA	59.3	477	INTRON	Ca_01402	--	bHLH
Ca5_P2_38154241	Ca5	38154241	AAGA/AA	GCTTTTGGGTGTTGCT GTT	TTTCCCCCTATTTACG GCT	59.8	425	INTERGENIC	--	--	--
Ca5_P2_38154571	Ca5	38154571	TAAAA/TAAAA	TTGTGGGCAAGTTGA CATA	AGGCACCACTTTTGAT CGAC	60.1	659	INTERGENIC	--	--	--
Ca5_P2_38154626	Ca5	38154626	AG/A	TTGTGGGCAAGTTGA CATA	AGGCACCACTTTTGAT CGAC	60.1	659	INTERGENIC	--	--	--
Ca5_P2_381551	Ca5	381551	AAAGTTTCCAACAAGTTTCCAACAAG TTTTCC/AAAGTTTCCAACAAGTTTCC	GTAGATCTCACACGCT GCCA	CGAGTGAGAAAATGCG TCAA	60.0	523	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_38156620	Ca5	38156620	G/GA	CCTTGCTATGCACCACA TCA	GCCATGATATTGAGATT TGGG	59.2	575	INTERGENIC	--	--	--
Ca5_P2_38156740	Ca5	38156740	AT/ATT	TGTTATCATCACATTGG GGAA	GCCATGATATTGAGATT TGGG	59.2	184	INTERGENIC	--	--	--
Ca5_P2_38160287	Ca5	38160287	T/TC	ATTTCCCTTGAACCA TTC	CCAAATTAACGATGATA TCCAACA	60.0	141	INTERGENIC	--	--	--
Ca5_P2_38167257	Ca5	38167257	ATTTTTTT/ATTTTTTT	GGGTGCCCTGATT ACTT	CATTTTCGTTCCCAAGT GTG	59.0	376	INTERGENIC	--	--	--
Ca5_P2_38255302	Ca5	38255302	AAATAATAATAAT/AAATAATAAA T	TGCCTCAACTCAACACT TGC	CAATTTACCAATCGCAC GAA	59.6	762	INTERGENIC	--	--	--
Ca5_P2_38331508	Ca5	38331508	CCTTCTTTCTTTCTTTCTTTCT/C CTTCTTTCTTTCTTTCTTTCT	ATCGCATTTGAAAGCCA ACT	TGCAACAAAACCTCTT CCC	60.1	351	INTERGENIC	--	--	--
Ca5_P2_38352528	Ca5	38352528	ATT/AT	CTCCACAAGCCCAATCA TCT	CCAACCCTACTCGCCT GATA	60.1	734	INTERGENIC	--	--	--
Ca5_P2_38382482	Ca5	38382482	TATAATAATAATAATAATAATAAA TAATAATAAT/TATAATAATAATAATA ATAATAATAATAATAATAATAAT	GGTGGAGACGTGGAAC AACT	CCGACGGAATGTACC AATC	60.2	806	DRR	Ca_01386	--	LFY
Ca5_P2_38401552	Ca5	38401552	TTCTCTCTCTCTCTC/TTCTCTCTCTC TCTCTCTC	TTGTCTCCAGTTTGGT CCC	GTTAGAGGCAACACA GCCC	59.7	482	INTERGENIC	--	--	--
Ca5_P2_38407056	Ca5	38407056	CT/C	TCTCAAAGTCTCAATGG TCCAA	TTGAAGTCAAATTCGC CAG	58.9	658	INTERGENIC	--	--	--
Ca5_P2_38407176	Ca5	38407176	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT ATATAT	TCTCAAAGTCTCAATGG TCCAA	TTGAAGTCAAATTCGC CAG	58.9	658	INTERGENIC	--	--	--
Ca5_P2_38476895	Ca5	38476895	C/CTTTGCGAAAT	GAGGACCAAAACATGC CACT	CCGTGCACAACACAAT TTTC	60.0	665	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_3850375	Ca5	3850375	ATTTTTTTTTT/ATTTTTTTTTT	TTTGAATCTTGAGGGT GAAA	GAATGATATATTGATTG GGTGTGTG	59.4	396	INTERGENIC	--	--	--
Ca5_P2_3862372	Ca5	3862372	TAAA/TAA	TTCACATCCCCTCTAA CCAA	TCCCAATGACTCATCG TCAA	60.0	349	INTERGENIC	--	--	--
Ca5_P2_3869268	Ca5	3869268	AAATAATAATAATAATAATA/AA ATAATAATAATAATAATA	CCGCTACCAAGAAGAT CCAT	CCAAATTTGATGACATG CAC	57.4	574	INTERGENIC	--	--	--
Ca5_P2_38719512	Ca5	38719512	ATTTTTTTTTT/ATTTTTTTTTT	TTTGGCTGTTATGCAA TCA	GGATGGACAGAGAGCC AGAG	59.9	558	INTERGENIC	--	--	--
Ca5_P2_3874588	Ca5	3874588	AC/A	GACCTTGCTTTGGGGT TGTA	CACATCCCCTCTAAAC CAACC	60.6	409	INTERGENIC	--	--	--
Ca5_P2_38755750	Ca5	38755750	TGGGG/TGGGGG	GAAGTTGAGCGCAATG TTGA	TTAAGACGGGTGATGG AAGC	60.1	528	INTERGENIC	--	--	--
Ca5_P2_38755876	Ca5	38755876	TA/TATGA	GAAGTTGAGCGCAATG TTGA	TTAAGACGGGTGATGG AAGC	60.1	528	INTERGENIC	--	--	--
Ca5_P2_38755924	Ca5	38755924	TAAAA/TAAA	GTCTGCCACATCACCC TTTT	CGGATCAACTTTCTTT GTGG	59.6	661	INTERGENIC	--	--	--
Ca5_P2_38829826	Ca5	38829826	CTTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTA TTATTATTATTAT/CTTATTATTATTA TTATTATTATTATTATTATTATTAT ATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT	TGCAACAAAGTAACGC CTG	TGCTACAACCAACGA TGGA	60.1	627	INTERGENIC	--	--	--
Ca5_P2_38854400	Ca5	38854400	TATTATTCATT/TATTATTCATTTCATT	TCCCTAATTTAAAGTT TGGGCT	CGTGTTCATTAGGT GGTG	60.0	464	INTERGENIC	--	--	--
Ca5_P2_3889412	Ca5	3889412	ACTT/ACTTCCAAGGTCTAACAACTTT	GTTGCATGATAGCTCC CGAT	TGATGATTTTGATTGG CGA	60.0	384	INTERGENIC	--	--	--
Ca5_P2_38902709	Ca5	38902709	TAAAAA/TAAAAA	GAAGGGTGAATGCTG ACAT	ATGACCCCTTCACTTT GTG	59.8	729	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_39448578	Ca5	39448578	TTATATATATATATATATATATAT/TTA TATATATATATATATATATATATAT	TGGTTAAGAACGAACG GGAC	GCAACAAAGCACGGTG AATA	59.7	513	INTERGENIC	--	--	--
Ca5_P2_39474423	Ca5	39474423	TAAAAAAAAA/TAAAAAAAAA	CATGGATGGTGTGTTGAA TCG	TCTGCATGCCTTGTC TATG	59.8	488	DRR	Ca_07483	P	--
Ca5_P2_39482180	Ca5	39482180	AATATATATATATATATATATATAT AT/AATATATATATATATATATATAT ATATATAT	TGGTCGGAGAAGAGGA GCTA	AATGGATGATAGCGAG TGGT	58.5	522	INTERGENIC	--	--	--
Ca5_P2_39515362	Ca5	39515362	TAAAAAAAAA/TAAAAAAAAA	TGGTCATCTCCCTAAAT GGC	CATGAGCAAATGAACC ATCG	60.1	491	DRR	Ca_07487	H	--
Ca5_P2_39557215	Ca5	39557215	GATATATATATATATATATAT/GATATAT ATATATATATATATAT	GCAAAAAGGGGCACAA TAAA	AATGTCAATCCTCCATT GCC	59.8	357	INTRON	Ca_07489	TBLD	--
Ca5_P2_395817	Ca5	395817	TAAAAAAAAA/TAAAAAAAAA	AAAGGCATCAAAGCTTT GGG	GCTTCTATTCCACCG ATGA	60.0	809	INTRON	Ca_18194	A	bHLH
Ca5_P2_39630428	Ca5	39630428	TTATATATATATATATATATATA/TTAT ATATATATATATATATA	GCGACAAAAGTGCAATT GAA	TGCTTGGGTTTAACAAA GGG	60.0	500	INTERGENIC	--	--	--
Ca5_P2_39655677	Ca5	39655677	CAATAATAATAATAATAATAATAATA ATAATAA/CAATAATAATAATAATAATA TAATAATAATAATAATA	ATTGTCCATCCTTCGCA GAC	ACTGACTACCCGCATT TTGG	60.0	537	INTERGENIC	--	--	--
Ca5_P2_39688182	Ca5	39688182	AGTGT/AGTGTGT	AATTGGTCCCACTTTCT CTC	CCTCAGAAGTGATCT TCGC	60.0	443	INTERGENIC	--	--	--
Ca5_P2_39783981	Ca5	39783981	GATATATATATATATATATAT/GATATAT ATATATATATAT	TTGTAATCGTTCGCCA CCC	CCGCTAATTTGACGGA AAAA	60.1	629	INTERGENIC	--	--	--
Ca5_P2_39791007	Ca5	39791007	GAAAAAAAAA/GAAAAAAAAA	TGTGGACTAAAGTGAG GGGC	CACGGTGAAATCGGTA TGGT	60.6	806	INTERGENIC	--	--	--
Ca5_P2_39855806	Ca5	39855806	AATATATATATATATATA/AATATATAT ATATATATA	CGGAGTCCAATAACCG ACTT	CCGTGAGTGTGGCTAG TATGA	58.8	500	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_40191220	Ca5	40191220	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATAATAAT	TTCATGAGTGGGTGT AGTTTG	TTGAATTTTGTTCG TTGA	58.3	257	INTERGENIC	--	--	--
Ca5_P2_40223853	Ca5	40223853	ATTGTTTGT/ATTGTT	GTCTCTCCCAACCA TCA	CCTTCATTGGTTGTC GTG	60.0	451	INTRON	Ca_07547	R	--
Ca5_P2_4035916	Ca5	4035916	CTTTTTTTTT/CTTTTTTTTT	GCGGTGGGTTGAAA AGTA	ACACCAGTCAAACGA CAAA	60.2	420	INTERGENIC	--	--	--
Ca5_P2_4038878	Ca5	4038878	ATT/AT	TTGCGAAATCGCAGT GTTA	TCCCTCCTTCACAAA TGG	59.9	862	INTERGENIC	--	--	--
Ca5_P2_40392907	Ca5	40392907	GTATATATATATATATATATATATAT TATAT/ATATATATATATATATATATAT ATATAT	GCATTATCACGAGCA ACG	TCAATGTGGTTCGAA AAGA	60.2	192	INTERGENIC	--	--	--
Ca5_P2_40417439	Ca5	40417439	AATATATATATATATATATATATATAT ATATATATAAATATATATATATATATAT TATATATATATATATA	TGAAATATGCACGGGA CAAA	TGATTGCTCTAATTTT ATGTAGTCCA	59.5	556	INTERGENIC	--	--	--
Ca5_P2_40434180	Ca5	40434180	AGG/ACATCTGGG	TTTCACCCAGTAGGAG GTCG	TGAACCGGAAGAACCT CAAC	60.1	500	INTERGENIC	--	--	--
Ca5_P2_40471737	Ca5	40471737	CTTTTTTTTT/CTTTTTTTTT	TGATTTTCCCTGTGCAT CAA	AATGTGGCAAAGGATT CCAG	59.9	757	DRR	Ca_07567	--	--
Ca5_P2_40493832	Ca5	40493832	CTATATATATATATATATATATA/CTAT ATATATATATATATATATA	TGCACAAAATATCGGGA GAA	GGGACCACGGGAAC TTTT	60.1	779	DRR	Ca_07570	--	C3H
Ca5_P2_40509908	Ca5	40509908	AATATATATATATATATATATAT/ATA TATATATATATATATAT	TCAATTGGGTCTTATCT TTATGGA	TCTGCACGCTTCCTA TTTT	59.8	377	INTERGENIC	--	--	--
Ca5_P2_40512133	Ca5	40512133	GAAAAAAAA/GAAAAAAAA	TGTTGTAGCCCCGTCA ATTT	CCACATGGCATTGACG ATAC	59.8	448	INTERGENIC	--	--	--
Ca5_P2_40572884	Ca5	40572884	ATTTTTTT/ATTTTTTT	TTAGAGGAGCCAGTA AGCC	CCCTAGCCACTTCTCT CCC	60.2	584	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_4064742	Ca5	4064742	G/GC	TATGTTTGTTCGCGT CCA	AGGATGTACCATTCTT GCGG	60.0	375	INTERGENIC	--	--	--
Ca5_P2_40692265	Ca5	40692265	AATATTAATATAT/AATATTAATATATT AAATATAT	TACGTCCTCACTCCAA TCC	CGTAAAAGTGTCATTG CCTCC	59.6	517	INTERGENIC	--	--	--
Ca5_P2_40732156	Ca5	40732156	AATATATATATATATATATAT/AATATA TATATATATATATATATATATATATAT	AGTTCAATGTGTGGAG GGGT	ATCTTTGGGACGTCGT GAAT	59.4	504	INTERGENIC	--	--	--
Ca5_P2_40743914	Ca5	40743914	TC/TCC	ACTCCATAAATCGTGGC TCG	TTTTTCAGCGGACAGT AGGG	60.2	868	INTERGENIC	--	--	--
Ca5_P2_40750478	Ca5	40750478	TGGGG/TGGG	ATGTTATCAACCTCGC TCG	TCAATTCCTCTTTTAA ATAACGTG	58.0	510	INTERGENIC	--	--	--
Ca5_P2_40792737	Ca5	40792737	TAAAAAAAAA/TAAAAAAAAA	CGACCTTCTTTGAACCT TGAGG	GACAACAGTCCAGCCC ATTT	60.0	184	INTERGENIC	--	--	--
Ca5_P2_40836048	Ca5	40836048	AT/ATATATTAAGTCT	TTGACTCGTATGCGGTT TGA	TTTCGGAAGTTTCACAT TCATC	59.1	651	INTERGENIC	--	--	--
Ca5_P2_40968327	Ca5	40968327	TAAAAAAAAA/TAAAAAAAAA	CAAAATTTCAATCAAA ACCCA	TACATTCCCGTGGTCC CTTA	60.2	393	INTERGENIC	--	--	--
Ca5_P2_40970000	Ca5	40970000	AATATATATATATATATATATAT/AATA TATATATATATATATATATATAT	TGCATTTAATCAGAGAC GTAAAGG	TAAAGGGGCACATTCA AAGC	60.1	246	INTERGENIC	--	--	--
Ca5_P2_40982889	Ca5	40982889	TAAAAAAAAA/TAAAAAAAAA	AAGGATTGAATAAACGC CCA	TTGTTCAAGCTCCGCA AGTA	59.6	813	INTERGENIC	--	--	--
Ca5_P2_40983709	Ca5	40983709	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATAT	TTGTCAGCACATCACAA CCA	CAAAGAGTCGTCACGT TGACTT	59.4	603	INTERGENIC	--	--	--
Ca5_P2_41056125	Ca5	41056125	TAAAAAAAAA/TAAAAAAAAA	GCACTCAGCATAGGTTT CGC	GTAGCTCACGATTTCG TTCC	60.0	454	INTRON	Ca_07624	I	NF-YC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_41063761	Ca5	41063761	CTTTTTTT/CTTTT	TTTGCAGCCACAAAAG CAG	GCCCTCACAAACGTG ATT	60.0	122	INTERGENIC	--	--	--
Ca5_P2_41078713	Ca5	41078713	TAAAAAAAA/TAAAAAAAAA	TTAATGGATTGCGTGT CTT	ACTGCTCGGACAATT TTTG	60.1	533	INTERGENIC	--	--	--
Ca5_P2_41108441	Ca5	41108441	GTTTTTTTTT/GTTTTTTTTT	GGAGCGGAAAAGACTG AAAA	TTTTGTCTATGCGCACA AGG	59.9	586	INTERGENIC	--	--	--
Ca5_P2_41124249	Ca5	41124249	TCAACA/TCAACAACA	ATATTGTTCAGCACCCG AGG	CAGACGACGAATGAA GCAA	60.0	361	INTERGENIC	--	--	--
Ca5_P2_41163283	Ca5	41163283	CAAAAAAAAA/CAAAAAAAAA	CATATGCGGTCCCGTA ACTT	TTTCCCGAGTTGGTCC TTTA	59.5	506	INTERGENIC	--	--	--
Ca5_P2_41179556	Ca5	41179556	AA/AAAGAGTGTGAAAAGA	GACTCAATGCAGATGG GGTT	GTCCCATACCTGCAAA AGGA	59.9	596	INTRON	Ca_07636	--	--
Ca5_P2_41226745	Ca5	41226745	CAAAAAAAAA/CAAAAAAAAA	GCCCAAAATCAAAACT CCA	TGTGTCGTAAAAAGAT GTCTAAGCA	60.2	611	INTERGENIC	--	--	--
Ca5_P2_41250178	Ca5	41250178	TTATATATATATATATATAT/TTATATA TATATATATATAT	CAGTTGAGACTGGGCA GACA	GCATCCCATCTTGAGT TGCT	60.2	640	DRR	Ca_07641	--	CO-like
Ca5_P2_4131194	Ca5	4131194	TA/TAA	GGTCATTTTGGTTTTTG TCCA	TCAACCCTAACCCCTAA CCC	60.0	610	INTERGENIC	--	--	--
Ca5_P2_41422310	Ca5	41422310	AATATATATATATATA/AATATATATAT ATATA	AACATCAAGCAGTTCC TGG	CCAGGTTATGTCCCA AATG	60.0	271	INTERGENIC	--	--	--
Ca5_P2_41455567	Ca5	41455567	AATATATATATATATATATATATAT A/AATATATATATATATATATATATA	TTGCCACTTGATACAG AAAA	TGCATGTTGAAACACC GACT	60.2	757	INTERGENIC	--	--	--
Ca5_P2_41459766	Ca5	41459766	CTATTATTATTATTATT/CTATTATTA TTATTATTATTATT	GGACGTAGAAAATTAAT GACATGG	TAGGAGGGCTTTGTA AGCA	59.8	479	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_41467556	Ca5	41467556	TA/TAA	AAAGGATGCAGTATGG GTTTT	TCACCTGGGTGGAAA ATGAG	60.0	453	INTERGENIC	--	--	--
Ca5_P2_41467725	Ca5	41467725	CTT/CTTT	CTCATTTTTCCACCCAA GTGA	AGCGACAAGATGAAAG CTCC	59.6	529	INTERGENIC	--	--	--
Ca5_P2_41467756	Ca5	41467756	GTTTTTTTTT/GTTTTTTTTTTT	CTCATTTTTCCACCCAA GTGA	AGCGACAAGATGAAAG CTCC	59.6	529	INTERGENIC	--	--	--
Ca5_P2_41467895	Ca5	41467895	TA/TAA	CTCATTTTTCCACCCAA GTGA	AGCGACAAGATGAAAG CTCC	59.6	529	INTERGENIC	--	--	--
Ca5_P2_41467907	Ca5	41467907	AATTATTATTATTATTAT/AATTATTA TTATTATTATTATTAT	CTCATTTTTCCACCCAA GTGA	AGCGACAAGATGAAAG CTCC	59.6	529	INTERGENIC	--	--	--
Ca5_P2_41477742	Ca5	41477742	CAA/CAAA	TGAGGCAAGCATGTGT AAGC	AATGTGCATGAGAGGC TGTG	59.9	223	DRR	Ca_19232	B	MYB_related
Ca5_P2_4156944	Ca5	4156944	ATTTTTTTTTT/ATTTTTTTTTT	TAGCGTTTAGGGTTTC GGGT	TGCATTTTGACTTTTGC TCC	58.9	194	INTERGENIC	--	--	--
Ca5_P2_41603707	Ca5	41603707	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATATATA TAT	ACGTCCATTTTCCATGT GGT	TTGCCATTTCATCTTC CTC	60.0	444	INTERGENIC	--	--	--
Ca5_P2_41614182	Ca5	41614182	AATATATATATATATATATAT/AATATATA TATATATATATATATAT	TGTGGATTCATGATCCT TGTG	TTTAACGTCAATGCCAA CTTT	57.4	916	INTERGENIC	--	--	--
Ca5_P2_41617923	Ca5	41617923	TAAAAAAAAA/TAAAAAAAAA	TTGTGGGCATGCATG TTAG	CCCAATGCCTCTGTT GTCT	60.1	579	DRR	Ca_19219	--	--
Ca5_P2_41678103	Ca5	41678103	TCT/TCTTTCCCTTAAAGGACT	CAGTGGTCTCTCTCC ACAT	CCCGAACTCCTGTTC TCCA	60.1	551	INTRON	Ca_19215	J	C3H
Ca5_P2_4176359	Ca5	4176359	T/TG	TGCAATGGTCTCAATGT ATTCAA	CCCGAAACCCTAAACC CTAA	60.2	703	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_41769440	Ca5	41769440	CAA/CAAA	GCTTGTATCATTTGGG CGT	TACTCTGCTGCAGTCA CGCT	60.0	816	DRR	Ca_19205	O	--
Ca5_P2_41795988	Ca5	41795988	ATT/AT	TGGAATGCTACACAAG CTGC	TTGAGGTGCATCGATC AAAA	60.2	317	INTERGENIC	--	--	--
Ca5_P2_4179599	Ca5	4179599	GATATATATATAT/GATATATATAT	CGGTTTAGGGATTGGG TTTT	TCGATTGAGTCTTTTGC ACTT	57.6	166	INTERGENIC	--	--	--
Ca5_P2_41834699	Ca5	41834699	ACAAAAATTCAAAAAT/ACAAAAAT	ACAAACCTGTGGAGA GTGG	AAGGATGGATTGCACT TTGC	60.1	798	INTERGENIC	--	--	--
Ca5_P2_4184547	Ca5	4184547	T/TA	TTCGGGTTTAGGGATTA GGG	AGGAAGCAACGAAAC GAAA	59.9	582	INTERGENIC	--	--	--
Ca5_P2_41854653	Ca5	41854653	AATATATATATATATATATATATA/AAT ATATATATATATATATATA	TTACGGCTACCACCGA AAAC	CTCCCACTCAAAAGTTT GTTCA	59.3	488	INTERGENIC	--	--	--
Ca5_P2_41858516	Ca5	41858516	TTATATATATATATATATATATATA TAT/TTATATATATATATATATATATAT ATATATATAT	AGCAATGAACAACGCAT CAA	AAGGCATCATCTTTGA GAAAGA	60.1	614	INTERGENIC	--	--	--
Ca5_P2_41907058	Ca5	41907058	ATTTT/ATTT	ATGGCAATAACCTAGCC CCT	TCATCACCTTCAAACAA ACCC	59.8	599	INTERGENIC	--	--	--
Ca5_P2_4193422	Ca5	4193422	ATTTAGGGTTTAGGGTTTAGGGTTTAG GGTTTAAGGTTTAGGGTTAAGGGTTTA AGGTTTAGGGTTTAGGATTTAGGGTTT AAGATTTAGGGTTTAGGGTTTAGGGTTT T/ATTTAGGGTTTAGGGTTTAGGGTTTA AGGTTTAGGGTTTAGGGTTTAGGGTTT	GCGTTTAGGGTTAAG GGTC	TCCATTTGCTCTTTTGC ACTT	59.7	609	INTERGENIC	--	--	--
Ca5_P2_41955510	Ca5	41955510	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT/ATATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTAT	TTAAATAGGCGGTGG TTGA	TAATTCACCTCCACATG CCA	59.9	828	DRR	Ca_11417	R	--
Ca5_P2_42108269	Ca5	42108269	GATATATATATATATATATATA/GA TATATATATATATATATATATA	CAGCGTGTTCATTTGCA ATC	AACATCTCAAACCTCC TCTTGCT	57.1	274	INTERGENIC	--	--	--
Ca5_P2_4220180	Ca5	4220180	ACCC/ACC	CACACAGGGACTCAGC AGAA	TTTACAAGCAGCGGGA AAGT	59.9	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_42578018	Ca5	42578018	ATTTTTTTTT/ATTTTTTTTT	GTTGAAACCGGTGGC TAAT	AACACTTTTCGCTGCC AACT	59.9	451	INTERGENIC	--	--	--
Ca5_P2_42706626	Ca5	42706626	ATT/ATTCTTTTTT	AGGGATAACCTGGTGC TGTG	ATGAAACCTAGCGTG GTTG	60.0	700	INTERGENIC	--	--	--
Ca5_P2_42720218	Ca5	42720218	TTGAA/TGTCAGTGAA	AAAGGTTTGGATGTCG ATGC	AGCAAAATCCAGAAAA GCCA	59.8	675	DRR	Ca_11339	J	--
Ca5_P2_4275629	Ca5	4275629	GC/G	TTAGGGTTTAGGGTTTC GGG	TGACTTTTGCACTAATT GGACG	60.2	516	INTERGENIC	--	--	--
Ca5_P2_42902485	Ca5	42902485	TTATATATATATATATAT/TTATATATA TATATATAT	GTGGTTTTGCTTCGAC CAGT	CATTTGCACTATTTGT CATTGAT	58.1	326	INTERGENIC	--	--	--
Ca5_P2_42919987	Ca5	42919987	A/AG	GATTCCCCATTCTTAAC GCC	CATTTCTCCCTCCTCT CCC	60.0	575	INTERGENIC	--	--	--
Ca5_P2_42975249	Ca5	42975249	CTTATTATTATTATTATTATTATTAT TATT/CTTATTATTATTATTATTATTA TTATT	TCTGATGAGTTGCTTGT GCC	GGCCGCAATTATTGTTT TGT	59.8	528	INTERGENIC	--	--	--
Ca5_P2_4307171	Ca5	4307171	AGGTTTAGGGTTTAGGGTTT/AGGTTTA GGGTTTAGGGTTTAGGGTTT	AGGGTGTAAGGGTCTT GGTCT	CAAAAGCCAAAATGAC CTCAA	60.1	747	INTERGENIC	--	--	--
Ca5_P2_43073124	Ca5	43073124	CA/CAA	ACACGGCTCAAGCACT TTTT	GACACCATGTCCAACA TGCA	60.3	665	INTRON	Ca_11300	OU	WRKY
Ca5_P2_4315386	Ca5	4315386	GGGTTTTA/G	AAGTGCATAATCCCAA TGGA	AAATCCAAAACCCAAA CCC	59.9	656	INTERGENIC	--	--	--
Ca5_P2_43230818	Ca5	43230818	T/TAAGATCTTTCCC	ACATTACGTGTTTGCGC TTG	GATTCCCAAGGACACT CCAA	59.9	455	INTRON	Ca_12734	T	MYB
Ca5_P2_43299130	Ca5	43299130	TC/T	TTGGTTTACGAATTTTA TGGTGAA	CTGCATAGGCAGGGTG GTAG	60.7	385	DRR	Ca_12727	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_43352591	Ca5	43352591	ATTTTTTTTT/ATTTTTTTTT	CTGGTCGACAACTGCT GAAA	CCATCGTGTAACCGCT ATGA	59.6	449	INTERGENIC	--	--	--
Ca5_P2_43432153	Ca5	43432153	TAAAA/TAAAA	TCAAAGTTTGCAGGGA AAAA	TCGACATTTTGGTTTG TTTGA	60.4	722	INTERGENIC	--	--	--
Ca5_P2_435121	Ca5	435121	CA/CAAA	TGCAATCAGGTGATC CAAA	CAGCAACCACAATTCAA CTCA	59.7	497	DRR	Ca_18196	--	--
Ca5_P2_43517939	Ca5	43517939	AATATATATATATATATATA/AATAT ATATATATATATATATATATATATA TA	TGAGATGTTCACTACTG CGTTG	AATTTTTCGGCCAAG TATG	60.0	876	INTERGENIC	--	--	--
Ca5_P2_43575232	Ca5	43575232	GTAATAAATTAATAAATAAATAAATA TAATAAATTATAGTAATAAATAAATA AATAAATT/GTAATAAATTAAATAATA AATTAATAAATAAATAAATAAATAA ATTTATAGTAATAAATAAATAAATAA	TCGGAAGTTTGGTCTTC AATG	CGAAATGTAATGCTCG AAACA	58.8	338	INTERGENIC	--	--	--
Ca5_P2_43722797	Ca5	43722797	TAAAAAAA/TAAAAAAA	CATTGTCCAATGGCATG TTT	CGAGTGTCTGTTAACC GCTG	59.5	822	DRR	Ca_12680	P	MIKC
Ca5_P2_43739607	Ca5	43739607	ATTTTTTTTT/ATTTTTTTTT	GCAAAGCACTGTGTG GAGA	GCCAATCCTATCCTG CAAA	60.0	459	INTERGENIC	--	--	--
Ca5_P2_43761974	Ca5	43761974	TTTGT/TTGATTGT	GCCATCTCTAAATTGAT TGGG	GATCCATGACATGATT GGCA	60.3	583	INTERGENIC	--	--	--
Ca5_P2_43825873	Ca5	43825873	TAATAAATAAATAAATAAATAAATA /TAATAAATAAATAAATAAATAAATA	ACGCCGTACTTGATTGA TGA	TCGGTACACATCGCTA CAACA	60.2	227	INTERGENIC	--	--	--
Ca5_P2_43839431	Ca5	43839431	ATTTTTTTTT/ATTTTTTTTT	TTCCGCCCTTTTAAACA CAC	ATTTGAGCCGTCGCAT ATTT	59.6	455	INTERGENIC	--	--	--
Ca5_P2_43919096	Ca5	43919096	ATTTT/ATTTT	TGCTGCTTGATATACGG TGG	ACGATGCCCATACAA TGAT	60.0	441	INTERGENIC	--	--	--
Ca5_P2_43921147	Ca5	43921147	CTATA/CTATATA	TGGGACCAACATGTG AAGA	TCTAATTGTTTGATT ATCCCTCA	58.2	583	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_43925403	Ca5	43925403	TAAAAAAAAA/TAAAAAAAAA	TCCCATCAACCATAGC TTC	AGAACCATCAAATTGC GCA	59.1	561	INTERGENIC	--	--	--
Ca5_P2_43965389	Ca5	43965389	GTTTTTTTT/GTTTTTTTT	CCGTGACCAAAGTGT TTCT	ACCACCACGCTTCAA ATTA	60.4	615	INTERGENIC	--	--	--
Ca5_P2_43990776	Ca5	43990776	ATTTTTTTTT/ATTTTTTTTT	TCAATACCATTTCATC GCA	TATTATAAGGGATGG GCCG	58.8	973	INTERGENIC	--	--	--
Ca5_P2_44088941	Ca5	44088941	AAATAATAATAATAATAATAATA ATAATAATAAT/AAATAATAATAATA ATAATAATAATAATAATAATAAT AAT	GCTTGAGCTAGGCTC GACTC	CGAGTTGAATATGAA CAAAACG	59.9	165	INTERGENIC	--	--	--
Ca5_P2_44207495	Ca5	44207495	A/AATTTAGTG	GCGAGCATGAGAAGT GTTG	AACGTTTACTACATATG TGTTCCGA	59.0	356	INTERGENIC	--	--	--
Ca5_P2_44265725	Ca5	44265725	CAAAAAAAAA/CAAAAAAAAA	AGGAGTTGGGTTGGAT CCTT	CCGACCCTAAACCCGA AATA	61.0	326	DRR	Ca_03872	D	M-type
Ca5_P2_44407311	Ca5	44407311	ATTTTTTTTT/ATTTTTTTTT	TATGGAACCATCTTCCT CGG	CTAATTATTGCCCCAA CCC	60.4	532	DRR	Ca_03888	O	MYB_related
Ca5_P2_44420124	Ca5	44420124	ATATTATTATTATTATTATTATT ATTATTATTATTATTATT/ATATTATT ATTATTATTATTATTATTATTATT TATTATT	CACCCACATCCAGTA GCTT	CAACTCACCATGCATT ACG	60.0	391	INTRON	Ca_03889	U	FAR1
Ca5_P2_44499027	Ca5	44499027	CCGC/CC	GCTTCCATTAGCCACTT TCG	TAGGAGGACCAAACT GCAA	58.4	360	INTERGENIC	--	--	--
Ca5_P2_44522099	Ca5	44522099	TTTATTATTATTATTATTATTATT ATTATTA/TTTATTATTATTATTATTA TTATTATTATTATTATTA	TAGCCGCTACCAATTAT CGC	CTTTAATGGCAAATGG CGT	60.0	663	DRR	Ca_03897	R	--
Ca5_P2_44553619	Ca5	44553619	CTTTTTTT/CTTTTTTT	GGAATAGGCACATGGA GGAA	ACAAAAGACAGCAAAT GGCA	59.3	551	INTERGENIC	--	--	--
Ca5_P2_44596809	Ca5	44596809	ATT/ATT	TTGGCACATGCATTTT GTT	GACCAATCTTGTGTG GCAGA	60.2	582	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_451325	Ca5	451325	TTACACTCTATAACAATAA/TTACACTCT ATAACAATAATACACTCTATAACAATAA	AAAAAGGGGAGAAGAT GGAA	CTCAGCATTCATCCAAC CAG	59.2	587	INTERGENIC	--	--	--
Ca5_P2_45321319	Ca5	45321319	TTATATATATATATATATATAT/TTATA TATATATATATATATATATATATATAT	TGGTATCCCTATTTTAA CCGATTT	TACGGAAGAACCGACA AGTG	58.8	902	INTERGENIC	--	--	--
Ca5_P2_45375538	Ca5	45375538	CATATATATATATATATATATATATAT ATATATATATATA/CATATATATATATATA TATATATATATATATATATATATA	TCATCAAAGATTCATGG GCA	AAGAAATCACGTGGAT CATGC	60.0	325	INTERGENIC	--	--	--
Ca5_P2_4543921	Ca5	4543921	ATT/ATTT	TTCGCAACTCCACTCTT CCT	TCCTGGGCTTAATTCAA TCG	60.0	588	INTERGENIC	--	--	--
Ca5_P2_45449782	Ca5	45449782	GAAAAAAAAA/GAAAAAAAAA	TCCATATTCGGTAGCC GTTT	TGATGCACCCAAAAATA CGA	59.9	579	INTERGENIC	--	--	--
Ca5_P2_45511101	Ca5	45511101	TA/TAA	CAAGGTTTCTCTTTCGC TGC	CTCAAATTGGTCCCTT GAAA	59.9	539	INTRON	Ca_03998	T	--
Ca5_P2_45569629	Ca5	45569629	TAA/TAAAA	TCCCTCGACTACCTCC CTTC	GGCAAATGTTGATAAG TGCTCA	60.1	749	INTERGENIC	--	--	--
Ca5_P2_45616614	Ca5	45616614	CTATATATATATATATATATATA/CTAT ATATATATATATATATATA	GAGGCCATGAAGAAGA ATGC	TGAAACCATTTACCAC CAA	59.8	543	INTERGENIC	--	--	--
Ca5_P2_456196	Ca5	456196	CTTTTTTT/CTTTTTTTTT	TGCCTACAACCACACAT GCT	CGTTTTCCGATTCATGC TTT	60.1	685	INTERGENIC	--	--	--
Ca5_P2_456689	Ca5	456689	GGAAACGAAACG/GGAAACG	TGTTGAGTTTTGCACA GGC	TGAAAGAGTCGTTT TGTG	58.7	257	INTERGENIC	--	--	--
Ca5_P2_45701920	Ca5	45701920	CAAAAAAAAA/CAAAAAAAAA	AAAGTTGTTCCCTCT CGT	TGCAATTGCGAAGTTT CAGA	60.5	503	INTERGENIC	--	--	--
Ca5_P2_45714467	Ca5	45714467	TTATATATATATATATATAT/TTATA TATATATATATATATAT	CATTGCGTTCCTTCCAT TTT	TTTCATGGCAATTTGATG CTC	59.6	235	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_457302	Ca5	457302	C/CAAAGACCGTTGT	CACAAGAAAGGGAATG ACACTG	ACCACACAACCTTGGG CTTC	60.0	643	DRR	Ca_18199	--	--
Ca5_P2_45746975	Ca5	45746975	ATT/ATTACACTCTTT	GGAGTTGCAAAAGAGC ATGA	TGGTTAACTACTGGAGA GGGG	60.0	136	DRR	Ca_04024	G	--
Ca5_P2_45792229	Ca5	45792229	TAAAA/TAAAAA	TCTCCATTACGTTTGT GTTTT	TTTTGTACCAAGTCTC CGC	60.1	386	INTERGENIC	--	--	--
Ca5_P2_45876715	Ca5	45876715	AGATGCCGTTGTT/AGATGCCGTTGT GATGCCGTTGTT	TCATGAAATCCATCCT CTTTT	CGGGCATAAAAGTCTA CCGA	60.1	559	INTERGENIC	--	--	--
Ca5_P2_45967395	Ca5	45967395	GTATATATATATATATATAT/GTATAT ATATATATATATATAT	TTTGATGCTTTGTCTTT GCG	TTCTTTCCGGTGTCAT GTCA	60.1	479	INTERGENIC	--	--	--
Ca5_P2_45989618	Ca5	45989618	TAAAAAAAA/TAAAAAAAAA	TTGCTCCTCTGGTCCTC ACT	GTTGGCTTTCGTACCC TCAA	60.1	325	INTRON	Ca_04045	--	SAP
Ca5_P2_46005574	Ca5	46005574	ATTAT/A	CTCCGCATTTTCAGATT GTT	GCAAACGGTGTGTAGT GGTG	60.1	606	INTERGENIC	--	--	--
Ca5_P2_46056306	Ca5	46056306	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT ATTATTATTATT	TTGTTTGGTCCACATTC CTG	GGAGCATATCAATGGA AAATCA	58.9	779	INTERGENIC	--	--	--
Ca5_P2_46070562	Ca5	46070562	AATATATATATATATATA/AATATATAT ATATATATA	TGGCAAAATTCATACGT GGA	AAAACCGTTCCAACATC CAT	59.2	515	INTERGENIC	--	--	--
Ca5_P2_46086372	Ca5	46086372	ATTTTTTTTT/ATTTTTTTTTT	GGCATTATTGTGAAC GGG	TCCTGTCTCTTGCCC AAT	59.7	726	INTERGENIC	--	--	--
Ca5_P2_46132848	Ca5	46132848	TTTATTATTATTATTATTATTATTATT ATTATTATT/TTTATTATTATTATTATT TATTATTATTATTATTATTATT	TGTACCGTCACATTGCA CCT	TACTGTATCAACGCCG CAAG	59.9	771	INTERGENIC	--	--	--
Ca5_P2_46201762	Ca5	46201762	TATTATTA/TATTATTAATTATTA	CGACACCTCAAAGAGC AAAA	CTCGTTCAAAGGGCTA GACG	60.0	531	DRR	Ca_04072	C	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_46208612	Ca5	46208612	AAT/AATAT	ATGCAGCACAAAATGCA AGT	TTCGAATCTTATTTGA CAATTTT	57.6	502	INTERGENIC	--	--	--
Ca5_P2_46212141	Ca5	46212141	AATGATG/AATG	AAAAATCAATCCTTTCT CCAATG	AGTTTCAAAAACGGTG GTGG	59.9	107	INTERGENIC	--	--	--
Ca5_P2_46231130	Ca5	46231130	ATTTTTTTT/ATTTTTTT	GGAAGCCAAGCATTCA AGAG	TGGAAAAAGAATGAAT TGCTTA	58.0	849	INTERGENIC	--	--	--
Ca5_P2_46271953	Ca5	46271953	TTTAAATT/TTTAAATTAAAT	CCATCAAATGTTGGTCA CTCC	ATTCATCTCGCCTTTC TGT	59.8	352	INTERGENIC	--	--	--
Ca5_P2_46417387	Ca5	46417387	GTTTTTTTTT/GTTTTTTTTT	AACTCGCACCTGCACC TAAT	AATTACAAATCGCCACC TGC	60.0	684	INTERGENIC	--	--	--
Ca5_P2_46420161	Ca5	46420161	CTTTTTTTTT/CTTTTTTTTT	GAAATCAGAATCACTGG TGCAA	AAAGTCGCTTTGGGG AACA	59.6	543	INTERGENIC	--	--	--
Ca5_P2_46425096	Ca5	46425096	ATT/ATT	GCGAGAATGGACTCCA GAAA	TCTCGTATTGACGGAA TGACA	59.1	323	DRR	Ca_04100	--	WRKY
Ca5_P2_46429100	Ca5	46429100	GAAAAAAAAA/GAAAAAAAAA	TGCTCACGTTCTTTTGT TGG	TTGGTCTTGCTTCTTC AAATG	59.4	501	INTERGENIC	--	--	--
Ca5_P2_46472521	Ca5	46472521	TATAATAATAATAATAATAATA TAATAATAATAATAATAATAATA ATAATA/TATAATAATAATAATA ATAATAATAATAATAATAATAAT AATAATAATAATAATAATA	CGTGAATATTGGCCTCT GGT	TCGACAGCATACTATG GGCA	60.2	496	INTRON	Ca_04105	--	--
Ca5_P2_46490687	Ca5	46490687	CTTTTTTTTT/CTTTTTTTTT	CTCTGAACCCCTCTCAC CAC	CCAACCTCTGGCAGG TTTA	60.1	481	INTERGENIC	--	--	--
Ca5_P2_46495015	Ca5	46495015	TTTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATT ATTA	TGGTTGAATAGATGTGC CAAA	GGGCTGTTTATTGAGG TTTTT	57.3	957	INTERGENIC	--	--	--
Ca5_P2_46561532	Ca5	46561532	TTATATATATATATATATATATA ATATATATATATATATATATATA TA	TAGACTGAGGTCCACC ATGC	TGCAATCAATTTTACT CTTCATCC	60.7	506	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_46637208	Ca5	46637208	TGAG/TGAGAG	TGGACTTAGTGGCCT ATGG	TATGGGCATGAGCTGT CAAA	60.2	361	DRR	Ca_04123	V	--
Ca5_P2_46654455	Ca5	46654455	AATATATATATATATATATATATATATATATAT/ AATATATATATATATATATATATATATATAT AT	ATGCTCTTGAATCGTG GTC	CATCGTTTTCTCGTTCA TGC	59.3	781	INTERGENIC	--	--	--
Ca5_P2_46661039	Ca5	46661039	AATATATATATATATATATATATATATATATAT/ TATATATATATATATATATATATATATATATAT	TGGAATTCAAGGGACC AAAA	ACTTGCAGAGATAATTTA GTAGGGA	57.7	863	INTERGENIC	--	--	--
Ca5_P2_46735071	Ca5	46735071	CATATATATATATATATATATATATATATATAT/ CATATATATATATATATATATATATATATATAT	TTGATTGGGAATCAGC CATA	TGGCATGCATAACATC TGCT	60.3	712	INTRON	Ca_04131	A	--
Ca5_P2_46870683	Ca5	46870683	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	ATTGCAATCTGGAGGA GGTG	GGAAAATTAGCCACGG ATCA	59.9	565	INTERGENIC	--	--	--
Ca5_P2_46886435	Ca5	46886435	TA/TTAACTATACTCAAACA	CAGCCATGCTCGTATG CTAA	AGAACCCCATCCAAC AATG	59.6	444	INTERGENIC	--	--	--
Ca5_P2_46938993	Ca5	46938993	ATTTTTTTTTTTT/ATTTTTTTTTTTTTTT	TTTTCGTTACGAATTG ATGA	CGTGCTTAACCTTCTTC GTGTTT	59.9	496	DRR	Ca_04148	--	FAR1
Ca5_P2_46946905	Ca5	46946905	AATATATATATATATATATATATATATATATATA TATATATATATATAT	CATCCGTGGTCCTTTGA CTT	TGGTCATTGCATTTTCC TCA	60.0	482	DRR	Ca_04149	K	ERF
Ca5_P2_47118403	Ca5	47118403	GTATTATTATTATTATTATTATTATT/GTA TTATTATTATTATTATTATT	ATTGCAATAATGGTG GCAA	TTGGGTCAAGTAGGAG GTCG	60.1	515	INTERGENIC	--	--	--
Ca5_P2_47128619	Ca5	47128619	ATTTTTTTTTTT/ATTTTTTTTTTT	AGGTCCCTAAATAATGC CCG	TCTCAAAATAGCTTTT ATTTTAACCA	58.2	638	INTERGENIC	--	--	--
Ca5_P2_47133305	Ca5	47133305	ATTTTTTTTTTT/ATTTTTTTTTTT	TAATGATATCCACCCCG CAT	AGGACCACCTGCTGAA ACAT	59.6	935	INTERGENIC	--	--	--
Ca5_P2_47138535	Ca5	47138535	CTATTATTATTATTATTATTATTATT/CT ATTATTATTATTATTATTATTATTATTAT TA	TGAATCTTCCGCATT GTG	CCTGAAAGACTTAGAC GGCG	60.0	651	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_47737830	Ca5	47737830	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATAT	GTGGGCTTGCTATGAT GGAT	ACTCTCAACATTGGGC AACC	60.0	953	INTRON	Ca_04234	O	NAC
Ca5_P2_47746596	Ca5	47746596	CTTTT/CTTTT	TGACCCTTAGAAGAGG CTACCA	TCCTTTTATTTCACAC CATGC	60.0	179	INTERGENIC	--	--	--
Ca5_P2_47752824	Ca5	47752824	GATTCCA/GA	TGCATCAAACCTTGACCC AAT	GCTCATGAGGTCCACC ATT	59.9	410	DRR	Ca_04236	--	--
Ca5_P2_47838081	Ca5	47838081	AATATATATATATATATATATA/AATAT ATATATATATATATATATATA	TACCTCATTGTAGGCC AGC	TAGTTCGGGGCAAATG GTAG	60.0	168	INTERGENIC	--	--	--
Ca5_P2_479350	Ca5	479350	CATATATATATATATA/CATATATATATA TATATA	TTGTCACACAATAAGGC GGA	TCATCACGATCTGAATC CCA	60.0	674	DRR	Ca_18200	U	--
Ca5_P2_47945436	Ca5	47945436	AATATATATATATATATATATATA/AAT ATATATATATATATATATATATATATA TATA	ACATCAAAGGCGGATC CATA	TCCTCGCAACACACAC ATT	60.2	392	INTERGENIC	--	--	--
Ca5_P2_48059653	Ca5	48059653	TTCTC/TTC	CGAAACTCCACTGCAG ACAA	GCATATTTGCAAGCAC CAAA	59.7	804	DRR	Ca_04266	R	ERF
Ca5_P2_48069008	Ca5	48069008	GNNNNNNNNNNNNNN/GNNNNNNN	GCAAACTCACATCCAA CTCC	TTGTCACACAAGCATTC GGT	60.2	448	INTERGENIC	--	--	--
Ca5_P2_48071548	Ca5	48071548	TG/T	TCCTCGATTAGGCTCAC AAAA	CGAAGGAGCAAAATAC GAGC	60.0	730	DRR	Ca_04268	--	--
Ca5_P2_48121332	Ca5	48121332	TTTTATTTATTTATTTATTTATTTAT TTAT/TTTTATTTATTTATTTATTTA TTTAT	ATTTTATGGCCAACCA ACA	ACTCGGCTTCCATTGA TGAG	60.2	178	INTERGENIC	--	--	--
Ca5_P2_48164734	Ca5	48164734	AGG/AG	GGTTGCAATTATGGGA AATGTT	AACTCTAAATCCCCG AAGG	60.4	485	INTERGENIC	--	--	--
Ca5_P2_4857245	Ca5	4857245	GAAAA/GAAAAA	CCCACATTTCTTTGGCA GTT	TGTGCCTAAACTTGCT GGTG	59.9	501	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_4869565	Ca5	4869565	GAAAAAA/GAAAAAAA	ATGCAAAATCGACAAT GAA	TGCAAGCAACTTGAGT CCAC	60.0	447	INTERGENIC	--	--	--
Ca5_P2_490277	Ca5	490277	TAAAAAAAAA/TAAAAAAAAA	TGGTTGAAACATTCCCT ATGC	GAGCATATAGCCCAAC CCAA	59.9	695	DRR	Ca_18202	R	--
Ca5_P2_4968830	Ca5	4968830	AATATATATATA/AATATATATATAT A	TTTCCAAAGTACAACG ATCA	TTGGAGAACTTTTCC GCTG	60.4	529	INTERGENIC	--	--	--
Ca5_P2_497099	Ca5	497099	GAAAA/GAAA	TTGAGTGCAGCTGGAG AAGA	TCACTCAAAACCAAGC ACG	59.9	110	INTERGENIC	--	--	--
Ca5_P2_4979941	Ca5	4979941	GTTTTTTTTT/GTTTTTTTTT	GGCTGTTTCATGTTGG TTTT	GATGAGTGTTAACGGG TGGC	60.4	796	INTERGENIC	--	--	--
Ca5_P2_4979998	Ca5	4979998	TAAAAAAAAA/TAAAAAAAAA	GGCTGTTTCATGTTGG TTTT	GATGAGTGTTAACGGG TGGC	60.4	796	INTERGENIC	--	--	--
Ca5_P2_4992401	Ca5	4992401	TTATATATATATATATATATATA/TTAT ATATATATATATATATATATA	ATCGATGTAGTCAAAC CCG	GCCCCCGTGTATCCT TATT	60.0	284	INTRON	Ca_25545	A	bHLH
Ca5_P2_5013490	Ca5	5013490	TATAAATAAATAAATAAATAAATAA A/TATAAATAAATAAATAAATAAAT AAATAAA	GAGGGATGTCATTCATT TTCG	TGTGATCATTGGGAA CTCA	59.9	515	INTERGENIC	--	--	--
Ca5_P2_5061240	Ca5	5061240	CTTTTTTTTT/CTTTTTTTTT	CATGCAACCCATTGTG AAG	AAAAAGAAGCGGTGA CAAA	59.7	845	INTERGENIC	--	--	--
Ca5_P2_5150271	Ca5	5150271	ATTTTTTTT/ATTTTTTTT	TGACGTTAAGACCAAA TCGG	TCAAATGAGTCAAATCA AGACAAAA	60.0	649	INTERGENIC	--	--	--
Ca5_P2_5190851	Ca5	5190851	CTATATATATATATATATATAT/CTATA TATATATATATATATATATAT	AGCGCTATGTGACCT TTTG	AATGTGAATCCCACCA GGAA	60.2	555	INTERGENIC	--	--	--
Ca5_P2_5292404	Ca5	5292404	GA/G	GGGAGGATTGTAACAG CGAA	GCTGCAAGAATCAACG TCAA	60.0	177	DRR	Ca_22623	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_5318962	Ca5	5318962	TC/T	ACGTTGACCAATTCAGC TCC	CACTAGGGACCCCTTTG GTGA	60.0	720	INTERGENIC	--	--	--
Ca5_P2_5360529	Ca5	5360529	ATTGAAGGATGAA/ATTGAAGGATGAAG GTTGAAGGATGAA	CGGGATTGTGAAGAAG TGGT	TCCTTATCCGCTAGGC TTCA	59.9	399	INTERGENIC	--	--	--
Ca5_P2_5408571	Ca5	5408571	TTATATATATATATATATATA/TTATATAT ATATATATATATATA	CCATTTTCCCTCGCTCA TAA	CGTTGGTCATGATCCT TCCT	59.9	680	INTERGENIC	--	--	--
Ca5_P2_5446648	Ca5	5446648	ATT/ATTT	GCCCTCAGATGAGAGT CAGG	ACCACAATGTAAACACC CCGT	60.0	456	INTERGENIC	--	--	--
Ca5_P2_5479150	Ca5	5479150	TAAAAAAA/TAAAAAAA	TATGCCCCATAAGGAAC CAA	GCAACCATCCAAAAAG GAGA	60.1	495	INTERGENIC	--	--	--
Ca5_P2_5486343	Ca5	5486343	TAAAAAAA/TAAAAAAA	GCACTTGGGATACGT AGGA	GTCCAGTAGTCCGCGA AAAG	59.9	347	DRR	Ca_22629	--	M-type
Ca5_P2_5602407	Ca5	5602407	CATATATATATATATATATATATATATATAT ATAT	GTTGGTTCCTAGCAC CGTA	CAATTGAGTTGCGACG AGAG	59.6	552	INTERGENIC	--	--	--
Ca5_P2_5625295	Ca5	5625295	TATA/TATACATA	CGAAATCTCACTCGTG CAA	TTGTGTTGAATTTGTGA GGCA	60.1	508	INTERGENIC	--	--	--
Ca5_P2_5811584	Ca5	5811584	ATTTTTTT/ATTTTTTT	CCGATGTTGAGGATTC GTT	AATCTGGGTGCGTTCA AAAC	60.0	906	INTERGENIC	--	--	--
Ca5_P2_5827208	Ca5	5827208	TA/TAA	GGGGCTTATCTGTGGT TGTG	CCTCAGATGAGAGCCA GGAC	59.9	674	INTERGENIC	--	--	--
Ca5_P2_5836817	Ca5	5836817	TACCCTAAACC/TACCCTAAACCCTAA CC	GTATGAGGAGGATCTT GCGG	TCAAAATGCACCATAAA CCG	59.4	594	INTERGENIC	--	--	--
Ca5_P2_5837067	Ca5	5837067	ACCTAAACCCTAAACCCTAAACCCTAA/ ACCTAAACCCTAAACCCTAA	AAAGAAAACTCGCG CTG	AGCGTTTTGGGTTTAG GGTT	59.9	825	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_6532288	Ca5	6532288	AAAAAGAACAAAA/AAAA	TGTCTTCAACTTCTGGG GTG	TTGCAACGTGTCATTGT CCT	60.2	831	INTERGENIC	--	--	--
Ca5_P2_657531	Ca5	657531	C/CAAT	CTTGTCATCCAATAGG CGT	AGGGAGGACGAAAATG ACCT	59.9	653	INTERGENIC	--	--	--
Ca5_P2_666553	Ca5	666553	TGTTCTGA/TTCGTTCTGA	TTGGTCGACAAGCAAC TGAG	AAAATCCAACAATCTCC CCC	60.0	732	DRR	Ca_23223	--	--
Ca5_P2_668104	Ca5	668104	ATT/AT	CAGATTCGTGAGGAGC AACA	TGAATCCCCCTCTGATC CTTG	60.0	331	DRR	Ca_23223	--	--
Ca5_P2_6693	Ca5	6693	ACTCTCTCTCT/ACTCTCTCTCTCT	GGAGGTATCATCACGA GGGA	CCTCAGAGAGGAGAAT AGGGTG	59.3	523	INTERGENIC	--	--	--
Ca5_P2_6727251	Ca5	6727251	CGG/CGGG	TTTGATTTTGACTCGG AGG	AGGAAGAGTGGAGTTG CGAA	60.0	509	INTERGENIC	--	--	--
Ca5_P2_6754121	Ca5	6754121	TA/T	AAAGAGGCAAAGCTGA TGGA	CACGTGTCGTCTTCTG CTTC	59.6	546	INTERGENIC	--	--	--
Ca5_P2_6763101	Ca5	6763101	AGGG/AGGGG	CAAATGTCGGGAGCTA CCAT	GGATCCCAATCGATA ACCT	60.0	437	INTERGENIC	--	--	--
Ca5_P2_6764095	Ca5	6764095	GTATATATATATATATATATAT/GTAT ATATATATATATATATATATAT	TCAATTTGGGTTCAAG GTGT	ATGATGGGCCAGACGT TAAG	60.0	841	INTERGENIC	--	--	--
Ca5_P2_6765423	Ca5	6765423	GCAACA/GCAACAACA	CGAAGCTGCCAGGTAA AAAG	TGAGTCCATTCTCCAAA CCA	59.1	652	INTERGENIC	--	--	--
Ca5_P2_6765489	Ca5	6765489	ATATATAT/ATATATATTTATATAT	CGAAGCTGCCAGGTAA AAAG	TGAGTCCATTCTCCAAA CCA	59.1	652	INTERGENIC	--	--	--
Ca5_P2_6772280	Ca5	6772280	CTTTTTTTTTTT/CTTTTTTTTTT	CCAATGGCTTCGACATT TCT	AAGTACCCCTCGTTG TTTG	60.0	726	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_6772456	Ca5	6772456	GCACACA/GCACA	TGCACAACAAAAGCACA ACA	TGTACCATCATAGTGG CGGA	59.9	512	INTERGENIC	--	--	--
Ca5_P2_6773384	Ca5	6773384	AATATATATATATATAT/AATATATATATA TATATATATATATATAT	TATTTTGGATTTTGGCT CGG	AAACCGGTAAAATCTC CGCT	60.0	681	INTERGENIC	--	--	--
Ca5_P2_6773829	Ca5	6773829	G/GA	TCGCGAAGAGATAGAA GGGA	CGCGAGTAAACCGGT AAAA	60.1	104	INTERGENIC	--	--	--
Ca5_P2_6811205	Ca5	6811205	CATATATATATATATATATATATATATAT ATAT/CATATATATATATATATATATATAT ATATATATATATATAT	GGGAAGAAGGAAGGAG TTGG	GCTGTTAGCCAGTTT TTGG	59.7	537	INTERGENIC	--	--	--
Ca5_P2_6833150	Ca5	6833150	TTTATTATTATTATTATTATTATT/TT TATTATTATTATTATTATTATTATT	TGCTAGGAACCGAGCC TTTA	TTGGCATCGTGATTTA TGC	59.5	924	INTERGENIC	--	--	--
Ca5_P2_6833700	Ca5	6833700	ATATT/AT	GCATAAAATCACGATGC CAA	CGATTTTTCGTCTACAT GTGC	58.3	211	INTERGENIC	--	--	--
Ca5_P2_6833833	Ca5	6833833	AATA/AATATA	AAATCACGATGCCAAG AAAA	AAGAAAGTTGTAATGT GTTTTATGGA	58.7	616	INTERGENIC	--	--	--
Ca5_P2_6833924	Ca5	6833924	ATTT/ATT	AAATCACGATGCCAAG AAAA	AAGAAAGTTGTAATGT GTTTTATGGA	58.7	616	INTERGENIC	--	--	--
Ca5_P2_6834075	Ca5	6834075	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTA/ATAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTA	GCACATGTAGACGAAA AATCG	ATGGCATGGTGATTTA TGC	58.3	775	INTERGENIC	--	--	--
Ca5_P2_6834263	Ca5	6834263	CT/C	GCTTAATCCATAAAACA CATTACAA	TTCTCATGCGCTTGACT AATG	59.1	526	INTERGENIC	--	--	--
Ca5_P2_6834706	Ca5	6834706	TAAAAA/TAAAAAA	TGCATAAAATCACCATG CCA	TTGTACGTTTCTTTCT ATGATTTGC	60.0	360	INTERGENIC	--	--	--
Ca5_P2_6834978	Ca5	6834978	ATATTATTATTATTATTATT/ATATTA TTATTATTATTATTATTATT	TAGTCAAGCGCATGAG AAAA	GGCATGATGATTTTATG CATATTT	59.2	748	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_6837967	Ca5	6837967	TAAAAAAAAA/TAAAAAAAAA	TCGAGAACACTCGTCT CGTG	AATTTCAGTGTGCGCA AAAA	59.3	254	INTERGENIC	--	--	--
Ca5_P2_6872599	Ca5	6872599	ATTATTTATTATT/ATTATTTATTATT ATT	CGGCCATCACACAATG ATAA	TCAGGATGTCACACG AAGA	60.2	454	INTERGENIC	--	--	--
Ca5_P2_6898393	Ca5	6898393	ATTTT/ATTTT	CAAGGCATCGGCTAAA CAAT	GTATTTTGGCGGTCTG GAAA	59.9	141	INTERGENIC	--	--	--
Ca5_P2_6907615	Ca5	6907615	A/AGTG	GGTTGTGTTATCCCTC GACA	AGGGTGCCACATTTAC TCCA	60.4	539	INTERGENIC	--	--	--
Ca5_P2_6907876	Ca5	6907876	GA/GAATA	GGTTGTGTTATCCCTC GACA	AGGGTGCCACATTTAC TCCA	60.4	539	INTERGENIC	--	--	--
Ca5_P2_6908168	Ca5	6908168	GTAAT/GTAATTAAT	GGAGTAAATGTGGCAC CCTG	CCAACACTAGTCGCAA AGTCA	59.0	588	INTERGENIC	--	--	--
Ca5_P2_6909501	Ca5	6909501	TATATATAATTTAAATATATAATTTAAAT/ TATATATAATTTAAAT	AATGATGGAGGGAGTG AAGC	AACTGTCCATTTGTGA GGGC	60.0	405	INTERGENIC	--	--	--
Ca5_P2_6910554	Ca5	6910554	A/AC	CTTTCAGGAACCAACAA CCA	CCAATTACCAAACGC CAAC	60.2	328	INTERGENIC	--	--	--
Ca5_P2_6911508	Ca5	6911508	AACAATGAGGAG/AACAATGAGGAGAC AATGAGGAG	CCAATACATGGGTTAG GATCAA	TCATCAAGCATGTGCC CTTA	60.2	525	INTERGENIC	--	--	--
Ca5_P2_6914550	Ca5	6914550	CTT/CTTT	TGGAAGAAGTCTGCA TTGA	CCGAGTGATTACGAAA TTGACA	60.0	417	INTERGENIC	--	--	--
Ca5_P2_6964667	Ca5	6964667	CTAATA/CTAATAATA	CAAAATGCAGCAGCAAT CAT	CCAACGGCAAATATTG TGGTA	60.6	634	INTERGENIC	--	--	--
Ca5_P2_6969282	Ca5	6969282	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATATAT	CCGAAACGTAGAATGT CGGT	TCCAATGTTGGGGAAT TCAT	60.0	392	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_7060900	Ca5	7060900	GAAAAAAAA/GAAAAAAAA	GGTGCCAGAGACTAG GACA	CATTGTTACATAAAGG GCG	59.0	216	INTERGENIC	--	--	--
Ca5_P2_7065134	Ca5	7065134	TAAAAAAAA/TAAAAAAAA	TCCCAATCAAAACGAA GAC	CATTATCGGAAAGGC TTGA	60.0	668	INTERGENIC	--	--	--
Ca5_P2_7125347	Ca5	7125347	CGGGG/CGGGGG	TGGGAGAAAGGAGGAG AGGT	AACAGACCTCCAATG CCAC	60.0	117	INTERGENIC	--	--	--
Ca5_P2_7175093	Ca5	7175093	G/GAATGATA	CCAGCTCCTTTGGTCT CAC	AAAAATGTTGGGGCAA GATG	59.8	925	DRR	Ca_21564	--	SAP
Ca5_P2_7235400	Ca5	7235400	GAAAAAAAA/GAAAAAAAA	GCAACATGGGATGATT CAGA	TGATTGAAACCAAGGC CATC	60.8	476	INTERGENIC	--	--	--
Ca5_P2_7261145	Ca5	7261145	ATTT/ATT	CGCTGTAAAAGACATG CGCT	ACATCCATTTCGGTC CATA	60.0	486	INTERGENIC	--	--	--
Ca5_P2_7365427	Ca5	7365427	ATTTATTTTATTTTAT/ATTTATTTTA TTTTTATTTTAT	AGAGGCAACAAGAAC CGAA	GATCGTGGGTGGAAT ATGG	60.0	401	INTERGENIC	--	--	--
Ca5_P2_7492944	Ca5	7492944	T/TG	TGAGGAGAGTGAGGG CTTA	TCAACCAGGATTTGC TAGG	60.1	755	INTERGENIC	--	--	--
Ca5_P2_7495764	Ca5	7495764	ATTTT/ATTTTTT	AAGGGACAGGGTAA ATGG	TTGTCATCTGGCAATC CTGA	60.2	914	INTRON	Ca_18748	O	--
Ca5_P2_7499782	Ca5	7499782	CATATATATATATATATATA/CATATA TATATATATATATA	TGCGAAACAATTCAGA TGG	TTGATTGTTGCTTGCAA AGG	59.8	266	DRR	Ca_18748	O	--
Ca5_P2_7518243	Ca5	7518243	ATTT/ATT	TTTCCCGACTTGGTCCT TTA	TCGATCATTTTACTCAT CGATCTT	59.1	664	INTERGENIC	--	--	--
Ca5_P2_7523564	Ca5	7523564	ATTTTTTTTT/ATTTTTTTT	TGGATGAAGTTTTTCGG TGG	CCTTACCGCTACCTCC ATCA	60.1	615	INTRON	Ca_18747	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_7523624	Ca5	7523624	ATTT/ATT	TGGATGAAGTTTTTCGG TGG	CCTTACCGCTACCTCC ATCA	60.1	615	INTRON	Ca_18747	O	--
Ca5_P2_7541226	Ca5	7541226	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATAT ATATATATATATAT	GCCTCATACTCAAGACA TTGGA	GCTTGGAGAGAATGAG TCCG	60.0	649	INTERGENIC	--	--	--
Ca5_P2_7554074	Ca5	7554074	CA/C	GAGACATGACAGGAGC CCAT	GCATTTCTGGATCTG TGGT	59.9	441	INTRON	Ca_18744	--	HB-other
Ca5_P2_7564066	Ca5	7564066	C/CA	GCAACATGGGATGATT CAGA	GTTTCGGAAGCATTCT GGAG	59.8	704	INTERGENIC	--	--	--
Ca5_P2_7564406	Ca5	7564406	TAAAAA/TAAAAA	AATGCAAAACCAGATGC TCA	TGCTTTTCAACTTTCTC CGT	60.0	197	INTERGENIC	--	--	--
Ca5_P2_7566927	Ca5	7566927	GAAAAA/GAAAAA	AGGAAAAATCAACGCCA CAC	AGCACATGATCCACA ACAA	60.0	427	INTERGENIC	--	--	--
Ca5_P2_7578241	Ca5	7578241	TTTTTTATTTTA/TTTTTTATTTTAGTTTT TATTTTA	GGGAATAGGGGCTCAA TTTT	CATGGAAAATGACATT GGTG	57.2	751	INTERGENIC	--	--	--
Ca5_P2_7578373	Ca5	7578373	A/AGAATAAAT	GGGAATAGGGGCTCAA TTTT	TGACACATGATTCCCTT TCAA	59.0	832	INTERGENIC	--	--	--
Ca5_P2_7578394	Ca5	7578394	TAAAAA/TAAAAA	GGGAATAGGGGCTCAA TTTT	TGACACATGATTCCCTT TCAA	59.0	832	INTERGENIC	--	--	--
Ca5_P2_7580264	Ca5	7580264	TAAAAA/TAAAAA	ATGTCTACCTTAGCGG CACG	TGATTAAGGTATGCATT GCCA	59.0	533	INTERGENIC	--	--	--
Ca5_P2_7587634	Ca5	7587634	ATTTTTTTTTTTTT/ATTTTTTTTTT	TCAGAGGCAAAAGCCT TGAT	CAATTGGAAAAGGCT CAAA	60.0	636	INTRON	Ca_18743	--	--
Ca5_P2_7590627	Ca5	7590627	GT/GTT	GTGTACCTGGCGGTGC TAAT	TGGACACAGTTGAGAA TTTTGC	60.2	703	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_7591406	Ca5	7591406	T/TA	CAACTGTGTCCAAGAA TGACA	TTTTTGTATGAATACG AGTTGGG	59.4	946	INTERGENIC	--	--	--
Ca5_P2_7595427	Ca5	7595427	CAAAAA/CAAAAAA	TTTTTCGATTTTCATCC GGT	GGTGACCACGATCCAT AATCA	60.6	549	INTERGENIC	--	--	--
Ca5_P2_7596905	Ca5	7596905	ATTTTTTT/ATTTTTTTTT	CCATTTCTGCACACACC ATC	AAGTTGTCGCAACTCA GACG	59.1	799	INTERGENIC	--	--	--
Ca5_P2_7596978	Ca5	7596978	CAAAACAAA/CAAAACAAAACAAA	CCATTTCTGCACACACC ATC	AAGTTGTCGCAACTCA GACG	59.1	799	INTERGENIC	--	--	--
Ca5_P2_7605369	Ca5	7605369	T/TCAAAA	CGAAGATGGGAACCA CACT	TATTTGAGCCGAACCG AATC	60.0	760	INTERGENIC	--	--	--
Ca5_P2_7610887	Ca5	7610887	ATTTTTTT/ATTTTTTTTT	ATATTGGCAATCAAAGC GGA	ACACCTCCTCAAAGCG AAGA	60.0	675	INTRON	Ca_18742	--	MIKC
Ca5_P2_7619197	Ca5	7619197	ATTTTTTT/ATTTTTTTTTTT	TGAATTCGCGTATGCAA AGA	TTTTCAAGTTGTGAACG GGG	59.8	763	INTERGENIC	--	--	--
Ca5_P2_7624276	Ca5	7624276	AGTGCC/AGTGCCATGTGTGCC	CCTGCAACATAATCCA TTTCA	AGCTGCAACACATCTC ATCG	60.0	460	INTERGENIC	--	--	--
Ca5_P2_7631078	Ca5	7631078	CATATATAT/CATATAT	CGGAAGAATGGCCTTC ATAA	GCCTTTGCGTGTGTT ACTA	59.9	352	DRR	Ca_18740	--	--
Ca5_P2_7631171	Ca5	7631171	A/ATGG	CGGAAGAATGGCCTTC ATAA	GCCTTTGCGTGTGTT ACTA	59.9	352	DRR	Ca_18740	--	--
Ca5_P2_7631294	Ca5	7631294	CAAA/CAAAA	CGGAAGAATGGCCTTC ATAA	TAGGACTTGCAATCAA CCCC	59.9	760	DRR	Ca_18740	--	--
Ca5_P2_7631324	Ca5	7631324	CAAAA/CAAAA	CGGAAGAATGGCCTTC ATAA	TAGGACTTGCAATCAA CCCC	59.9	760	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_7631864	Ca5	7631864	TC/TCC	GGGGTTGATTGCAAGT CCTA	TTCTGCACATTGCAAA GAAC	60.0	505	INTERGENIC	--	--	--
Ca5_P2_7634800	Ca5	7634800	TAAAAAA/TAAAAAAA	CCTACGATAGATGTTT CCGA	GAGCTTTGGGAGAGTT GGAG	59.0	609	INTERGENIC	--	--	--
Ca5_P2_7639023	Ca5	7639023	AG/AGCTG	TATGGCCTCTGATACCC CTG	CTGTTGAGGTTGGCTT GGTT	60.1	488	DRR	Ca_18738	--	B3
Ca5_P2_7639450	Ca5	7639450	AAGTTAGTT/AAGTTAGTTAGTT	AACCAAGCCAACCTCAA CAG	CCCTTTCATGCCAACAA AAT	59.8	392	DRR	Ca_18738	--	B3
Ca5_P2_7658069	Ca5	7658069	CAT/CATAT	TCTAACGCCTGCTCGTA GGT	ATTCAATGAAGCCGTG GAAG	60.1	848	INTERGENIC	--	--	--
Ca5_P2_7659017	Ca5	7659017	TAA/TA	AGGCTCACGTTTTCCAT CAC	TGTGTTGCTCGTGAAC TTCC	59.9	761	INTERGENIC	--	--	--
Ca5_P2_7661352	Ca5	7661352	TACAACAA/TACAACAACAA	AAACTTAGTCGGAGGC GGAT	GGAACCACTGCGTTGA AAAT	60.0	755	INTERGENIC	--	--	--
Ca5_P2_7661539	Ca5	7661539	CA/CATA	GATAGGTGGTGGGTGG GTC	GGAACCACTGCGTTGA AAAT	60.0	720	DRR	Ca_18734	A	--
Ca5_P2_7661611	Ca5	7661611	ATTTTTTT/ATTTTTTT	CCCCAAAATCTTAAATC CGA	GGAACCACTGCGTTGA AAAT	60.0	327	DRR	Ca_18734	A	--
Ca5_P2_7662046	Ca5	7662046	TAGAAG/TAG	ATTTTCAACGCAGTGGT TCC	TTCGGTTTTGGGATGT GTTT	60.2	671	DRR	Ca_18734	A	--
Ca5_P2_7663256	Ca5	7663256	GTTT/GTT	TTGTTGCACTGACCGA GTGT	GAAATTTTACTCGCCGT GGA	60.1	795	DRR	Ca_18734	A	--
Ca5_P2_7664956	Ca5	7664956	TATTTA/TATTTATCATTTA	ACCATACCTTCAGTGG CCTG	TTGCTGCAACTTTCTG GTTG	60.0	888	INTRON	Ca_18734	A	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_7666528	Ca5	7666528	TAAAAAA/TAAAAAA	CGGGACCACATTAAAG GCTA	CCAACATCCCAGCTA AAGA	60.1	648	INTRON	Ca_18734	A	--
Ca5_P2_7667782	Ca5	7667782	TCACACA/TCACACACA	GACCAGGTGGCAGGAA AATA	AAAGGCAAATTTGGGA GGAG	60.4	901	INTRON	Ca_18734	A	--
Ca5_P2_7670175	Ca5	7670175	CAAG/CAAGTAAG	AAATTTGCGCAATGTTG TGA	AAAGGAAGCTGAGCAA GCTG	59.9	921	INTRON	Ca_18734	A	--
Ca5_P2_7672154	Ca5	7672154	ATA/ATACACTA	CTTTCGTTTTCCCTT TCC	CCAAATAAAGTGCTGA CGTGG	60.5	817	INTERGENIC	--	--	--
Ca5_P2_7673373	Ca5	7673373	AT/A	ATCCTGAAACATTTGGT CCG	TGGTTGCGTATGTGAG TGTG	59.2	674	DRR	Ca_18733	K	MIKC
Ca5_P2_7674333	Ca5	7674333	CAAAAAA/CAAAAA	GCAAAAGCCACACATCA GAA	TCAAAATTTGCCTCTTT CTCTTTC	60.2	252	INTRON	Ca_18733	K	MIKC
Ca5_P2_7675281	Ca5	7675281	TTATATATA/TTATATATATA	ACGAGAGGCTAATGCC TGAA	TCTTTGCCTTCGGAGT AAGG	59.4	532	INTRON	Ca_18733	K	MIKC
Ca5_P2_7680248	Ca5	7680248	TAAAAAA/TAAAAAA	CGAAAGTGAAGGCAA AAAG	CACTGTGAGTGCACT GTGA	59.5	658	INTRON	Ca_18733	K	MIKC
Ca5_P2_7680447	Ca5	7680447	AG/AGG	TGTTCTCGTCAACTTC ATCC	AATCAACCGCTTTAGCT TGC	59.5	867	INTRON	Ca_18733	K	MIKC
Ca5_P2_7681759	Ca5	7681759	TAAAAA/TAAAAA	CCTCTCCCCATTTTCA ACA	TCATCATCGATTGGATT TGC	59.4	160	INTRON	Ca_18733	K	MIKC
Ca5_P2_7682051	Ca5	7682051	CAAAAAA/CAAAAAA	CCTCTCCCCATTTTCA ACA	TGGGATTCCAAATTTT CCA	60.1	856	INTRON	Ca_18733	K	MIKC
Ca5_P2_7682290	Ca5	7682290	AC/A	GCAATCCAATCGATGA TGA	TGGGATTCCAAATTTT CCA	60.1	716	INTRON	Ca_18733	K	MIKC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_7682361	Ca5	7682361	GAAAAAAAAAAAAAAAAA/GAAAAAAAAA	TTTCTTTTGGAACCA TCTCA	TGGGATTCCAAATTTT CCA	60.1	283	INTRON	Ca_18733	K	MIKC
Ca5_P2_7683737	Ca5	7683737	CAA/CAAA	CACCACACAAAGACGG AAAA	GCAGCCTTTCCAACA AAAA	60.2	270	INTRON	Ca_18733	K	MIKC
Ca5_P2_7683985	Ca5	7683985	TAAAAAA/TAAAAAAA	TTTTTGTGTTGAAAGGC TGC	AATTCTCCCACTTCAGC CAC	59.1	496	INTRON	Ca_18733	K	MIKC
Ca5_P2_7684691	Ca5	7684691	A/AT	TTAGTGGCTGAAGTGG GAGAA	TCACTAAACCACCGC ATCA	60.1	801	INTRON	Ca_18733	K	MIKC
Ca5_P2_7690732	Ca5	7690732	A/AC	AAGAGCCGAAGAACAT TTGG	ACACCAAGTCTGCTCA ATTG	60.1	331	INTRON	Ca_18733	K	MIKC
Ca5_P2_7690999	Ca5	7690999	GAAAAAAAA/GAAAAAAAAA	TGAACATCCATGGTCG AAGA	CCCACCAGTCTCACCA AACT	60.0	449	INTRON	Ca_18733	K	MIKC
Ca5_P2_7694989	Ca5	7694989	ATTTTTTTT/ATTTTTTTT	CCGACCAAGTGTGTTG CTTT	CATTGGTCATTGTGCG CATC	59.9	596	INTRON	Ca_18733	K	MIKC
Ca5_P2_7695472	Ca5	7695472	A/AGTTG	GATGCGACAAATGACC AATG	CAAAGGGTTCTTAACA CATGGA	59.0	239	INTRON	Ca_18733	K	MIKC
Ca5_P2_7695635	Ca5	7695635	T/TG	GATGCGACAAATGACC AATG	GGCAAAATGCAAAAG GAAA	60.1	802	INTRON	Ca_18733	K	MIKC
Ca5_P2_7696426	Ca5	7696426	TAA/TA	TGGTGGCAATGCTTGT TCTA	TCTCTTGCCACTCAAT CCA	59.4	476	INTRON	Ca_18733	K	MIKC
Ca5_P2_7696679	Ca5	7696679	AGTATGTA/AGTA	TGTCTTGTCTAGCCGT CAA	ATGGAATTGAAAGGT GGGT	60.4	904	INTRON	Ca_18733	K	MIKC
Ca5_P2_7696740	Ca5	7696740	A/AAT	TGTCTTGTCTAGCCGT CAA	ATGCACAAGTAGGGTC GAGG	60.1	978	INTRON	Ca_18733	K	MIKC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_7698935	Ca5	7698935	TAAA/TAAAA	GATGAAGGAGAAAACA GTGCAA	TATCATAGGCCGTAGG CCAG	60.1	820	INTRON	Ca_18733	K	MIKC
Ca5_P2_7703385	Ca5	7703385	TCAACAACAGCAACAA/TCAACAA	GTTTCGTTGCAGGCAG TGTA	ACACACCTCCGACTAA TGCC	60.0	365	INTRON	Ca_18733	K	MIKC
Ca5_P2_7707739	Ca5	7707739	A/ATCCTTCATATTGGG	CATGTGCTTGAGATT GGCT	TTGAGATTGTTGCCTT GCAG	60.0	344	INTRON	Ca_18733	K	MIKC
Ca5_P2_7726586	Ca5	7726586	GTT/GTTT	CTGGAATACTCTCTCC TCC	TTGTCTCAACAATCTCC CCC	59.9	339	DRR	Ca_18731	--	--
Ca5_P2_7729633	Ca5	7729633	T/TG	AATATATCCCATCACCG CCA	AGATGGATTCCAATG CCAG	59.9	837	INTERGENIC	--	--	--
Ca5_P2_7729704	Ca5	7729704	TA/T	AATATATCCCATCACCG CCA	AGATGGATTCCAATG CCAG	59.9	837	INTERGENIC	--	--	--
Ca5_P2_7732171	Ca5	7732171	AA/AATCA	CCCGACCCATTGTTTTA TTG	CCCATATGTTAGAGGG GCAA	59.8	281	INTERGENIC	--	--	--
Ca5_P2_7732580	Ca5	7732580	TAAAAA/TAAAAA	AGGCTCACTAAGCCCA CAAA	TCACAACCACAACCAC ATCA	59.4	697	INTERGENIC	--	--	--
Ca5_P2_7732645	Ca5	7732645	C/CA	AGGCTCACTAAGCCCA CAAA	TCACAACCACAACCAC ATCA	59.4	697	INTERGENIC	--	--	--
Ca5_P2_7733996	Ca5	7733996	ATTTTTT/ATTTTTT	GACGATCCATCTCAGC ACAA	CAATCAGCAACATCGG CTAA	59.8	890	INTERGENIC	--	--	--
Ca5_P2_7738670	Ca5	7738670	TTA/T	GCCTCACTAAACTCAA CCACC	AACAAAAACGACGAAAT GCC	60.0	165	INTERGENIC	--	--	--
Ca5_P2_7740264	Ca5	7740264	TT/TTCT	AAGGTCATAGGAGTGG GAGTAGG	TCTAAGCTACAGCATG GCCC	60.4	362	INTRON	Ca_18730	--	bZIP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_7752773	Ca5	7752773	AT/ATT	CAAACGCATGCTCTGT CTG	ATGCCGATTATGCTGG AGAC	60.1	647	INTERGENIC	--	--	--
Ca5_P2_7773528	Ca5	7773528	ATTTTTTTTT/ATTTTTTTTT	AGCGTACCGGAAGAAT CCAT	CTGTCCCAATAGGGGT AGCA	59.9	752	INTERGENIC	--	--	--
Ca5_P2_7774027	Ca5	7774027	GTTATAT/GTTATATTTATAT	TGGCGACTCCGTATTG TAAA	TGAGCATGATTTTACG CCAA	60.2	586	INTERGENIC	--	--	--
Ca5_P2_7774418	Ca5	7774418	TT/TTTTCCATTGTATAGACT	TGGCGACTCCGTATTG TAAA	TGAGCATGATTTTACG CCAA	60.2	586	INTERGENIC	--	--	--
Ca5_P2_7785234	Ca5	7785234	AT/A	AATTTACCCCAAAGGA ACC	TCCGACGAAGTAGAGG ATTCA	59.8	235	INTERGENIC	--	--	--
Ca5_P2_7786396	Ca5	7786396	GAAAAAAA/GAAAAAAA	ACACAAATGGTACTGCC CAA	AAAGCATTGGGGTGAT ATGC	59.8	596	INTERGENIC	--	--	--
Ca5_P2_7788383	Ca5	7788383	AT/A	GCATATCCACGCAAAAT TGA	TACTTGATGCAACACC CCAA	60.0	282	INTERGENIC	--	--	--
Ca5_P2_7788395	Ca5	7788395	TAAA/TAA	GCATATCCACGCAAAAT TGA	TACTTGATGCAACACC CCAA	60.0	282	INTERGENIC	--	--	--
Ca5_P2_7789830	Ca5	7789830	TG/T	CCCCACGTCAAACCTAA AAA	CCCATCACTACCCCAA AGAA	59.8	714	INTERGENIC	--	--	--
Ca5_P2_7789928	Ca5	7789928	AATTTTGTGA/AATATTTTATTTTGTGA	CCCCACGTCAAACCTAA AAA	GCAATGAATTGGGGAA AAGA	59.9	925	INTERGENIC	--	--	--
Ca5_P2_7824894	Ca5	7824894	ATTTCTTTTCTCTTT/ATTTCTTTTT CTCTTTTCTCTTT	AAACAAGGTGACTCGTT GGG	ACCATGCAAAGACATC CACA	60.0	718	INTERGENIC	--	--	--
Ca5_P2_7828844	Ca5	7828844	TAAA/TAA	TGAAAACTCGAAAGAG CGGT	GCCGATGCGTAGATCG TAAT	60.1	791	DRR	Ca_18728	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_7833172	Ca5	7833172	CG/CGTAAATGG	ACGCATAATCGACTCC GAAC	TGCTCCTTTTGTGGT TTTG	60.1	795	INTERGENIC	--	--	--
Ca5_P2_7838610	Ca5	7838610	TAAA/TAAAA	TTTTAAATTGTCCAC CTGTTTT	CAGCAGCAGCTGAAGC ATAG	60.1	530	INTRON	Ca_18727	--	FAR1
Ca5_P2_7841957	Ca5	7841957	CATATA/CATATATA	ACATAATTGAAATGGGG GCA	ATGGCAATACTACCGA GCCA	60.5	158	DRR	Ca_18727	--	FAR1
Ca5_P2_7842168	Ca5	7842168	CTTTTTTTTT/CTTTTTTTT	ACATAATTGAAATGGGG GCA	TTCCACCCTACTGAATT GGC	59.9	738	DRR	Ca_18726	--	FAR1
Ca5_P2_7842227	Ca5	7842227	TA/TAA	ACATAATTGAAATGGGG GCA	TTCCACCCTACTGAATT GGC	59.9	738	DRR	Ca_18726	--	FAR1
Ca5_P2_7843047	Ca5	7843047	AA/AACA	CATGGTTGTTGCAATG GAAG	TTGGGCCATATTGTGT TTCA	59.8	860	DRR	Ca_18727	--	FAR1
Ca5_P2_7846426	Ca5	7846426	TAAAAA/TAAAAA	GGAGCCATTCTGTTTG CAT	TTTTGTGGTGGTGCA T	60.0	596	DRR	Ca_18725	A	MYB_related
Ca5_P2_7858428	Ca5	7858428	TAAAAA/TAAAAA	GTCGTGTGTTTCCATC CCT	GGCTTTGTATCCCC ATT	60.0	441	INTERGENIC	--	--	--
Ca5_P2_7858765	Ca5	7858765	TGGGGG/TGGGGG	GGAAATTCAGCAAGG TCCA	GGCTTTGTATCCCC ATT	60.0	128	INTERGENIC	--	--	--
Ca5_P2_7863251	Ca5	7863251	GATATATAT/GATATAT	CCTTGTCCTCCTACG ATCA	AAAGATATGAGGGGAG GGATT	57.9	225	INTERGENIC	--	--	--
Ca5_P2_7863287	Ca5	7863287	ATTTT/ATTTT	CCTTGTCCTCCTACG ATCA	TGTTTAGAAGATTGCAC CGATT	58.8	464	INTERGENIC	--	--	--
Ca5_P2_7866386	Ca5	7866386	AAAATATA/AA	TCGAAATATCCTTCAT CGAAAA	TCAAAGGATTAGCCAA ACAAAA	60.0	383	DRR	Ca_18723	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_7871052	Ca5	7871052	TC/T	GGGCTCAGTTGTGTT GGAT	TGGTGGCAGAGAGCAG TATG	60.0	604	INTERGENIC	--	--	--
Ca5_P2_7872795	Ca5	7872795	CTTTTTTT/CTTTTTTT	GATTTTCTTCCCATGC AAA	GCGAATCACTCATGTC CAGA	59.8	290	INTERGENIC	--	--	--
Ca5_P2_7873012	Ca5	7873012	GAA/GAAAA	GATATGCTGGCCAAGG AAGA	GCAATTTTGCTTTGGA GGTG	60.6	917	INTERGENIC	--	--	--
Ca5_P2_7873295	Ca5	7873295	GAAAAAAAA/GAAAAAAAA	TCTGGACATGAGTGATT CGC	GTTATGTCTGGCAGGG AGGA	60.1	707	INTERGENIC	--	--	--
Ca5_P2_7874792	Ca5	7874792	TAA/TA	AAAAGCTTGAGCAAGG GACA	AACAAACACGTGAACC CACA	59.9	355	INTERGENIC	--	--	--
Ca5_P2_7874998	Ca5	7874998	C/CG	GGAGCAATGGAACGAC ATTT	CGTGGCCGTAACCTC TCAT	60.3	368	INTERGENIC	--	--	--
Ca5_P2_7878495	Ca5	7878495	TATC/T	GGAGGAGCAGAAGCAA CAAC	CGCATTCGTTAACTGTT GGA	59.7	302	INTERGENIC	--	--	--
Ca5_P2_7886991	Ca5	7886991	ATTTTTTTTTTT/ATTTTTTTTT	GTCCAGGTGTACAGTT CCCG	TCGCATTTTCTTAGCAC TTTTG	59.6	605	INTERGENIC	--	--	--
Ca5_P2_7887409	Ca5	7887409	CTTTTT/CTTTTTTT	GCGCTGTCTTAAATTGA TTCC	GAGTTGGCGATCGAAG ATGT	60.2	837	INTERGENIC	--	--	--
Ca5_P2_7892187	Ca5	7892187	CTT/CT	AGTTGTCTTACATTGCG GGG	TGAAGCCTGCCCTAGT CAAT	59.8	458	INTRON	Ca_18722	R	--
Ca5_P2_7895607	Ca5	7895607	TA/T	TTTGGTTCCTTATTTT CTCCA	AACCACGAAATCGATC ATCC	59.8	605	DRR	Ca_18722	R	--
Ca5_P2_7899672	Ca5	7899672	ATTGTTGTT/ATTGTT	CCAAAACGAAGAGGAT CAGC	TTGTGAACATGTTGAG GGGT	58.8	795	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_7913105	Ca5	7913105	TG/TGG	CCTGCCGTCCTTGAAG AATA	CAGTGGATCACACAAT TGCC	60.0	180	INTERGENIC	--	--	--
Ca5_P2_7915396	Ca5	7915396	AGGG/AGG	GACACCCTTCACATGC CTTT	TGCAATTGCCACTTTCA CAT	60.1	867	INTERGENIC	--	--	--
Ca5_P2_7915989	Ca5	7915989	C/CG	ATTAGGGACCGATTTC GTGA	GGCATGTCGGCAAAAT TAAG	60.5	551	INTERGENIC	--	--	--
Ca5_P2_7918404	Ca5	7918404	GTTTTT/GTTTTTT	TGCATCATGCGAATTCA TTT	AGAACACACATTTCTTT CTCGTT	57.1	592	INTERGENIC	--	--	--
Ca5_P2_7937565	Ca5	7937565	GT/GTT	ATCGTTTTGTTTCGGGA CTG	ATGCCCATGCATGTTT GTAA	59.8	404	INTERGENIC	--	--	--
Ca5_P2_7954567	Ca5	7954567	G/GA	TGACCCGCAATGATTTC TATC	AATTTAGGACAGTCC CGCT	60.0	959	INTERGENIC	--	--	--
Ca5_P2_7957712	Ca5	7957712	CAAAAA/CAAAAAA	CTCTGCCTTGGAGTG AAGG	GCAGAAACCTCACCCA ATGT	60.0	519	INTERGENIC	--	--	--
Ca5_P2_7963920	Ca5	7963920	CAA/CAAAA	TTGGATTTTCTGGGCAT CTC	CACATTGGAAGACCG TCAA	59.5	321	INTERGENIC	--	--	--
Ca5_P2_7966801	Ca5	7966801	GTTTTTTT/GTTTTTT	CCAAAAAGTTGGTTTG AGC	TGGCATCAAATGCCTA CAAA	60.1	387	INTERGENIC	--	--	--
Ca5_P2_7967489	Ca5	7967489	GTTTTTTT/GTTTTTTT	TTGATGCCATTGTTGAA GGA	ACAGATCACC GTTGT CCC	59.8	439	INTERGENIC	--	--	--
Ca5_P2_7967914	Ca5	7967914	AATATATATATATATA/AATATATAT ATATATATA	GGGAAACAACGGTGAT CTGT	GGGGATATTTTGTGT GCGT	59.7	858	INTERGENIC	--	--	--
Ca5_P2_7967999	Ca5	7967999	ATTTTTTTTTTT/ATTTTTTTTTT	GGGAAACAACGGTGAT CTGT	GGGGATATTTTGTGT GCGT	59.7	858	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_7977256	Ca5	7977256	TCC/TC	TTGGCAAGGATGAGTA GGGA	TGTTTCGGCAGGAATTT TAGC	60.2	466	DRR	Ca_18720	E	--
Ca5_P2_7978058	Ca5	7978058	TTAATAATAATAATAATAATAAT AATAAT/TTAATAATAATAATAATAAT	CTCCATGCTTTTGGGT GTTT	GGTTTTGCAATGCCT GTTT	60.0	454	INTRON	Ca_18720	E	--
Ca5_P2_7982148	Ca5	7982148	CC/CCTTC	CTTGAGCCATTTTTCG CGT	GGACTTTTGTCTGTCGG GTAA	60.0	377	INTERGENIC	--	--	--
Ca5_P2_7988604	Ca5	7988604	T/TA	GCCCATGCCTTAGAAAT GAA	GTGGCTGTTCAATGGA AGGT	60.0	710	INTERGENIC	--	--	--
Ca5_P2_7992703	Ca5	7992703	TTTTATTT/TTTTATTTATTTATTT	TATCCCCCAAGATTGGA TCA	AAATGGACAACGCCTC AAAC	60.0	722	INTERGENIC	--	--	--
Ca5_P2_8018823	Ca5	8018823	GAAAAA/GAAAAA	ACTGGCACTTTCTGCG ATCT	TTGAGGAATTCCAATG AGGC	60.0	798	INTRON	Ca_18717	L	C3H
Ca5_P2_8026325	Ca5	8026325	ACC/ACCC	AACGCACAGTTTGTTT TCC	ATGGTTGGTGTGTTGC TTCA	60.0	666	INTERGENIC	--	--	--
Ca5_P2_8030912	Ca5	8030912	TAAAAAAAAAAAAA/TAAAAAAAAA	CAGTGTGATGGTTGAG GCAC	TGCATCTCTGATGCCTT CAT	59.4	215	INTERGENIC	--	--	--
Ca5_P2_8054857	Ca5	8054857	TTATA/TTATATA	TCGTATTATGTTAGAT TGCGTTT	TTCGTACGATCCACAA CAAAA	59.1	525	DRR	Ca_18716	--	--
Ca5_P2_8059856	Ca5	8059856	ATTTTTT/ATTTTTTTT	TCGTTACTTACTCGTCC CAAAAA	TGCATTGATAAAATTT GCATT	57.3	862	INTERGENIC	--	--	--
Ca5_P2_8062153	Ca5	8062153	TAAAAAAAAA/TAAAAAAAAA	TGCTTCCATCGATTTC TTG	CGTTTCGGAGAGCTTA AGGA	59.6	684	INTERGENIC	--	--	--
Ca5_P2_8066967	Ca5	8066967	TCC/TCCC	ATACCGATTGGGGTG TTGA	CTGCAACGGAGTTTGG ATT	60.1	279	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_8068988	Ca5	8068988	CAAAAA/CAAAAAA	TGGTTATGTGTCAAACG TGGA	TCATCAGAAGGGGGAG ATTG	60.0	579	INTERGENIC	--	--	--
Ca5_P2_8071914	Ca5	8071914	ATTTT/ATTTT	TTTCGTTTCAATAATT GTTTCTT	AATTGATTCGTGTGTG CCA	60.0	658	INTERGENIC	--	--	--
Ca5_P2_8074805	Ca5	8074805	TT/TTCT	TCGGCAAGTTGCTAA GTGA	CTGCAAAATGTGGTC TCAA	60.0	183	INTERGENIC	--	--	--
Ca5_P2_8075135	Ca5	8075135	CAA/CA	TTGAGAGCCACATTTG CAG	GAGCAATGAACCATTT CCATC	59.4	247	INTERGENIC	--	--	--
Ca5_P2_8075614	Ca5	8075614	ATTTTTTTTT/ATTTTTTTTT	GATGGAATGGTTCAAT GCTC	CCGATTCCAAAAGAATT ATGTCA	60.2	590	INTERGENIC	--	--	--
Ca5_P2_8076068	Ca5	8076068	ATTTTTTTTT/ATTTTTTTTT	TGACATAATCTTTTGG AATCGG	CGCATAGACACACTAA CTTCAGC	59.1	496	INTERGENIC	--	--	--
Ca5_P2_8076123	Ca5	8076123	TAGA/TA	TGACATAATCTTTTGG AATCGG	CAACAATAAGAAAAATT GGGGAA	59.3	887	INTERGENIC	--	--	--
Ca5_P2_8078356	Ca5	8078356	AAT/AATATAT	TGGGACCAAAGTTGCT ATGA	TGGTTTCAACACCAAAC TACAA	58.1	778	INTERGENIC	--	--	--
Ca5_P2_8080129	Ca5	8080129	ACTC/A	ACACTTGTGAAAATTGG CGA	GAAGAGCGAACAAC TCCG	60.0	546	INTERGENIC	--	--	--
Ca5_P2_8081753	Ca5	8081753	ATTT/ATTTT	TTCACAGTTTGTTCG TCG	TGCAAAATTGGAAC ACAA	59.9	667	INTRON	Ca_18715	C	--
Ca5_P2_8084206	Ca5	8084206	TGAGA/TGAGAGA	GCCTTACACGTGCTT GTTT	GGCTGTGGAAGAAAT TGAA	60.1	570	INTRON	Ca_18715	C	--
Ca5_P2_8088108	Ca5	8088108	CAAAAAA/CAAAAAA	CACTGTACATGCAGTC CTTGC	TAGGCTGGGATGGA TCAG	60.0	604	DRR	Ca_18715	C	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_8088684	Ca5	8088684	CT/CTT	CTGATTTCATCCCAGC CTA	AAACAAGAAAGTGGGA GGGG	60.3	263	DRR	Ca_18715	C	--
Ca5_P2_8090658	Ca5	8090658	CTT/CTTGCTTT	GCATGTCGAATTTTCC CAT	GGACGCCTTCGTGAGA TAAG	59.8	604	INTERGENIC	--	--	--
Ca5_P2_8090888	Ca5	8090888	ATTTTTTTT/ATTTTTTT	TTTTCCCTCAATTCTTT CAACA	GGACGCCTTCGTGAGA TAAG	59.8	291	INTERGENIC	--	--	--
Ca5_P2_8094276	Ca5	8094276	AGG/AGGCCACGG	CAACGTTAGCAGTGAC CGTG	TACCGATGTGCCACCT ATCA	59.9	143	INTERGENIC	--	--	--
Ca5_P2_8094609	Ca5	8094609	AT/ATGACATAATT	GCAGTGACCGTGATAG GGAT	GGGTCGTATGTCCAAG CAGT	60.0	517	INTERGENIC	--	--	--
Ca5_P2_8095539	Ca5	8095539	GAAAAAAAA/GAAAAAAAA	TGGGTCCATGTTCCATT TTT	ACCCTAATTTGCTTTTC GCT	60.2	767	INTERGENIC	--	--	--
Ca5_P2_8095701	Ca5	8095701	GAAAAAAAAA/GAAAAAAAAA	TGATAGGTCTCATAGCC CCG	TACAAGTCTGAGCCTG GCCT	60.0	931	INTERGENIC	--	--	--
Ca5_P2_8097767	Ca5	8097767	GAAATTTTA/GA	TGTTTCTGACAGTTCTT TCCCA	TGGAAAGTCATGCTTT GTGG	59.7	664	INTERGENIC	--	--	--
Ca5_P2_8098126	Ca5	8098126	TAAAAA/TAAAA	TTGCATGTGCAATTTT CTCA	AATGGCACAAACATTG ACGA	60.0	514	INTERGENIC	--	--	--
Ca5_P2_8098608	Ca5	8098608	ATAGTACGTTA/ATA	TCGTCAATGTTGTGCC ATT	TTTCATGTTTGCAAGAA GAAGG	59.4	378	INTERGENIC	--	--	--
Ca5_P2_8100992	Ca5	8100992	AATAACAACCTTATAACAACCTT/AATAA CAACCTT	TTTTCCCCTAGTTGTG CAG	AATCTCAGCCACTTA GGCA	59.8	533	INTERGENIC	--	--	--
Ca5_P2_8107318	Ca5	8107318	T/TAA	AGGGTAAACTTTGTGTG CCG	GAGTCGTCTCTAAAC CCCAA	59.0	412	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_8107526	Ca5	8107526	AGGG/A	AGGGTAACTTTGTGTCG	GAGTCGTACATAACCCAA	59.0	412	INTERGENIC	--	--	--
Ca5_P2_8108384	Ca5	8108384	ATTTTT/ATTTTTTT	CAAGGGTATTTTGCCATTTACA	TTTGCAATTGAGGGACAACA	60.1	479	INTERGENIC	--	--	--
Ca5_P2_8113436	Ca5	8113436	AT/ATATT	TTGGTTTTGGGTTTGTGTG	TGATTTTACAATCGGCCACC	60.7	784	DRR	Ca_18714	--	--
Ca5_P2_8113546	Ca5	8113546	AC/A	TTGGTTTTGGGTTTGTGTG	TGATTTTACAATCGGCCACC	60.7	784	DRR	Ca_18714	--	--
Ca5_P2_8119203	Ca5	8119203	AATATATATATATA/AATATATATATA	TGACGACTTCCTGAAGGTT	ACCAAGGCGTTGTCAAATC	60.0	287	INTERGENIC	--	--	--
Ca5_P2_8121675	Ca5	8121675	CAAAAAAAAA/CAAAAAAAAA	GTGATTGGTCGCTTGAGGT	TGTTTGGGAGGAATCTGTCT	59.8	678	INTERGENIC	--	--	--
Ca5_P2_8128871	Ca5	8128871	TA/TAGA	TATCACAAGCCTGAAATGCG	CCGATGCCTAAATCTCCAAA	60.0	648	INTERGENIC	--	--	--
Ca5_P2_8128913	Ca5	8128913	T/TG	TATCACAAGCCTGAAATGCG	CCGATGCCTAAATCTCCAAA	60.0	648	INTERGENIC	--	--	--
Ca5_P2_8130990	Ca5	8130990	ATTTTTTTTTTT/ATTTTTTTTTT	CACTTCATTAAATGATCACCG	TATGCGCAAATCACAAACAT	60.0	676	INTERGENIC	--	--	--
Ca5_P2_8161676	Ca5	8161676	TAAAAAAAA/TAAAAAAAA	CAGAGAGAAAGAGTGAGAAATTAATGG	CTCTGATTGGTGATACCGGG	60.3	643	INTERGENIC	--	--	--
Ca5_P2_8164282	Ca5	8164282	TAAAAAA/TAAAAAA	CTACAAACGGAGAAGTCGGG	TTGACTGATGTTAAGTAGCACG	57.9	816	INTERGENIC	--	--	--
Ca5_P2_8165089	Ca5	8165089	T/TAA	CACCCAACTGTTAAATATCCA	TCAAGGCACAAATTTCTGGT	59.6	233	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_8173101	Ca5	8173101	GATAT/GAT	ATTTCAGAGGGAGTT GTGG	GTGCCAGTCGATTGCC TAAT	60.1	659	INTERGENIC	--	--	--
Ca5_P2_8178000	Ca5	8178000	ATTTTTTTTT/ATTTTTTTTT	AAAGATACCAGGTCATG GCG	AATTTGATTCATTTTGC CGC	59.9	566	INTERGENIC	--	--	--
Ca5_P2_8186792	Ca5	8186792	ATTTTTTTTT/ATTTTTTTTT	CATCGAGTTTCCCGTGT TTT	ACCATGCAAAGACATC CACA	60.0	560	INTERGENIC	--	--	--
Ca5_P2_8199807	Ca5	8199807	TTATATATATATATATATATAT/TTA TATATATATATATAT	TGCATGTTCTTACGCTG GTC	AGTTATCGGTCGCTGG TGTC	60.1	704	INTERGENIC	--	--	--
Ca5_P2_8208214	Ca5	8208214	ATTTT/ATTTT	ACATTTATGCCATTTTC GCC	TCCCATGACACAAACA CACC	60.3	400	INTERGENIC	--	--	--
Ca5_P2_8208654	Ca5	8208654	GTTTTTTTTT/GTTTTTTTTT	TTTGGTCATTTCGTCC TCC	TTGGATGCACATGATT GGTT	59.8	174	INTERGENIC	--	--	--
Ca5_P2_8215447	Ca5	8215447	ATTTTTTTTT/ATTTTTTTTTT	TGTGGTTGTGCCTGTG ATTT	GCCAATCAACCCATGA TACC	60.0	361	INTERGENIC	--	--	--
Ca5_P2_8215485	Ca5	8215485	ATTTTTTTTT/ATTTTTTTTT	TGTGGTTGTGCCTGTG ATTT	GCCAATCAACCCATGA TACC	60.0	361	INTERGENIC	--	--	--
Ca5_P2_8241804	Ca5	8241804	ATTTT/ATTT	TGACAGGAGCTTCCCT GAGT	GTACGAACCTCCTCCC ACGA	60.1	678	INTERGENIC	--	--	--
Ca5_P2_8259506	Ca5	8259506	AATATATATATATATATA/AATATATAT ATA	TCGTTCTGATCAATGTT GGA	AATTTTAAACCTGCCG CCT	60.0	581	INTERGENIC	--	--	--
Ca5_P2_8262457	Ca5	8262457	CAA/CA	CGTGAGATGAACGGGA AAAT	TGTGTGGCATGGTAGC TCTC	59.9	374	INTERGENIC	--	--	--
Ca5_P2_8263355	Ca5	8263355	TA/T	GGAGGAACACGCTTT GATA	TAGCCTGTGGTGCTCT TCCT	60.0	575	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_8267659	Ca5	8267659	AT/ATT	TAATACACACGACAC CGC	GTTGCTTCCCAATTG AGAC	59.5	344	INTERGENIC	--	--	--
Ca5_P2_8272716	Ca5	8272716	CT/CTT	ACTGAGCGGTGCAGAA GATT	CTCTCAAAGGGTTACT GCCG	59.9	771	DRR	Ca_18709	R	--
Ca5_P2_8287809	Ca5	8287809	CAA/CAAA	TAGGATCCGTTTGATG GACA	TGGTACACGTCTCATT TGACA	59.1	799	DRR	Ca_18708	R	MYB
Ca5_P2_8309480	Ca5	8309480	TAAA/TAA	CAGCACCCACAAACATT CAC	GATTCTGTCTCGCGTA AGCC	60.0	498	INTERGENIC	--	--	--
Ca5_P2_8315904	Ca5	8315904	ATTTTTTTTT/ATTTTTTTTT	TGTGTTCCGTGAGAATT GGA	TTGTGTTTGACTGACG TGGC	60.8	700	INTERGENIC	--	--	--
Ca5_P2_8337925	Ca5	8337925	TAAAAAA/TAAAAAAA	CATGGCATGGAGAAGA ATGA	TTAGGACCAACGGTGC ACTT	60.6	629	INTERGENIC	--	--	--
Ca5_P2_8343597	Ca5	8343597	ATTTTTTTTT/ATTTTTTTTT	CTCACTAATGCAGCCT GTGG	CACCAAGAAAGTTAGTT TGGTTGA	59.6	608	INTERGENIC	--	--	--
Ca5_P2_8489533	Ca5	8489533	G/GA	AGATATTGCAATGCCG GAAG	TTCGGTACACCCACAT CTCA	60.0	320	INTERGENIC	--	--	--
Ca5_P2_8583752	Ca5	8583752	GATAATAATAATAATAATAATAA TAATAATAATAATAATAA/GATAATA ATAATAATAATAATAATAATAAT AATAATAATAA	CGATGACCATTGTTGAC ACC	TCTTCTTGCGCCGAC TCTT	60.0	556	INTERGENIC	--	--	--
Ca5_P2_8706284	Ca5	8706284	TAA/TA	TGCTTCCACGTTTGGTT GTA	TTTTTGTGATGAGGCA GTTG	58.8	545	DRR	Ca_20329	R	WRKY
Ca5_P2_8706303	Ca5	8706303	ATTT/ATT	TGCTTCCACGTTTGGTT GTA	TTTTTGTGATGAGGCA GTTG	58.8	545	DRR	Ca_20329	R	WRKY
Ca5_P2_8706590	Ca5	8706590	CAAAAAAAAA/CAAAAAAAAA	TGCTTCCTGTCTCAGAT CTTCA	GATCAATTCTATGCAT TCACGA	59.1	862	DRR	Ca_20329	R	WRKY

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_8716255	Ca5	8716255	TG/T	AAGTGTGGTCTTTGGT CCG	TTTGGAAAACATGTG GCAA	59.9	518	INTERGENIC	--	--	--
Ca5_P2_8719714	Ca5	8719714	CAAAAAAAAA/CAAAAAAAAA	TAACCTCGTTACAGCCC ACC	TTAGGCATGATGAAAT GCCA	60.0	642	INTERGENIC	--	--	--
Ca5_P2_8719898	Ca5	8719898	AAT/A	AAACAGTAGCCGATG GTGT	TTAGGCATGATGAAAT GCCA	60.0	186	INTERGENIC	--	--	--
Ca5_P2_8719945	Ca5	8719945	TT/TTGT	AAACAGTAGCCGATG GTGT	GGGAGCCAAAGAAATG ATGA	60.0	614	INTERGENIC	--	--	--
Ca5_P2_8721019	Ca5	8721019	TG/T	GCTATAGCGTGCTATT CGG	TAAGCCTTGCAACGAC CTCT	60.0	720	INTERGENIC	--	--	--
Ca5_P2_8725953	Ca5	8725953	T/TAATTTATC	CAATGCAAAAATCAAAA CTACG	TCTGTCCATGCAAGCT CAAC	60.0	694	INTERGENIC	--	--	--
Ca5_P2_8727144	Ca5	8727144	CTTTTT/CTTTTTTT	CAAGGCTAGTGCATCA GCAA	TCAAGAGGCTCACGAA GGTT	60.0	455	INTERGENIC	--	--	--
Ca5_P2_8729285	Ca5	8729285	T/TC	TCTCTCCGCAATAGCC ACT	ATCTTCCATGGGCTAC ATCG	59.9	400	INTERGENIC	--	--	--
Ca5_P2_8729583	Ca5	8729583	AT/A	TCTCTCCGCAATAGCC ACT	TGGTGAAAGCATTGA TGGA	60.0	653	INTERGENIC	--	--	--
Ca5_P2_8733080	Ca5	8733080	GATTTATTAT/GATTTATTATTAT	TTGCTCTACGTATCTC CCG	GCACACCAAGACAACA ATGG	60.0	855	INTERGENIC	--	--	--
Ca5_P2_8733318	Ca5	8733318	TTTTA/T	TGTGAGTTTTGTGACGA TCAAG	GCACACCAAGACAACA ATGG	60.0	675	INTERGENIC	--	--	--
Ca5_P2_8745383	Ca5	8745383	A/ATCT	TGCATTGACATATGAA GTTTCTG	TGATCTTTGCCACCAA CAAA	60.1	482	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_8758735	Ca5	8758735	GTTT/GTTGAGTTTT	TCCCTTAAGCCGAA AGT	ATAATCCCCTTGCCT TGC	60.3	600	INTERGENIC	--	--	--
Ca5_P2_8759853	Ca5	8759853	TTCT/TT	TCCTCTTAAGATATCC CCTGTTG	TATGCCATGCCACCAC TTTA	60.0	716	INTERGENIC	--	--	--
Ca5_P2_8760757	Ca5	8760757	TAAA/TAAAAA	TTTTCTTGGCCCAATC TTC	AATTCGAGGAGTGTC AACG	60.1	505	INTERGENIC	--	--	--
Ca5_P2_8768889	Ca5	8768889	GCATTTC/GCATTTTCATTTC	GACAAGCAAGGTTTCA GTCC	GCCACACGTTTACTTC CGTT	60.0	618	INTERGENIC	--	--	--
Ca5_P2_8775868	Ca5	8775868	ATTTTT/ATTTT	AGATCTTCTCCGACAC GAA	ACCCATAAGTTTTCCC ACG	61.0	625	INTERGENIC	--	--	--
Ca5_P2_8781700	Ca5	8781700	TTAAT/TT	CCCTATGCCCCAATAA AAT	AGGGGTGTACGGGACC TAAC	60.1	264	INTERGENIC	--	--	--
Ca5_P2_8782619	Ca5	8782619	ATTT/ATT	ACGGTGTTTATCGTGT TGC	ACCCATTAAAGCCAGG GTCT	59.8	231	INTERGENIC	--	--	--
Ca5_P2_8782889	Ca5	8782889	TT/TTCTTATGT	ACCCTGGCTTTAATGG GTCT	TGCAATGCAATGTTAA ATGA	57.7	538	INTERGENIC	--	--	--
Ca5_P2_8783049	Ca5	8783049	T/TC	ACCCTGGCTTTAATGG GTCT	TGCAATGCAATGTTAA ATGA	57.7	538	INTERGENIC	--	--	--
Ca5_P2_8784965	Ca5	8784965	GTTTTTT/GTTTTTTT	GAAATTGGGTGTTTT GGAGA	ACATGGTTCGACCTT CTG	59.7	197	INTERGENIC	--	--	--
Ca5_P2_8787077	Ca5	8787077	ATT/AT	TTGAAGGAAAGGGAAT GGAA	CAATCCCCTTAACCATG TGC	60.2	384	INTERGENIC	--	--	--
Ca5_P2_8788101	Ca5	8788101	AAA/AAAGAA	GCGATGCAATATGGCT TTTT	AAAATGATGGGTCCAA CCAA	60.0	241	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_8791063	Ca5	8791063	GAAAAAAAAA/GAAAAAAAAA	GGATCATGAGCTCGTT ACGG	AAAAGCAGCTGGAGTG GAAA	60.0	888	DRR	Ca_20334	J	--
Ca5_P2_8794913	Ca5	8794913	TAAAAA/TAAAAA	TGCCATTAGTTAAAGCC CAAA	CCGTGGTGAAAGTGG AGAT	60.0	475	INTRON	Ca_20334	J	--
Ca5_P2_8795246	Ca5	8795246	AAGAGAGAGAGAG/AAGAGAGAGAGAG	ATCTCCACTTTCACCAA CGG	CTCGAATCCAATCCAA CGAT	59.9	304	INTRON	Ca_20334	J	--
Ca5_P2_8809869	Ca5	8809869	TA/T	CGTCGTATCATGACCC GTG	ACATGTTGGAGGGGTC AAAA	60.2	473	DRR	Ca_20335	B	C2H2
Ca5_P2_8818736	Ca5	8818736	G/GACGAAAA	CGCTTTGCTCTCACCTC TCT	TTGGTTTGAGATTGTG CCA	60.1	330	INTERGENIC	--	--	--
Ca5_P2_8819191	Ca5	8819191	TAAAAA/TAAAAA	TGGCACAAATCTCAAC CAA	GTGAGGACTTGATTAG CCCG	59.7	889	INTERGENIC	--	--	--
Ca5_P2_8823123	Ca5	8823123	ATTTGAAAG/ATTTGAAAGTTGAAAG	TGGTTGATGTGAGTGG CTTC	CCAAATCAAAGGAGAT CCGA	60.0	573	INTERGENIC	--	--	--
Ca5_P2_8823474	Ca5	8823474	C/CT	AAAAATACGCGCACACA CAT	CCACAAAGGCTGCATA CAAA	59.7	512	DRR	Ca_20336	A	--
Ca5_P2_8823728	Ca5	8823728	TAAAA/TAAAAA	TCGGATCTCCTTGATT TGG	TCCAAGTCCTGCATG AGTG	59.8	363	DRR	Ca_20336	A	--
Ca5_P2_8824922	Ca5	8824922	GAAA/GAGAGACAATGAAAA	ACACGCTTTGTGTGAGT CGC	GCAGATGAGGTGCAAT CTGA	60.0	469	DRR	Ca_20336	A	--
Ca5_P2_8824939	Ca5	8824939	ATTT/ATTTTT	ACACGCTTTGTGTGAGT CGC	GCAGATGAGGTGCAAT CTGA	60.0	469	DRR	Ca_20336	A	--
Ca5_P2_8828493	Ca5	8828493	GATCTA/GATCTATGACTATCTA	AATGGCTTAAAGGGTTT GGG	TTATCCAGACGCAGC TTCA	59.6	917	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_8832454	Ca5	8832454	AC/A	TTCATTGAGGTTCAATG CACA	GGTGGTTCCTCAACGA AAAA	59.9	890	INTERGENIC	--	--	--
Ca5_P2_8837420	Ca5	8837420	TG/TGG	GCAGGAAAAATGGGT GAGA	CAAGGGGCTGCAAAAG TAAC	59.7	326	DRR	Ca_20337	--	--
Ca5_P2_8837691	Ca5	8837691	TCC/TC	GCAGGAAAAATGGGT GAGA	GCATGGGAGGAGAAAA TGAA	60.0	841	INTERGENIC	--	--	--
Ca5_P2_8855937	Ca5	8855937	CTTTTTT/CTTTTTTTT	TTGGATAATCCAAAGC CCA	TTTTCTCCACATAAAAT TCTTTAATCA	58.7	890	INTERGENIC	--	--	--
Ca5_P2_8856142	Ca5	8856142	CAAAAA/CAAAAAA	TTTGCTTTTACCTTTC TAAACATCA	TAAGGAGGGTTGGGGT TTCT	59.8	750	INTERGENIC	--	--	--
Ca5_P2_8856286	Ca5	8856286	AT/ATT	TTTGCTTTTACCTTTC TAAACATCA	TAAGGAGGGTTGGGGT TTCT	59.8	750	INTERGENIC	--	--	--
Ca5_P2_8870457	Ca5	8870457	TTATATTTAT/TT	TTTCAATATTCAATGCA ATGCC	TTGTGTTGCATGGGAA AAAG	59.6	471	INTRON	Ca_20339	--	bZIP
Ca5_P2_8877960	Ca5	8877960	AG/AGG	AAAGGAAAGATAAAGT GAAGTGAGA	ATAGTGTGCCCCCAT TGAA	60.2	441	INTRON	Ca_20339	--	bZIP
Ca5_P2_8884642	Ca5	8884642	AGG/AG	AAATATTTTGGGTTTGA TTGGG	TCACCCAAACACATAAC TTCG	58.5	675	INTERGENIC	--	--	--
Ca5_P2_8884992	Ca5	8884992	TAAAAAAA/TAAAAAAA	GCCTATTGATTTTGAAT TTGATTG	TTTGAAATTCATCAC CCAA	58.0	108	INTERGENIC	--	--	--
Ca5_P2_8929713	Ca5	8929713	GA/GACA	AGTTTTTGCTAGGA GGCA	ATGCAAGGAGGCCATA AAAA	59.5	782	INTERGENIC	--	--	--
Ca5_P2_8930267	Ca5	8930267	GA/GAA	TTTTTATGGCCTCCTTG CAT	TGGGATTCATTCCCAT TTG	60.5	721	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_8930285	Ca5	8930285	TAAAA/TAAAA	TTTTATGGCCTCCTTG CAT	TGGGATTCATTCCCAT TTG	60.5	721	INTERGENIC	--	--	--
Ca5_P2_8930382	Ca5	8930382	TA/TAA	TTTTATGGCCTCCTTG CAT	TGGGATTCATTCCCAT TTG	60.5	721	INTERGENIC	--	--	--
Ca5_P2_8934749	Ca5	8934749	TAAAA/TAAAA	GGCAAGCGAAGGTAAG TGAG	AGACTGGTGAGCAAAT TCGG	60.3	427	INTERGENIC	--	--	--
Ca5_P2_8935128	Ca5	8935128	AGAGT/A	GGCAAGCGAAGGTAAG TGAG	AAGCCACCTTCTTGTA ACACC	59.6	674	INTERGENIC	--	--	--
Ca5_P2_8937226	Ca5	8937226	AGT/AGTGT	CCCAAGCTAGGATACT GCCA	CGTAACCCAAGTCGCT AATCA	60.1	420	INTERGENIC	--	--	--
Ca5_P2_8940538	Ca5	8940538	ATTTT/ATTTT	TGGGTGTGCTCTGAAA TTGA	TTTACACCTTTTGGC GCT	59.8	474	INTRON	Ca_20341	E	--
Ca5_P2_8946131	Ca5	8946131	C/CT	ACCAAAGGTGAAATTG GTGC	ATGCAGCTTTACCTCT CCA	59.8	375	DRR	Ca_20341	E	--
Ca5_P2_8946841	Ca5	8946841	AT/A	ACAACCGCTTTAGGTCT CCA	TGTGGCCAGAACTTC ACAA	60.3	626	INTRON	Ca_20342	--	--
Ca5_P2_8949104	Ca5	8949104	GAAAAAAAA/GAAAAAAAAA	TGCAAAACCACCAACA AAA	GGGAGAACTTGAGCAT GAGC	60.0	217	INTRON	Ca_20342	--	--
Ca5_P2_8950668	Ca5	8950668	A/AG	ATATTTGTTGGCTGCT CGG	GATCGAGTGACCTCCA ACCT	59.1	520	INTERGENIC	--	--	--
Ca5_P2_8952513	Ca5	8952513	TAAAAA/TAAAAA	GCCAATCACGCGTAT AACT	TCTTGCTTCGCCCTTAC CTA	60.0	566	INTERGENIC	--	--	--
Ca5_P2_8954056	Ca5	8954056	T/TAA	CCTCCACAAGTGTACT CCCA	TCACGTTTGATTGAAG GGGT	60.4	573	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_8954436	Ca5	8954436	GAAAAA/GAAAA	CATGTCACCCCTTCAAT CAA	CACATACATACCATTGT TGGGC	60.0	439	INTERGENIC	--	--	--
Ca5_P2_8960446	Ca5	8960446	CAA/CAAAA	TCACATTGTGAGGAAC GGA	AAGCGCTAAGGACAGA TGGA	60.0	477	INTERGENIC	--	--	--
Ca5_P2_8962516	Ca5	8962516	A/AT	CCCCACTTCACTCGTGT TTT	GCCTCTTTGATCGAGA ACCA	60.3	835	INTERGENIC	--	--	--
Ca5_P2_8969612	Ca5	8969612	TAAAAA/TAAAAAA	TGCAATGATGTTTCTC CAA	TTGCTTCGATCTTGAG GTCC	60.3	562	INTERGENIC	--	--	--
Ca5_P2_8970600	Ca5	8970600	TAAAAA/TAAAAAA	GATTTTAAGCGCCAAA CAA	CGGTCGCTAGTGTAAG AGGC	59.9	425	INTERGENIC	--	--	--
Ca5_P2_8970639	Ca5	8970639	AATATATATATATA/AATATATATAT ATATA	GATTTTAAGCGCCAAA CAA	CGGTCGCTAGTGTAAG AGGC	59.9	425	INTERGENIC	--	--	--
Ca5_P2_8975431	Ca5	8975431	AATATATATATATA/AATATATATATA	GCTGTTGGAGATGCTT CAAGT	TTGACTTTCTCCCGTT GAC	60.1	423	INTERGENIC	--	--	--
Ca5_P2_8975579	Ca5	8975579	CAAAAAA/CAAAAAA	TCATGAGGTGTTGCTCA TCG	TTGACTTTCTCCCGTT GAC	60.1	110	INTERGENIC	--	--	--
Ca5_P2_8975884	Ca5	8975884	TAAAAA/TAAAA	GTCACGGGGAGAAAG TCAA	GCTATAAGATTAAGAG GGGTGGG	59.4	720	INTERGENIC	--	--	--
Ca5_P2_8976072	Ca5	8976072	AATA/AATATATA	GTCACGGGGAGAAAG TCAA	GAAAGCCATTTTACC CCAT	60.0	856	INTERGENIC	--	--	--
Ca5_P2_8994773	Ca5	8994773	TAAAAA/TAAAAA	GCCTTTTACACTAGCGA CCG	AATGATGGCTTTCGGA TTTG	59.9	629	INTERGENIC	--	--	--
Ca5_P2_9002190	Ca5	9002190	CATGAAATGATGAAATGAT/CATGAAAT GAT	ACCCAACCATGATGAA TGA	AAACCTCATTCTTCGT CCA	59.8	517	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9002459	Ca5	9002459	TTATATATATAT/TTATATATATATAT	CCCAACCATGAAATGAT GAA	GCAACAACCCAAAACC TCAT	59.8	377	INTERGENIC	--	--	--
Ca5_P2_9013407	Ca5	9013407	CAAAAAAAAA/CAAAAAAAAA	TTCGTTTAGGCCATGCT TCT	GCATTATGTGGGGTG TTTC	60.1	434	INTERGENIC	--	--	--
Ca5_P2_9015474	Ca5	9015474	CT/C	TCCACACCTCATTGGT GTC	TTGGTTGATGACGTT AAGG	59.5	548	INTERGENIC	--	--	--
Ca5_P2_9015926	Ca5	9015926	AG/A	CCTTGAACGTCATCAAC CAA	TCACGGCATAAAGAGG ATGA	59.2	413	INTERGENIC	--	--	--
Ca5_P2_9019935	Ca5	9019935	A/AAC	TCGTCCATTCATTGCA CTA	TGTACCGACGTTGTGC ATTT	60.0	769	INTERGENIC	--	--	--
Ca5_P2_9022526	Ca5	9022526	CTTTTTTTTTT/CTTTTTTTTTT	TGTGCACGTGATAACA GAGTTG	CCACTATCGCTCTCGT CTCC	60.0	907	INTERGENIC	--	--	--
Ca5_P2_9024046	Ca5	9024046	AT/ATT	CAAATTGAGCCAGTCG GAAT	TGCGCTCGAGGTAAGA ATTT	60.0	551	INTERGENIC	--	--	--
Ca5_P2_9032003	Ca5	9032003	ATAAGT/AT	TCTTCTTTGGAGTTGG GTG	CAAAGCATCAAATTCC CCT	59.2	173	DRR	Ca_19958	R	--
Ca5_P2_9033724	Ca5	9033724	AATA/AA	CAACAGCAATGTGCC CATC	GCTGTTGCTGCCATGA GATA	60.0	473	DRR	Ca_19958	R	--
Ca5_P2_9034406	Ca5	9034406	CATATATATATATATATATA/CATA TATATATATATA	TATCTATGGCAGCAAG AGC	TTCTAAACAGTTGGTCC GGG	60.0	518	INTRON	Ca_19959	E	--
Ca5_P2_9075010	Ca5	9075010	AGGG/AGG	AATTCGGCGAAGAGTT AGCA	TTGCTTGCATGTTTCA GAG	60.0	551	INTERGENIC	--	--	--
Ca5_P2_9075563	Ca5	9075563	T/TAC	CTCTGAAACCATGCAAG CAA	TGACGGCTGAATTGTC CATA	60.1	676	DRR	Ca_19962	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9076923	Ca5	9076923	AAAC/A	TGGCCTGTAACACTGG CATA	GGCGACAAAGAACAA GAGC	60.0	378	DRR	Ca_19962	O	--
Ca5_P2_9088055	Ca5	9088055	AGG/AGGG	TGTCTCTGCTTCCCATG TTG	CAACTGAAAGTGCCAA GCAA	60.0	728	INTERGENIC	--	--	--
Ca5_P2_9100641	Ca5	9100641	CTATATATATATATATA/CTATATATAT ATATATATATATATATA	CCAAAAGTGGGGAGAA ACAA	TTTGGCCAGACCACCT TTAC	60.0	545	INTERGENIC	--	--	--
Ca5_P2_9101148	Ca5	9101148	GAAAAAAAA/GAAAAAAAA	GGAATAAGGAAAGTC GCCC	TCGTTACTGCTGTTGT GCC	59.9	653	INTERGENIC	--	--	--
Ca5_P2_9105070	Ca5	9105070	ATTTTTTT/ATTTTTTTT	TGCATTAGCGTCGTTG TTG	TTGAGTTGGATTCA CCGA	60.1	560	INTERGENIC	--	--	--
Ca5_P2_9105435	Ca5	9105435	TAAAAAAAA/TAAAAAAAA	AGCAATGAGAATGCAAA CGA	TTGAGTTGGATTCA CCGA	60.1	174	INTERGENIC	--	--	--
Ca5_P2_9106838	Ca5	9106838	AACATACAT/AACAT	AGAAGAGTGAGGGGCC ATTT	GCTTGAATCCCAATGTT TTCA	59.9	200	INTERGENIC	--	--	--
Ca5_P2_9112316	Ca5	9112316	TATTTGGTTCAAAATTTGG/TATTTGGTT CAAAATTTGGTTCAAAATTTGG	AAGCTCCCTACCCACC AACT	CCCCTTTGTGTATGAAT GTGG	60.1	866	DRR	Ca_19963	IT	--
Ca5_P2_9112753	Ca5	9112753	TTT/TTTATT	CCACATTACACAA GGGG	GGAAACTCGGGAGCCT TATC	60.0	325	DRR	Ca_19963	IT	--
Ca5_P2_9118548	Ca5	9118548	GAGGGC/GAGGGCAGGGC	GAATAGTGGCGGAAGG ATCA	CCTTCGAGTACCAGCA AAGC	60.0	245	INTERGENIC	--	--	--
Ca5_P2_9122149	Ca5	9122149	CCTCT/CCTCTCT	GCTGATGCACACCTTC AGA	CAGAGAGTTGGTGTGC CTGA	60.0	829	INTERGENIC	--	--	--
Ca5_P2_9123724	Ca5	9123724	AT/A	TTTAAATTGATTCGCCC TCG	CCAATTGAATCCCTGC ATT	59.8	673	DRR	Ca_19964	--	C2H2

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_9132512	Ca5	9132512	CTTTTT/CTTTTT	ACTTGC GGATAAAACCA CCA	TGGATTGGTGTTC AAG CATC	59.5	704	INTERGENIC	--	--	--
Ca5_P2_9133458	Ca5	9133458	AAT/AATTCAT	ATTGGTTCAGTGGTTG GCTC	TTGTCAAATCTCCATT CAACCC	60.1	399	INTERGENIC	--	--	--
Ca5_P2_9140493	Ca5	9140493	AAAGAAGAAGAAGAAGAAGAAGAA /AAAGAAGAAGAAGAAGAAGAAGAA AGAA	CACTAGCACCGTAGCA TGGA	AATTGCGGCGAGAGAA GATA	59.9	378	INTERGENIC	--	--	--
Ca5_P2_9147479	Ca5	9147479	CTCACATATAAGGTCACATATAAGG/CT CACATATAAGG	TTCAAGACGCGATAATT CCC	GAGCAAACCTTGG AAG CGAC	60.0	603	INTERGENIC	--	--	--
Ca5_P2_9148815	Ca5	9148815	GCC/GC	ATTCCTTGGCCTTGAG GTTT	GTGGCAAATCGCCTAA TGTT	60.0	425	INTERGENIC	--	--	--
Ca5_P2_9148867	Ca5	9148867	GA/GAA	AATTCCTTGGCCTTGAG GTT	AAGTCACATCCCCCAT CAAA	60.2	859	INTERGENIC	--	--	--
Ca5_P2_9151700	Ca5	9151700	ATTTTTTT/ATTTTTTTT	TTTGGGTGGTTTATGT CCC	GGACTGCAATCATTCT ACGACA	60.1	441	DRR	Ca_19965	--	C2H2
Ca5_P2_9152307	Ca5	9152307	CTGTT/CT	TGATTGGGTATGATTC CAGTG	TTTCCAAAGTAGCGTG GCTT	59.9	465	DRR	Ca_19965	--	C2H2
Ca5_P2_9161192	Ca5	9161192	TA/TAAA	TGTTTGACCTTTGGACA CCA	TTTTATTGAGTTTATT ACATTGGGA	59.3	555	INTERGENIC	--	--	--
Ca5_P2_9163773	Ca5	9163773	AG/A	TCTGGTCATTTCTCTTG GTTG	CTCCAGCGATCTGTAA AGCC	60.0	180	INTERGENIC	--	--	--
Ca5_P2_9163864	Ca5	9163864	CT/CTT	TCTGGTCATTTCTCTTG GTTG	TCTCTTTAAAAAGTCGT TGATTTGG	60.0	235	INTERGENIC	--	--	--
Ca5_P2_9163887	Ca5	9163887	CTTTTTTTTT/CTTTTTTTTTT	GGCTTTACAGATCGCT GGAG	CCTTAAACAAGATGAT GAACCTT	57.9	395	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9164278	Ca5	9164278	CCTCTTATAT/CCTCTTATATTTCTCTTA TAT	GCTTGCCTGGCTTTACA GAT	CCGACAGATTTGGTTT CTCC	59.5	815	INTERGENIC	--	--	--
Ca5_P2_9170329	Ca5	9170329	AAATAATA/AAATA	GATGCGCAAACCTGAGA GACA	GACCCTACCTTGAGCC ATCA	60.1	230	INTERGENIC	--	--	--
Ca5_P2_9171314	Ca5	9171314	GCC/GC	CAGATTCTTTGGTGGA GGGA	TGGTGCACCTCTCACTT CTGG	60.0	641	INTERGENIC	--	--	--
Ca5_P2_9172890	Ca5	9172890	TT/TTATCT	GCCTCCAAACCTGAAA CAAA	TAGCGACCACACGAAG ATGT	59.3	618	INTERGENIC	--	--	--
Ca5_P2_9174756	Ca5	9174756	CTA/C	TGAACCTCCAATCATGA CCA	TACATGCACACACTCC GACA	59.7	350	INTERGENIC	--	--	--
Ca5_P2_9176007	Ca5	9176007	TTAT/TT	TCATCCACAATTATTTT TAATGCAA	CAAAGTCCAGTCCCTG AAGC	59.8	364	INTERGENIC	--	--	--
Ca5_P2_9179154	Ca5	9179154	T/TTTTTAGTA	GTGCACAATAACGAAC CCAA	GGTTTCGGGCAAGTTT GATA	59.9	382	INTERGENIC	--	--	--
Ca5_P2_9179395	Ca5	9179395	CTTGATT/CTT	TATCAAACCTGCCCGAA ACC	TGGGTCACCTTTGTTG TTCA	60.0	402	INTERGENIC	--	--	--
Ca5_P2_9179688	Ca5	9179688	ATTA/ATTAATTTTTA	TGAACAACAAAGGTGA CCCA	TTACAACATTCAACGCC CAA	60.0	394	INTERGENIC	--	--	--
Ca5_P2_9182946	Ca5	9182946	GATATATATATATATAT/GATATATAT ATATATATATATATAT	GAATTCCAAACACCACC ACC	CATCGCATGTTCAAAAC ACC	60.0	168	INTRON	Ca_19967	--	--
Ca5_P2_9184586	Ca5	9184586	A/AC	TGGCTTTTCTGTGCTT TGATT	AAGAATGGTGACATG TCAAA	59.0	539	DRR	Ca_19967	--	--
Ca5_P2_9184870	Ca5	9184870	GTTTTTTTTT/GTTTTTTTTT	TGCACCGTTTTTAAGAA AATGA	CCATGACACCCAACAA TTCA	60.2	559	DRR	Ca_19967	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9194215	Ca5	9194215	CATATAT/CATAT	GTGGCGCTCTAGGGA TACA	TTGGTTTCATGACCTG CATC	59.5	456	INTERGENIC	--	--	--
Ca5_P2_9214592	Ca5	9214592	CTTCTCATCTCTACAAC/CTTCTCATCT CTACAACATTCTCATCTCTACAAC	CTTCAAGGCAGAACTT GGG	CAGCGAAGAGGATTGA GGAG	60.1	188	INTRON	Ca_19968	O	--
Ca5_P2_9218051	Ca5	9218051	T/TAATAG	AGATGCTGCCCTTAG ATGA	GCAGTGTGGTGGTTT CCTT	60.0	564	INTRON	Ca_19968	O	--
Ca5_P2_9222686	Ca5	9222686	TCAAAACAAAA/TCAAAA	TTTCTTTCCCTATTG CCA	TGACCGATGTAAATCA ACTGG	59.9	399	INTERGENIC	--	--	--
Ca5_P2_9231109	Ca5	9231109	AAT/A	ATTGATGACGACGTG CTTT	TTTTGCAATTGTGGTCC ATC	59.4	634	INTERGENIC	--	--	--
Ca5_P2_9233301	Ca5	9233301	CAAAA/CAAAA	TTGTAATGCTTTGTAAT GCTTGG	TTTTGGAGGTGTGATT TTGGA	59.4	538	INTERGENIC	--	--	--
Ca5_P2_9248076	Ca5	9248076	CG/C	CATGAAAACCTCAAAAC CAGAA	AACCTAATGCTGTGAG CGGC	60.4	594	INTERGENIC	--	--	--
Ca5_P2_9248295	Ca5	9248295	GTTTTTTTTT/GTTTTTTTTT	GCCGCTGACAGCATT AGTT	TTGGTTTTGCTAACTG CATC	58.0	447	INTERGENIC	--	--	--
Ca5_P2_927603	Ca5	927603	TTAATAATAATAATAATAATAATAAT AATAA/TTAATAATAATAATAATAATAAT AATAATAATAATAATAA	GGTCTTTTGAAAAAAT CTTAACGC	AAGGGGAAGTTAAGC CAGA	60.1	664	INTERGENIC	--	--	--
Ca5_P2_9308007	Ca5	9308007	GTTTTTTTTTTTTT/GTTTTTTTTT	TAACCCACGAGGAAT CAAG	ATTGGTGTGTCATG ATGT	58.5	720	INTERGENIC	--	--	--
Ca5_P2_9348625	Ca5	9348625	TA/TACA	ATATCCCATGTCCGGT TGA	CATTGCTAACAATCTC CACA	58.8	508	INTERGENIC	--	--	--
Ca5_P2_9349749	Ca5	9349749	TA/TAA	CATTGAGTTGTGTGTG GTTCA	TATGGTCCATTGGGG TGAT	59.9	846	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9349938	Ca5	9349938	A/AT	AGCATGATCTATGATGG CGA	ATATGGTCCATTGGG GTGA	59.9	365	INTERGENIC	--	--	--
Ca5_P2_9349975	Ca5	9349975	TAAAAAAA/TAAAAAAA	AGCATGATCTATGATGG CGA	ATATGGTCCATTGGG GTGA	59.9	365	INTERGENIC	--	--	--
Ca5_P2_9350400	Ca5	9350400	ATTTTTTTTT/ATTTTTTTTT	AGTTTGGCCTGACTTG GAAA	GTCATCCGTTAGGGGT TG TG	60.2	626	INTERGENIC	--	--	--
Ca5_P2_9350951	Ca5	9350951	TACTCTCACTCTCACTCTCACTCTC/TA CTCTCACTCTCACTCTC	CACAACCCCTAACGGA TGAC	CCAGAGTGAGAAGGAG GCTG	60.1	276	INTERGENIC	--	--	--
Ca5_P2_9352151	Ca5	9352151	ATT/AT	TCAGAAAGCGCAAAC TATG	TTTGCCACGTCTAATG CAAA	60.3	720	INTERGENIC	--	--	--
Ca5_P2_9352211	Ca5	9352211	GAAA/GAA	TCAGAAAGCGCAAAC TATG	TTTGCCACGTCTAATG CAAA	60.3	720	INTERGENIC	--	--	--
Ca5_P2_9354374	Ca5	9354374	AATATATATATATATA/AATATATATAT ATATATATATA	GCACGGAATAGGTGTC ACAA	CGGGAACAAGGAGTTG AAAA	60.1	332	INTERGENIC	--	--	--
Ca5_P2_9355580	Ca5	9355580	TTATAGTA/TTA	AGATTTCAACAACCAAC GGC	CCAACAGAGCCAACAG TCAA	59.9	572	INTERGENIC	--	--	--
Ca5_P2_9360960	Ca5	9360960	CAAA/CAA	GAGGGACTGCAGGGTC ATTA	TAAACCCAGTGAAGGC AACC	60.0	421	DRR	Ca_19977	T	--
Ca5_P2_9361061	Ca5	9361061	CACAAA/CACAAACAAA	GAGGGACTGCAGGGTC ATTA	TAAACCCAGTGAAGGC AACC	60.0	421	DRR	Ca_19977	T	--
Ca5_P2_9361874	Ca5	9361874	TAAAA/TAAAA	TTGCCCAAGCAATAACA TCA	GACTGCATTGGAGCT GTGA	60.0	303	DRR	Ca_19977	T	--
Ca5_P2_9363095	Ca5	9363095	G/GACTTTT	GGTTGCCTTCACTGGG TTTA	TCGTCATCACACAAGG TGGT	60.0	302	DRR	Ca_19976	Z	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9363778	Ca5	9363778	TGG/TGGG	ACCACCTTGTGTGATGA CGA	TGACCTCAATCCCATT GACA	59.9	552	INTERGENIC	--	--	--
Ca5_P2_9366662	Ca5	9366662	AGTG/AG	CAAAAGCCCCCGTCAT AATA	TCGTCATCACACAAGG TGGT	60.0	217	DRR	Ca_19979	T	--
Ca5_P2_9376555	Ca5	9376555	CAAAAAAAAA/CAAAAAAAAA	TGGAACCAACACACAC CAT	TTCCAACCTTAGCACCC CAC	60.0	698	INTERGENIC	--	--	--
Ca5_P2_9381698	Ca5	9381698	TAAAAAAA/TAAAAAAA	CGACGAATTGCGAGAG TCAA	CGGTGAGGCCCTTTTG ATAA	60.1	140	INTERGENIC	--	--	--
Ca5_P2_9393380	Ca5	9393380	TTTATT/TTT	TCGTCATCACACAAGGT GGT	CAATTGATTCTGGGTTT GCC	60.3	749	INTRON	Ca_19984	T	Dof
Ca5_P2_9403421	Ca5	9403421	TA/TACCTTA	GGCACTTTTCACGTCCA TTT	ACAGCAGAATGGGGTA GTGG	60.0	836	INTERGENIC	--	--	--
Ca5_P2_9410785	Ca5	9410785	TAAAAAAA/TAAAAAAA	TCGTCATCACACAAGGT GGT	ACGGGTGATGTTATTG CCTG	60.8	791	INTERGENIC	--	--	--
Ca5_P2_9410828	Ca5	9410828	ATTTTTT/ATTTTT	TCGTCATCACACAAGGT GGT	ACGGGTGATGTTATTG CCTG	60.8	791	INTERGENIC	--	--	--
Ca5_P2_9416660	Ca5	9416660	TA/TAA	CCATCTTAATCATGGT GTTGG	TTCAACTCCTTTGTTC CCG	60.1	522	INTERGENIC	--	--	--
Ca5_P2_9428698	Ca5	9428698	TAAAAAAA/TAAAAAAA	GTGGGCATTTTACAAC GCTT	GAACGCGCTGTTTTAT TCA	59.0	908	INTERGENIC	--	--	--
Ca5_P2_9433478	Ca5	9433478	A/ATACCG	TCAAAGGCATGTAAAG GGC	AGAGGTCGATGGCCTT CTTT	60.2	238	INTERGENIC	--	--	--
Ca5_P2_9434050	Ca5	9434050	TAAAA/TAAA	GTGTCTTAAGCCACCT GGA	TCATGATTTTACACAAG GGTAGTTTT	59.3	819	DRR	Ca_19988	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9436009	Ca5	9436009	TAAAAAA/TAAAAAA	TTTTCATTCCTTAAATTCGAGA	CCAAAATTCCAAAGCTCCA	60.0	726	INTRON	Ca_19988	--	--
Ca5_P2_9441399	Ca5	9441399	AATTTTATTTT/AATTTTATTTTATTT	TGCGATGGAGAAATCAAGC	CTAGTTTGGCTTGACGGAA	60.2	865	INTERGENIC	--	--	--
Ca5_P2_9441477	Ca5	9441477	CAAAAAA/CAAAAA	TCGTGTCTCAAAATCAAGGAG	CTAGTTTGGCTTGACGGAA	60.2	675	INTERGENIC	--	--	--
Ca5_P2_9442176	Ca5	9442176	GAAAA/GAAAA	CGATGCAGGTGAAGATCAAA	GACAAGGAGCGACAGAGGTC	60.0	389	INTERGENIC	--	--	--
Ca5_P2_9467922	Ca5	9467922	T/TAGCCAATAAAC	CCTCTTTGGTTCATGTGCT	AAGCGTACCTGTGGGAATTG	60.0	489	INTERGENIC	--	--	--
Ca5_P2_9477226	Ca5	9477226	TGAGAGA/TGA	AAACCTGGTTCTGTTGTGCC	ATTCCAAATGGTCCAAAGC	58.9	701	INTRON	Ca_23776	G	--
Ca5_P2_9477271	Ca5	9477271	ATTTT/ATTT	AAACCTGGTTCTGTTGTGCC	ATTCCAAATGGTCCAAAGC	58.9	701	INTRON	Ca_23776	G	--
Ca5_P2_9482725	Ca5	9482725	CTCATT/CT	TGGACGCAGGTGAATATCAA	ATGCATTTTGAAGGTGGAA	60.3	508	INTERGENIC	--	--	--
Ca5_P2_9506879	Ca5	9506879	C/CA	CAACACCACATTCTCTCTTTTC	TTCTCCTTCTTCTTCTTCCA	59.5	386	INTERGENIC	--	--	--
Ca5_P2_9518535	Ca5	9518535	TTCT/TT	CCCTATAGCTACGGGAAAA	TTGTGATTTACGGAATACAATCTT	58.2	208	DRR	Ca_23779	--	--
Ca5_P2_9519834	Ca5	9519834	TTTT/TTTTCTTT	TTTAAATGCAGCGTCTGTG	TTGAATTCTTTGCAGATTATGATG	59.5	782	DRR	Ca_23779	--	--
Ca5_P2_9520123	Ca5	9520123	TAA/TA	TGAGACACATGACTCCAGATTC	CAAATACATTTGCATCGAATTACA	59.0	484	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9520244	Ca5	9520244	CAAAAAAAAA/CAAAAAA	TGAGACACATGACTCCA AGATTG	TCGCGTTGTTTAAAGT GTGG	59.8	754	INTERGENIC	--	--	--
Ca5_P2_9524095	Ca5	9524095	A/AC	GTCCCAATTGCCTTCTG AAA	ATCAATGGCGGAAGC TATG	60.1	799	INTERGENIC	--	--	--
Ca5_P2_9524846	Ca5	9524846	GTAT/GTATAT	CCTTCTTGGTGGCATT GTTT	TGTGTCAGAAGGATCT TGCG	60.0	695	INTERGENIC	--	--	--
Ca5_P2_9525119	Ca5	9525119	ACC/ACCC	CGGCAGACACCTGTAC AAAA	TGTGTCAGAAGGATCT TGCG	60.0	252	INTERGENIC	--	--	--
Ca5_P2_9526232	Ca5	9526232	ACATGGC/ACATGGCATCATCTCATGG C	CAACCAAAATCCTCCTC GAA	GGAAATTGAAATTGGC ATGG	60.1	429	INTERGENIC	--	--	--
Ca5_P2_9535247	Ca5	9535247	GTT/GTAAAAGTCTTTT	GGAAGTGTGGAGAAGT TGCC	GCTAGTCCTGCACCCC CTAT	60.5	915	INTERGENIC	--	--	--
Ca5_P2_9538202	Ca5	9538202	CAAAAA/CAAA	GGACTTGTGGTGGTGG ACAT	ACGACATTGAAAGTTG GGCT	59.6	566	INTERGENIC	--	--	--
Ca5_P2_9545230	Ca5	9545230	TAAAAAA/TAAAAAAA	TGGATACCATTAAAGATG CTTACACA	TTTTGTACCTTCGGCA TTTC	59.1	781	INTERGENIC	--	--	--
Ca5_P2_9552038	Ca5	9552038	GA/G	GATTTTCCGACCCACAC TTG	ATATGAGAGTGATGCG CGTG	59.9	635	INTERGENIC	--	--	--
Ca5_P2_9560267	Ca5	9560267	TAAAAA/TAAAAAA	CCAACATCAATTGGGT AAAAA	AGAGGGACGAAAACAG AGCA	60.0	959	INTERGENIC	--	--	--
Ca5_P2_9560422	Ca5	9560422	ATTTTT/ATTTTTTT	TGTTACAATCCCATAC CAAAAA	AGAGGGACGAAAACAG AGCA	60.0	668	INTERGENIC	--	--	--
Ca5_P2_9561087	Ca5	9561087	ATTTTTTTTTTT/ATTTTTTTT	TCTGTTTTCGTCCCTCT GCT	TCAACATCAAGAAACG CCA	60.2	436	INTRON	Ca_23781	Q	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9565959	Ca5	9565959	ATTTTTTTT/ATTTTTTT	AGAAAACGGCGAGACA GAAA	CCAAATCCAAGTAGCC TTAATCA	59.5	443	DRR	Ca_23782	--	NAC
Ca5_P2_9570925	Ca5	9570925	CTTT/CTTTAATTT	TGGTGAACTGATCTCA AGCA	CTTAATCAACGTGCAG GCAA	59.9	458	INTERGENIC	--	--	--
Ca5_P2_9570971	Ca5	9570971	AATCATATAT/AAT	TGGTGAACTGATCTCA AGCA	CTTAATCAACGTGCAG GCAA	59.9	458	INTERGENIC	--	--	--
Ca5_P2_9581906	Ca5	9581906	CAAAAAAA/CAAAAAAA	CGTTTCATGGTCAATCT TGC	CTTCAATGTGGTTGTG TGGTG	59.9	641	DRR	Ca_23783	--	--
Ca5_P2_9582075	Ca5	9582075	TT/TTAT	AGTGACACCACACAA CCAC	TCTTGAACTGTCCCG AATC	60.1	438	DRR	Ca_23783	--	--
Ca5_P2_9583627	Ca5	9583627	TT/TTGACAAATCTGT	TTGGTAGTAGGTGGG ATGG	GGTATTTGTGTTGCC ATGTG	58.8	260	INTERGENIC	--	--	--
Ca5_P2_9584169	Ca5	9584169	GGT/G	CACATGGCAACACAAA TACC	AGAAAACGGCGAGACA GAAA	60.0	808	INTERGENIC	--	--	--
Ca5_P2_9588253	Ca5	9588253	C/CA	GCCCGAAATTCAC TAG CAC	CAAAGCGATGTTGCAC AGTT	59.9	473	INTERGENIC	--	--	--
Ca5_P2_9590028	Ca5	9590028	TAAAAAA/TAAAAAA	TTGGATGTCATGTACCC AATTC	CACATATGAAATGCAAC GAGG	59.1	697	DRR	Ca_23784	--	--
Ca5_P2_9590301	Ca5	9590301	T/TA	TGTTAATCGGTGATGAA TTTCG	AGCTAAATAAGGGGC CCAA	59.9	633	DRR	Ca_23784	--	--
Ca5_P2_9591660	Ca5	9591660	CAAAAAA/CAAAAAAA	TCACCCAATATTTTAGC CGC	ATTTTCCAAAGCACGTC ACC	60.0	621	INTERGENIC	--	--	--
Ca5_P2_9615366	Ca5	9615366	GTCTCCT/GTCTCCTCTCCT	CCATTTGAACCATTTGA GGG	CCCAACCAAGTTAAAG GCAA	60.0	774	DRR	Ca_23788	C	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9615819	Ca5	9615819	TAAAAA/TAAAAAA	TTGCCTTTAACTGGTT GGG	CGGGTATGGTTTGACT TTATCC	59.6	149	DRR	Ca_23788	C	--
Ca5_P2_9620206	Ca5	9620206	ATTTT/ATTT	ACCACATGGACTGGAA AAGC	CTCTTCAGCATCAGCC ATCA	60.1	528	INTERGENIC	--	--	--
Ca5_P2_9626102	Ca5	9626102	CCACA/CCA	AGTTTCCTCCCCGAAAC CTA	TGGCAAATCGATTGAC AAAA	60.1	657	INTERGENIC	--	--	--
Ca5_P2_9633772	Ca5	9633772	GAAAA/GAAAAA	CCCGTACAGCAAGAAT GTGA	CCCAAACCGATTAAAG GCAA	60.0	394	INTERGENIC	--	--	--
Ca5_P2_96365	Ca5	96365	ATTTTTTTTT/ATTTTTTTTT	ACCAAGATCGCTGAGG CTTA	TGCCATTGAGTCACGT TTACA	60.2	497	DRR	Ca_18165	R	FAR1
Ca5_P2_9650147	Ca5	9650147	ATT/ATTT	TGGCCCTTTTACCATA TCA	CTTTCCTTAAAAACGCG ACG	59.8	556	INTERGENIC	--	--	--
Ca5_P2_9709443	Ca5	9709443	AAGA/AAGATAGA	TGGTGAAGTATTGGTT GATGC	TTGGATTTTGTGTTG GAGTG	59.9	402	DRR	Ca_20495	--	--
Ca5_P2_9710383	Ca5	9710383	ATTTTTTTTT/ATTTTTTTTT	GGTAAATTGGGCTAC ACCA	GTCGAAAAACCGATT TCCT	60.3	482	DRR	Ca_20495	--	--
Ca5_P2_9712503	Ca5	9712503	AA/AATATA	TCTGGGGCTCTTCACT TGT	CCCTATAAATTACGCC AACACA	60.1	826	INTRON	Ca_20495	--	--
Ca5_P2_9719355	Ca5	9719355	ATTTTT/ATTTTT	GGGTTTGGTGAAGCTT TGAA	ACCTATTGTTGTCGAAC CGC	60.0	475	INTERGENIC	--	--	--
Ca5_P2_9720368	Ca5	9720368	A/AT	GCTCACTCCCGTGAA TTCT	CTTCCAAGTAGGGCG ATTT	60.4	112	INTERGENIC	--	--	--
Ca5_P2_9722853	Ca5	9722853	AAAGAA/AAA	TGTTGATCCATTGCGAT TGT	GCCATTACGCTACATC GGTT	60.0	471	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9725274	Ca5	9725274	TTATA/TTATATATA	TTCTGGGACGATGTTCT CAA	TCACATGGAAGCTTTT GTGC	59.8	910	INTERGENIC	--	--	--
Ca5_P2_9733215	Ca5	9733215	TAA/TAAAAA	TTATTCACCGCTTGACA CCA	TTTGCCCTCACAGTTTAT TTTCA	57.5	705	INTERGENIC	--	--	--
Ca5_P2_9733773	Ca5	9733773	AA/AACA	TGTCACCTTAAGGAACGA AAATGAA	CAAGGAAAGAATTGGA TGGG	59.4	295	INTERGENIC	--	--	--
Ca5_P2_9740828	Ca5	9740828	ATTTTTT/ATTTTT	CATCCTCAAATTTTAAA AGGGAA	ACGTGAATCGATGCAA AACA	60.1	843	INTERGENIC	--	--	--
Ca5_P2_9741450	Ca5	9741450	AATA/AA	TGTTTTGCATCGATTCA CGTA	CATTTGGTGC GTTTGTT GTC	60.0	663	INTERGENIC	--	--	--
Ca5_P2_9767795	Ca5	9767795	ATTTTTTT/ATTTTTTTT	AATACCCAAATGCCCC TTC	CTGAACGGATTACAG CAAA	59.8	490	INTERGENIC	--	--	--
Ca5_P2_9768357	Ca5	9768357	ATTTTTTT/ATTTTTTT	TTTGCGTGAATCCAGTT CAG	CATGCAACTTTTAACAT TGGTGT	59.0	585	INTERGENIC	--	--	--
Ca5_P2_9768398	Ca5	9768398	TA/T	TTTGCGTGAATCCAGTT CAG	TTTGATACGAGTGGGT TTGC	58.6	829	INTERGENIC	--	--	--
Ca5_P2_9768596	Ca5	9768596	T/TTTCTAAATAAATGA	TTCTGAAAAATTGGTGC CAT	TTTGATACGAGTGGGT TTGC	58.6	574	INTERGENIC	--	--	--
Ca5_P2_9770208	Ca5	9770208	GAC/GACGAAAC	TTGTTGCTGAAATGTGC CTC	TTCCCTTTCATCAACCC AAG	59.9	154	INTERGENIC	--	--	--
Ca5_P2_9774582	Ca5	9774582	GAAAAAAAAA/GAAAAAAAAA	AAATGGCAATGGTGT GTCA	CATGGAATGTGATCAT ATGTTGG	60.0	890	INTERGENIC	--	--	--
Ca5_P2_9774862	Ca5	9774862	TAAAAAA/TAAAAA	TGTCTTCACAGCTCAAT TGAAAA	TGAGTCTGGCTCAGTG TGCT	59.8	755	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9775672	Ca5	9775672	CAAAAA/CAAAAAA	CAACCCTGCAATTCCAA CTT	GAGTAATGGATCTCGT CCGC	59.7	148	INTERGENIC	--	--	--
Ca5_P2_9777197	Ca5	9777197	TG/T	GGGGATAGAAAGGCAT GAGA	TGTTTGATTTTGAACT GGCA	59.2	419	INTERGENIC	--	--	--
Ca5_P2_9780019	Ca5	9780019	AC/A	CCAAGATTCTTACCCC CAT	CAAGAGAGAGCTTGAC AATCCA	59.6	283	INTERGENIC	--	--	--
Ca5_P2_9782699	Ca5	9782699	TAAAAAAA/TAAAAAA	AAACATGCTTAAGAAA TTCGG	CGCAAAACACTAACC GACA	59.8	689	INTERGENIC	--	--	--
Ca5_P2_9782845	Ca5	9782845	ACCC/ACC	AAACATGCTTAAGAAA TTCGG	CGCAAAACACTAACC GACA	59.8	689	INTERGENIC	--	--	--
Ca5_P2_9784021	Ca5	9784021	GATT/GATTGAATATT	ATTGGAATTGGCACCA GAA	CCTCTGCCTTCTGCT TCTA	59.7	256	INTRON	Ca_20498	S	--
Ca5_P2_9784225	Ca5	9784225	ACTTC/AC	ATGCGCATATGAGTGC TTTG	AAAAGCGGTTTCATCA GTGC	60.3	663	INTRON	Ca_20498	S	--
Ca5_P2_9784304	Ca5	9784304	TAA/TAAA	ATGCGCATATGAGTGC TTTG	AAAAGCGGTTTCATCA GTGC	60.3	663	INTRON	Ca_20498	S	--
Ca5_P2_9784659	Ca5	9784659	CTGAA/CTGAACTGTGAA	TTTTATGTGGCCCAATT TCC	ATCGTTGCATCAAATCA CCA	59.9	324	INTRON	Ca_20498	S	--
Ca5_P2_9808086	Ca5	9808086	TT/TTCT	GTGACGAAGAATGCCA ACAA	GACCTCAAGTTTCACAA TGTGGT	60.3	396	INTERGENIC	--	--	--
Ca5_P2_9808468	Ca5	9808468	ATTTTTTTTT/ATTTTTTTTTT	CCACATTGTGAAACTGT AGGTC	TCAAAATCAGACGATGT TGGTC	60.0	590	INTERGENIC	--	--	--
Ca5_P2_9809593	Ca5	9809593	AATTCATTCATTCATTC/AATTCATTCAT TCATTCATTC	GCATTCAAATCTCCTTG GGA	CTGAGGGCTTCGAAGA AATG	59.9	542	INTRON	Ca_20501	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9809667	Ca5	9809667	ATTTTTTTTT/ATTTTTTTTT	GCATTCAAATCTCCTTG GGA	CTGAGGGCTTCAAGA AATG	59.9	542	INTRON	Ca_20501	O	--
Ca5_P2_9819633	Ca5	9819633	GATA/GATAGTTCATTATA	CCAAGTGGCAAGTTTG GTTT	TCGGTGCAAGTTGAGT TCTG	60.0	545	INTRON	Ca_20501	O	--
Ca5_P2_9821684	Ca5	9821684	GA/GAA	TCATCTTGGCTACAGGA GCA	GTCTCCTCGAGTGTCC AACC	59.7	385	DRR	Ca_20501	O	--
Ca5_P2_9828826	Ca5	9828826	T/TATTATATCTCC	ATGAACGCTCACACTTT TCG	TGGAGAAAACCATGGA AGGA	60.4	539	INTERGENIC	--	--	--
Ca5_P2_9828911	Ca5	9828911	CTTTTTTTTT/CTTTTTTTTT	ATGAACGCTCACACTTT TCG	TGGAGAAAACCATGGA AGGA	60.4	539	INTERGENIC	--	--	--
Ca5_P2_9829260	Ca5	9829260	CTTAATTA/CTTAATTAATTA	ATGAACGCTCACACTTT TCG	TGGAGAAAACCATGGA AGGA	60.4	539	INTERGENIC	--	--	--
Ca5_P2_9829569	Ca5	9829569	ATAGT/ATAGTAGT	CTCGTCCGAGCCATTA AGAG	TGGGAAAAAGGATTTC TGGA	59.5	686	INTRON	Ca_20502	U	--
Ca5_P2_9836320	Ca5	9836320	ATTTTTTTTT/ATTTTTTTTT	CATGGTGAAACATGTG ATTCTG	CCTCTTCAAAGCTCAAC AACC	59.0	700	DRR	Ca_20502	U	--
Ca5_P2_9836437	Ca5	9836437	TAAAAAAAA/TAAAAAAAA	TGAACCGGTAAAGTAA ACCAAA	AAAGCTCAACAACCAC ATGCT	59.8	126	DRR	Ca_20502	U	--
Ca5_P2_9836548	Ca5	9836548	T/TGTATTGTCAA	AGCATGTGGTTGTGA GCTTT	CACACGAAATTTGAGG TGTC	59.6	408	DRR	Ca_20502	U	--
Ca5_P2_9836925	Ca5	9836925	CAAAAAAAAA/CAAAAAAAAA	AGCATGTGGTTGTGA GCTT	GGACCCTTTGAACAAA TCACA	59.8	753	INTERGENIC	--	--	--
Ca5_P2_9841469	Ca5	9841469	TAAAAAAAA/TAAAAAAAA	AACATGTCATTCCTGGA GGC	CCTCTAGGTCACAAGG CAGC	60.0	911	INTRON	Ca_20503	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca5_P2_9850156	Ca5	9850156	AGGGGGG/AGGGGG	TTTGTCTGGCAAGGA GACT	TTATGGTGGGAGGTG TCAT	60.1	757	INTRON	Ca_20503	R	--
Ca5_P2_9856031	Ca5	9856031	AGTGTGT/AGTGT	GTGCAATGTGAATCAC GAGC	GCAAAAATTCACCCAT TGGA	60.7	300	INTERGENIC	--	--	--
Ca5_P2_9857845	Ca5	9857845	CAAAAAAAAAA/CAAAAAAAAAA	AAGGACAAGGAGGTT TCGT	TCTTCTTTGGTGGCGA AAAG	60.4	430	INTERGENIC	--	--	--
Ca5_P2_9859158	Ca5	9859158	GATA/GATAATA	TTTTGCAACGGAAGTT GGT	ATAGCTCATCCATTGTC GGC	60.1	717	INTERGENIC	--	--	--
Ca5_P2_9861256	Ca5	9861256	TAAAA/TA	TCAGACTCCCCTCATGA TCC	ATGAATTTGCCAAGTC GGAG	60.1	627	INTERGENIC	--	--	--
Ca5_P2_9864733	Ca5	9864733	ATTTTTTTT/ATTTTTTTT	TGTACGGGATCCAAAT CCAT	TTGAGCAGACCACTCA TTGC	60.0	496	INTRON	Ca_20504	R	--
Ca5_P2_9865500	Ca5	9865500	TTTTC/T	GGTCCATTTCGAGCCT ATGT	ATGACCTGTTGCATGG TTGA	60.0	602	INTRON	Ca_20504	R	--
Ca5_P2_9874052	Ca5	9874052	ATTTTTTTT/ATTTTTTTT	ATGAAAGCAGTTCGTC CACC	CCAACCCACAAAGAGG AAAA	59.9	638	DRR	Ca_20505	OT	--
Ca5_P2_9883179	Ca5	9883179	TAA/TA	TCGTGGAAGGATAATC CACA	CCTTGCCCTACATC TACA	59.9	477	INTERGENIC	--	--	--
Ca5_P2_9883492	Ca5	9883492	GTTATTATTATTAT/GTTATTATTATTAT AT	TGTAGATGTAGGGGCG AAGG	TATCACTCGTGTGGCG AGTT	59.3	516	INTERGENIC	--	--	--
Ca5_P2_9884435	Ca5	9884435	ATTTTT/ATTTT	TGGTGGATTGTGTTTG GAA	ATACATGCTTCGGCCC TATG	59.9	547	INTERGENIC	--	--	--
Ca5_P2_9899254	Ca5	9899254	GAAAAAAAA/GAAAAAAAA	TCGACATAGTTTGCAAT TTCTTG	GTTTTGAAATGGCCG AATG	60.3	810	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFS
Ca5_P2_9900286	Ca5	9900286	C/CA	CATTTTGCTTGCATCA TTG	TGGAATAGAGTGTGAT TGCTTTC	58.4	172	INTERGENIC	--	--	--
Ca5_P2_9901995	Ca5	9901995	ATTTTTTTT/ATTTTTTT	GCACGAACACACAAGA CAAGA	GAAAGTGAAGCTCCGG TGAG	60.0	649	INTERGENIC	--	--	--
Ca5_P2_9905958	Ca5	9905958	AGA/AGACATTTTCTTGA	GTTGCGGATGATAAC AACC	TTTGAGTCAGGGTGCT GGAT	60.7	713	DRR	Ca_20506	--	STAT
Ca5_P2_9906466	Ca5	9906466	AAA/AAAGATATATTTAA	ATCCAGCACCTGACT CAAA	ACCGTTACCAAATCAGT CGG	59.9	293	DRR	Ca_20506	--	STAT
Ca5_P2_9906701	Ca5	9906701	TTCT/TT	CCGACTGATTGGTAAC GGT	CTACAACCCCTTTGTG GCAT	59.9	306	DRR	Ca_20506	--	STAT
Ca5_P2_9907135	Ca5	9907135	CTTTTTTT/CTTTTTT	ATGCCACAAGGGGTT GTAG	CAAAGCATAAACGCCG CTAT	60.2	439	DRR	Ca_20506	--	STAT
Ca5_P2_9908617	Ca5	9908617	TA/TATGA	GGAGGGAGCAAAGAGG ATTC	TGAGGGTGTGATTGGT TGTG	60.4	752	INTERGENIC	--	--	--
Ca5_P2_9911824	Ca5	9911824	TCC/TC	CCGTCCATAGCTGTTTT GGT	CACCAACTTCCACTGC TTGA	59.9	265	INTERGENIC	--	--	--
Ca5_P2_9912747	Ca5	9912747	AC/A	GCGTTTATGCTTTGCTC AGA	TTCGAATTGGAACCTC ACA	59.1	505	INTERGENIC	--	--	--
Ca5_P2_9917719	Ca5	9917719	GAAAAA/GAAAAAA	TGGACAGAATCAATGCT CCA	TGAGCTACGTCCAGTC CTCA	59.6	677	INTERGENIC	--	--	--
Ca5_P2_9919003	Ca5	9919003	TG/TGG	TGATTGGAGTGGGAAT GGAT	TAAAGCCCTTGTGTGC CTCT	59.9	395	INTERGENIC	--	--	--
Ca5_P2_9951090	Ca5	9951090	GC/G	CTTGACGCATATTATT CCA	GGTTCATGAATTGCAC CACA	60.4	690	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanched scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_9952597	Ca5	9952597	CTT/CTTT	TTGATGGAGACAAATC GAACC	GCCCTAAGAACTTGTG GCTG	59.9	579	INTERGENIC	--	--	--
Ca5_P2_9952651	Ca5	9952651	A/AT	TTGATGGAGACAAATC GAACC	GCCCTAAGAACTTGTG GCTG	59.9	579	INTERGENIC	--	--	--
Ca5_P2_9953374	Ca5	9953374	CTTTTTTT/CTTTTTTTT	GTGACCTTACTCTTTGG CCG	AAATCACAAAATGGCT GGCT	59.6	532	INTERGENIC	--	--	--
Ca5_P2_9954400	Ca5	9954400	TAAAAAAAAA/TAAAAAAAAA	CCAACCTCATTCCAAC TCC	GCAAATCAGTGGAAAA AGCC	59.7	690	INTERGENIC	--	--	--
Ca5_P2_9955402	Ca5	9955402	GA/G	ACAAGGCCAGCTGTAA ATGA	AAGTGGGGGAGGATCA ACTT	59.8	581	INTERGENIC	--	--	--
Ca5_P2_9956290	Ca5	9956290	TAAGAGAA/TAAGAA	TTTGAGGTCCACCACC ATTT	AACAAGGGAGCTCCAC CAC	60.1	697	INTERGENIC	--	--	--
Ca5_P2_9957931	Ca5	9957931	AAGGTT/AAGGTTTATTGAGGTT	TTCTTGTGTGTGGTCTC CCA	TCGGCTATTTTCCCTT CTT	60.0	366	INTRON	Ca_20508	--	WRKY
Ca5_P2_9964705	Ca5	9964705	A/AT	GCCAAGGTAAAGAGAA CGCA	TTGGCGCATAACAAA ATGA	60.1	603	INTRON	Ca_20509	GC	HSF
Ca5_P2_9965556	Ca5	9965556	CTT/CTTTT	TCTCAGGCGACCTGTTT TCT	TTTCCGATCTCAAC GAAC	60.1	385	INTRON	Ca_20509	GC	HSF
Ca5_P2_9981523	Ca5	9981523	TA/T	AAATCCGTGATTCCAAG CTG	GCCGTGAGTCTGATT CATT	60.1	342	DRR	Ca_20510	GC	HSF
Ca5_P2_9984165	Ca5	9984165	CAAAA/CAAAAA	CAGTGGGAGGAATAG CAAA	GGTTGGAATGGCTGCT ACAC	60.5	624	INTRON	Ca_20511	P	--
Ca5_P2_9985669	Ca5	9985669	GTGTGA/GTGTGACTGTGA	CCGGGATATTAAGGG CAAT	CTGGTTGTTTCTTCG CATT	60.1	957	INTRON	Ca_20511	P	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca5_P2_9986447	Ca5	9986447	TAAAAAA/TAAAAAA	TTCAAAATCAACCACGA CCA	AAGGCTTGGGCCATT TACC	60.2	589	INTRON	Ca_20511	P	--
Ca5_P2_9986616	Ca5	9986616	CAAAAAA/CAAAAAA	TTCAAAATCAACCACGA CCA	AAGGCTTGGGCCATT TACC	60.2	589	INTRON	Ca_20511	P	--
Ca5_P2_9998553	Ca5	9998553	C/CAAC	GCCTAAGGACCTCTCA CACG	ATTGGAAGGGAATCA GAGG	60.3	723	INTERGENIC	--	--	--
Ca6_P2_10002215	Ca6	10002215	ATT/ATTT	CCTAATGTAAATGGAG GGGG	CAAGAGGTTCAATTGA CCGA	58.7	291	INTERGENIC	--	--	--
Ca6_P2_10002372	Ca6	10002372	CAATTTATTAATTT/CAATTT	TCGGTCAAATGAACCTC TTG	TCGAATACTGTTTGTAG AACCTTT	58.4	328	INTERGENIC	--	--	--
Ca6_P2_10002807	Ca6	10002807	AAT/AATAT	TGGTGACTTAGTTGAA TATGAAAA	TTTGTGTGCATTTAGTC GCA	58.9	500	INTERGENIC	--	--	--
Ca6_P2_10006128	Ca6	10006128	AA/AAGA	CTTTTAATATCCTCGGC GGG	AATGGATCCTAATTGG CTGG	58.9	542	DRR	Ca_08592	O	E2F/DP
Ca6_P2_10012503	Ca6	10012503	ATTT/ATT	CCCAGTTAACAAGACC CGA	GTTTCGGTTTGGTGTG GTCT	59.9	408	DRR	Ca_08591	R	G2-like
Ca6_P2_10012800	Ca6	10012800	A/AT	ACCATATCCCAAGCAAG CAC	CTATGCCTGGGGCATG ATTA	60.8	792	DRR	Ca_08591	R	G2-like
Ca6_P2_10014793	Ca6	10014793	ACATCTATTCA/ACA	CCACAAAGCATTTC GGT	CCATTGGGTTGTCTT GTCC	60.2	525	INTRON	Ca_08591	R	G2-like
Ca6_P2_10020082	Ca6	10020082	TA/TATATATAA	TGGAAGCGGAAGAAGA AGAA	GATATCGCAATCGCCT TGTT	60.1	383	INTERGENIC	--	--	--
Ca6_P2_10022736	Ca6	10022736	CATATATAT/CATATAT	TTCTCGGGTCTCCATGA TTT	TTTTCTTGCCATTGCT CTT	59.8	822	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10085003	Ca6	10085003	GTTTTTTTTT/GTTTTTTTTT	GGGGTAGTAACCCAC TGTT	AATATGGTCGCCAAG ACTG	60.0	724	INTERGENIC	--	--	--
Ca6_P2_10087584	Ca6	10087584	ATTTT/ATTTT	GGGTTGGAGCAGTGAT GATT	TTTCGCTGAAGAACGT GTTG	60.0	630	INTERGENIC	--	--	--
Ca6_P2_10087606	Ca6	10087606	TAAAAA/TAAAAA	GGGTTGGAGCAGTGAT GATT	TTTCGCTGAAGAACGT GTTG	60.0	630	INTERGENIC	--	--	--
Ca6_P2_10104178	Ca6	10104178	CAAAAAAAAA/CAAAAAAAAA	TTGGTGAGGGCTCCAA ATTA	AAATCCACATCACTAAT TTATTTCA	59.2	534	INTERGENIC	--	--	--
Ca6_P2_10105663	Ca6	10105663	CAAAAAAAAA/CAAAAAAAAA	TAGGCCCACTAAACC ACAA	AAATCCAATTTGCCAT GTTT	59.6	894	INTERGENIC	--	--	--
Ca6_P2_10105791	Ca6	10105791	GAAAAAA/GAAAAAA	TCCTTCAATACTTGGA TGGA	TCACATGCGAAAAATAA CGTG	59.6	909	INTERGENIC	--	--	--
Ca6_P2_10106009	Ca6	10106009	GTTTTTTTTT/GTTTTTTTTT	TTTGCCTAACAATCTC TTGAA	CCACCACCAACAAGTT TCCT	59.9	723	INTERGENIC	--	--	--
Ca6_P2_10107731	Ca6	10107731	CTTTTTTTTT/CTTTTTTTT	GCGCAAGGTTGCATAA ATCT	ACTCGTGCTAGCGACA TTGA	59.6	766	INTERGENIC	--	--	--
Ca6_P2_10107926	Ca6	10107926	CACAATAA/CA	TGCACATCAACCTTAA TTCCA	GTTTCCGATTGCCAGG TTTA	59.9	745	INTERGENIC	--	--	--
Ca6_P2_10109158	Ca6	10109158	TCACTTGCCACTTG/TCACCTGCCACT TGCCACTTGC	TCCTTGCAAGCCTCAA ACT	AGAACAGCCACCCAC ATAG	60.0	198	INTRON	Ca_08580	J	--
Ca6_P2_10116272	Ca6	10116272	CGTCACAAAAGGTC/CGTCACAAAAGG TCACAAAAGGTC	CTGTGCGTGGATACAT GAGG	AATGGTGGTTGCCATA GCTC	60.0	379	INTRON	Ca_08580	J	--
Ca6_P2_10122092	Ca6	10122092	GAAGTATGCAA/GAA	CCCATAACGTTTTTGCC CTA	TAAGGTCCTTTTGGGA CGTG	60.0	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10123378	Ca6	10123378	AAGTA/AA	TTTCTTCCGTCACAG CTG	TTTTTGATTCGCAG ACG	59.8	175	INTERGENIC	--	--	--
Ca6_P2_10126626	Ca6	10126626	TGG/TG	GGCCTTAATGGATTGCT TGA	AAGCCGGTTCAGAATA TCACA	59.6	697	INTERGENIC	--	--	--
Ca6_P2_10135848	Ca6	10135848	TTTTTT/TTTTTTATTTTT	TTCCAAGGATCCATT CCA	TATTTGTGCGGTGTA CCCA	59.8	440	INTERGENIC	--	--	--
Ca6_P2_10138349	Ca6	10138349	TTATAT/TTAT	TGGCTGGAGGAGCTAC ATCT	CAGCGTAGTCCTCTTC GGAC	60.0	478	INTRON	Ca_08579	--	FAR1
Ca6_P2_10139493	Ca6	10139493	ATTTTTTT/ATTTTTT	CTCCCAATCCAAAGGAA ACA	AGGCAGCAAAAAGATG CTGT	60.0	351	DRR	Ca_08579	--	FAR1
Ca6_P2_10148412	Ca6	10148412	ATACT/ATACTACT	AACGATCGGGTTGAAA TCAG	GAATGTCGTCCAGACC CAGT	60.0	259	DRR	Ca_08577	--	--
Ca6_P2_10149425	Ca6	10149425	CAA/CAAAA	TGGTTTATCGTGGACCA ATG	CCATCAGATACCTCGC CAAT	59.9	863	DRR	Ca_08577	--	--
Ca6_P2_10153392	Ca6	10153392	CATTAAATTAATTAATT/CATTAAAT ATTAATT	CTTGTGGTACCCTCCCT GAA	GTGGGTTCAAATCCAA CACC	60.1	666	INTERGENIC	--	--	--
Ca6_P2_10153682	Ca6	10153682	AC/A	ACCCTCGAAATAGGGG AAGA	ATAGCATTGCCTTCAG CGAT	59.8	337	INTERGENIC	--	--	--
Ca6_P2_10154002	Ca6	10154002	ATAAAAT/A	ACCCTCGAAATAGGGG AAGA	TGTTTCTACCAAACCAT TCGC	60.0	965	INTERGENIC	--	--	--
Ca6_P2_10154832	Ca6	10154832	CATAAACTTATA/CATAAACTTATAACT TATA	TATTAATTATGCGCGAG CGA	TGCAACAACTCTCAAAA TAGGG	59.3	719	INTERGENIC	--	--	--
Ca6_P2_10158083	Ca6	10158083	AT/A	AATCAAGTGCTCTCC CCC	TTGAAAACCTCATGGA CCCT	59.4	206	INTRON	Ca_08576	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_10158397	Ca6	10158397	GCT/G	GCATATGGAACATGTG CAGG	TGCTTATCCAAGCATTG TGC	59.8	443	INTRON	Ca_08576	--	--
Ca6_P2_10163284	Ca6	10163284	ATTTTTT/ATTTTTT	CCACAACAAAGGACGA GACA	CATGGACACAAATTGC AAGG	60.0	827	INTERGENIC	--	--	--
Ca6_P2_10167866	Ca6	10167866	GA/GAA	ACCGTGGAAGAATCG TGTC	GCACCCAAGTCATGGA ATCT	59.9	422	DRR	Ca_08574	J	--
Ca6_P2_10174917	Ca6	10174917	TA/T	CCGAATCCAACAATC ATTC	AAAACAAAGTGAACGT TAAATGCAC	59.8	709	INTERGENIC	--	--	--
Ca6_P2_10178382	Ca6	10178382	TC/T	TATCTAACGTGCCCCCT CAC	ACAGGGGAAACTAGAC CCGT	59.9	635	INTRON	Ca_08573	--	ERF
Ca6_P2_10178910	Ca6	10178910	TA/T	ACGGGTCTAGTTTCCC CTGT	TTAATGCCTAGATCCTG CGG	60.2	166	INTRON	Ca_08573	--	ERF
Ca6_P2_10180510	Ca6	10180510	CTCTTTCTTC/CTCTTTC	GAGACAACTGAAGGC CGAG	GGTTGGTCTCGAATAA GGCA	60.1	561	DRR	Ca_08573	--	ERF
Ca6_P2_10180848	Ca6	10180848	ATATTTAT/ATATTTATTTAT	GCCTTATTCGAGACCAA CCA	CGTTGAATCCCGCAGA TACT	60.1	278	DRR	Ca_08573	--	ERF
Ca6_P2_10180879	Ca6	10180879	TAAA/TAAAA	GCCTTATTCGAGACCAA CCA	CGTTGAATCCCGCAGA TACT	60.1	278	DRR	Ca_08573	--	ERF
Ca6_P2_10185118	Ca6	10185118	CATAAAA/CATAAAATAAAA	ATATGAAACAGCGAGG GGTG	AGGCCACAAC TTGTCA TTTG	58.6	707	INTERGENIC	--	--	--
Ca6_P2_10185136	Ca6	10185136	AAAA/AAAATAAA	ATATGAAACAGCGAGG GGTG	AGGCCACAAC TTGTCA TTTG	58.6	707	INTERGENIC	--	--	--
Ca6_P2_10185405	Ca6	10185405	TAAA/TAAAA	TTTTTGACGAGATTGGC AATTA	AGGCCACAAC TTGTCA TTTG	58.6	528	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_10185645	Ca6	10185645	GAAA/GAAAA	TGACAAGTTGTGGCCT ATGAA	GGGACCACAGATGTAA TTTAGCC	60.9	488	INTERGENIC	--	--	--
Ca6_P2_10190857	Ca6	10190857	C/CT	AGGGTATTTTCACGCA GGTG	CGAACGCACACACTTT TCAT	59.8	433	INTRON	Ca_08570	I	--
Ca6_P2_10191185	Ca6	10191185	TT/TTAT	AGGGTATTTTCACGCA GGTG	TTTGGGCCTATGAAAG ATGC	60.0	633	INTRON	Ca_08570	I	--
Ca6_P2_10201236	Ca6	10201236	GTTTTTTT/GTTTTTTTT	TGAGAAGAGGGGCTTA CTGTG	ACAACCCCAATTACAAG CCA	60.2	223	INTERGENIC	--	--	--
Ca6_P2_10202354	Ca6	10202354	GTACATACAT/GTACAT	CATCAATATGGGTTCCC CAC	ACGATAATCGCGTCCA AGTC	60.1	435	INTERGENIC	--	--	--
Ca6_P2_10204242	Ca6	10204242	TTAT/TT	CACATGGGAAAAGCGA AAAT	AAGGCCCTATCCACA AACT	59.8	741	DRR	Ca_08569	R	bZIP
Ca6_P2_10204457	Ca6	10204457	ATT/ATTT	CACATGGGAAAAGCGA AAAT	AAGGCCCTATCCACA AACT	59.8	741	DRR	Ca_08569	R	bZIP
Ca6_P2_10204645	Ca6	10204645	ATTTTTTT/ATTTTTT	TTGATTCTTGATATGC TTTCC	AAGGCCCTATCCACA AACT	59.8	146	DRR	Ca_08569	R	bZIP
Ca6_P2_10205810	Ca6	10205810	GTTTTTTTTT/GTTTTTTTTT	AAAAACAAAACCACTT GCG	TTGATTGGTTAGACCC AGGC	59.9	238	INTERGENIC	--	--	--
Ca6_P2_10208472	Ca6	10208472	ATTTT/ATTTT	TGATCGCATTAACTTT GACTG	AGAAAATCCCTCTCCC CAC	59.4	656	INTERGENIC	--	--	--
Ca6_P2_10209877	Ca6	10209877	ACTCTCTCT/ACTCTCT	AGGGAGAGTCGATTTC GGGT	CAGGGTTTTGGGTTTG AAGA	59.9	137	INTERGENIC	--	--	--
Ca6_P2_10218013	Ca6	10218013	TAAAA/TAAAA	ATCATCTTGAATTGTG CCC	TAGGCAACCAATCGTC ATCA	60.1	505	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10219150	Ca6	10219150	ATTTT/ATATTATTTT	TCGGTGGAATTTACAA TTTAAGA	GGAACAACCATCTCT CCGA	60.1	517	INTERGENIC	--	--	--
Ca6_P2_10220052	Ca6	10220052	TA/T	AACCGTTGGACTACAA CGC	ATTTTGCTTGGTTGCC AAT	59.5	685	INTRON	Ca_08567	--	--
Ca6_P2_10224803	Ca6	10224803	TC/TCC	CCCCGAGTTTGTGTTG TAT	GATGCTATTGTGGCA TGTG	60.0	641	DRR	Ca_08566	T	FAR1
Ca6_P2_10237668	Ca6	10237668	GAATAA/GAA	CGTTCAACTCAAGGTG AGAGA	TCTCGTGCAAAATACAT GTGAC	58.7	562	INTERGENIC	--	--	--
Ca6_P2_10245704	Ca6	10245704	T/TC	TTCTTTTGCACTTCAG GGG	GGCTGGCTAGACAGAT GGAC	59.8	730	INTERGENIC	--	--	--
Ca6_P2_10245717	Ca6	10245717	CTTTTTTTTT/CTTTTTTTTT	TTCTTTTGCACTTCAG GGG	GGCTGGCTAGACAGAT GGAC	59.8	730	INTERGENIC	--	--	--
Ca6_P2_10245947	Ca6	10245947	AAATAATAATAATA/AAATAATAATAATA ATAATA	TTGATCTGCACCAAGAT GCT	GGCTGGCTAGACAGAT GGAC	59.8	643	INTERGENIC	--	--	--
Ca6_P2_10249635	Ca6	10249635	GTTATTATTATTATTATT/GTTATTAT TATTATTATT	CTAAGGCTGTGTGCCT TTCC	TGGAATCAAGAAACCA GCAA	59.2	625	DRR	Ca_08565	R	bZIP
Ca6_P2_10249976	Ca6	10249976	GAAAAAAAA/GAAAAAAAA	TTCCATCCAGTGAAAA GGT	ACTATCACGCCCTCAT CACC	60.0	670	DRR	Ca_08565	R	bZIP
Ca6_P2_10250923	Ca6	10250923	CAAAA/CAAAA	TTATAAGCACTCGCGTT CCA	AAATCCGCGATTGGTT TCTA	59.5	409	DRR	Ca_08565	R	bZIP
Ca6_P2_10250959	Ca6	10250959	TAAA/TAAAA	TTATAAGCACTCGCGTT CCA	TGGGTATCTTCCTGCA ATCC	59.9	855	DRR	Ca_08565	R	bZIP
Ca6_P2_10251637	Ca6	10251637	TTTCAATAATT/TTTCAATAATTCAATAA TT	GGATTGCAGGAAGATA CCCA	TCGTAACGGTTTCTTT GGC	60.1	640	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10251944	Ca6	10251944	CTCATCATCATC/CTCATCATCATC ATCATC	CATATAGGGTGGGTT GGTG	ATCCAAAACGACGACG AATC	59.9	344	INTERGENIC	--	--	--
Ca6_P2_10253486	Ca6	10253486	TTGTGT/TTGTGTGT	ATTCTGCCAACACTGG CTTT	TTTTGTTCCTCTCCCT CCT	60.0	603	INTRON	Ca_08564	--	--
Ca6_P2_10255930	Ca6	10255930	T/TC	AATGGCAAAATCAAAGT GCC	TTTAAAATTCAAAAGG GGGA	57.7	885	DRR	Ca_08564	--	--
Ca6_P2_10255958	Ca6	10255958	AAACAA/AAA	AATGGCAAAATCAAAGT GCC	TGGGGCTAAAAGTAG GACAA	58.8	942	DRR	Ca_08564	--	--
Ca6_P2_10258047	Ca6	10258047	GCACA/GCACACA	TGAATTGACAATGCTGA GTATGAA	CAGAAGATTCTTTCTG CCGT	59.9	378	INTERGENIC	--	--	--
Ca6_P2_10259019	Ca6	10259019	AAGAGA/AAGAGAGA	TCCAGGTTTTCTTCCC TCT	GGTGACGACGACTACG GAAT	60.0	503	INTERGENIC	--	--	--
Ca6_P2_10259432	Ca6	10259432	GTTTTTT/TTTTTTTTTT	ATTCGCTAGTCGTCGC ACC	AAGGCAGCGTTGAAGG TAGA	60.0	505	INTERGENIC	--	--	--
Ca6_P2_10265158	Ca6	10265158	ACATGTCTAACTACTTCA/ACATGTCTA ACTACTTCATGTCTAACTACTTCA	TTGATTTGTGCATTGGT GCT	TCCCTTGATTGTTCTT TTGG	59.1	199	DRR	Ca_08562	S	--
Ca6_P2_10271697	Ca6	10271697	ATTT/ATTTT	AACACTGGTTTGACAC GCAC	CAAAATCCGCTAGCAC CCTA	60.2	424	INTERGENIC	--	--	--
Ca6_P2_10272072	Ca6	10272072	AGGG/AGG	AACACTGGTTTGACAC GCAC	ATGTAGTGCTTGCTC CGTC	60.3	566	DRR	Ca_08561	--	--
Ca6_P2_10272224	Ca6	10272224	G/GGCGTATAT	TAGGGTGCTAGCGGAT TTTG	AAGGCACCCATTAGTT GACG	60.0	550	DRR	Ca_08561	--	--
Ca6_P2_10273114	Ca6	10273114	ATTTTTT/ATTTTTT	GAGATCAGACTGACGC CACA	TGGCGAAGGATCTTCT AAAAA	59.0	723	DRR	Ca_08561	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10274046	Ca6	10274046	TAAAAAA/TAAAAAA	CTGCCATCAGCCATCT CTTT	GGTATTTGCATTGGC ACC	60.2	537	INTRON	Ca_08561	--	--
Ca6_P2_10275563	Ca6	10275563	CTTT/CTTT	AGGTCTAGGCCAAATC AGAAA	ATGTGCCATGTCGTAG GCTT	60.5	497	DRR	Ca_08560	R	--
Ca6_P2_10278065	Ca6	10278065	CAAAAAAAAA/CAAAAAAAAA	CACAACCTGCATCACAC ACA	CAATCTGTTAGTCCCG GTGG	60.4	981	INTRON	Ca_08560	R	--
Ca6_P2_10280370	Ca6	10280370	GTTTTTT/GTTTTTT	CACCTGATATCTATCGG TTTTGG	TTTCCAGCGACCATG TAAT	60.3	505	INTERGENIC	--	--	--
Ca6_P2_10281843	Ca6	10281843	TTATATATA/TTATA	GGATTGGACGTACTCT CGGA	TGATGTTTTATTCCAAT TTTATGGA	58.8	618	INTERGENIC	--	--	--
Ca6_P2_10281969	Ca6	10281969	TAAAAAA/TAAAAAA	TGGATCCATGCACACAT CTT	CGACAATTAAAAGGAAT AGCGG	60.0	605	INTERGENIC	--	--	--
Ca6_P2_10282276	Ca6	10282276	TAAAAAA/TAAAAAA	TCCATAAAATTGGAATA AAACATCA	CGACAATTAAAAGGAAT AGCGG	60.0	330	INTERGENIC	--	--	--
Ca6_P2_10282642	Ca6	10282642	AATTA/AA	CCGCTATTCCTTTAAT TGTCG	AACAAAAACCATGTTCC CGA	60.2	546	INTERGENIC	--	--	--
Ca6_P2_10287370	Ca6	10287370	CTAATTAATTAAT/CTAATTAATTA ATTAATTAAT	AAAGTGGCACATGGTG AGTG	GAAGTGGCACATGTTG ACTGA	59.7	478	INTERGENIC	--	--	--
Ca6_P2_10287687	Ca6	10287687	AT/ATT	AAAGTGGCACATGGTG AGTG	CAATGATTTTGAATCG TCC	59.0	796	INTERGENIC	--	--	--
Ca6_P2_10293303	Ca6	10293303	TG/TGG	ATGGTGCGTCCATAATT GGT	CATCCTCGGATGTGCA AGTA	59.7	645	DRR	Ca_08558	R	NAC
Ca6_P2_10300517	Ca6	10300517	GTTTTTT/GTTTTTT	GCCATACAATTATCATG AGGAGA	CAGCATTTTGATTGA GGAAA	60.1	555	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10305700	Ca6	10305700	CATA/CATATA	TTTGTGCCACCAGAAA GTG	GGCGGTAACAAATAGA TGAATG	58.5	422	INTERGENIC	--	--	--
Ca6_P2_10306981	Ca6	10306981	TAAAAAAAAA/TAAAAAAAAA	GGCACTTTGAAGGAGA CTGC	CGATTTGAAGTATTCA TCTACTTTCT	57.8	550	INTERGENIC	--	--	--
Ca6_P2_10316984	Ca6	10316984	C/CG	TGCAGAACACAAACAT GGC	ATTGCATCCGATTGTC TCC	59.9	613	INTERGENIC	--	--	--
Ca6_P2_10317249	Ca6	10317249	TAAA/TAAAAA	TGGAGGAAACCATCTG TGAA	CCGATTGTTCTCCACC ATTG	60.3	371	INTERGENIC	--	--	--
Ca6_P2_10317764	Ca6	10317764	TAAA/TAAAA	GAATGGTGGAGAACAA TCGG	TCATCCTCGCTATGGC TTTT	59.8	743	INTERGENIC	--	--	--
Ca6_P2_10318007	Ca6	10318007	T/TC	CCCAAGGCCTAAGACA AATG	GGTGTATGCCCTGTGT GTTG	59.9	621	INTERGENIC	--	--	--
Ca6_P2_10318872	Ca6	10318872	CTTTTTTTTTTT/CTTTTTTTTTTT	TTAACCACCGGTTCTC AAG	TGACATGGTTGGCTGT GAAT	60.0	724	INTERGENIC	--	--	--
Ca6_P2_10334367	Ca6	10334367	CTTATATTATATTATATTATATTATTA TATT/CTTATATTATATTATATTATATT ATT	TTGGGCAAAGTCCAAC ATAA	AGTGCTCGAGAGAACC CAAA	60.0	239	INTERGENIC	--	--	--
Ca6_P2_10364460	Ca6	10364460	A/AC	CCCAATTAATTTGTTTC CGTG	TGATTTTCGTCTACATT TTGAGTACC	59.9	212	INTERGENIC	--	--	--
Ca6_P2_10368139	Ca6	10368139	TAAAA/TAAAA	TTTATTGTTGTTCCGTG AGGG	AAACATTTTCAAATG GTGCAT	59.7	452	INTERGENIC	--	--	--
Ca6_P2_10371564	Ca6	10371564	CAAA/CAA	CAAAGGAAATGAGCGT CACA	TGTTTTCTTTGGCTTG GATCT	60.1	810	DRR	Ca_08555	--	ERF
Ca6_P2_10371785	Ca6	10371785	TAAAAAAAAA/TAAAAAAAAA	AAGGATTGTCATTGATG ATAGTGAA	TTTTGGCTTGATCTCA TTTTT	60.0	481	DRR	Ca_08555	--	ERF

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_10377538	Ca6	10377538	ATA/ATATTATTATTA	CTCGATTGGGCGAA ATAA	TTGGCGCATCAATTT GTA	60.1	549	INTERGENIC	--	--	--
Ca6_P2_10377559	Ca6	10377559	TTA/TTATTATTAATA	CTCGATTGGGCGAA ATAA	TTGGCGCATCAATTT GTA	60.1	549	INTERGENIC	--	--	--
Ca6_P2_10377821	Ca6	10377821	ATGT/AT	CTCGATTGGGCGAA ATAA	TTGGCGCATCAATTT GTA	60.1	549	INTERGENIC	--	--	--
Ca6_P2_10377971	Ca6	10377971	GTTTTTTTT/GTTTTTTTT	AAAAATTGATGCGCAA ATC	CAATTGACATCTTTCG CCT	60.1	387	INTERGENIC	--	--	--
Ca6_P2_10378676	Ca6	10378676	AA/AATA	TTTGAAGGCCGAAAG TGTC	TAAATGTCGACGATCC AACG	59.5	737	INTERGENIC	--	--	--
Ca6_P2_10384364	Ca6	10384364	CAGTAA/C	AATAACTGCAAAGCAT CCG	CAAATGAGAGAGTGCT TGCG	59.7	755	INTRON	Ca_08554	O	C2H2
Ca6_P2_10385256	Ca6	10385256	CTATAT/CTAT	TAGGAATCAGCCCTTC CCTT	TCTGCTTCTTTTGAG GTT	60.0	460	INTRON	Ca_08554	O	C2H2
Ca6_P2_10386575	Ca6	10386575	TTGTGTGTGTGTGTGTGT/TTGTGTG TGTGTGT	GATGGAGGTTTCATGGT TGCT	ACAGAAGGATTGGTGA TGGC	59.9	444	INTRON	Ca_08554	O	C2H2
Ca6_P2_10388371	Ca6	10388371	ATTTT/ATTT	TTTTGCTGCTTCGGAAG TCT	TCCAACCTCTCCGAATC CAC	60.1	294	INTRON	Ca_08554	O	C2H2
Ca6_P2_10388677	Ca6	10388677	ATTTT/ATT	GTGGATTCGAGAAGT TGGA	ACAGTTGTGACCGCAT ACGA	60.2	220	INTERGENIC	--	--	--
Ca6_P2_10389010	Ca6	10389010	AATAT/AATATAT	TTCCGGTGACTTCTTTG GTC	GGAATCGAGGCTCTTT ATGACA	60.6	446	INTERGENIC	--	--	--
Ca6_P2_10389105	Ca6	10389105	TTAAATAAATAATAA/TTAAATAATAA ATAATAA	CGTATGCGGTCACAAC TGTC	TGAGTTGATTGGATG AGCAA	59.3	830	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10393319	Ca6	10393319	ATTTTTTTTT/ATTTTTTTT	GTGGTGCTGTGCAGTC ACTT	AACCCATGCCATCCAA ATTA	60.0	289	INTRON	Ca_08553	R	MYB_related
Ca6_P2_10395343	Ca6	10395343	TAAAAAAAAAAAAA/TAAAAAAAAAAAA	GTGTGTGGGTTTTGG CTTT	TTTGCAGCAAGGCAAC ATAG	60.0	565	INTRON	Ca_08553	R	MYB_related
Ca6_P2_10399140	Ca6	10399140	ATTTTTTTTT/ATTTTTTTT	TTGCTATGCATTGACGG TGT	GCGAATCGAAAAATGT GAGA	58.8	626	INTRON	Ca_08553	R	MYB_related
Ca6_P2_10399722	Ca6	10399722	G/GTAGAGCCA	TCTCACATTTTTCGATT CGC	CAAGGAACTTGCCGCT TTAG	60.0	190	INTRON	Ca_08553	R	MYB_related
Ca6_P2_10399782	Ca6	10399782	CT/CTT	TCTCACATTTTTCGATT CGC	GGGTTTGAGGTGGTGT GAGT	59.9	523	INTRON	Ca_08553	R	MYB_related
Ca6_P2_10404671	Ca6	10404671	CATTAAATTAAATTAAATTA/CATTAAAT TAAATTAAATTAAATTA	AGATGGATATCTGCAC CCTCT	TCAAGCTGATGGCTCT TG TG	60.1	579	DRR	Ca_08553	R	MYB_related
Ca6_P2_10412258	Ca6	10412258	GAAAAA/GAAAAA	AGGGCCAAACTTGGAT CTTT	TTTTCACAACTCACAG GGA	59.4	374	INTERGENIC	--	--	--
Ca6_P2_10416650	Ca6	10416650	CAATAATAATAATAAT/CAATAATAATAA T	CCTCAACTCATTGAGAG GGC	GGGATGCGACCAGAAG ACTA	60.2	607	INTERGENIC	--	--	--
Ca6_P2_10417732	Ca6	10417732	TGG/T	CTCACTTGTTGGGTTTC CTCT	CCCCCTCGAACAAACA AATA	59.8	369	INTERGENIC	--	--	--
Ca6_P2_10424044	Ca6	10424044	CAAAAA/CAAAAAA	CGAAAAATGGTGATCTT GCT	GCAAAATATCCCACTCAA AAAGC	60.0	652	INTERGENIC	--	--	--
Ca6_P2_10424375	Ca6	10424375	TA/T	GCTTTTTGAGTGGGATA TTTGC	TGACAAAAAGTTACAC GCGG	59.8	484	INTERGENIC	--	--	--
Ca6_P2_10427517	Ca6	10427517	T/TC	TGCTTATTGACGTTTGC AGC	TCCCAAGACTCAAAGG ATGC	60.2	618	INTRON	Ca_08552	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10429061	Ca6	10429061	TGGGG/TGGGGG	TCCATGCTCTGCTAACT CCA	AAGATGACGCCACAGC TCTT	60.0	787	INTRON	Ca_08552	R	--
Ca6_P2_10430968	Ca6	10430968	TTCT/TTCTCT	GCTAATTCTCATCCGCA AGC	TCACAACCCCAAGACA ACAA	60.0	703	INTRON	Ca_08552	R	--
Ca6_P2_10431281	Ca6	10431281	TAGCCA/TA	AGGCTGCAGCAACGAT TTAT	TCACAACCCCAAGACA ACAA	60.0	481	INTRON	Ca_08552	R	--
Ca6_P2_10438851	Ca6	10438851	CA/C	TCTCTTGAACCTCTCG ACAA	ATTGGTCCTCTACCCC CATT	59.5	302	DRR	Ca_08552	R	--
Ca6_P2_10439345	Ca6	10439345	TA/TAA	CCACAATGAAATGGGG GTAG	ACCTCAGCCGCACTAT TTGT	59.8	683	DRR	Ca_08552	R	--
Ca6_P2_10457521	Ca6	10457521	T/TCTTTTCTAAGTC	TTCTTCGGTCTTGCT GCT	ATTTCGGATCATGCAA CACA	59.9	551	INTRON	Ca_08551	--	--
Ca6_P2_10458622	Ca6	10458622	TGGATG/T	CAGAGTTGGAGTGGTG CAAA	TTTTCAGTTTCGCCATG GAT	60.4	567	INTRON	Ca_08551	--	--
Ca6_P2_10467944	Ca6	10467944	TAAAA/TAAA	GCATTTTGCATGTGCAG TTT	TGATTCAACGGTTTGAT TGAA	59.0	478	DRR	Ca_08549	O	--
Ca6_P2_10472712	Ca6	10472712	TAAAAAAA/TAAAAAAA	AACCAGATCAGATTGTC GCC	TGGGATGAATTTGGAT CATTT	59.1	852	INTERGENIC	--	--	--
Ca6_P2_10473199	Ca6	10473199	TAAAAAAA/TAAAAAAA	AAATGATCCAATTCAT CCCA	TGTTGAAACTTGAAACA TTCTGTC	58.3	430	INTERGENIC	--	--	--
Ca6_P2_10473618	Ca6	10473618	TCACA/TCACACA	TCATCCCATATTCACCT AACCA	CCAACCTTTAGGCGCA CTTC	60.0	724	INTERGENIC	--	--	--
Ca6_P2_10475624	Ca6	10475624	TAA/TA	AACGCGCGTCAGAGTC TAAT	CCGCAAGTGTCCTAA TTTT	59.1	416	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_10475712	Ca6	10475712	AT/ATT	AACGCGCGTCAGAGTC TAAT	CCGCAAGTGCCCTAA TTTT	59.1	416	INTERGENIC	--	--	--
Ca6_P2_10476151	Ca6	10476151	TA/T	GCCCATTTATGGGGT ATTT	GCTCTGTGGGAAGTGA GGAG	60.0	595	INTERGENIC	--	--	--
Ca6_P2_10476377	Ca6	10476377	TAAAAAAAAA/TAAAAAAAAAAAAA	GCCCATTTATGGGGT ATTT	GCTCTGTGGGAAGTGA GGAG	60.0	595	INTERGENIC	--	--	--
Ca6_P2_10478111	Ca6	10478111	GAA/GA	AAGTTTCGACTTGGCTG GAA	TTGAGAGGCAGCCTAA GGAG	59.7	570	INTRON	Ca_08548	E	CAMTA
Ca6_P2_10481911	Ca6	10481911	TAG/TAGAG	GCCGTAGATGATAGGC CAAA	TGCTCCTGCAAAATCAA CAG	60.0	359	INTRON	Ca_08548	E	CAMTA
Ca6_P2_10482318	Ca6	10482318	CA/C	CAAGTGGGAAAATGGC AAGT	ATTGGATTGAGTTGGG CTTG	59.9	535	INTRON	Ca_08548	E	CAMTA
Ca6_P2_10482453	Ca6	10482453	AGACT/A	CAAGTGGGAAAATGGC AAGT	ATTGGATTGAGTTGGG CTTG	59.9	535	INTRON	Ca_08548	E	CAMTA
Ca6_P2_10484853	Ca6	10484853	CTTT/CTT	TGGTCATGCTTGTCTG AGG	CTGCATACACGACC ACCG	60.0	353	DRR	Ca_08547	G	C2H2
Ca6_P2_10486008	Ca6	10486008	ATTT/ATTTTT	AATCAAGTATTTGTCG GCG	TCTGTGGAAGCAAGAT GCAC	60.0	650	DRR	Ca_08548	E	CAMTA
Ca6_P2_10490608	Ca6	10490608	GAA/GA	GCCTGGCTGAAATGA AGAG	TCTTGATGGAAGAAT CGGG	60.0	576	INTRON	Ca_08547	G	C2H2
Ca6_P2_10493408	Ca6	10493408	TCT/TCTTTTATACACT	TTGGTTTGGGCTAAGAT TGG	GCAGCAACTGTGACCT TTCA	60.0	669	INTRON	Ca_08547	G	C2H2
Ca6_P2_10497132	Ca6	10497132	CAAAATAAATAAATAAATAA/CAAA TAAATAAATAAATAA	ACCACCTTTGAGACAAA CCG	GTTTGCACTGGTTTCC CTGT	60.0	291	INTRON	Ca_08547	G	C2H2

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10499708	Ca6	10499708	AT/A	CCAAACTTCACTCCAC CGT	TAAATTGCATCGCAAG TCG	59.8	840	DRR	Ca_08546	--	--
Ca6_P2_10499993	Ca6	10499993	G/GTA	CGCTCGTTGATTCAAA CAATA	TAGATTGGCTGCAGAA CACG	60.0	894	DRR	Ca_08546	--	--
Ca6_P2_10501710	Ca6	10501710	ACC/AC	TTGATTGCTTTTGTTC TGC	GAAGTCAACTCCACC CAAT	60.0	461	INTRON	Ca_08546	--	--
Ca6_P2_10503058	Ca6	10503058	AATATATA/AATATA	AAACATGCTTTTGATT TTTGT	GACTTCAACCGGTAGC TGA	60.3	407	INTERGENIC	--	--	--
Ca6_P2_10507065	Ca6	10507065	TAAAA/TAAAAA	CGATTGAGATTGCATCG AGA	GGCATGTCCACTGTGA TGTC	60.0	395	INTERGENIC	--	--	--
Ca6_P2_10507178	Ca6	10507178	TTTTT/TTTTTACCGCTTTT	CGATTGAGATTGCATCG AGA	GCATGAGAGGAAAAAC ACATCTT	59.7	630	DRR	Ca_08544	S	--
Ca6_P2_10508011	Ca6	10508011	ATTTTTTTT/ATTTTTTT	TCATGCTTTGGTACAGA AAGAAAA	TGACTAGACACACAAA GATGCC	59.3	959	DRR	Ca_08544	S	--
Ca6_P2_10510710	Ca6	10510710	AGG/AG	CGACTAGATGTCGCTG ACCA	CACATTTTGGTGTGCT TGG	60.0	385	INTRON	Ca_08544	S	--
Ca6_P2_10511626	Ca6	10511626	CAA/CAA	AATTGATCTTTGCGGCA TTC	TTGCACGTCAAGAAAG TTGC	60.0	580	INTRON	Ca_08544	S	--
Ca6_P2_10511672	Ca6	10511672	CAAAGAAA/CAA	AATTGATCTTTGCGGCA TTC	TTGCACGTCAAGAAAG TTGC	60.0	580	INTRON	Ca_08544	S	--
Ca6_P2_10512634	Ca6	10512634	CAA/CA	TGTTACGACTTCCCAAG GTC	TATGCGTTTGCATTTT TCA	60.2	388	INTRON	Ca_08544	S	--
Ca6_P2_10513733	Ca6	10513733	A/ATTATGAT	GATCATTCCTCAACACC ACC	CGACTCAATGACGGGT TTTT	60.0	653	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10564680	Ca6	10564680	ATTTTTTT/ATTTTTTT	TTTCCTATGCTGTGCTG TGC	CTTTTCACCTTGATCG GAA	60.0	611	INTERGENIC	--	--	--
Ca6_P2_10572244	Ca6	10572244	TAAA/TAA	CCGATGTAAGACTCTC CCCA	TGTTTCAACCTTGCA TGG	60.1	790	INTERGENIC	--	--	--
Ca6_P2_10576490	Ca6	10576490	CTTTT/CTTTTTT	TTGCCAAAGTTAATGC ACA	ATGGTGGTTGCTAGGT TTGC	60.0	888	INTERGENIC	--	--	--
Ca6_P2_10577482	Ca6	10577482	ATT/ATTT	GCTCCATTTCAATTCG TTT	GCCACTCCGTAAGCCT ATCA	60.2	834	INTERGENIC	--	--	--
Ca6_P2_10577994	Ca6	10577994	CTTATGTTTATGTT/CTTATGTTTATGTT TATGTTTATGTT	TGATAGGCTTACGGAG TGCC	GGACGAGATACATTGG CCTG	60.5	520	INTERGENIC	--	--	--
Ca6_P2_10590064	Ca6	10580064	GTTTTTTTTT/GTTTTTTTTT	AGTTCTGCTAGGTCGG CAAA	AAGGCCACCACATA TGAA	60.2	700	DRR	Ca_08540	J	bZIP
Ca6_P2_10586533	Ca6	10586533	ATTTCC/ATTTCTAGTTCTTTTCC	TGGCGGGTGAGAAGTA AAAG	TAATTGTGAGCGACTG GGTG	59.7	254	INTERGENIC	--	--	--
Ca6_P2_10586822	Ca6	10586822	CAAAAAA/CAAAAAA	TTCCAGTCTTTTAC CAG	AAGTGAACACACGTG GCGA	60.2	573	INTERGENIC	--	--	--
Ca6_P2_10587047	Ca6	10587047	A/AC	CACCCAGTCGCTCACA ATTA	CACGACCTTCCTTGG TTGT	60.0	824	INTERGENIC	--	--	--
Ca6_P2_10588831	Ca6	10588831	AT/ATT	AACCGTAACAGACGCC AATC	GTTCTCGTCTTTT CTCC	60.1	308	DRR	Ca_08539	--	--
Ca6_P2_10589216	Ca6	10589216	TGGG/TGGGG	AACCGTAACAGACGCC AATC	TGAAGGATTTCAACAA GGGC	60.1	975	DRR	Ca_08539	--	--
Ca6_P2_10591465	Ca6	10591465	AT/ATT	CAAATGATGTTTTTCC GTG	TGGTGCTCTTTTGCTT GTG	60.0	435	INTRON	Ca_08538	E	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10592694	Ca6	10592694	CAAA/CAAAA	TTAGGTCGTGGATTTC GGG	TGCATGACCAATTAAG CGAG	59.8	504	INTERGENIC	--	--	--
Ca6_P2_10593565	Ca6	10593565	TATATAGTAATATAG/TATATAG	TTTAAGCAAATCCAGCC AGA	TCAGTGCAGCTAGGAG GGTT	60.0	455	INTERGENIC	--	--	--
Ca6_P2_10594459	Ca6	10594459	TAAAA/TAAAAA	GCGACCTCCAAGTAC AACT	CAAAATAAATCGCGTGT CCC	60.3	563	INTERGENIC	--	--	--
Ca6_P2_10597025	Ca6	10597025	CAAAAAA/CAAAAAA	CCGACATAACAAGCACA TGG	GCCCTCCTCCATGACA TAAA	59.9	312	INTERGENIC	--	--	--
Ca6_P2_10600474	Ca6	10600474	GAAAA/GAAAAA	TGACTCCACCACCAATG AAA	GACCAAATCTTAAACG CCCA	59.9	222	INTERGENIC	--	--	--
Ca6_P2_10602667	Ca6	10602667	ATTTTTTT/ATTTTT	TGATAAGAATCACGTG GTAGCAA	CCTAAATCCTTCATGG CTCA	59.2	819	INTERGENIC	--	--	--
Ca6_P2_10604574	Ca6	10604574	TTATCTA/TTATTTATTTATCTATCTA	GCAAAGGCTTGTGGT GTTT	AAAGCGAGATCTGAAC CGAA	60.0	264	INTRON	Ca_08537	H	--
Ca6_P2_10606593	Ca6	10606593	CAAA/CA	CGTCGAATCTTTGGTA GCC	TTTATAACTTTCCGCC ACG	60.0	526	DRR	Ca_08537	H	--
Ca6_P2_10608315	Ca6	10608315	TG/TGG	ACCCGCTTAATTGTGG CTAA	ACATTACCCGCATCCA CCTA	60.2	383	INTERGENIC	--	--	--
Ca6_P2_10608601	Ca6	10608601	GTTTTTT/GTTTTTTT	ACGAAGCTGGTACAAAT GGG	CGAACCAACCTACCA TGAGA	60.0	773	INTERGENIC	--	--	--
Ca6_P2_10608634	Ca6	10608634	TA/TACA	ACGAAGCTGGTACAAAT GGG	CGAACCAACCTACCA TGAGA	60.0	773	INTERGENIC	--	--	--
Ca6_P2_10611247	Ca6	10611247	TAATAAATAAATAAATAA/TAATAAATA AATAAATAAATAA	TCTGACATGACAAATG GTGG	TCGGAATTGGTCCGAA ATTA	60.3	409	DRR	Ca_08536	K	HSF

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10612090	Ca6	10612090	TCTCCCTCCCTCC/TCTCCCTCCCTCC	CCTTCCCTGAACCAAA CAA	CTGAGCATGCTGTCTT GGAA	60.1	588	DRR	Ca_08536	K	HSF
Ca6_P2_10617244	Ca6	10617244	GCCAA/GCCAAGTCCAA	AGAAACATTATTGGTGG CGG	GGACTTTACACCATTTT AAAAACA	59.3	615	INTERGENIC	--	--	--
Ca6_P2_10618337	Ca6	10618337	TAAAA/TAAAAA	TGGAGAAGAAACATTC CGG	AAAGATCGGCTCAAAT GAACA	59.7	698	INTERGENIC	--	--	--
Ca6_P2_1061969	Ca6	1061969	TAAAAA/TAAAAA	AAATGAATGTGGAGTG ACCAAA	TCAAAGGGCTTTTCAT TGG	60.0	877	INTERGENIC	--	--	--
Ca6_P2_10620005	Ca6	10620005	GAAAAA/GAAAAA	CAGTTGTGGCGATTGA TTTG	CAACCACTTGCTTCACA TGG	60.2	142	INTERGENIC	--	--	--
Ca6_P2_10620474	Ca6	10620474	A/AT	CCATGTGAAGCAAGTG GTTG	GGATCTGAAATCCCCT CTCC	59.8	714	INTERGENIC	--	--	--
Ca6_P2_10620518	Ca6	10620518	TA/T	CCATGTGAAGCAAGTG GTTG	GGATCTGAAATCCCCT CTCC	59.8	714	INTERGENIC	--	--	--
Ca6_P2_10623585	Ca6	10623585	TC/T	TGGATGCCAAAATAATC TCCA	CCAACTCCCTCACTA CCCA	60.0	428	INTERGENIC	--	--	--
Ca6_P2_10623994	Ca6	10623994	AAAGAAGAA/AAAGAA	TGGGTAGTGAGGGAGT TTGG	TTAAAGGGCCTTGAT GTTG	59.9	749	INTERGENIC	--	--	--
Ca6_P2_10624671	Ca6	10624671	AAATA/AA	GGAGCTCTGGGGGCTT ATAG	ACCACTCCCACTCAGT GCTC	60.3	483	INTERGENIC	--	--	--
Ca6_P2_10625468	Ca6	10625468	TTTGTT/TTT	GCTCTCCAAGACTTCAA CGG	TCCAACCTTCCTCATC TTG	60.0	782	INTERGENIC	--	--	--
Ca6_P2_10625658	Ca6	10625658	AA/AATA	GCTCTCCAAGACTTCAA CGG	TCCAACCTTCCTCATC TTG	60.0	782	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_10665731	Ca6	10665731	ATTTTTTTTT/ATTTTTTTTT	TGAAAGTTTCGTATTGC TCGAA	CATTGTCTTGAAGC CACC	60.5	692	INTERGENIC	--	--	--
Ca6_P2_10667900	Ca6	10667900	ATTTTT/ATTTTTTT	CAATGCGCTTTCTCCT CTC	ATGCGGCACAACACTA ACAC	59.6	438	INTRON	Ca_08530	--	bHLH
Ca6_P2_10667934	Ca6	10667934	GTTTTTT/GTTTTTT	CAATGCGCTTTCTCCT CTC	ATGCGGCACAACACTA ACAC	59.6	438	INTRON	Ca_08530	--	bHLH
Ca6_P2_10673743	Ca6	10673743	TA/T	TCTGTATGCTTTGCTGT GCC	ACTGCCAGATGAAACC CATC	59.9	608	INTRON	Ca_08530	--	bHLH
Ca6_P2_10677110	Ca6	10677110	TCCCC/TCCCCC	TTCAACACGTGCATGG AAAT	GCTAACACATGATTCC GCA	59.7	581	INTRON	Ca_08530	--	bHLH
Ca6_P2_10681474	Ca6	10681474	ACAAGTCA/ACA	AATTGCGAATTTGTGGG TTC	GGACAGATGGCAAGCA TTTT	60.1	694	DRR	Ca_08530	--	bHLH
Ca6_P2_10685295	Ca6	10685295	A/AC	GGAATGCCAATCCAA GAGA	AACGGCTTAGATTTCG AGCA	60.0	848	INTRON	Ca_08529	--	G2-like
Ca6_P2_10686252	Ca6	10686252	TACAC/TAC	CCAGCTTCTTGTGTGT GGA	CAGAGGCAACAAGCTC AGTG	59.8	609	INTRON	Ca_08529	--	G2-like
Ca6_P2_10693692	Ca6	10693692	AGGG/AGGGG	GGGGTGGGAGGTACAA AAAC	AAATGTCCAACAGGC AGAC	60.0	679	INTERGENIC	--	--	--
Ca6_P2_10700691	Ca6	10700691	AG/A	ATAAAGAGAAGCGGAG GGGA	CAACGAAGAGCGTCGA GAAT	60.5	909	INTERGENIC	--	--	--
Ca6_P2_10700860	Ca6	10700860	CTTTTTTT/CTTTTTTTTT	ACACGATAAATCACTGC CCC	ACCATGGAGGAGAAGC AAGA	59.7	823	INTERGENIC	--	--	--
Ca6_P2_10702347	Ca6	10702347	CTTTCGAAAGT/CTTTCGAAAGTTGAA TTTTCGAAAGTT	TTGATGAATTTGAAAGT TCCGA	TCCAGATTTTGAGCTT TTGC	59.5	714	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_10705764	Ca6	10705764	TGGGGG/TGGGG	ATGAGGATGGAATTGT GGGA	CAACCTATTAGCCGAG ACGC	59.9	280	INTERGENIC	--	--	--
Ca6_P2_10708661	Ca6	10708661	TAAAAAA/TAAAAAA	TGAAATTCAACTGATCC CACA	TCCTTTGGTGGTGT CCTC	59.9	811	DRR	Ca_08527	GC	HSF
Ca6_P2_10792819	Ca6	10792819	GTTTTTTTTTTT/GTTTTTTTTTTT	GGAGCTGAAGAGCGAC AAAT	TTTTTAGGAGTGACGC GATG	58.9	367	INTERGENIC	--	--	--
Ca6_P2_10794924	Ca6	10794924	AATATATATATATATATATATATAT AT/AATATATATATATATATATATAT ATATATATAT	TTGGTTTTGAAACATTG ATTGAT	CATTACCTCGTGAC CACT	58.7	374	INTERGENIC	--	--	--
Ca6_P2_1079506	Ca6	1079506	TTATATATATATATATA/TTATATAT ATATATATATATA	ATCAATCCTTTGCCACC AAG	TTTCAAAGTAAAGCCA GAACG	58.6	417	INTERGENIC	--	--	--
Ca6_P2_10823027	Ca6	10823027	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATAT ATATATATATATAT	GGGGGTACAATAGCCA ATTT	CCTGTCAATTTCTCTT CTCCG	60.2	720	INTERGENIC	--	--	--
Ca6_P2_10952544	Ca6	10952544	GATATATATATATATATATATATAT ATAT/GATATATATATATATATATAT ATATATATAT	ACACCAAACGTTGATT CCC	AATCCAAACGAGAAGCC AAAA	59.7	609	DRR	Ca_20466	QR	B3
Ca6_P2_11035330	Ca6	11035330	ATTTTTTTTTT/ATTTTTTTTTT	TGGCTAAATTACATTG TGGTCC	AGACGCATTCTTCTGT CCGT	59.9	476	INTERGENIC	--	--	--
Ca6_P2_11039213	Ca6	11039213	TAAAAAAAAA/TAAAAAAAAA	GTTGACCGCAAGTATA CGCA	CTGCCAACGATAGCA AGGT	60.3	233	INTERGENIC	--	--	--
Ca6_P2_11056871	Ca6	11056871	CAA/CAATAAAAAGGGAAA	TGTGATTTTGCAGGCT AAG	CAGACAATGCGGGA GAAT	60.1	637	INTRON	Ca_20472	OR	--
Ca6_P2_11076005	Ca6	11076005	AATATATATATATATATATA/AATAT ATATATATATATATATA	TGAAATTTTCGAGGTT GGA	TGCGATGCTCATCATT GAAC	60.8	574	INTERGENIC	--	--	--
Ca6_P2_11093119	Ca6	11093119	CTCATTCAATTCATTC/CTCATTCA TCATTCAATTCATTC	CGACCGTTTCGATTCCT AAA	AAGAGGAACGAAGTTA CGCA	57.6	192	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_11367342	Ca6	11367342	CAAAAAAAAA/CAAAAAAAAA	TAGATCCACCTTCAAC CCG	AAAAGCGGTGACAGAT GGAC	60.1	667	INTRON	Ca_23422	K	ARR-B
Ca6_P2_11402418	Ca6	11402418	CAATAAAAT/CAATAAAATAAAT	TTTGAACGCTCTGCTAG GGT	CGCCCTCTGGAATTT GATA	60.0	398	DRR	Ca_23424	--	--
Ca6_P2_11464290	Ca6	11464290	TAAA/TAA	AGGAAAAGGAGGAGGA TGGA	GTGCCAAAACAAATGA CGTG	60.0	638	INTERGENIC	--	--	--
Ca6_P2_11466501	Ca6	11466501	GATATATATATATATATATATATAT ATATATATATAT/GATATATATATATAT ATATATAT	TCCTAAACGTCGACTCC TTGA	AATGAAGAATGGTTGC AGGC	60.1	666	INTERGENIC	--	--	--
Ca6_P2_11532401	Ca6	11532401	ACAGC/AC	TCCACTTGTTTGTCCA CCA	CCAAGCTTTAGGCTCA AACG	60.0	500	CDS (large-effect mutations)	Ca_23435	--	--
Ca6_P2_11546028	Ca6	11546028	CAAA/CAAAA	GATCGATTGGGCTAC GAAA	ATCAGATTGCTGCAGG CTTT	60.0	651	INTERGENIC	--	--	--
Ca6_P2_11546492	Ca6	11546492	GTAAA/G	TCGGAAAGGTCATTCAA AGC	TTTGTGTCCAAAGCATT CTCC	60.1	472	INTERGENIC	--	--	--
Ca6_P2_11560596	Ca6	11560596	TTAATA/TTA	TGTTCTTGGTTTCCAAC ACTTC	TTGTTGTGCGGTTGT TGTT	60.1	851	INTERGENIC	--	--	--
Ca6_P2_11562561	Ca6	11562561	GGAG/GGGGCTTTAAACATTAGAG	TCTTGAAACAAATGCAC CCA	AAAAATGTCACGTTTCG CTT	57.4	794	INTERGENIC	--	--	--
Ca6_P2_11568820	Ca6	11568820	ATTT/ATT	CTTTAGCTGATCGCACC CTC	CGTTCAATTTCTGCCA AAT	59.9	573	INTERGENIC	--	--	--
Ca6_P2_11569101	Ca6	11569101	T/TAAGTAA	CAAAAGGGGTATTTT GGTTC	CGTTCAATTTCTGCCA AAT	59.9	499	INTERGENIC	--	--	--
Ca6_P2_11569249	Ca6	11569249	ATATTT/AT	ATTTGGCAGGAAATTGA ACG	TCGGTGGTTGCACATT CTTA	60.1	570	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_11590997	Ca6	11590997	CTTTT/CTTTT	ATGTGCTCCCAAAA GTC	CCCTCCAGTAGCATCA CCAT	60.0	538	INTERGENIC	--	--	--
Ca6_P2_11591866	Ca6	11591866	ATTTTTTTTT/ATTTTTTT	CGTCGAGGGTACATTC AGGT	CGCAATCCTTGAGTTC AACA	59.8	451	INTERGENIC	--	--	--
Ca6_P2_11592152	Ca6	11592152	A/AC	AGATGACAATCCCCGA CAAC	TCACCAAGACATTGAG GCAA	60.2	349	INTERGENIC	--	--	--
Ca6_P2_11600068	Ca6	11600068	AC/A	GTCCTTTGCCAAGAATC CAA	CCTAAAGTGGGTTTCG TCCA	60.0	334	INTERGENIC	--	--	--
Ca6_P2_11600363	Ca6	11600363	TAAAAA/TAAAAAA	TGGACGAAACCCACTTT AGG	AAATTGCAGATTGCCT CACC	60.1	286	INTERGENIC	--	--	--
Ca6_P2_11600751	Ca6	11600751	ATCAA/ATCAACAATTAGTCAA	TGGACGAAACCCACTTT AGG	TGGGCCACTAGTGTG ATGA	60.1	622	INTERGENIC	--	--	--
Ca6_P2_11606068	Ca6	11606068	TA/TAA	AGACGGGAGGGAGTAC ATGA	TTCAGTTGCGAGGTAA AAACA	58.3	232	DRR	Ca_25054	O	CAMTA
Ca6_P2_11607391	Ca6	11607391	CAAAAGAAAAAGAAAA/CAAAAGAAA AA	CAGAGAGGAGAGAGGC GATG	TGTCGACTTTGGTAAA GGGG	60.0	544	DRR	Ca_25054	O	CAMTA
Ca6_P2_11617529	Ca6	11617529	GA/GAA	TTGGGAGTTCAATTGCA TCA	TTTGTGAAGATATTGT TTCCTCG	59.6	905	INTERGENIC	--	--	--
Ca6_P2_11617707	Ca6	11617707	AATATATATATATATATATATATAT/ AATATATATATATATATATATATAT ATATAT	GAGGCATCGTTTCACA ATGA	AGTTTTCGAGGACTG TGTT	59.8	809	INTERGENIC	--	--	--
Ca6_P2_11621714	Ca6	11621714	TTA/T	TGTAACGGTTGAGAA GCAA	AACCTTTGACTGTCTTC CCG	59.2	373	INTERGENIC	--	--	--
Ca6_P2_11630320	Ca6	11630320	AAGTAGT/AAGT	TGCATATGTGTTTTGGG AATA	GCTTGATACTTGGCAA AGCC	59.9	621	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_11633219	Ca6	11633219	TAGGGTGAGAG/TAGGGTGAGAGGT GAGAG	TTTAATTTGGGTCGCCA ATC	AAGTGCAGAAAGAAAG GGCA	60.0	487	DRR	Ca_25056	--	--
Ca6_P2_11641795	Ca6	11641795	GTTTTTAT/GTTTTTATTTATTTTTTA T	TAAGCCACGTCATGAA CAA	CAGTAAGAAATGTAAA TTGCAAAAA	58.1	327	INTERGENIC	--	--	--
Ca6_P2_11647652	Ca6	11647652	TGG/TGGG	AATTTTGTAGCCCATTTG TCG	TTTCAGGGCTTTGACA GCTT	60.0	414	DRR	Ca_25058	--	--
Ca6_P2_11650123	Ca6	11650123	TTAA/T	GGAAGGGTCCACGCAT AGTA	GCTTTTGTGGTGGCAC TTTT	60.2	827	DRR	Ca_25059	J	--
Ca6_P2_11655132	Ca6	11655132	TAAACTAAAACTAAAACTAAAACT A/TAAACTAAAACTAAAACTA	GCATGGATGAAATCAAA AGC	TTGGGATGATCCAACA ACAA	59.8	333	DRR	Ca_25060	--	FAR1
Ca6_P2_11655226	Ca6	11655226	AATAACTTTTAA/AA	GCATGGATGAAATCAAA AGC	TTGGGATGATCCAACA ACAA	59.8	333	DRR	Ca_25060	--	FAR1
Ca6_P2_11656581	Ca6	11656581	ACCGCCCGG/ACCGG	TCCCTCACTCATCCACA CAA	AACAGTCCATCGCCT AGAA	60.0	340	DRR	Ca_25060	--	FAR1
Ca6_P2_11661949	Ca6	11661949	AT/ATATT	TACAAAGGATGTTGGG AGGG	TGCTTGCAAGAAC TTCA	59.7	640	INTERGENIC	--	--	--
Ca6_P2_11674269	Ca6	11674269	CTT/CTTT	TGCGACGTCACCAACT CTAC	CATCAAAATTTCCCAA TGC	60.1	853	INTERGENIC	--	--	--
Ca6_P2_11679245	Ca6	11679245	T/TG	GGTGACGTTGGCATT TAGT	TTGGAGGATTGTTTCG AAGG	60.0	492	INTERGENIC	--	--	--
Ca6_P2_11680950	Ca6	11680950	C/CA	TAATCCATGGCGAACAC AAA	TCCAAAGTTGCAGCA TTCA	60.4	581	INTERGENIC	--	--	--
Ca6_P2_11681178	Ca6	11681178	TTGTGTGTGTGTGT/TTGTGTGTGTG TGTGTGTGTGT	ATCAATTGCCATTGCA TCA	TAGCATTTTGTAGGGG GAAA	59.5	692	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_11682659	Ca6	11682659	AATTA/AA	TTCGATTGTGGTATC AAA	GCGTTTGCAATACCGT AACA	59.6	177	INTERGENIC	--	--	--
Ca6_P2_11684374	Ca6	11684374	AATATA/AATATATA	TGGAGCTTTTGAATTGG CTT	CGCAAACCATCTTCCA GAAT	60.1	325	INTERGENIC	--	--	--
Ca6_P2_11685422	Ca6	11685422	GATAAT/GAT	TGGTCAACACTTTGGTT CCC	CTTTGAGAGACCGCAT CTCC	60.0	775	INTERGENIC	--	--	--
Ca6_P2_11688551	Ca6	11688551	GAAAA/GAAAAA	TCTCCTCCTCCTCTTC TCC	TGTTGCCCAAAACCAT CATA	59.8	557	INTERGENIC	--	--	--
Ca6_P2_11691624	Ca6	11691624	T/TA	CTTTGCAGCAAGTCATT GGA	CCAAACTGGGGAGAA ACAA	59.9	871	INTERGENIC	--	--	--
Ca6_P2_11691978	Ca6	11691978	TAAAAAAAA/TAAAAAAAAA	TTGAGAGAAAGCGTGG TGTG	CCAAACTGGGGAGAA ACAA	59.9	463	INTERGENIC	--	--	--
Ca6_P2_11699947	Ca6	11699947	GTTT/GTTTT	CGGAGGCTTTGAAATG GTTA	ACTTTCTTGACTCTCC GCA	60.0	634	INTERGENIC	--	--	--
Ca6_P2_11701153	Ca6	11701153	ACCCC/ACCC	ATAAGGCATTTTGGCAA ACG	CAACGTCTTGGCCCTT AAAA	60.1	366	INTERGENIC	--	--	--
Ca6_P2_11712348	Ca6	11712348	T/TG	GGGTGCCTCTTACAA CATT	ACGCCATTTTCTCTT GTG	60.1	985	INTRON	Ca_25062	--	--
Ca6_P2_11713842	Ca6	11713842	TTATAA/T	TTAGTGCTCTGGTGG TTTG	GCTCGTGGAGATTTAG CGTC	60.0	433	DRR	Ca_25062	--	--
Ca6_P2_11717478	Ca6	11717478	T/TTA	TACTACAGTTGCTGGT GCG	TAGCATAGGCTCGTTG CTGA	59.7	480	INTERGENIC	--	--	--
Ca6_P2_11718913	Ca6	11718913	ATT/ATTT	CTCCGCTTCAAAGACA TCC	AATGGTGCTTGGGTCG ATAG	60.0	506	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_11722419	Ca6	11722419	TATATT/TATATTAATATT	CCTTCGCCGTATATGAT TCC	AAGCAAAGTCCTGAG CAAA	60.0	185	INTERGENIC	--	--	--
Ca6_P2_11737556	Ca6	11737556	CTATATATATATATAT/CTATATATATATA TATATATATAT	GCAAGCGCTATGTGAC CTTT	AATGTGAATCCCACCA GGAA	60.2	770	INTERGENIC	--	--	--
Ca6_P2_11738985	Ca6	11738985	TAAAAAAA/TAAAAAAA	TTCAGCAGCTTCTTCGA CAA	ATTACCGACATTGCAG AGGG	60.0	254	INTERGENIC	--	--	--
Ca6_P2_11742023	Ca6	11742023	ATTTTTTT/ATTTTTTTTT	GCGCTTCAATTTACAAC GCT	TTTTCGCACGAAATCAA TCA	60.2	614	INTERGENIC	--	--	--
Ca6_P2_1175931	Ca6	1175931	AT/ATT	ATGGGCACATGCTATC ATCA	GCCTCACGAGTTGGAA GAAA	60.4	200	INTERGENIC	--	--	--
Ca6_P2_11760863	Ca6	11760863	ATT/ATTCTT	CCAAGAAGATTGCCAC CAGT	TGGCAAATCGATTGAA ACAA	60.1	705	INTERGENIC	--	--	--
Ca6_P2_11785408	Ca6	11785408	ATTTT/ATTT	TGCAAACGCACATATAC ACG	AATTTGAGGCGTGTGG GTAG	60.0	711	INTERGENIC	--	--	--
Ca6_P2_11787121	Ca6	11787121	GAAAAAAAA/GAAAAAAAAA	TGCTTTCTTAGGCCGAT TGT	CGCAAATCCACACAAA ATG	60.0	428	INTERGENIC	--	--	--
Ca6_P2_11792161	Ca6	11792161	AAT/A	TGTTGGACGGACAATT GAAA	CAAAATGCCATAAAATC GGC	60.3	408	INTERGENIC	--	--	--
Ca6_P2_11792622	Ca6	11792622	GTTCTTTT/GT	GCCGATTTTATGGCATT TTG	GGGCTATGAGACCCAT CAGA	60.0	777	INTERGENIC	--	--	--
Ca6_P2_11806357	Ca6	11806357	CATATATATATATATAT/CATATATAT ATATATATATAT	TCACCTAGGAATTCG CATC	CGAGGTTGGAGTTGGA TCAC	60.5	711	INTERGENIC	--	--	--
Ca6_P2_11852957	Ca6	11852957	AATATATATATATATATAT/AATATATA TATATATATATATAT	ATATTGGCTCGGAGGC TTTT	ACCCACTAAGCCTTGG GTTT	59.9	566	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_1188000	Ca6	1188000	AATTATTATTATTATTATTATTATT TTATT/AATTATTATTATTATTATTAT TATTATTATTATT	AGAGGCGAATAGAGG AAGC	TTACAGTTTTGGGTGG AGGG	59.8	420	INTRON	Ca_13324	U	LBD
Ca6_P2_12020920	Ca6	12020920	TTTT/TTTTCAATGGTATGCACTCTTC	TTGCATACCTCATACCA TCCC	TTTTGGCATTGCAAGTT TGA	60.2	508	INTERGENIC	--	--	--
Ca6_P2_12056007	Ca6	12056007	CT/CTACACGACAAATAAAT	CAGTCGGCGAGTGTGA GTCA	AGGTAAGGGCTCCTTC CAAA	60.1	857	INTERGENIC	--	--	--
Ca6_P2_12089970	Ca6	12089970	AG/AGG	ATGCCAAACACAAACAA CGA	TTCATTCGGGGCTTAC TACG	60.1	789	INTERGENIC	--	--	--
Ca6_P2_12162356	Ca6	12162356	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TGACTAGTGTCTCCCG GTCC	TCGCGTCGAATACTAG CTCA	59.7	718	INTERGENIC	--	--	--
Ca6_P2_12233101	Ca6	12233101	TG/TGG	CCTCAACGTGAGTTGC AGAA	TGCATGGCATTGGAT AAGA	60.0	344	CDS (FRAME SHIFT)	Ca_24847	--	--
Ca6_P2_12240685	Ca6	12240685	ATTTTTTT/ATTTTTTT	ATCGACTCCCGAACTCA AAA	TGTATCTCAATTTGTCG CGG	59.7	164	INTERGENIC	--	--	--
Ca6_P2_12253200	Ca6	12253200	AATATATATATATATATATATATAT ATATATATATATAT/AATATATATATAT ATATATATATATATATATATATATAT TATATAT	CTCCGTTTATCTCCGTT GGA	CGTGATGATTGATGCA TTTCA	60.5	746	INTERGENIC	--	--	--
Ca6_P2_12254420	Ca6	12254420	AATATATATATATATATATATATAT ATATA/AATATATATATATATATATATA TATATATA	CCTGTGGTTGGTTGTA GCCT	CTGGAGGTCACCTTCG ACAT	60.1	703	INTERGENIC	--	--	--
Ca6_P2_12254600	Ca6	12254600	A/AT	AAACGGCGATATTCAT TTG	CTGGAGGTCACCTTCG ACAT	60.1	515	INTERGENIC	--	--	--
Ca6_P2_12314984	Ca6	12314984	CTTTTTTTTT/CTTTTTTTTTTT	TCTCCTCGATCGAAAG CAT	TGATGCAACCAAAATTAC CCA	59.8	749	DRR	Ca_24848	--	C2H2
Ca6_P2_12317245	Ca6	12317245	AATATATATATA/AATATATATA	GGATCCGTTGACTCAT GACA	TCAAACATTCAAACCG GTCA	59.9	610	INTRON	Ca_24848	--	C2H2

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_12335628	Ca6	12335628	TGAAG/TG	GGAAGGGTGTGGTGT GTTT	TTGGTCACTAAGGGGG TGAG	60.0	968	DRR	Ca_24849	--	--
Ca6_P2_12340664	Ca6	12340664	CAAA/CAAAA	GTCGCCATTTTCCACTT TGT	AGTTTTGCAATCACGT GCAG	59.9	491	INTERGENIC	--	--	--
Ca6_P2_12345156	Ca6	12345156	A/AT	GCACATTGTGGGTGAT GAAG	GCGATTGCGACAAGAA GAAG	60.0	625	INTERGENIC	--	--	--
Ca6_P2_1239992	Ca6	1239992	CATATATATA/CATATATATATA	CGAGACCAAGGTTTC TTGC	GACATGGCAATTTAGC TCAACA	60.1	684	INTERGENIC	--	--	--
Ca6_P2_12538435	Ca6	12538435	TTATAAAATATAAAATATAAAAT/TTATAA AATATAAAAT	TTACATTCCTTATGACC CCA	GTTTCGGTTCGGTTCTT TGAA	60.1	649	DRR	Ca_05031	R	--
Ca6_P2_12543039	Ca6	12543039	TTATATATATATATATATATATATATATATA TATATATATATATATATA/TTATATATATA TATATATATATATATATATATATATATATAT ATATATATATATA	TTTCGACATAGGTTGTT AAGCTTTT	GAAACCAAGTGAACCTC TCCCC	60.0	590	INTERGENIC	--	--	--
Ca6_P2_12567	Ca6	12567	TACA/TA	TTTGTGGCAGACCAAT GAAA	TGTTGTCTTTGTGCGA CGTT	60.3	666	INTRON	Ca_26381	A	C3H
Ca6_P2_12663993	Ca6	12663993	TAAA/TAAAA	ATTGCCTTGACACAC GTAA	CGGCTCGAACGGTACA TATT	60.0	636	INTERGENIC	--	--	--
Ca6_P2_12686165	Ca6	12686165	AATATATATATATATATATATATATATATA ATA/AATATATATATATATATATATATATA TATATATA	CTTACCAAAACATGGGAT GGG	CGCTCAACGCTCTAGA CTCA	59.5	807	INTERGENIC	--	--	--
Ca6_P2_12754429	Ca6	12754429	TAAA/TAAA	AGTAGTGTGGCTTTAG GCGG	TGTTGTGCTCTTTCTT TGCA	58.3	841	INTERGENIC	--	--	--
Ca6_P2_12787897	Ca6	12787897	AATATATATATATATATATATATATATATA TATATATATATATATATAT	ATCAACAACATGTTGCG AGC	CAAACCCCTATTTTGT GATTGA	60.1	749	INTERGENIC	--	--	--
Ca6_P2_12811825	Ca6	12811825	AATATA/AATA	GCCAACTAGAGTGATG ATCGG	GCGTACCCATATTCAG CGAT	60.0	581	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_12852988	Ca6	12852988	AAATAATAATAAT/AAATAATAAT	AATGAGGCAAAGTTGT GGC	ACCATTTCAGGGTCAG GACA	60.4	629	INTRON	Ca_05058	T	TALE
Ca6_P2_12853638	Ca6	12853638	TAAA/TAAA	CTCATCCATCACACCA AGC	CTCAGATTCTGCGTCC ATCA	59.9	875	INTRON	Ca_05058	T	TALE
Ca6_P2_12854638	Ca6	12854638	ATTTTTTT/ATTTTTTT	CAAAACCAAGTCAACAC ACG	CTCTGATATCGAACCC CTGC	59.7	791	INTRON	Ca_05058	T	TALE
Ca6_P2_12855187	Ca6	12855187	AC/A	TAAGTGGCAGGGGTTG GATA	GAGCCAGCTGAATGCA CATA	60.0	459	INTRON	Ca_05058	T	TALE
Ca6_P2_12856029	Ca6	12856029	CCT/C	AGCCACATGGAAGAAC CAAC	CAGTCGAACCTGCGAT CTTG	59.6	532	DRR	Ca_05058	T	TALE
Ca6_P2_12856182	Ca6	12856182	TC/TCAAGTTCGAC	TCCAATGCTGGATTAG GCTC	GCATTTATGAACATAAC GCCAA	59.9	512	DRR	Ca_05058	T	TALE
Ca6_P2_12858858	Ca6	12858858	GTA/GTAGTGTTACATTA	GCAATCAGGTGGTTGG AGAT	ACAATCGAACTTGGGT CTGC	60.1	342	INTERGENIC	--	--	--
Ca6_P2_12859105	Ca6	12859105	GTA/GTATA	GGTGGGCTTCTGTTAT GGA	AGGCCATAAACCCCTC ATT	59.7	512	INTERGENIC	--	--	--
Ca6_P2_12859696	Ca6	12859696	ATTT/ATT	AAATGAGGGGTTTATG GCCT	GGATCTTGTGCCTTGA CGTT	60.1	843	INTERGENIC	--	--	--
Ca6_P2_12864439	Ca6	12864439	TAAAAAAAA/TAAAAAAAA	CCAATCCGAACACAAA ACC	CAAAACCCAAAAGCT CCAA	60.1	233	INTERGENIC	--	--	--
Ca6_P2_12865294	Ca6	12865294	ATTGT/ATTGTATTTATTTTTGT	CAAAATGGACACTTAAG GGGA	CTTCCACCCATTATGC CACT	59.8	948	DRR	Ca_05059	O	MYB_related
Ca6_P2_12865354	Ca6	12865354	CT/CTTAATT	CGCGTAACGTGGTGAA TAAA	CTTCCACCCATTATGC CACT	59.8	428	DRR	Ca_05059	O	MYB_related

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_12866046	Ca6	12866046	CAAAAAAAAA/CAAAAAAAAA	AGTGGCATAATGGGTG GAAG	AAAGGGAGGGAATGCC TTAG	59.5	614	DRR	Ca_05059	O	MYB_related
Ca6_P2_12866547	Ca6	12866547	TA/TAA	CTAAGGCATTCCCTCC CTTT	GAAAGCAATGGGGAAG ATCA	60.0	535	DRR	Ca_05059	O	MYB_related
Ca6_P2_12871491	Ca6	12871491	TA/TACA	TTGATTTTGGATCCTCT CAATG	GCCCCACAGATGAAAG AAAA	60.1	695	INTERGENIC	--	--	--
Ca6_P2_12877302	Ca6	12877302	CG/CGCTTTTTTTG	GTTCTGTAAGGACGGG ATGA	CTTTTACAGCGCTTTCT GGG	60.0	235	INTERGENIC	--	--	--
Ca6_P2_12878483	Ca6	12878483	GATA/GATATATA	CCCCATCATGCAAACTCT TCT	TCGAGGGCAGCTTTTCT TTGT	59.9	373	INTERGENIC	--	--	--
Ca6_P2_12879215	Ca6	12879215	GAAAAAAAAA/GAAAAAAAAA	TTGCGTTAGGAAATTGA TGAAA	GCCACGGAGCAACCTA TTAT	59.1	436	INTERGENIC	--	--	--
Ca6_P2_12879345	Ca6	12879345	TAAAAAAAAA/TAAAAAAAAA	TAAAGGACCAAGTCGG GAAA	ATCCAAAGGAAAGCAT CGTG	60.1	599	INTERGENIC	--	--	--
Ca6_P2_12886569	Ca6	12886569	TC/TCAAC	CATCCATCAACTCGTCA TCG	TTTCCTCTATTTGTCGG CTCA	59.8	983	INTERGENIC	--	--	--
Ca6_P2_12886925	Ca6	12886925	GTTTTTTT/GTTTTTTT	TTGTGATGGAGAAGATT GCG	TTTCCTCTATTTGTCGG CTCA	59.8	612	INTERGENIC	--	--	--
Ca6_P2_12888429	Ca6	12888429	T/TC	CCGTCAATTTATATCCT CCCA	AATCAGGTGCCATTG TAGC	60.0	733	INTERGENIC	--	--	--
Ca6_P2_12888838	Ca6	12888838	ATTTT/ATT	GCTACAATGGCACCCCT GATT	AGGATTTGAACATTGG CCCT	60.7	334	INTERGENIC	--	--	--
Ca6_P2_12891974	Ca6	12891974	GAAAAAAAAA/GAAAAAAAAA	GGTAAAGCCCACTTG GTGA	CCCTGTATTGCTCTCC GAA	60.2	552	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_12892058	Ca6	12892058	GTTTTTTTT/GTTTTTTTTT	GGTAAAGCCCACTTG GTGA	TTGGATGCTGTTGCA TGGT	60.0	913	INTERGENIC	--	--	--
Ca6_P2_12893706	Ca6	12893706	CAAA/CAA	AAACCCACAAAAATGC TGC	ATGGAGGGGCTAGGAG AGAA	60.2	741	INTERGENIC	--	--	--
Ca6_P2_12899744	Ca6	12899744	TAAAAAAAA/TAAAAAAAAA	TTGGATGTATACGGCG AACA	CAATCCACCTGAATGA AATCC	59.2	881	INTERGENIC	--	--	--
Ca6_P2_12900038	Ca6	12900038	TTATA/TTA	GCAATGACTAAAACTT CGTAGG	CTGGTCATTGTGGTCA GTGG	60.0	459	INTERGENIC	--	--	--
Ca6_P2_12909901	Ca6	12909901	AT/ATT	TGGACAGGTGAAGACC AACA	TTCTTCTCTCCAATCAA TGC	60.0	696	DRR	Ca_05064	T	bHLH
Ca6_P2_12915713	Ca6	12915713	AC/A	GTGGCGTTAGGCGACA TATT	TTTTTCAAGTCCAACT TTTATGA	57.2	862	INTERGENIC	--	--	--
Ca6_P2_12916022	Ca6	12916022	TAAAAAAAA/TAAAAAAAAA	TGGAATAATTGTGAATGA TTTTTATT	TTTTTCAAGTCCAACT TTTATGA	57.2	558	INTERGENIC	--	--	--
Ca6_P2_12920238	Ca6	12920238	CAAAAA/CAAAAAA	TTCTCTCGTGGAGTGT GTGG	TTGAAGAACCTCTTC CTTCC	59.7	377	INTERGENIC	--	--	--
Ca6_P2_12920553	Ca6	12920553	TAAAAAAAA/TAAAAAAAAA	GGAAGGAAGGAGGTTT TTCAA	TGCACTGGTTTATTTTG AGGG	60.0	585	INTERGENIC	--	--	--
Ca6_P2_12921236	Ca6	12921236	T/TA	ATTAGAGGTAATGCCG CCG	GGACTTTGGAGGTGCT TGTC	59.7	415	INTERGENIC	--	--	--
Ca6_P2_12921441	Ca6	12921441	CTTT/CTTTT	GACAAGCACCTCCAA GTCC	TTTTTCATCGAACAAAT CTCATGT	59.9	167	INTERGENIC	--	--	--
Ca6_P2_12922495	Ca6	12922495	ATTGTT/ATT	TGCAGCTCTATTGATGC CAC	TACGATGGGCAATTT TGTT	60.2	446	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_12922857	Ca6	12922857	A/AC	TTTACC GCGAAACAA ATC	CAGAAACAGCAGAGAC AGCG	59.9	686	INTERGENIC	--	--	--
Ca6_P2_12930198	Ca6	12930198	ATTTTTTTTT/ATTTTTTTT	AATGTCCATGATTGCCA AAA	GGGCATAGACAATTTC TTTCATT	59.8	635	INTERGENIC	--	--	--
Ca6_P2_12930965	Ca6	12930965	A/AC	AATGCATCGGTCAAACC AAC	ATTGCCCATGTAAACC GTGT	60.1	362	INTERGENIC	--	--	--
Ca6_P2_12934492	Ca6	12934492	A/AGTTTT	CGGTTTGAAGATGAGG TTCAC	TTCTCCCTCTAGATTG TTTGC	59.7	495	INTERGENIC	--	--	--
Ca6_P2_12934565	Ca6	12934565	ATTTTTTTTT/ATTTTTTTT	CGGTTTGAAGATGAGG TTCAC	TATTCAAGCAACGGCT GGT	59.3	691	INTERGENIC	--	--	--
Ca6_P2_12934614	Ca6	12934614	GAAAAAAAA/GAAAAAAAAA	CGGTTTGAAGATGAGG TTCAC	ATTATTCAAGCAACGG CTGG	60.1	693	INTERGENIC	--	--	--
Ca6_P2_12935007	Ca6	12935007	TA/T	GCAAACAATCTAGAGG GAGGAA	GGGGGCACAAGACAA CTAA	60.0	362	INTERGENIC	--	--	--
Ca6_P2_12940701	Ca6	12940701	TAAAAAA/TAAAAAA	TAGCCTCTCTCCCAAC CTT	ATTTCATGGATTGGCATT GGT	60.0	665	DRR	Ca_05066	--	--
Ca6_P2_12944991	Ca6	12944991	TAA/TA	CGTTTTGGAAGTACGA GGGA	TCTGTGGACCTACACC ACCA	60.0	690	INTERGENIC	--	--	--
Ca6_P2_12946664	Ca6	12946664	GTTTT/GTTT	ATTTTATTTCCCGCTG GCT	ATTTTGAAATCCCGCAT CTG	59.9	737	INTERGENIC	--	--	--
Ca6_P2_12948486	Ca6	12948486	ATTTT/ATTT	CCGATGATTTCAAAAT TTAACC	CAAGTTTGTGTACCA GCCA	59.6	534	INTERGENIC	--	--	--
Ca6_P2_12950692	Ca6	12950692	AATATATATAT/AATATATATATAT	ATCATCGAAGAAGCATT GGG	TCAATTGAGCGAGTGT AGCG	60.2	633	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_12952872	Ca6	12952872	TTGAA/TTGAAATTTTGTATGAA	TGAATTCGATGAAATT GCATTAT	CCCATTGATCCATGAAT TTCT	58.7	371	INTERGENIC	--	--	--
Ca6_P2_12954436	Ca6	12954436	TAAAA/TAAAA	TGAAATGATGAGGGG AGAC	CCCTTCATCCCTTACC CCTA	60.1	716	INTERGENIC	--	--	--
Ca6_P2_12957093	Ca6	12957093	TAAAAAAAA/TAAAAAAAA	TGAATCCCGAAATTGAC CAT	AAAAGCAACAGGTGA ACCG	60.1	404	INTERGENIC	--	--	--
Ca6_P2_12957166	Ca6	12957166	T/T	TGAATCCCGAAATTGAC CAT	AAAAGCAACAGGTGA ACCG	60.1	404	INTERGENIC	--	--	--
Ca6_P2_12957392	Ca6	12957392	ATTTT/ATTT	TGAATCCCGAAATTGAC CAT	AACCTTTGGCACTTAA AGGGA	59.2	919	INTERGENIC	--	--	--
Ca6_P2_12957525	Ca6	12957525	CAAA/CAAAA	CGGTTCACTGTTTGCT TTT	TGAAAAGCTTGAGGA GGGA	59.9	718	INTERGENIC	--	--	--
Ca6_P2_12961933	Ca6	12961933	GCA/GCATGTCATAGAATTTAACA	TGGGCTTCCAAGTATTG ACC	CAGGGGATACGACCTC TCAA	60.1	693	DRR	Ca_05068	--	MYB_related
Ca6_P2_12962499	Ca6	12962499	TAAAAAAAA/TAAAAAAAA	TTGAGAGGTCGTATCC CCTG	AAGAGACACATGGGT TTGC	60.0	215	DRR	Ca_05068	--	MYB_related
Ca6_P2_12963634	Ca6	12963634	CAAAAA/CAAAAAA	TTTATTTCCCTTTTCG GCT	AAAGAGAACCATGCCA CGAG	60.3	612	INTERGENIC	--	--	--
Ca6_P2_12963829	Ca6	12963829	ATTT/ATT	TCCACCGCCGTTTAGAT ATT	AAAGAGAACCATGCCA CGAG	60.3	335	INTERGENIC	--	--	--
Ca6_P2_12964933	Ca6	12964933	TCATTAT	CTTGTTGCCAAGTAGG GTCG	CCAAGGAGAGGTGCT TAAA	59.3	976	INTERGENIC	--	--	--
Ca6_P2_12965366	Ca6	12965366	ATTTTTTTTTT/ATTTTTTTTT	TTTCACTGGACACTAT TCTCTCA	ATGATTGGATGAAAGA GCGG	60.0	341	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_12965600	Ca6	12965600	CAAAAA/CAAAA	CGCTCTTTCATCCAAT CAT	ACATTTTGGCCTCATT TCG	59.9	657	INTERGENIC	--	--	--
Ca6_P2_12965919	Ca6	12965919	ATTTTTTT/ATTTTTTTTT	GCACACAATCAAATGT ATCACC	ACATTTTGGCCTCATT TCG	59.9	439	INTERGENIC	--	--	--
Ca6_P2_12972982	Ca6	12972982	GTTTTTTTTT/GTTTTTTTTT	AGTTGGTGAGAGGAAG CGAA	GTCCAACCCAGTGGAG AAAA	59.9	487	INTRON	Ca_05069	S	--
Ca6_P2_12978469	Ca6	12978469	ATT/AT	ATCTATGATGGCGCAA GAGC	ATTTTTCACAAGTGGAG GCG	60.1	631	DRR	Ca_05071	O	E2F/DP
Ca6_P2_12980658	Ca6	12980658	TAAA/TAAA	GCAAAATCCCCAGCAAT CTA	TGTCGTGGTGCAATTT CAAT	60.0	500	INTRON	Ca_05071	O	E2F/DP
Ca6_P2_12981169	Ca6	12981169	T/TA	ATTGAAATGCACCAG ACA	GGAATTTGGTGGGA GAAT	60.0	417	INTRON	Ca_05071	O	E2F/DP
Ca6_P2_12982515	Ca6	12982515	ATTTTTTTTT/ATTTTTTTT	TCATGAAATGTTGCTG GAA	ATCTTTTGTTGCCATC AGG	59.9	220	INTRON	Ca_05071	O	E2F/DP
Ca6_P2_13007668	Ca6	13007668	AT/A	TTGAACCTCATTGTGCG AAA	ATAAGTTTGCCTCCCC ACC	60.2	116	DRR	Ca_05074	U	M-type
Ca6_P2_13017386	Ca6	13017386	AAATAATAATAATAATAATAATA ATAATAATAA/AAATAATAATAATAA TAATAA	GTTTCCTCTGTGCC GTTC	TGTGGGATTTCATTG ACAA	59.9	472	INTERGENIC	--	--	--
Ca6_P2_13019215	Ca6	13019215	GAAAAAAA/GAAAAAAA	TAGGCCTATGCCATCA ACC	ACGTGACCCACGCAA AGTA	60.2	627	INTERGENIC	--	--	--
Ca6_P2_13033375	Ca6	13033375	CTATATATATATATATAT/CTATATAT TATATATATATAT	TCCTAGAGTCAATGGAT CCCC	GGGAGGTGGTTCAGAG TCAT	59.0	473	INTERGENIC	--	--	--
Ca6_P2_13033783	Ca6	13033783	AT/A	AGTCAATGGATCCCCA CCTA	ATTTTCTCATCCTTG GGG	60.1	484	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_13428719	Ca6	13428719	CTATTTATTTATTTATTT/CTATTTATTTA TTTATTTATTTATTTATTTATTT	GTCGCGAAAAAGGAG TTGC	TTTCCCTATTGCACCTG GAG	60.1	329	INTERGENIC	--	--	--
Ca6_P2_13437574	Ca6	13437574	CTTTTTTTTTT/CTTTTTTTTTT	GGGTGGAGGATGAAGA TGAA	CGGGATGAGTGCAAC CTAA	61.0	782	INTERGENIC	--	--	--
Ca6_P2_1343859	Ca6	1343859	GAAAAA/GAAAAAA	CAACGAGTTTGATTCT ATTCTAACG	TTGGGTAGCCAAGTT TCAC	60.0	721	INTERGENIC	--	--	--
Ca6_P2_13450334	Ca6	13450334	CAAAAA/CAAAAA	TGATGCGCTTGCATATG TTT	TGTCAGTACCCACCCA CTCA	60.0	483	INTERGENIC	--	--	--
Ca6_P2_13481060	Ca6	13481060	GAAAAAAAAA/GAAAAAAAAA	AAAGTGCTGCCTGTC CTTA	GGAGTTGGAACGGA ACAA	60.1	483	INTRON	Ca_05119	S	--
Ca6_P2_1349365	Ca6	1349365	G/GCAAAAT	ATGCCTCATTTCCCAAC AAG	ATGCCCGCAATTAAAA CATC	59.8	579	CDS (large-effect mutations)	Ca_27264	S	--
Ca6_P2_1349447	Ca6	1349447	GTTTAGAC/G	ATGCCTCATTTCCCAAC AAG	ATGCCCGCAATTAAAA CATC	59.8	579	CDS (FRAME SHIFT)	Ca_27264	S	--
Ca6_P2_1350878	Ca6	1350878	A/AGTCTGT	ACACATCAGCTTTTGG CTG	AGCCCACTCACCTTCT TCCT	60.3	428	INTERGENIC	--	--	--
Ca6_P2_1353833	Ca6	1353833	CAA/CAAA	TGTTTAAAGGGTGGC ACTT	ACGGAAGGATCCAGTA GGCT	60.1	513	INTERGENIC	--	--	--
Ca6_P2_13541161	Ca6	13541161	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATAT ATATATAT	TTTTGTGTTTCCAAGA TGCG	TCCTCATCAGCAGTA TAGCC	60.3	298	INTERGENIC	--	--	--
Ca6_P2_1354322	Ca6	1354322	GAA/GAACCAA	AATTGTCATAGGCGGT GAAG	GGTGTACAGCTTTTAT GAACAAA	60.4	420	INTERGENIC	--	--	--
Ca6_P2_13557307	Ca6	13557307	TAAAAAAAAA/TAAAAAAAAA	TCCAAAGTGACGACA AGTT	TTGGTTCCACATTGTAC CCC	60.5	823	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_13578667	Ca6	13578667	GAAAAAAAAA/GAAAAAAAAA	TCAGCAATGGCAAATAT GGA	TGAGTAAATCATGACCA AAGCG	60.1	178	INTERGENIC	--	--	--
Ca6_P2_1378246	Ca6	1378246	TC/T	TGTGTCCCAGAAAATG GACA	ACGGAAGGATCCAGTA GGCT	60.1	898	INTERGENIC	--	--	--
Ca6_P2_13838996	Ca6	13838996	CCT/CCTTCT	TGTGTGATTGGTGTGA GCA	GCAACAACGGGTGAAA ATCT	60.0	563	INTERGENIC	--	--	--
Ca6_P2_13926959	Ca6	13926959	TAAAAAAAAA/TAAAAAAAAA	GTGCCATTGGTGACTA AGCA	TCGATTCCCGCAATTAA AAG	60.0	685	INTERGENIC	--	--	--
Ca6_P2_13987966	Ca6	13987966	CG/CGTG	CAAACCTGCAAGAGTG ACGA	TCCCCTGAAAAATGAG ATGC	60.0	863	CDS (FRAME SHIFT)	Ca_05163	--	--
Ca6_P2_13996687	Ca6	13996687	TAAAAAAAAA/TAAAAAAAAA	AGAAGCAGCTATTTTCG CCA	ATCCAGACATTGGCTT TCG	60.1	558	INTERGENIC	--	--	--
Ca6_P2_14027918	Ca6	14027918	GACATGCCCTAAAGTAACAACATGC/GA CATGCCCTAAAGTAACAACATGCCCTA AAGTAACAACATGC	CCCCCACTCAACTTTT GAA	GGACATTGGTGCTTTG GAGT	60.0	690	INTRON	Ca_05168	A	--
Ca6_P2_14065022	Ca6	14065022	GAAAAA/GAAAAA	TTTGCCCTTGATAAAC GTC	TGCATGCTTCTGATTG GAAC	59.8	773	INTRON	Ca_05172	U	--
Ca6_P2_14084331	Ca6	14084331	C/CA	AGGATGTGCACTGTTG TTGC	ACTAGATGGTCGCATC CTGG	60.1	453	INTERGENIC	--	--	--
Ca6_P2_14206895	Ca6	14206895	CCATCATCAATC/CCATCATCAATCATC ATCAATC	TGCAACCAGAACCAAT GTGT	TGACCATACCTCACCA ACCC	60.6	930	INTERGENIC	--	--	--
Ca6_P2_14217212	Ca6	14217212	CAGAGAAGAGAAGAGAAGAGAAGAGA/ CAGAGAAGAGAAGAGAAGAGAAGAGA AGAGA	AGGGGTGTTGGGAAAA TAGG	GTTGCTTTCCGGATAA AACG	59.6	439	INTERGENIC	--	--	--
Ca6_P2_14222488	Ca6	14222488	GATATATATATATATATATA/GATA TATATATATATATA	TTTCAATGGGGGAAAG AATG	CTGAACAACCTTGTGC AACC	59.2	362	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_14246280	Ca6	14246280	ATATTATTATTATTATTATTATT AT/ATATTATTATTATTATTATTAT	GCATGGAGCAATGGAA GATT	TGGTTTTGAAATTA CGCA	58.3	849	DRR	Ca_05192	QR	--
Ca6_P2_14270626	Ca6	14270626	CATATATATATATATATATATAT ATATATATAT/CATATATATATATAT ATATATATATATATATATATAT	ACCGAGTGTGCAACT AAGG	ATGCATTAATGGCCTC CCA	60.4	710	INTERGENIC	--	--	--
Ca6_P2_14278804	Ca6	14278804	CCTTTAAATGC/CC	GACTTGGTCCAATCATA CACCA	TTTTGTAACCGCTTTTC ACG	58.9	636	INTERGENIC	--	--	--
Ca6_P2_14279258	Ca6	14279258	TTATATATATATAT/TTATATATATATA TATAT	CACGTGAAAAGCGGTT ACAA	TCAATGCCATCAATCC TCA	60.0	594	INTERGENIC	--	--	--
Ca6_P2_14338064	Ca6	14338064	TTATATATATATATATATATATATA TATATATAT/TTATATATATATATATAT ATATATATATATATATATAT	AAAGCTTGCTTCGAGAA AAA	CTCCCACTCCACCTA CAAG	59.6	740	INTERGENIC	--	--	--
Ca6_P2_14351256	Ca6	14351256	AATA/AA	TCCATTAGCATTCCCTC CTG	AAAATGTGTGCCATTA GCC	60.0	363	INTRON	Ca_05205	--	--
Ca6_P2_14534609	Ca6	14534609	AATATATATATATATATA/AATATATAT ATATATATA	TGATGTGTAATAGGGC AATGGA	CCTATGGCCTGGCCTA CATA	59.9	222	INTERGENIC	--	--	--
Ca6_P2_14553627	Ca6	14553627	TTATATATATAT/TTATATATAT	TGTTTCATCAAGACCTGC ACTG	CAAAAATTGTGAGAGA CCAAAA	58.3	232	INTERGENIC	--	--	--
Ca6_P2_14618210	Ca6	14618210	TTATATATATATATATATATATAT/TTA TATATATATATATATATATATATAT	TGGAGATTGATTGTTT TGGA	CAATCAGCCTCCAG ATGT	60.1	615	INTERGENIC	--	--	--
Ca6_P2_1466220	Ca6	1466220	TC/TCC	CGATCACCATTGTTGTC GTC	TAATTTATCCCCAAAG GGC	60.0	489	INTERGENIC	--	--	--
Ca6_P2_1468628	Ca6	1468628	TAAAAAAAAA/TAAAAAAAAA	AAGAATGGAGCTCAAG GGGT	GCCTCAAAAAGTAAT CCCC	59.8	405	INTERGENIC	--	--	--
Ca6_P2_14696179	Ca6	14696179	GTTATTATTATTATTATTATTATTAT TATTATTATTAT/GTTATTATTATTATTAT TATTATTATTATTATTATTAT	TGCATTATGCCAGGA GACA	CAAACCTCCTTTGTC CTCTC	60.1	556	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_15349776	Ca6	15349776	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA	GCTTCTATTCGCATTGC ACA	CTCTGTTTGCCCGCT TTTA	60.4	651	INTERGENIC	--	--	--
Ca6_P2_15351653	Ca6	15351653	GTGTTTTTTT/GTTTTTTTTT	GGGGTTCAAAATTTCTC GTTT	CCCACCCACAAACTC TCTA	60.0	846	INTERGENIC	--	--	--
Ca6_P2_1539975	Ca6	1539975	AACA/AA	GCTCTCCAATGTGTAAT CGCT	GCAATCAAAACCACCAT TCC	60.2	748	INTERGENIC	--	--	--
Ca6_P2_1540568	Ca6	1540568	CTTTTTTTTTT/CTTTTTTTTTT	GGAAATGGTGGTTTGA TTGC	TTTTTGGGTAAGGTTTG AAATGA	59.8	496	INTERGENIC	--	--	--
Ca6_P2_15411815	Ca6	15411815	TC/TCC	TTTTGTGATAGGTTCTC GATGC	ATACCTACGGATTTTCG CCG	61.2	811	INTERGENIC	--	--	--
Ca6_P2_1542114	Ca6	1542114	ATT/ATTT	TGCACTTTGTGCACTCC TTA	GTAATGCTGCGTGCAA AACA	60.8	334	INTERGENIC	--	--	--
Ca6_P2_15429919	Ca6	15429919	TAAA/TAAAA	TCGACCACATCAGCAA CTTC	CCGATGGCTCTATGTC TTCC	59.7	737	INTERGENIC	--	--	--
Ca6_P2_1544319	Ca6	1544319	ATTTTTTTTT/ATTTTTTT	GAGGCAAAGCTTCCAA ATCA	CACATTTACTCATCAA TCAAACCA	60.2	469	INTERGENIC	--	--	--
Ca6_P2_1548124	Ca6	1548124	GTTTATTTATTTATTTATTTATTT/G TTTATTTATTTATTTATTTATTT	GGTGTAGGAGGCATAA GGAATG	CAAAATTGAAATGAGGT CTGGA	59.1	541	INTERGENIC	--	--	--
Ca6_P2_1548359	Ca6	1548359	GTGTTTTTTTT/GTTTTTTTTT	AAGGAGTTGGTTGGTG TGTTTT	TGACTAGGAAATTCGA GGGG	59.1	601	INTERGENIC	--	--	--
Ca6_P2_15555599	Ca6	15555599	AATATATA/AATATA	TGTGGGCACATTAGTA GGCA	TCATCGTCGTTGCTTG AGTC	60.0	640	INTERGENIC	--	--	--
Ca6_P2_15559125	Ca6	15559125	CTTT/CTT	TCACCAACAAAAACTG GGG	CTACATCCGGTTAGG GCAA	60.0	480	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_1556032	Ca6	1556032	AT/A	ATTGTTCTCCGTTGTCA GGG	CTGAGATTAGCTTCGG TGGG	59.8	348	INTERGENIC	--	--	--
Ca6_P2_1556325	Ca6	1556325	TAAA/TAAAAAAAAAAAAA	ATTGTTCTCCGTTGTCA GGG	GTGATCGACATACTTC GGCA	59.7	864	INTERGENIC	--	--	--
Ca6_P2_1556869	Ca6	1556869	TAAAAA/TAAAAAA	CAATTTGGTTGGGCGT AAAC	TTGCTTTTACTCATAT TTTGGCCT	59.5	528	INTERGENIC	--	--	--
Ca6_P2_1557117	Ca6	1557117	TAAAAAAAAA/TAAAAAAAAA	GCTTTTCTTTCATATTG CCGT	TTTTGAGCGGAAAGAG TCGT	60.0	674	INTERGENIC	--	--	--
Ca6_P2_15577471	Ca6	15577471	TTCATTATCATTATCATTATCATTATCAT TATCATTAT/TTCATTATCATTATCATTAT TCATTATCATTATCATTATCATTAT	ACATCCAGTCCTGCAAA TCC	TGAACTCTGAGCGTGT GACC	60.0	852	INTERGENIC	--	--	--
Ca6_P2_1559285	Ca6	1559285	GTTA/GTTATTA	CAGAGCAGTGTGACAG CAAGA	TCAAAAATTTCAAACAA AATCCA	58.6	456	INTERGENIC	--	--	--
Ca6_P2_1559495	Ca6	1559495	GAACAAA/GA	GGATTTTGTGAAATT TTTGATG	TATTTTATTTCCACCGC TGC	59.9	445	INTERGENIC	--	--	--
Ca6_P2_1559581	Ca6	1559581	ATTTTTTTTTTT/ATTTTTTTTTTT	TGAAGTTAAATTAAGG ATCGCA	TATTTTATTTCCACCGC TGC	59.9	283	INTERGENIC	--	--	--
Ca6_P2_1560016	Ca6	1560016	TTT/TTTAATT	AATATTACTGCAGCGT GGG	GGACCACAAGAAATCC TCCA	59.9	719	INTERGENIC	--	--	--
Ca6_P2_15608406	Ca6	15608406	TTAT/TT	TGGAACAAAGCTAGTT GGGAA	TTCCAGGAGCTTACGA GCTT	59.2	720	INTERGENIC	--	--	--
Ca6_P2_15630356	Ca6	15630356	T/TG	CCTCATTTGTGGCCAA TTT	CAACGTTGTGATTGTG AGGG	60.0	187	DRR	Ca_05342	--	--
Ca6_P2_15690132	Ca6	15690132	GTTTTTTTTTT/GTTTTTTTTTTTT	TGTTGAACTCTGCCGTC GTA	GCCACATGTTGCTTTT GTTG	60.2	394	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_15696515	Ca6	15696515	CAATTTAAT/CAATTTAATCTTTAAAT TTAAT	AACCCACTTTCGCTCT ACA	ATTGGGAGTGACACAG AGGG	60.0	388	INTERGENIC	--	--	--
Ca6_P2_15727094	Ca6	15727094	ATTTATTTTATTTT/ATTTATTTTATTTA TTTT	TCCCCGCTCTAAGTAG GGTT	CCACTTGTGTCCTAAC AATTCAA	59.1	268	INTERGENIC	--	--	--
Ca6_P2_15727514	Ca6	15727514	ATTTATTTTATTTTATTTTATTT/ATTTAT TTTATTTTATTTTATTTTATTT	TTAGTTTGGGCTTGGG TTTT	TTGCTCCTACGTATCTC CCG	60.2	911	INTERGENIC	--	--	--
Ca6_P2_15728024	Ca6	15728024	AA/AAATA	CGGGAGATACGTAGGA GCAA	TCGATTATGCGTAGGG AAGG	60.1	248	INTERGENIC	--	--	--
Ca6_P2_15730699	Ca6	15730699	TAAA/TAA	ATTTGAACCTGGCAGC AAAA	GGTTTGAAAAAGGGGT GATG	59.3	175	INTERGENIC	--	--	--
Ca6_P2_15730843	Ca6	15730843	T/TGA	ATTTGAACCTGGCAGC AAAA	GCTTGATGAATAAATCA ATGGCT	59.5	525	INTERGENIC	--	--	--
Ca6_P2_15731057	Ca6	15731057	TAAAAA/TAA	ATTTGAACCTGGCAGC AAAA	GGGACAAAAGGCTAGT TTGG	58.7	909	INTERGENIC	--	--	--
Ca6_P2_15732116	Ca6	15732116	TAAAAAA/TAAAAAAA	AGAGTGTTTAGCGGCT CAATG	TCAACACCCCTCTTA GGTG	60.0	472	INTERGENIC	--	--	--
Ca6_P2_15800387	Ca6	15800387	TGAACCTCTTTA/TGAACCTCTTTAGAA CCTCTTTA	CGTGGTCAACAAAGTG GAAA	TTGAAGCATGTCCTCT CTTGAA	60.0	598	DRR	Ca_22015	--	TALE
Ca6_P2_15877864	Ca6	15877864	GTATA/GTA	TGAGAACTAAATGCATG CGG	GGTCTTCAACGGAGAT GGAA	60.1	216	DRR	Ca_22023	R	--
Ca6_P2_15999975	Ca6	15999975	A/AG	AAGTGTGGGCATTTCCT TTG	ATGGACCTCTGTATTC GCCA	60.5	137	INTERGENIC	--	--	--
Ca6_P2_16011030	Ca6	16011030	A/ATATATATATT	ACCAAAAAGGTTTTGCA TCA	GGATGCTGACTATTTT GCATCA	59.1	265	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_16012701	Ca6	16012701	TA/TAA	TAAGAGTTTGGTTCCG GTGG	TGTGCAGATAAATGGC CAAA	60.1	397	INTERGENIC	--	--	--
Ca6_P2_16044969	Ca6	16044969	CATATATATATATATAT/CATATATATAT ATATATAT	TCACATGTCCTCCTCCA TGA	AAAAAGTGCCTCGCGA CTTA	60.0	722	INTERGENIC	--	--	--
Ca6_P2_16049987	Ca6	16049987	AATATATATATATATATATATATATAT/ AATATATATATATATATATATATAT	AGGTATTAATCACTCAA CTTCATCG	GGGTGTGAGCTTCTGG GATA	60.1	794	INTERGENIC	--	--	--
Ca6_P2_16052205	Ca6	16052205	AATTATTATTATTATTATTATTATTA TTATTATTAT/AATTATTATTATTATTAT ATTATTATTATTATTATTATTAT	TACGATCAATCCGCAAC TGA	TTGGAGCATCACAAAG TAAACA	59.7	728	INTERGENIC	--	--	--
Ca6_P2_16054987	Ca6	16054987	TTATATATATATATATAT/TTATATATATA TATATATAT	TTTCATCGGTGCAATTCT TTT	ATCGGGTAAGTTGTTG GTGG	59.7	211	INTERGENIC	--	--	--
Ca6_P2_16093896	Ca6	16093896	AAAAAATATATAAAAAATATA/AAAAAATA TA	TGCAAAAAGATGGCAAT GAA	TTTCCTTAAATATCCAT CCAGTCA	58.9	598	INTERGENIC	--	--	--
Ca6_P2_16191754	Ca6	16191754	GAAAAAAAAA/GAAAAAAAAA	GGAAAGAGAGGAAACC AGGG	GCAGCTGAGTCATCCC CTAT	59.3	717	INTERGENIC	--	--	--
Ca6_P2_16249613	Ca6	16249613	GTATATATATATATATAT/GTATATAT ATATATATATATAT	AGTCTTCTTGATGGCAT CGG	TGAGTGCTTTTAAAGTT GTGCC	59.4	859	INTERGENIC	--	--	--
Ca6_P2_16265149	Ca6	16265149	ATATTATTATTATTATTATTATT/ATA TTATTATTATTATTATTATTATTAT	TTTGGGGTGTACATT TCCA	GGGTAATTAATTGGGT GTTGTGA	59.9	498	INTERGENIC	--	--	--
Ca6_P2_16271865	Ca6	16271865	ATATTATTATTATTATTATTATTATT ATTATTATTATT/ATATTATTATTATTATT ATTATTATTATTATTATTATTAT	CAATTGCGGGGACAAG TTAT	TGGTTGGGTCTTGTGA AAAA	59.0	543	INTERGENIC	--	--	--
Ca6_P2_16286125	Ca6	16286125	CTTACTTTTT/CTTACTTTTTACTTTTT	TGTTGGGATATTTCCCT TGGA	CTTGAAAGAGCCGCA GAAG	60.3	576	INTERGENIC	--	--	--
Ca6_P2_1629096	Ca6	1629096	GGAAGAAGAAGAAGAAGAAGAAG/ GGAAGAAGAAGAAGAAGAAGAAG	ATGACCGTCGTCAACT CACA	TGTGACACATCCCGTG TCTT	60.0	710	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_16322518	Ca6	16322518	GTT/GTTT	AGAAGGGAAAAAGAGA GGCG	TCAAAGGAAATCCCT GACG	60.0	160	DRR	Ca_19667	FP	bHLH
Ca6_P2_16369962	Ca6	16369962	TAAAAAA/TAAAAAAA	CGCTTTTGCCCAATAGA AAC	AAACGGTCTTGTTTT CTCAA	58.8	733	INTERGENIC	--	--	--
Ca6_P2_16413106	Ca6	16413106	GTTATTATTATTATTATTAT/GTTATT ATTATTATTATTAT	AGAGAGGAGATGCCAA ATGC	GGGGCAAGGGGTATGA TATT	59.9	177	INTERGENIC	--	--	--
Ca6_P2_16470806	Ca6	16470806	AATATATATATATATATATATATA/A ATATATATATATATATATATATATA	TGATTGAATGATGAGGT ATGAAA	AGGGTGAGGGAAAGAA AGGA	60.0	932	INTERGENIC	--	--	--
Ca6_P2_16476384	Ca6	16476384	AGAGAA/AGAGAAATGACGAGAA	CTTGATGTTTCCGATGT GGA	TCTCTAAGGGGACACC ATCG	60.1	671	INTERGENIC	--	--	--
Ca6_P2_16493589	Ca6	16493589	TTGATGATG/TTGATGATGATG	CACCACCAACAGGAAC ATTG	GATTGCGCCGTCAGCT ATAC	60.8	617	CDS (large-effect mutations)	Ca_19648	--	Dof
Ca6_P2_16547931	Ca6	16547931	GA/GAGAGCTTA	TTCTTCCTGCTCGTGC TAT	TTCTTTGGCTGAAATG GTCC	60.1	640	INTRON	Ca_06284	A	--
Ca6_P2_16548981	Ca6	16548981	CAT/CATAT	CTTCCAAGTCACCCCA GTGT	GGTCTTTAGTGACG GTGT	60.0	460	INTRON	Ca_06284	A	--
Ca6_P2_16723215	Ca6	16723215	CGAGAGAGAGAGA/CAGAGAGAGAGAG A	GCGAGGATTAGGGTTT GTGA	GTGGCCAGGTGAGAGA AGAG	60.0	208	INTERGENIC	--	--	--
Ca6_P2_16757548	Ca6	16757548	TA/T	TTGCATGCTTCAGTAAT GGC	AGCCGTCATGACTTTT GTCC	60.1	834	INTERGENIC	--	--	--
Ca6_P2_16799803	Ca6	16799803	TGAGAGAGAGAGAGAGAGAGAGAGAG AGA/TGAGAGAGAGAGAGAGAGAGAGA GAGA	AAGTCGTGTTATCCGGT TCG	TGGACGACAATGTTTG GTGT	59.9	512	DRR	Ca_06312	--	--
Ca6_P2_16808061	Ca6	16808061	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/TT TATTATTATTATTATTATTATTATTATTA TTATTATTATTATT	TGAGTGAAGGTGTAG TGGGTG	GCGTGTTGAAACCCAT TCTT	60.0	582	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_1682722	Ca6	1682722	GTGCATCTGTTT/G	GAGGCATTGTCTTTGG TGGT	GCAATGTTTGAATG GCTT	59.9	656	INTERGENIC	--	--	--
Ca6_P2_1683094	Ca6	1683094	TATTAAC/TATTAACCATTGATTAAC	AATAAGTCCATCCGGCT CCT	TTGTGGATGGCGTTTG ATAA	59.9	276	DRR	Ca_10299	--	HB-other
Ca6_P2_1683226	Ca6	1683226	CAA/CA	AATAAGTCCATCCGGCT CCT	TTGTGGATGGCGTTTG ATAA	59.9	276	DRR	Ca_10299	--	HB-other
Ca6_P2_1683327	Ca6	1683327	AC/A	TTATCAAACGCCATCCA CAA	CACTTGC GTGTGGTAG TGCT	60.0	504	DRR	Ca_10299	--	HB-other
Ca6_P2_1683469	Ca6	1683469	TCAT/TACAAAACAATCATAACAT	TTATCAAACGCCATCCA CAA	CACTTGC GTGTGGTAG TGCT	60.0	504	DRR	Ca_10299	--	HB-other
Ca6_P2_1686680	Ca6	1686680	TATAATAATAATAATAATAATAATAA TATAATAA/TATAATAATAATAATAATA ATAATAATAATAATAA	TGTCTACCGGTCCATAC AAAAA	CACATTACAGATGATCC TTGCAT	59.0	816	INTERGENIC	--	--	--
Ca6_P2_1688965	Ca6	1688965	CAAAAAAAAA/CAAAAAAAAA	GCCCCAATGAGATCAA CCTA	AAGAGAAGAAGAACAC GAAGAACC	59.5	687	INTERGENIC	--	--	--
Ca6_P2_16893426	Ca6	16893426	CAA/CAAA	CCACAAGTATTCTGCC TCA	AGGCAGTGCATTCTT TCTG	60.4	558	INTERGENIC	--	--	--
Ca6_P2_16980609	Ca6	16980609	CTATATATATATATATATATATATATA TATATATATATATAT/CTATATATATATAT ATATATATATATATATATATATAT	CGGGCATCGATTGTG TATT	TTGTAAAGATTAAACC GCATTCA	59.9	371	INTERGENIC	--	--	--
Ca6_P2_16983447	Ca6	16983447	GATATA/GATA	GTTTCAAGCTGGCTTC TCG	GATTGGCACGTCGATT AACA	59.5	506	INTERGENIC	--	--	--
Ca6_P2_17051396	Ca6	17051396	G/GCT	GCATGGAATGGAACCT TGAT	ACCATGGTGACTGAT CACA	59.8	956	INTERGENIC	--	--	--
Ca6_P2_17086650	Ca6	17086650	GTATATATATATATATATATATA/GTA TATATATATATATATATATATATATA	AACGGTGAACAAATGC ACAA	ACAAGCCACATTCCTC ATAC	59.7	520	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_17100171	Ca6	17100171	AATATATATATATATATATAT/AAATATATATATATATATATAT	CTCGAAACCAGCAAC CATT	TTTCTTTGTTGTCATC GACATT	59.9	562	INTERGENIC	--	--	--
Ca6_P2_17128191	Ca6	17128191	TT/TTAAT	ATCCACCGAAATGCAG ACTC	CGACGGATAGCTTAGA TCCG	59.8	804	INTERGENIC	--	--	--
Ca6_P2_17170239	Ca6	17170239	GTATTATTATTATTATTAT/GTATTATTAT TATTAT	TTTGTTTGGGGGATGG TAAA	GGGTTTTAGTGTGGG GGTT	60.0	547	INTERGENIC	--	--	--
Ca6_P2_17249239	Ca6	17249239	CTTATTATTATTATTATTATTATTA/C TTATTATTATTATTATTATTATTATT A	CCCTTTGACCATCAATC ACA	GCACAAATGCAACGA GAGA	60.0	257	INTERGENIC	--	--	--
Ca6_P2_1728817	Ca6	1728817	GTTTTTTTTT/GTTTTTTTTT	ATGGCTCCTTGATTTCG ATG	TCAAAAAGGACAATTAA GCCA	57.4	539	INTERGENIC	--	--	--
Ca6_P2_17312806	Ca6	17312806	CT/C	ACCACAATCAGTTTGGC TCC	TTCCCGCTCAAATTAG GATG	60.0	720	INTERGENIC	--	--	--
Ca6_P2_17372168	Ca6	17372168	AATTATTATTATTATTATCATTATTA TTATTATTAT/AAATTATTATTATTATT ATTATTATCATTATTATTATTAT	TCGTTCTTCAGGAAGT CGT	TTTCATTTCGTTTTCAA GTTATCAA	59.1	656	INTERGENIC	--	--	--
Ca6_P2_17380756	Ca6	17380756	GTTTTTTTTT/GTTTTTTTTT	CAAGTCATTGCCGTGG AGA	TGGCAAGCAACATAAA TGGA	60.1	841	INTERGENIC	--	--	--
Ca6_P2_17503155	Ca6	17503155	GATATATATATATAT/GATATATATATAT ATAT	ATTCCCATTAAGTGCC ACA	TCCAAATGGCGACTTC CTAC	60.1	556	INTERGENIC	--	--	--
Ca6_P2_17621608	Ca6	17621608	TAAAAAA/TAAAAAA	AGGTATGGTTCATGTC GGG	TTTTCTTTTGTATTG GTCATT	58.2	879	INTERGENIC	--	--	--
Ca6_P2_17655734	Ca6	17655734	G/GCT	GGTTGATGTTGAATGG TCCC	ACAGATGGTCCAGAT GGTC	59.8	211	INTRON	Ca_06382	--	MYB_related
Ca6_P2_17693744	Ca6	17693744	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA/AAAT AATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATA ATA	CCCGTAAATTGCACGAT AGAA	TGCATCCTTAGATCGAT AATGAGA	60.1	507	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_17710771	Ca6	17710771	CAATAATAATAATAATAATAATAATA ATAATAAT/CAATAATAATAATAATA ATAATAATAATAATAATAAT	CAGCTAAGAGCGACTC ATTGAC	GTGTTGTCTGGGCCTT CATT	60.0	618	INTERGENIC	--	--	--
Ca6_P2_17771211	Ca6	17771211	A/AT	TGGGACCACAGATGTC AAAA	TGAAGGAAGATTGAAA ATAACGG	59.5	352	INTERGENIC	--	--	--
Ca6_P2_1783881	Ca6	1783881	GATATATATATATATATATATA/GATATA TATATATATATATATATATA	AGGGGCAATATAGCTC GTGA	TATTTCTTTGACGGGT TGG	60.1	138	INTERGENIC	--	--	--
Ca6_P2_1788325	Ca6	1788325	CTTTTTTTTT/CTTTTTTTTT	AGGGTGTAAAGCATGG ATGA	CCATCAATCAAAGCAA CCA	59.5	330	INTERGENIC	--	--	--
Ca6_P2_1790055	Ca6	1790055	ATTTTTTTT/ATTTTTTT	CAAAACCGACTTTATTG GGC	CCCTCACTCCCACCTTC AAAA	60.1	525	INTERGENIC	--	--	--
Ca6_P2_17902904	Ca6	17902904	GATAATAATAATAATAATAATAATAA TAAATAATAAGATAATAATAATAATA ATAATAATAATAATAATAATAATAA	ATTTTGTGAATGGCC GAA	CCATAATCTTACGTGGT TTGTCA	58.9	592	INTERGENIC	--	--	--
Ca6_P2_17914426	Ca6	17914426	CAA/CAAA	ATCTTTTGGTGAAATT GCG	CGCGAAACAGCGTTA TGTA	59.9	744	INTERGENIC	--	--	--
Ca6_P2_1800985	Ca6	1800985	TT/TATTTTAT	AGTGCCATCTCTCTCCC TCA	GAAGTCCACCAGTTCA CCGT	60.0	563	INTERGENIC	--	--	--
Ca6_P2_1801041	Ca6	1801041	GTTATTATTATTATTAT/GTTATTATTAT ATTATTAT	AGTGCCATCTCTCTCCC TCA	GAAGTCCACCAGTTCA CCGT	60.0	563	INTERGENIC	--	--	--
Ca6_P2_1803762	Ca6	1803762	AGGGT/A	GCATTTAAAAATAGAAA TATCTGGTCA	AAATGGGTACGCAGAA AACG	60.0	529	INTERGENIC	--	--	--
Ca6_P2_18040619	Ca6	18040619	AATATATATATATATATATA/AATATAT ATATATATATATATATATATATATA	TGTCTACCATGGCGAA AAAC	TTCGGCAATTAGGTGG ATGT	60.3	561	INTERGENIC	--	--	--
Ca6_P2_18055086	Ca6	18055086	GTAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA /GTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAA	TGCGCAACAATCATTAG AGG	ACGTAGCGGTCTTTTC TCCA	59.9	688	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_1813194	Ca6	1813194	TAAAAAAAA/TAAAAAAAAA	TCAGCCAGATTCCAAAT TCA	GCACAGTTGTTTCATGT GATCC	60.4	811	INTERGENIC	--	--	--
Ca6_P2_1813303	Ca6	1813303	TAAAAA/TAAAAA	TCCCAATTTGTTAAAT GTGTCC	TGCAAACTTCACCTTAG CTTGA	60.1	789	INTERGENIC	--	--	--
Ca6_P2_1813340	Ca6	1813340	CAAAA/CAAAAA	TCCCAATTTGTTAAAT GTGTCC	TGCAAACTTCACCTTAG CTTGA	60.1	789	INTERGENIC	--	--	--
Ca6_P2_1813601	Ca6	1813601	TTTTATTTAT/TTTTAT	GGATCACATGAACAAC TGTGC	TGCAAACTTCACCTTAG CTTGA	60.1	229	INTERGENIC	--	--	--
Ca6_P2_1820872	Ca6	1820872	TTG/TTGGTG	CCCACGGTAACAAC CAAT	CGGGTTGGTTTGATTC AAGT	59.8	707	DRR	Ca_10309	--	--
Ca6_P2_1824130	Ca6	1824130	GT/GTT	TTGCAGAATGCATGGG AATA	TCCAAACTCTCCGACC AAAC	60.1	779	INTERGENIC	--	--	--
Ca6_P2_1824314	Ca6	1824314	C/CTCACAAA	TTGCAGAATGCATGGG AATA	TCCAAACTCTCCGACC AAAC	60.1	779	INTERGENIC	--	--	--
Ca6_P2_1825931	Ca6	1825931	C/CT	TCAAATCACATCACCGT TTG	AGCTCCCAATTTTGCA CTTG	60.2	508	INTERGENIC	--	--	--
Ca6_P2_1826019	Ca6	1826019	T/TC	TCAAATCACATCACCGT TTG	AGCTCCCAATTTTGCA CTTG	60.2	508	INTERGENIC	--	--	--
Ca6_P2_1828999	Ca6	1828999	TA/TAA	GAGATGAGCAGCTTGC AGTG	CAGTTGGACCTCCCAT GTCT	60.0	622	INTRON	Ca_10310	G	--
Ca6_P2_1831168	Ca6	1831168	AATATA/AATATATAAATAAAGATATA	GGCAAAAGAACAAGGT CCAA	CCTGGATGAACCAAT ACACAA	59.7	354	DRR	Ca_10310	G	--
Ca6_P2_1832442	Ca6	1832442	A/AC	AAAGGTACGTGAGGTG TGCC	CGTAATTAATGATGGT GGAGTGG	60.5	614	DRR	Ca_10310	G	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_18331022	Ca6	18331022	G/GTTCGGGTATC	TATATTGCTGCCAAT CGC	TTTCCTCCTTGAATCA TGG	59.9	402	INTRON	Ca_06449	QI	B3
Ca6_P2_1834196	Ca6	1834196	TT/TTTTTTTTAT	CATCTCGTCAACCGAG GAAT	ATTTGAGACTTGCGGG AGAA	59.8	302	INTERGENIC	--	--	--
Ca6_P2_18372198	Ca6	18372198	TTAAATAAATAAATAAATAAATAA TATAAATAAATAAATAAAT/TTAAATA AATAAATAAATAAATAAATAAATAA AAAT	CATGCCATTCAATCTC CTT	AAAAATCAAAGCATGC ATAACA	59.9	690	INTERGENIC	--	--	--
Ca6_P2_18382715	Ca6	18382715	TAAAAAAA/TAAAAAA	GTGGCAACCTTCTCTT GAC	GGCTACCTCGCGTGTA ACAT	60.2	664	DRR	Ca_06453	--	--
Ca6_P2_18395337	Ca6	18395337	TTAATAATAATAATAATAATAATA AATAA/TTAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA	AGTAGTTGAAATGGGT GGCG	ATACGGGGTTGATGAT CCTG	59.6	890	INTERGENIC	--	--	--
Ca6_P2_1844908	Ca6	1844908	TTCTC/TTC	TGATGGAAATGTCATAT CACGG	CAGTGCATGCACAAC TTTT	59.9	426	INTERGENIC	--	--	--
Ca6_P2_18458253	Ca6	18458253	TATAATAATAATAATAATAATAATA AATAATAATAATAATAATAATAATA /TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATA	CCAACGATAAAATTAAT TGGA	GACGGATGTGTGAAAT CTTGAA	60.0	468	INTERGENIC	--	--	--
Ca6_P2_18464095	Ca6	18464095	ATTTTTTTT/ATTTTTTT	TGATGGAGTTTGATATT CGTTCTT	AGGGATAGTTTGGGAA TGGG	60.0	765	INTERGENIC	--	--	--
Ca6_P2_1846516	Ca6	1846516	GCC/GC	CCATAATCTGGAAGCT GGGA	AATCTTGCATGTGGCC TTTC	60.1	746	DRR	Ca_10312	R	--
Ca6_P2_1846574	Ca6	1846574	CAAAAA/CAAAAA	CCATAATCTGGAAGCT GGGA	AATCTTGCATGTGGCC TTTC	60.1	746	DRR	Ca_10312	R	--
Ca6_P2_1847229	Ca6	1847229	CGC/CGCAAGC	GAAAGGCCACATGCAA GATT	GGACGTGATCTTTTGG CAAT	59.9	734	DRR	Ca_10312	R	--
Ca6_P2_18490072	Ca6	18490072	AGA/AGAGATAAATGA	AACACAAGATGGCAAG AGGG	TAAGTTGTGCCACGTG TCGT	60.2	337	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_18845632	Ca6	18845632	ATTTTTTTTT/ATTTTTTTTT	GTCACCTCGTTGCATT GAA	GGCCTCCCTTATTCAC AACA	59.9	516	INTERGENIC	--	--	--
Ca6_P2_18867254	Ca6	18867254	TAAAAAAAAA/TAAAAAAAAA	AATACGGAAAACGCAAA TCG	GTAAACCGGACCAAG CAAA	60.0	596	INTERGENIC	--	--	--
Ca6_P2_18890506	Ca6	18890506	TAA/TAACGGTTTAAA	TCTCGTGGTTTCAATCT TGTTTT	CCAAGAAAGCTACGGT CACA	58.9	135	DRR	Ca_06496	K	HD-ZIP
Ca6_P2_18932008	Ca6	18932008	ATTTTTTTTT/ATTTTTTTTT	GCAATTTCCAGGCTATT CCA	GGTCTCGTGAGACGA AGGA	60.2	754	DRR	Ca_06500	U	--
Ca6_P2_19007273	Ca6	19007273	GA/GAA	AAGAGGCTCTCGATTG TTGC	ATGCAATCTTCTCGCC AAC	60.1	302	DRR	Ca_06507	I	--
Ca6_P2_19172700	Ca6	19172700	TTTTTAAATTAATTTTTATTTTAA/TTTT TAAATTAATTTTTATTTTAAATTAATTT TTTATTTTAA	GTGGCAGTAGACCC CATT	CGTGACATTAACCTTG GCCT	60.0	712	DRR	Ca_06524	R	--
Ca6_P2_19355099	Ca6	19355099	CTTTTTTTTT/CTTTTTTTTT	TTGTTTCATGAAGTCTTT GGCA	CCGTGATCATATTTTCA AACCA	59.7	400	INTERGENIC	--	--	--
Ca6_P2_19591689	Ca6	19591689	CATATATATATATATATATATATATAT/ CATATATATATATATATATATATATAT AT	TGGAACACACATTGTC ATTGAT	TGTGCATATCTGCAGTT TCATTT	59.7	709	INTERGENIC	--	--	--
Ca6_P2_19657592	Ca6	19657592	CTATATATATATATATATATATATAT/C TATATATATATATATATATATATAT	CAAGCGCTATGTGACC CTTT	AATGTGAATCCCACCA GGAA	60.2	611	INTERGENIC	--	--	--
Ca6_P2_19677782	Ca6	19677782	ATTTTTTTTT/ATTTTTTTTT	AAGAAAAATCAATCGGA CCAAA	CCAAGTTTGAAGGAG TGTC	58.7	737	DRR	Ca_06573	G	NAC
Ca6_P2_19679632	Ca6	19679632	CATATATATATATATATATATATATAT/ ATATATATATATATATATATAT	CTCATGTCCCGCTAT GTTT	CCAGAAAATTGGAGAA GGGG	60.8	294	INTERGENIC	--	--	--
Ca6_P2_19680352	Ca6	19680352	TTATATATATATATATATATAT/TTATATA TATATATATATATATAT	GGGAAAATGAACATGT CACAGA	CTTTGATAAGTGGCGG TGGT	60.0	654	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_1975492	Ca6	1975492	GATCCGCTG/GATCCGCTGCTACATCC GCTG	GTAGTTTGGCTTCCCTT CCC	GCTTTTGCGGCATCTA GTTC	60.0	458	INTERGENIC	--	--	--
Ca6_P2_1976018	Ca6	1976018	AAT/AATAGAT	GAAGTAGATGCCGCAA AAGC	GTACGTGGTCCTTCCC TGAA	60.0	560	DRR	Ca_10322	--	--
Ca6_P2_1976736	Ca6	1976736	TC/TCCC	TTATTCTCATTGGGCA TCC	TCCTGCGGGTAATGAT AAGC	60.1	963	DRR	Ca_10322	--	--
Ca6_P2_1977351	Ca6	1977351	TTT/TTTTTT	GCTTATCATTACCCGCA GGA	TAGCATAGTCCAAGCG GACC	60.2	465	DRR	Ca_10322	--	--
Ca6_P2_1978360	Ca6	1978360	A/ATCG	CGTGGAGCATTCCGAG TATT	GGAGTTAGGCGGTGTG ATGT	60.0	575	INTRON	Ca_10322	--	--
Ca6_P2_1978522	Ca6	1978522	C/CCTGAGG	ACATCACAGCCCTAAC TCC	CTTAGCCTTGCAAATG AGGC	60.0	197	INTRON	Ca_10322	--	--
Ca6_P2_2024308	Ca6	2024308	GTTTTTTTTT/GTTTTTTTTT	TTGTCGTGCCATTAGTG ACC	TCAATCGGAAATTTTAT TTTTGAA	59.0	773	INTERGENIC	--	--	--
Ca6_P2_2032078	Ca6	2032078	CATTATTATTATTATTATTATT/CATT ATTATTATTATTATTATT	CCTCTCAACCCCTCTCC TCT	GTTGGTGACAATGCA CAGG	60.0	524	INTERGENIC	--	--	--
Ca6_P2_20531282	Ca6	20531282	CTTTTTTTTT/CTTTTTTTTTT	TTGGTGGAACCTTGAA AATGA	CCTTTTCAGCAAAACT CCG	59.9	630	INTERGENIC	--	--	--
Ca6_P2_20622958	Ca6	20622958	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT/TTT ATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATTAT TTAT	CCACGCAAAATAGAGA TGTG	ATCAATTGTGGAGCAT GCAA	60.1	554	INTERGENIC	--	--	--
Ca6_P2_2063027	Ca6	2063027	GGAAAGAAAGAAAGAAAGAAAGAAAG AA/GGAAAGAAAGAAAGAAAGAAAGAAA	AGGCAAGAAAGAGAG AACA	GCATGACACGACAATG GAAG	60.1	807	INTRON	Ca_10326	A	--
Ca6_P2_2063379	Ca6	2063379	CAA/CAACCTGTATTAA	TGTTCTCTTGTGGAGA GGG	TGACACGGCGTAAGTA CTCG	59.9	909	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_20656775	Ca6	20656775	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT	TTCGACAGTTTTTAAAT AAATTCTCAT	AGACATTGACGGACG ACCT	59.6	282	INTERGENIC	--	--	--
Ca6_P2_20695941	Ca6	20695941	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATAT	ACTCGTGCCTTGCAAA GAT	GTGGACTTCGGTTGCA TTTT	60.0	503	INTERGENIC	--	--	--
Ca6_P2_2084924	Ca6	2084924	GATATATATATAT/GATATATATAT	TAGCCCAACCTTGCAT TTC	TGGCTTCTCAATTCCAT CCT	59.6	477	INTRON	Ca_10330	--	NF-X1
Ca6_P2_20851411	Ca6	20851411	TTTCTTCTTCTT/TTTCTTCTTCTTCTT	ACACAAAACCTGCCGATC CAT	CTTGAAAACGAATTGG GACC	59.4	335	INTERGENIC	--	--	--
Ca6_P2_20852278	Ca6	20852278	TAAA/TAA	TGCAATTTCAAGGGACA AGA	CAAGGATGATAGGCGA TG TG	59.1	731	INTERGENIC	--	--	--
Ca6_P2_20852349	Ca6	20852349	GAAA/GAAAA	CAACAAATGGGGTTTG AATTG	AAAAGAAAGGCCAATG CTGA	59.8	674	INTERGENIC	--	--	--
Ca6_P2_20853701	Ca6	20853701	GA/GAATAAGCA	TCCTGAGGAACATTCTC CGT	AAGCAACAAAAGAACAT CACACA	59.7	327	INTERGENIC	--	--	--
Ca6_P2_20854810	Ca6	20854810	CATATTA/CATATTATATTA	TATGCCCATTAAGATTG CGC	GATCGCTACCGTGCTC TTTT	59.5	313	INTERGENIC	--	--	--
Ca6_P2_2086027	Ca6	2086027	CAATAATAATAATAATAATAATAATA ATAATAA/CAATAATAATAATAATAATA TAATAATAATAATAATAA	CGACCATCACACAAAA CAA	TTGAAATTGAAATCGG TACACA	59.4	216	INTERGENIC	--	--	--
Ca6_P2_20910168	Ca6	20910168	TATAATAATAATAATAATAATAATAA TAA/TATAATAATAATAATAATAATAA ATAATAATAATAA	TTGCCAAAAGTGAATGC AAG	GATAGCAGCCAAGCTG GAAG	60.1	817	INTERGENIC	--	--	--
Ca6_P2_20920548	Ca6	20920548	CATATT/CATATTATATT	TTCTGGAACTGCAAA ATC	AAAGACCAGCACCATC AACC	60.0	353	INTRON	Ca_16338	U	--
Ca6_P2_21021586	Ca6	21021586	CTATTTATTTATTTATTTATTT/CTA TTTATTTATTTATTTATTT	CACCGTCGTGTTCACT GTC	TTATTTACCGTCGTG CCA	60.0	458	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_2109965	Ca6	2109965	AATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT ATT/AATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT ATTATTATTATTATT	CGCCTCAATGACATCAC AAC	AGTCTCTCAGCCATGG ACTACTT	58.6	806	INTERGENIC	--	--	--
Ca6_P2_21114090	Ca6	21114090	TTATATATATATATAT/TTATATATATATA TATAT	CATAATACACCCGAGTC CGC	TCCAAACCCCAAGTTCC AAAG	59.9	491	INTERGENIC	--	--	--
Ca6_P2_21139884	Ca6	21139884	ATTTTTTTTT/ATTTTTTTTTT	CAGAAGGATTGCTCGT GTGA	TGCATAGGCAAAAATG ATTGA	59.2	528	INTERGENIC	--	--	--
Ca6_P2_21141563	Ca6	21141563	GTTTTTTT/GTTTTT	TCCGATAGGAAGAGCC AATG	ACGTTTATTTTCGGAC CCC	60.1	697	INTERGENIC	--	--	--
Ca6_P2_21142157	Ca6	21142157	T/TCCTAA	GAGGGGGTCCGAAAAA TAAA	AAATGTGACCGAACCA CCAT	60.1	558	INTERGENIC	--	--	--
Ca6_P2_21146689	Ca6	21146689	AT/A	CACACCTTTTGGATGCA CAC	TGGTCATTTTCGTCATC CCT	60.3	379	INTERGENIC	--	--	--
Ca6_P2_21147457	Ca6	21147457	TA/TAA	CGGAGGACGAAAATGA CCTA	TGTGCATCCAAAAGGT GTGT	60.0	441	INTERGENIC	--	--	--
Ca6_P2_21173513	Ca6	21173513	TAAAAAAAA/TAAAAAAAAA	AAAAACAACACGGAACA AACA	GAGAAAAAGGGCGTA TGAA	59.2	527	DRR	Ca_19886	--	--
Ca6_P2_21196310	Ca6	21196310	TTTATTATTATTATTATTATTATTATT ATTATTATTATT/TTTATTATTATTATTAT TATTATTATTATTATTATTATTATTATTA TT	GGGATGTCATTCAATCC ACC	TCGGGTCGTGACACTT ACAA	60.2	778	INTERGENIC	--	--	--
Ca6_P2_21261683	Ca6	21261683	TG/T	GGGCAGCGAACTTAGT CAAG	TGCCATAGATCTGCAT CCAA	60.2	192	INTERGENIC	--	--	--
Ca6_P2_21317265	Ca6	21317265	TTATATATATATATATATATAT/TTATA TATATATATATATATATATAT	ACTAGTTCGTAACCCGT GCG	ATAAGGCACGGTGTTG GAGT	59.5	249	INTERGENIC	--	--	--
Ca6_P2_21353236	Ca6	21353236	GTTTTTTTTT/GTTTTTTTTT	TTATCGGTGACGGAGC TAGG	TGCATTATTTCTCAGCG GGT	60.6	548	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_21399662	Ca6	21399662	AAATAATAATAATAATAA/AAATAA AATAATAATAA	TCCCTAGTTGGAGTCT GATG	GTCCACCTAAATGCC TTGA	59.9	447	INTERGENIC	--	--	--
Ca6_P2_21401312	Ca6	21401312	C/CT	AGCTCAGTCCTCACAA CGT	TTAGATCGGACAAGAA ACCGA	59.7	344	INTERGENIC	--	--	--
Ca6_P2_21401897	Ca6	21401897	ATATTACACTATTA/ATA	TCGGTTTCTTGTCGGAT CTAA	ATTCATGGATGCGGGT ATGT	60.0	721	DRR	Ca_19861	E	--
Ca6_P2_21408015	Ca6	21408015	ATTTTTTTT/ATTTTTTTT	AGGCCTTTTATTTTCGTT GCC	TTGAATCGCAAAACAAC CAA	60.1	897	DRR	Ca_19860	--	--
Ca6_P2_21485595	Ca6	21485595	GTTTTTTT/GTTTTTTT	TGCGGGCTAGCTCACT TAAT	TCAAACAATAGGCA GGGG	59.9	115	INTERGENIC	--	--	--
Ca6_P2_21553792	Ca6	21553792	ATCTCTCTCTCTCTCTCTCT/ATCTCT CTCTCTCTCTCTCTCTCTC	CCAGCTTTGAATGCTTC TCC	CCAGAACCCCGTAACA GAAA	60.0	579	INTERGENIC	--	--	--
Ca6_P2_21605985	Ca6	21605985	CTATATATATATATATAT/CTATATATAT ATATATATATA	GATTTTCGCAGTGAAC GGAT	TCCCCTTCTATTTCCCT TGAA	59.9	437	INTERGENIC	--	--	--
Ca6_P2_21699181	Ca6	21699181	AATATATATATATATATATATATATAT ATATATATATATATATAT/AAATATATAT ATATATATATATATATATATATATATA TATATATAT	AAAACCACCGTGACGA GAAC	AAGGAGTCGATTTTGC AAGC	59.5	830	INTERGENIC	--	--	--
Ca6_P2_21719697	Ca6	21719697	TATATATATATATATATATATATATAT ATATATATATA/TATATATATATATATATA TATATATATATATATATATATATA	TGTTTGTGGAGAACTTT TTCATGT	TCTTTATAACACGGCAT CATTCA	59.5	310	INTRON	Ca_11268	--	G2-like
Ca6_P2_21720752	Ca6	21720752	ATTTTTTTTTTTT/ATTTTTTTTTTTT	AGATCGTTTGATGCTGT CCC	CACACATGATGGGTG GAATG	59.6	235	DRR	Ca_11268	--	G2-like
Ca6_P2_2179226	Ca6	2179226	CTTAGGGTTAGGGTTAGGGTT/CTTAG GGTTAGGGTTAGGGTTAGGGTT	GGGCAAAAAGGTGAGT GAAA	TAAACCGTGCTTGCTC TTGA	59.6	368	INTERGENIC	--	--	--
Ca6_P2_21854788	Ca6	21854788	CTATTATTATTATTATTATTATTAT/C TATTATTATTATTATTATTAT	TGAGGACAATTGTGTCA GTCAA	GGTTAATTAGCATTG GGTATGTC	59.2	873	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_21881499	Ca6	21881499	ATTTTTTTTTTT/ATTTTTTTTTT	ATTTTGTCAATCACCT GCC	TTCTCCGTCATTTCTCA CCC	60.1	546	INTERGENIC	--	--	--
Ca6_P2_21891223	Ca6	21891223	TTCTC/TTC	GGAAGACCTTGGATT CACA	CAATACCGTCCTGCAC ATTG	60.0	517	INTRON	Ca_11250	S	--
Ca6_P2_2189256	Ca6	2189256	CGG/CG	GTGTTGCGTGTTCGAG TCTT	ATTGAAATCATCCGTG CCTC	59.9	388	INTERGENIC	--	--	--
Ca6_P2_22099200	Ca6	22099200	TT/TTACGTGT	ACGTTTCATCTTTCAAC GGG	TTGAGATTCAGGTGGC ATGA	60.2	144	INTERGENIC	--	--	--
Ca6_P2_22099449	Ca6	22099449	ATTTTTTTTT/ATTTTTTTTTTTT	TGTGTTGCTTCTTGGCT TTG	ACGTGTGGGTTTCAGG TCTC	60.0	620	INTERGENIC	--	--	--
Ca6_P2_22110504	Ca6	22110504	AAT/AATAAAAAATAT	CATGTTAGTGGCAAGA GCGA	GATCAGGAGATGCCCA AAGA	60.2	608	INTERGENIC	--	--	--
Ca6_P2_22333492	Ca6	22333492	AT/A	TTTGAAAGATTCCAG ACC	TATCTTTGTTGGGGG CAAC	59.8	486	DRR	Ca_11204	--	--
Ca6_P2_22410012	Ca6	22410012	A/ACACAAACATGACTC	TTTCATGTATCGGGCT AGC	CTCCTGGATCAAAGG TCAA	60.0	688	INTERGENIC	--	--	--
Ca6_P2_22915019	Ca6	22915019	AATATATATATATAT/AATATATATATA TATATAT	CCTAACCAACAAACCTC CGA	TGAAAAATCGAACATTG GCA	60.1	369	INTERGENIC	--	--	--
Ca6_P2_23013682	Ca6	23013682	TTATATATATATATATATATATATATA TATATATA/TTATATATATATATATATA TATATATATATATATA	TTGTTTGTCTCTCTGT CTT	CACCTGCTTTTGATGG GTCC	60.5	563	DRR	Ca_11146	H	--
Ca6_P2_23040307	Ca6	23040307	CTT/CTTTT	ACTCCTACGGATTGTG CAGC	CGGTGAAGAGAGATGA AACGA	60.4	702	INTRON	Ca_11143	--	ERF
Ca6_P2_23040325	Ca6	23040325	TACA/TA	AAGAATGTGTCTAATGG AAGGTCA	CGGTGAAGAGAGATGA AACGA	60.4	452	INTRON	Ca_11143	--	ERF

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_23042823	Ca6	23042823	CATATATATATATAT/CATATATATATAT	CAACGATCTGCACCAC ACAT	GGTGCAGCAAGTGAGC AATA	60.0	665	INTRON	Ca_11143	--	ERF
Ca6_P2_23042859	Ca6	23042859	TCAATCCAATCCAATCCAAT/TCAATCC AATCCAATCCAATCCAAT	CAACGATCTGCACCAC ACAT	GGTGCAGCAAGTGAGC AATA	60.0	665	INTRON	Ca_11143	--	ERF
Ca6_P2_23042981	Ca6	23042981	TAAA/TAA	CAACGATCTGCACCAC ACAT	GGTGCAGCAAGTGAGC AATA	60.0	665	INTRON	Ca_11143	--	ERF
Ca6_P2_23064332	Ca6	23064332	CCATGTGTGTTATTC/CC	TGGGTTGATTTTCCAC ATT	TGGAGTTATAGAGACC ATTCCG	58.2	391	INTERGENIC	--	--	--
Ca6_P2_23064745	Ca6	23064745	CA/C	TGGGTTGATTTTCCAC ATT	TCTCGAGCAAATCACA AGTTAAA	59.1	571	INTERGENIC	--	--	--
Ca6_P2_23077667	Ca6	23077667	CAAAAAAAAA/CAAAAAAAAAAAAAA	TTCTAAGGGCCTCCAA GGTT	GGCATGATTTTAAATGT TGTTG	57.1	511	INTERGENIC	--	--	--
Ca6_P2_23078938	Ca6	23078938	T/TC	TGGACAATCGCCCAAT TAT	TCTCGAGCAAATCAG AGTTA	58.7	716	INTERGENIC	--	--	--
Ca6_P2_23186768	Ca6	23186768	ATTTTTTTTTTTT/ATTTTTTTTTTTT	GGTTCACCAATGGACC CTTA	CAAATTTTCAACAAA ACCCA	58.9	762	INTERGENIC	--	--	--
Ca6_P2_23197578	Ca6	23197578	TTATATATATATATATATATATATATA TATATATAT/TTATATATATATATATAT ATATATATATATATAT	TGAATCAAGGATGCCA CAAA	CATTTCCGTTACACAA GGA	58.5	726	DRR	Ca_11132	R	--
Ca6_P2_23231829	Ca6	23231829	ATTTTTTTT/ATTTTTTTTTT	AAGCAACAAACATCATG CCA	GAGGCCAAAACGAAAC AAAA	60.1	584	INTERGENIC	--	--	--
Ca6_P2_23238479	Ca6	23238479	GTTTTTTT/GTTTTTTT	TCAACGGATTTCCACCC TTA	TCTTGTCTCCACCCGT AAAA	59.6	368	INTERGENIC	--	--	--
Ca6_P2_23307724	Ca6	23307724	AATATATATATATATATATATAT/AAAT TATATATATATATATATATATATAT	TTGAGGGGGAACTTT GTTG	CTCAAGCCTCCAATG GTGT	60.1	292	DRR	Ca_11126	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_23326006	Ca6	23326006	TAAAAA/TAAAAAA	GTCATTGTGGGCACT CCTT	TTGTTGAGTGAATCAAT GAATGG	59.9	741	INTERGENIC	--	--	--
Ca6_P2_23338589	Ca6	23338589	GATATATATAT/GATATATATATATATAT ATATATATAT	ATCTCAATGGACACTGC ACA	AATGGATTGGGATCGA ATGA	60.1	451	INTERGENIC	--	--	--
Ca6_P2_23343422	Ca6	23343422	CTTTTTT/CTTTTTTT	ATATGCTTCACTTGCCG CAC	CCGGTCTTTCGTTTAC CACA	60.9	514	DRR	Ca_11125	E	--
Ca6_P2_233726	Ca6	233726	CTATTTATTTATTTATTTATTTATTTATTT TATTTATTTATTTATTTATTTAT/CTATTT ATTTATTTATTTATTTATTTATTTATTTAT TTATTTATTTATTTATTTATTTATTTAT	CGGATCCCACCACTTG ATAA	TTGATCGTTGGGTTGA TGAAT	60.2	640	INTERGENIC	--	--	--
Ca6_P2_23398320	Ca6	23398320	CTTTT/CTTTTTT	TTCTCCATCTTGAGGG GATG	TAGATGCTTAGGTGCG GCTT	60.0	367	INTERGENIC	--	--	--
Ca6_P2_2343360	Ca6	2343360	ATTTTTTTTTTT/ATTTTTTTTTTT	TGTCAACTACTCCCAAC GAA	TAATCAGTGATGCAAC CGGC	62.0	724	DRR	Ca_10365	--	--
Ca6_P2_23450741	Ca6	23450741	ATTTTTTTTT/ATTTTTTTTTT	CCGATTTTCAAAGCGAT GAT	TAGACGTCCTCGTTTT GGG	60.1	268	INTERGENIC	--	--	--
Ca6_P2_2345807	Ca6	2345807	ATT/AT	TTTTTGTGGGACGACAT TTG	TGACGTCGTGGCAATT ACAT	60.0	682	INTERGENIC	--	--	--
Ca6_P2_23460988	Ca6	23460988	TTATATATATATATAT/TTATATATATA TATAT	CTTCTCCACTTTGTCGT CCC	GGACGCAAGAGAACAC ACAA	59.9	795	INTERGENIC	--	--	--
Ca6_P2_23642077	Ca6	23642077	TC/TTTCCC	GATTACCATGTTGGG ATCG	CAATTCGGTGCTTGT CCT	60.1	137	INTRON	Ca_11091	R	--
Ca6_P2_23691343	Ca6	23691343	GG/GGTGGTAG	TGTTGGCCATAATGCTG TGT	GGATTGACTAGCAGAC CCCA	60.1	704	CDS (large-effect mutations)	Ca_11084	K	--
Ca6_P2_2373614	Ca6	2373614	TTATATATATATATATATATATAT/TTA TATATATATATATATATATATATATAT	AAAGACCGTTCACTTGT TGAAT	CATCCTCAAGCTAGCC ATCC	59.8	919	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_23741801	Ca6	23741801	GTATATATATATATATATATAT/GTATAT ATATATATATATAT	TAGTGCTCTGCATTGT CCG	TGAAGGACGATGAATT CCTAAAA	60.0	768	INTERGENIC	--	--	--
Ca6_P2_23755333	Ca6	23755333	TAC/T	GGAGGAGCAGAAGCAA CAAC	CTGTGGGATCAATTGG CTCT	60.1	256	INTERGENIC	--	--	--
Ca6_P2_23826454	Ca6	23826454	CTATATATATATATATATATATATATA TATATAT/CTATATATATATATATATATAT ATATATATATATATATATATATATATATA TAT	AATTTAAGGGACCACG GATG	TCGGCCTGAGTCTGTC CTAT	59.8	751	INTERGENIC	--	--	--
Ca6_P2_2384865	Ca6	2384865	TTAATAATAATAATAATAATAATAAT AATAATAA/TTAATAATAATAATAATAAT AATAATAATAATAATAATAA	AGATTGCCCCACTTCAA AAA	TAACCTGCCAAGAGG AGGA	59.8	866	INTERGENIC	--	--	--
Ca6_P2_23869505	Ca6	23869505	TTG/TTGTG	CCGAATCAAATCCCCT TTT	CGTGAAGCCGTAAACC GTAT	60.0	775	INTERGENIC	--	--	--
Ca6_P2_23873936	Ca6	23873936	CAT/CATCCTTTAAT	GAGCATAGTTCCTTTTC ACGG	AATTTTGGTCCCAAAC AGA	59.3	441	INTERGENIC	--	--	--
Ca6_P2_2389824	Ca6	2389824	GTT/GTTT	TGAACACCTTCATGAGC AGG	CCATGAGCTCAGCCAG TGTA	60.0	779	INTRON	Ca_10370	MU	--
Ca6_P2_2402829	Ca6	2402829	A/ATTGAAATTC	TATTGCTCTGTCAGCA CGC	CCCCTTTCTGCTCTTCC TTT	59.8	954	CDS (large-effect mutations)	Ca_10371	J	--
Ca6_P2_24092648	Ca6	24092648	CTATTATTATTATTATTATTATTATT ATTATTATTATTATTATT/CTATTATT ATTATTATTATTATTATTATTATTATT TATTATT	TTGCTCTTTTGGTTC TCA	CCAACTATTGTCCCC TTGA	58.9	345	INTERGENIC	--	--	--
Ca6_P2_24178700	Ca6	24178700	AATATATATATATATATATAT/AATATA TATATATATATATATATATAT	TCTGTGTGTGTGTGTG TGTGTG	TTTCATGAGGTTTGG GTCC	59.8	531	INTERGENIC	--	--	--
Ca6_P2_24232847	Ca6	24232847	TTATATATATATATATAT/TTATATATA TATATATAT	TGAGGTGCTGTCCAAA TTGT	ATAAATCCGCAACCG ATCA	60.3	521	INTERGENIC	--	--	--
Ca6_P2_24249939	Ca6	24249939	AATATATATATATATATATATATATAT ATATATATATATAT/AATATATATATATAT ATATATATATATATATATATATATATATA TATATATAT	TGACATGCAAAATTGAA AAGC	TAAGGACCCAAACATG GAGC	59.9	657	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_2533591	Ca6	2533591	AT/ATT	CTCTTATGTCGGTCGC CAAT	AAC TTGTGGAAGCTG TGGG	60.1	533	INTERGENIC	--	--	--
Ca6_P2_2542709	Ca6	2542709	CAA/CAAAA	GCAAAACCTTTCTGT GAG	TGTGATCTGTGCATCC CAAT	59.9	241	DRR	Ca_10386	--	--
Ca6_P2_2543407	Ca6	2543407	GTTTTTTT/GTTTTTTTT	GCCCTTTGAGCACTTGT TTC	AGCTGGCTGGGTGACT AAGA	60.0	617	DRR	Ca_10386	--	--
Ca6_P2_25448146	Ca6	25448146	ATGTATTTTGGTGATTTTGGT/ATGTAT TTTGGT	AGCGTTTAGGGTTTTG GGT	CGGTTTTGAAACCCCT AACA	59.8	873	INTERGENIC	--	--	--
Ca6_P2_25495130	Ca6	25495130	AGGTTTTAG/AGGTTTTAGGGTTTTAG	TTCGTTCAAAAATGCAA AAGTC	CCAAAACCAAAATGAC CAAA	59.7	529	INTERGENIC	--	--	--
Ca6_P2_2553132	Ca6	2553132	GCACACACACACACACA/GCACACA CACACACACACACACA	TTGCTTGCAATGCACAT TTT	TGGTCTAACTTTCGGC ACAA	59.3	647	INTERGENIC	--	--	--
Ca6_P2_25542642	Ca6	25542642	CCTCGCTTTGAAATC/CC	TGTTAGGAGGATCTCA CGGG	CGACGAATGACGTTGA CCTA	59.7	628	INTERGENIC	--	--	--
Ca6_P2_25559278	Ca6	25559278	GTTTT/GTTTTT	GTTGAGCCCTCTCAAC CAAG	CCCAGCAATCGATTAG GAAA	60.0	573	DRR	Ca_24006	--	--
Ca6_P2_25583382	Ca6	25583382	TAGGGTTCAGGGTTCAGGGTTCAGGG TT/TAGGGTTCAGGGTTCAGGGT	GGGTTTAGGGTTTGG GATT	AAAAACCAAAATGACCC AACA	59.2	377	INTERGENIC	--	--	--
Ca6_P2_25594919	Ca6	25594919	AATATATATATATATATATATATATAT ATATATATAAATATATATATATATATA TATATATATATATA	TATTTTGATTTTGGCT CGG	CGAAAATGAAAACGGG AGAA	60.0	293	INTERGENIC	--	--	--
Ca6_P2_25613249	Ca6	25613249	A/AAC	TGGCATATAGGTCAATT AGGGG	TGGTTATTGTGGCTGC TTTG	59.7	547	INTERGENIC	--	--	--
Ca6_P2_25682308	Ca6	25682308	GTTTAGGTTTTAGGTTTTAGG/GTTTAG GTTTAGGTTTTAGGTTTTAGG	TGGGCTTGGGCTGTT TTAG	CCCTTAACCTTAACCC CAA	60.0	838	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_25755018	Ca6	25755018	ATTT/ATTTT	GCATTAGAGTGCTTGG CACA	ACAGCGGAAGAGTTTC TCCA	60.0	983	INTERGENIC	--	--	--
Ca6_P2_25762575	Ca6	25762575	TTATATATATATATATATATAT/TTATA TATATATATATATAT	TCTCTTCGCGAAACGAA TCT	TTGGTATTGAACTCAG GGGC	59.9	576	INTERGENIC	--	--	--
Ca6_P2_25766734	Ca6	25766734	AGGGGGGGGG/AGGGGGGGGGGG	CAACTGCATCCCATATG TCG	TAATCCTTGGGTGGGA GTTG	59.8	445	INTERGENIC	--	--	--
Ca6_P2_25810652	Ca6	25810652	TTAGGGTATAGGGTATAGG/TTAGGGT ATAGG	TTGGTCATTTCGGTTTT TGA	TCAGAAATTTGCACTCC AAGG	60.2	762	INTERGENIC	--	--	--
Ca6_P2_2583723	Ca6	2583723	TAAA/TAA	GTGGGTATGGACGCAA AATC	GCAACACATCCCTAGT GGAAA	60.0	623	INTERGENIC	--	--	--
Ca6_P2_2586276	Ca6	2586276	GTTTTTTTTTT/GTTTTTTTTTTTT	GGTGCCACACATACATT GGA	TAATCGCGGGATCTTA TTCC	60.0	490	INTERGENIC	--	--	--
Ca6_P2_25876967	Ca6	25876967	AATATATATATATATATATAGATATAT ATATAT/AATATATATATATATATATAT AGATATATATATAT	TGACCTCACCCAAAAC TCC	TGCGCAAGACTTGTTG AATC	60.0	508	INTERGENIC	--	--	--
Ca6_P2_25894918	Ca6	25894918	CTATATATATATATATATAT/CTATATA TATATATATATATATAT	AAATTGGTCCACTAGCA CCG	ACTTCGGATGCGTTTT CATC	60.1	769	INTERGENIC	--	--	--
Ca6_P2_25959668	Ca6	25959668	TACATCAAA/TACATCAAAATATGACAT CAAA	TGTCATCCCAACACGT CAT	TTTTCCCATGCAAGG TTAG	59.9	339	DRR	Ca_25499	R	C2H2
Ca6_P2_26062834	Ca6	26062834	AATTATTATTATT/AATTATTATT	TTGTTGCTTATTGCTTG TCTACC	TTTTTCTTAACACAAGC CAACA	57.6	395	INTERGENIC	--	--	--
Ca6_P2_26092614	Ca6	26092614	GATATATATATATATATATATATAT/G ATATATATATATATATATATATATATAT	ATGTTTTGGATTTTGGC TCG	AATTCCTTCCACACAA CCA	60.2	716	INTERGENIC	--	--	--
Ca6_P2_26277672	Ca6	26277672	T/TG	TTAGGTGCGCTTGACT GATG	GTTTTGGCGTTGGTTT CACT	60.0	558	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_26277860	Ca6	26277860	CG/CGG	TTAGGTGCGCTTGACT GATG	ACGTAGCGAGCCCTAG ATGA	60.0	788	INTERGENIC	--	--	--
Ca6_P2_26288499	Ca6	26288499	GATATATATATATATATATATATA/GA TATATATATATATATATATATATATA	ATGTGAATCCCACCAG GAAA	GCTTGTGGAAAAACG CTGT	60.3	851	INTERGENIC	--	--	--
Ca6_P2_26323315	Ca6	26323315	TG/T	TTTCGTTGGTCCTTCCA AAC	AACATTGACGCCTTCC ATTG	59.9	563	INTERGENIC	--	--	--
Ca6_P2_26437454	Ca6	26437454	CAAAT/CAAATAAAT	AGGCATCCCCTTATACA CCC	GCTTAGGCAGCCACAA AATC	59.9	520	INTERGENIC	--	--	--
Ca6_P2_26590044	Ca6	26590044	GATAATAATAATAATAATA/GATAAT AATAATAATAATA	CCTTTGTGAGGGCTAA AAGC	TTGTTGTGACCAAGCT AGGAA	59.8	731	INTERGENIC	--	--	--
Ca6_P2_26686327	Ca6	26686327	TTATATATATATATAT/TTATATATATA TATATATAT	CTAGTGCGAATGGCAG ACAA	GATTATGGCCAGCTT TTGA	60.0	358	INTERGENIC	--	--	--
Ca6_P2_2669625	Ca6	2669625	TTGTGTGTGTGTGTGTGT/TTGTGTG TGTGTGTGTGTGTGT	TGTTCAATTTGCTCCTTG TGC	TAGGTGGTGGGAAGC ATAG	59.9	350	INTRON	Ca_10400	--	bHLH
Ca6_P2_2671484	Ca6	2671484	AC/A	TGGCTTCTTGAGCTG TTTT	CTTCGTGTGGCCTCT TCTC	60.0	891	DRR	Ca_10400	--	bHLH
Ca6_P2_2674985	Ca6	2674985	ATGTT/AT	GAAACTTCGTGCCTTTT TGC	ACGATAGTAGATGTGG CGGC	60.1	152	INTRON	Ca_10401	V	--
Ca6_P2_26749884	Ca6	26749884	ATTAAAAATTTAAAAA/ATTAAAAATTTA AAAAATTTAAAAA	ATGGAGTGGAATGGA CCAA	TTGCTTGCAATGTTTGG CTA	60.4	480	DRR	Ca_16705	B	--
Ca6_P2_26764661	Ca6	26764661	TAGAGAGAGAGAGAGAGAGAG/TA GAGAGAGAGAGAGAGAGAGA	CCATAGGATGAAATGCT GGC	GCAGCCATGAACCTTC AACT	60.3	436	INTERGENIC	--	--	--
Ca6_P2_26805979	Ca6	26805979	AATATATATATAT/AATATATATATATA TAT	CACCCCTAGGTGCACA TGAT	CATGTGATTGATGCAC GAAA	59.1	718	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_27808764	Ca6	27808764	GATATATATATATATATAT/GATATATAT ATATATATATATAT	CCTCAAAGGGAAGG AAAG	CGTTCTTTGTTCTGGA CGG	58.3	632	INTERGENIC	--	--	--
Ca6_P2_27836585	Ca6	27836585	CAATAATAATAATAATAATAATAATA ATAAT/CAATAATAATAATAATAATA ATAATAATAATAAT	ACGTGGAATAAACACC CCAT	AACCAACGATGAGTGC AAGA	59.3	874	INTERGENIC	--	--	--
Ca6_P2_27918148	Ca6	27918148	CA/CAAA	GAGGACCAGGTGCTTG AGAG	AGGCATTTCAACATTT TGC	59.9	605	INTERGENIC	--	--	--
Ca6_P2_27929163	Ca6	27929163	TG/TGGTGTCGG	GGACAAACAAATGAG GGGA	GCAGAACACTGGATTT GGGT	60.0	198	INTERGENIC	--	--	--
Ca6_P2_27966534	Ca6	27966534	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CAAGGGAAGGATGGTG AAAA	GCAAGAAGTTTCGGAT CAGC	60.0	919	INTRON	Ca_14568	G	--
Ca6_P2_27992698	Ca6	27992698	TAAAAAAAAAAAA/TAAAAAAAAAAAA A	TTAATCCATTTCTCAA CATAAAGA	GACCGATCGATACCCA CAAC	60.2	601	INTERGENIC	--	--	--
Ca6_P2_28009734	Ca6	28009734	AAC/AACTAC	GGCATCCCCATTAGTT TTT	GGAACCACTGCTGAAC CAAT	60.0	795	INTERGENIC	--	--	--
Ca6_P2_28065874	Ca6	28065874	ATTTTTTTTT/ATTTTTTTTT	TTGCAAGAAGCAAGGA GCTA	CCCAACACTTCAATCA GCA	59.7	456	INTERGENIC	--	--	--
Ca6_P2_28086166	Ca6	28086166	C/CTT	TGGTAACCCAGCGTATT TGC	GTGTGATGATTGTGCT TGCC	60.1	162	INTERGENIC	--	--	--
Ca6_P2_28098136	Ca6	28098136	ATTTTTTTTT/ATTTTTTTTT	TTTGGATTGTGTCAGT TAGCA	TGCGTCTTACAAATTC AATCA	58.4	318	INTERGENIC	--	--	--
Ca6_P2_28159515	Ca6	28159515	TAAAAAAAA/TAAAAAAAA	AAAAACTATGCACAAAC TGACG	ATGGCGGCTAAGAAGA CAGA	60.0	456	INTERGENIC	--	--	--
Ca6_P2_28189675	Ca6	28189675	TAAAAAA/TAAAAAA	TTCATACTTCCATTAT ATTGACTGC	TGAATTGCATAGGGTT AGGG	59.0	553	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_28190654	Ca6	28190654	A/AG	AGGTCTCATACCAGAG ATGCG	TGTGGTTGAGTAAATG TGCCA	60.0	580	INTERGENIC	--	--	--
Ca6_P2_28190835	Ca6	28190835	ATATTATTATTATT/ATATTATTATTA TTATTATT	AGGTCTCATACCAGAG ATGCG	AAGTTAAGGGACCGCA AATG	59.1	871	INTERGENIC	--	--	--
Ca6_P2_28193559	Ca6	28193559	AGGG/AGG	AAGGACTAAGTCGGGA AGAAAAA	GATGGTTTTTGTCCATT GAATTT	59.1	131	INTERGENIC	--	--	--
Ca6_P2_28243483	Ca6	28243483	CATATATATATATATATA/CATATATA TATATATATATA	TTCATATTAATGGGCGT GAAA	TTTTTGATGGGGCAAC ATTT	60.2	406	INTERGENIC	--	--	--
Ca6_P2_28301391	Ca6	28301391	CA/C	ATAAACCGGTGACCATT GGA	TGAACACGTCAACAC GACA	59.8	551	INTERGENIC	--	--	--
Ca6_P2_28326755	Ca6	28326755	AT/ATT	TTTGGGCTTGAAGATGA AAA	TTTAAAGCAAGGGTG GTGG	60.0	336	DRR	Ca_25968	A	--
Ca6_P2_28326813	Ca6	28326813	GCACCACCACCACCACC/GCACCA CCACCACCACCACCACC	GGAAATTAATCACCTC CCC	AGAGATGGTCGTGGAG GAAA	59.7	126	DRR	Ca_25968	A	--
Ca6_P2_28327723	Ca6	28327723	CATATATATATATAT/CATATATATAT	CAAGAGCATCGTGCA AGGA	GTCCTGGCGTGACAAG AAAT	60.1	424	DRR	Ca_25968	A	--
Ca6_P2_28330722	Ca6	28330722	GA/GAA	ACACATACATGCTGCC GTGT	TCCACTTGCCATATC CTTC	59.9	393	INTERGENIC	--	--	--
Ca6_P2_28332319	Ca6	28332319	ATTTT/ATTTT	TTTCAAAAAGTCCCAAT CGC	GGTTTGAGAAGAAGA CGAAA	58.4	751	INTERGENIC	--	--	--
Ca6_P2_28332406	Ca6	28332406	GTTTT/GTTT	TTTCAAAAAGTCCCAAT CGC	GGTTTGAGAAGAAGA CGAAA	58.4	751	INTERGENIC	--	--	--
Ca6_P2_28332462	Ca6	28332462	ATTT/AT	TTTCAAAAAGTCCCAAT CGC	GGTTTGAGAAGAAGA CGAAA	58.4	751	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanched scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_28332579	Ca6	28332579	A/AG	GTCGGAGCTCTGCCAT AAAA	GGTTTGGAGAAGAAGA CGAAA	58.4	599	INTERGENIC	--	--	--
Ca6_P2_28332651	Ca6	28332651	C/CT	GTCGGAGCTCTGCCAT AAAA	GGTTTGGAGAAGAAGA CGAAA	58.4	599	INTERGENIC	--	--	--
Ca6_P2_28332758	Ca6	28332758	TAAA/TAAAA	TTTCGTCTTCTTCTCCA AACC	CCCAACATATTACCTGT TACCCA	59.9	502	INTERGENIC	--	--	--
Ca6_P2_28332811	Ca6	28332811	A/AG	TTTCGTCTTCTTCTCCA AACC	CCCAACATATTACCTGT TACCCA	59.9	502	INTERGENIC	--	--	--
Ca6_P2_28332973	Ca6	28332973	A/AT	TTTCGTCTTCTTCTCCA AACC	CGTGCAAAGTCGAAGC GTAT	61.3	669	INTERGENIC	--	--	--
Ca6_P2_28336699	Ca6	28336699	ATTTT/ATTT	TCTCCATTTTACCAT GCC	TTTGGCTTTGGTTGATT CCT	59.5	980	INTERGENIC	--	--	--
Ca6_P2_28354937	Ca6	28354937	GTAT/GT	TTTTATGTGACCCGCTT TGC	AGAACGGCATCCAGAG AAGA	60.0	600	INTERGENIC	--	--	--
Ca6_P2_28354964	Ca6	28354964	TCAAACGGAGCAACCAATGGAGCAAC CAAACGGAGCAA/TCAAACGGAGCAAC CAAACGGAGCAACCAATGGAGCAACC AAACGGAGCAA	TTTTATGTGACCCGCTT TGC	AGAACGGCATCCAGAG AAGA	60.0	600	INTERGENIC	--	--	--
Ca6_P2_28355795	Ca6	28355795	GTTTTTTTTTTT/GTTTTTTTTTTTTT	CCCTTCAGCACCAAAAA CAT	GCTTCCAGTCCAGACC AAAC	59.7	334	INTERGENIC	--	--	--
Ca6_P2_28388573	Ca6	28388573	CA/CAACTTTA	GTTGGCAACGATTTTGT CCT	GGAGAACGTTAAGGCA GCAG	60.0	640	INTERGENIC	--	--	--
Ca6_P2_28435236	Ca6	28435236	AACACA/AACACACA	ACCACTCAGAAAGGAT GGAA	GCACCATAGGTCGTCA GGTT	60.0	729	DRR	Ca_25963	--	--
Ca6_P2_28443338	Ca6	28443338	AAAAAAAAATA/AA	AGACCGACTTGGATGG TCAG	TGATCATTTTCCCTTT TGG	59.7	548	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_28443583	Ca6	28443583	CTCTTTTGTGTGA/CTCTTTTGTGTGA TATCTTTTGTGTGA	AAAAACACCAAAAGCCC CTC	CATAAAATGCCATTGAT CCCT	58.8	499	INTERGENIC	--	--	--
Ca6_P2_28443832	Ca6	28443832	TA/TAA	AAAAACACCAAAAGCCC CTC	GAAGCATAAAAGGGT GCCA	60.1	783	INTERGENIC	--	--	--
Ca6_P2_28444744	Ca6	28444744	GATAATAATAATAATAA/GATAATAA TAATAATAATAATAATAA	TCCCAACAGCCTAAC ACC	CAAACGCAATCTGAAC AAAA	57.4	509	INTERGENIC	--	--	--
Ca6_P2_28475273	Ca6	28475273	AT/A	CCAAGGGTTCAATATGT CTGG	TGGTTGGGTTTGGTT TGTT	60.1	673	INTERGENIC	--	--	--
Ca6_P2_28503404	Ca6	28503404	CAAAA/CAAAAA	TAGTGGGGTTGTCACG AACA	TTTTTAACTAATTGATC ACCGCT	57.2	663	DRR	Ca_25962	E	--
Ca6_P2_28503466	Ca6	28503466	ATAAT/ATAATTAAT	TTTGTGCCTCCATTTC TTC	TTTTTAACTAATTGATC ACCGCT	57.2	497	DRR	Ca_25961	--	--
Ca6_P2_28512979	Ca6	28512979	TTCTTCAACTCTTCAACTCTTC/TTCTTC AACTCTTC	CCCACACCTTCTTACCA GGA	TGGAGAAGTGTGGCAA ATGA	60.2	214	INTERGENIC	--	--	--
Ca6_P2_28513162	Ca6	28513162	TA/TCTTCAACTTTCCTACCA	CCCACACCTTCTTACCA GGA	GGGACCCAAATTGTCG ATAG	59.2	492	INTERGENIC	--	--	--
Ca6_P2_28513941	Ca6	28513941	ANNNNNNNNN/ANNNNN	TGAAGAAAATTTAAAGG GACGAA	GTGTTGCATCTCATTG GTGG	60.0	569	INTERGENIC	--	--	--
Ca6_P2_28515482	Ca6	28515482	GAAAAAA/GAAAAAAA	GGCATAGGTGAGATGA CCGT	GCTCCTATCAAACCAT TTGC	58.7	507	INTERGENIC	--	--	--
Ca6_P2_28520924	Ca6	28520924	CAA/CAATTAAA	TTAGAAACAGGGACCC CTCC	TTGTCTGTGAACCGAA GCTG	60.0	577	INTERGENIC	--	--	--
Ca6_P2_28521027	Ca6	28521027	A/ACATAG	TCTCATTCTTGCCTTGC CTT	TTGTCTGTGAACCGAA GCTG	60.0	172	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_28521076	Ca6	28521076	AACTAT/A	TCTCATTCTTGCCTTGC CTT	TTGTCTGTGAACCGAA GCTG	60.0	172	INTERGENIC	--	--	--
Ca6_P2_28537234	Ca6	28537234	ATT/AT	ATTCTCTCAAAGCCCTCA CCT	TTCCACTTCCTTTTCCA CCA	60.5	436	INTERGENIC	--	--	--
Ca6_P2_28577470	Ca6	28577470	GATATATATATATATAT/GATATATAT ATATATATATAT	GGTGTGGAGTCATGT CTTTGA	ATTGAACCTAACCCGTG CGTC	60.0	235	DRR	Ca_17491	O	Trihelix
Ca6_P2_2857806	Ca6	2857806	AATATATATATATATATATAT/AATA TATATATATATATAT	GCCACATGTAAACATTAA CTCACC	GCATGTACCACTACCA CCCC	60.1	308	INTERGENIC	--	--	--
Ca6_P2_28598658	Ca6	28598658	GGAGAGAGAGAGAGAGAGAGAGAGAG AGAGAGAG/GGAGAGAGAGAGAGAGAG GAGAGAGAGAGAGAGAGAGAG	TGCTAACCTTGGGGAA TTTG	CTCCACTCCAACCTGT CACC	60.6	508	INTERGENIC	--	--	--
Ca6_P2_28610431	Ca6	28610431	CT/C	AGGATTTGGTTCAAGG GTCC	TGCTCTGACTCTTGGC AGTG	60.0	643	DRR	Ca_17488	K	--
Ca6_P2_28832556	Ca6	28832556	AAAATAAAATAAATAAATAAATAAAT AAATA/AAAATAAATAAATAAATAAATA ATA	GCTTTCTGTATCAAGT GGCAA	TGCAATTGTGGTTTCT GTCTG	59.7	648	INTERGENIC	--	--	--
Ca6_P2_28878487	Ca6	28878487	T/TCA	CTCCGTTTCTGCACAT CAA	TGATGTTGCCTCTGTTT TGC	59.8	396	INTERGENIC	--	--	--
Ca6_P2_28943503	Ca6	28943503	TATAAATA/TATA	CAATTAATTTGTTGAT TTGTTTCA	TCTTTTCTTTGGAAAG ACGAAT	58.5	365	INTERGENIC	--	--	--
Ca6_P2_29104469	Ca6	29104469	CTTT/CTT	ATGACATGCCACATGC CTTA	TCGATTTTGGTCGATT TCC	59.9	343	INTERGENIC	--	--	--
Ca6_P2_29134646	Ca6	29134646	GATATATATATATAT/GATATATATAT ATATATAT	CATGTTGAGTTCACGGT TGG	CGGAAATGAGATGCA ACCT	60.1	380	DRR	Ca_17462	GMW	NAC
Ca6_P2_29148934	Ca6	29148934	GTTATTATTATTATTATTATTATT/AT TATTATTATTATTATTATTATTATT	TTGTGTCGTGTTGCTGT TCA	TCGTGTTTCAAAATTCA AGGA	58.3	871	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_29174756	Ca6	29174756	AATATATATATATA/AATATATATATATA	ACCAGCTCCTTTTGTG ACC	CAGCCCCAATACTCC TACA	59.9	595	INTERGENIC	--	--	--
Ca6_P2_29231459	Ca6	29231459	AAAGTCTCAAGTCTCAAGTCTCAA/AA GTCTCAAGTCTCAAGTCTCAAGTCTCA A	ACTCCACACACCTCAA AGG	TTTCAAGTCTAGTCGA GTTTCATCA	59.5	834	INTERGENIC	--	--	--
Ca6_P2_29244002	Ca6	29244002	ATTTTT/ATTTTTT	TGGCCATTATCCCTCAT TTG	ATTTGTCTCCTTCACC CCC	60.2	603	INTERGENIC	--	--	--
Ca6_P2_29294132	Ca6	29294132	CAATATTAATATTAATAATATTAATA/ CAATATTAATATTAATAATAATAATA TTAATA	ATGATGATGTGGCATC GAGA	TGGGACCATGTAGTCG GTTT	60.2	433	INTERGENIC	--	--	--
Ca6_P2_29295721	Ca6	29295721	CATTATTATTATTATTATTAT/CATTA TTATTATTATTATTATTAT	GCCACGATTAGGCTCA TTCA	CGTACGGAAGTAGCCC TTTG	59.8	528	INTERGENIC	--	--	--
Ca6_P2_29298692	Ca6	29298692	CAATAATAATAATAATAATAATAATA ATAATAATAATAATAATA/CAATAAT AATAATAATAATAATAATAATAATA TAATAATAATAATAATA	TAGGGTCAGTTTCGAG GACG	ATGTTGTTTCAACCCG AGC	60.0	384	INTERGENIC	--	--	--
Ca6_P2_29313205	Ca6	29313205	AATATATATATATATATATATAT/AA TATATATATATATATATATAT	CAGGAAATGGAAAGCG TGAT	AATGCTCAAATGCGGA GAAT	59.7	604	INTERGENIC	--	--	--
Ca6_P2_29313256	Ca6	29313256	AATATATATATATATA/AATATATATAT ATATA	CAGGAAATGGAAAGCG TGAT	CCAAGAGAGGTGCAAC CAAT	60.1	859	INTERGENIC	--	--	--
Ca6_P2_29323656	Ca6	29323656	CATATATATATATATATATA/CATATA TATATATATATATATATA	GCATGAGCAAAACAA GCAA	TGATTCACCCTTCTTC TTTC	58.2	603	INTERGENIC	--	--	--
Ca6_P2_29374587	Ca6	29374587	ATTTTTTT/ATTTTTT	AAAATGGCGAGAGCTT GAAA	TTGCCCATGTTTGGTC AGTA	60.0	830	INTRON	Ca_17447	U	C2H2
Ca6_P2_2960468	Ca6	2960468	CATATATATATATATAT/CATATATAT ATATATATATAT	AAGAAAGGGTATTGG TGGC	CACAAATTTGACAATA ACTTTGACA	59.4	698	INTRON	Ca_10438	T	bHLH
Ca6_P2_29640665	Ca6	29640665	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	CACACATCGCGAGTAAT GATG	AACTTCTCGAGGACGC AAAA	60.0	541	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_30186365	Ca6	30186365	TATTGATTGA/TATTGA	CGTTGTCAACCTCAA TTC	ATCCCGCGACTCAAA TTC	60.0	811	INTERGENIC	--	--	--
Ca6_P2_30259008	Ca6	30259008	ATGCGT/ATGCGTGCCT	AGAGGTATGAAGCGT TTGG	TTCTCAACGGTGAAAC GTCA	60.3	431	INTRON	Ca_16442	--	Trihelix
Ca6_P2_30275444	Ca6	30275444	GAAAAAAAA/GAAAAAAAA	GCCACAATTAACCACCA ACA	TCAATCACATGAGACG GATGA	60.1	170	INTERGENIC	--	--	--
Ca6_P2_30280210	Ca6	30280210	CAAAAAAAAA/CAAAAAAAAA	ACCACCAATGAAGATC CTG	AATCAGCATCGAAATT GCC	60.0	601	INTRON	Ca_16443	--	--
Ca6_P2_30356953	Ca6	30356953	ATATTATTATTATTATTATTATT ATTATTATTAT/ATATTATTATTATTATTA TTATTATTATTATTATTATTATTAT	TGACCTCTCATTACCA AGCA	GCGAAATTTCCGGTAA ACAA	59.9	807	INTERGENIC	--	--	--
Ca6_P2_30424805	Ca6	30424805	TTA/T	CAATGAAATCGCATTTA GTATGAA	TTACCTCCACTATGAC GGGG	59.8	389	INTERGENIC	--	--	--
Ca6_P2_30580681	Ca6	30580681	GAGAAGAAGAAGAAGAAGAAG /GAGAAGAAGAAGAAGAAGAAG	GACCTCGAAATTGAGAA GCG	GCATCGTCATCTTTGCT TCA	60.0	109	CDS (large-effect mutations)	Ca_16460	--	--
Ca6_P2_30588095	Ca6	30588095	CTAATAA/CTAATAATAA	GGCTATCGCTTATGCA GGAC	TCACGCAGTTGGTGGT CTTA	60.3	812	DRR	Ca_16461	--	SAP
Ca6_P2_30588229	Ca6	30588229	AATCGC/A	GGACGTCTACAACATT GGGG	CCACATGAGTGTGTG AGGG	60.0	948	DRR	Ca_16461	--	SAP
Ca6_P2_30594886	Ca6	30594886	AATATATATATATATATAT/AAATATATATA TATATAT	CAAGTCTGCATCCCA ATTT	AGGTAGCATAAGCAAG CGGA	60.0	665	INTERGENIC	--	--	--
Ca6_P2_30620273	Ca6	30620273	ATTTTTTTTT/ATTTTTTTTT	CGTGCATGTCTATGTC CTTTT	TGCGGAGAAAAACACA AGAG	59.0	158	INTERGENIC	--	--	--
Ca6_P2_30724309	Ca6	30724309	AAATATATATATATATATATAT/AAATATA TATATATATATATATATAT	CCGTTGGGAGTTTGA AGTA	TGCGTATGCTTCAACG TCAT	60.3	587	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_31631825	Ca6	31631825	TAAA/TAA	TCAGGGTTTCATACTCG CAA	CGTCGCCGTTTATCG TTAC	60.5	727	INTERGENIC	--	--	--
Ca6_P2_31632123	Ca6	31632123	A/ATATT	TTCACACCTTACGTTGC TAAAA	TCCGCTTCTCTAACCTT TGC	59.6	294	DRR	Ca_15189	R	SBP
Ca6_P2_3170767	Ca6	3170767	AT/ATT	AAGTAGCATGCTTGGC TCAAA	CACCTTCCATTGCCATT CTT	59.9	129	INTERGENIC	--	--	--
Ca6_P2_31721783	Ca6	31721783	GATATATATATATATATATATAT/G ATATATATATATATATATATATAT	AATTGCAAATGGAAAGC AGC	TAATTCGCATCATCAA GCA	60.2	467	INTERGENIC	--	--	--
Ca6_P2_31727074	Ca6	31727074	CTATATATATATATATATATATA/CTAT ATATATATATATATATATATA	CGGGTACGCATGTTATT GTG	TCGCTTTTCAGGACAAT GCT	60.9	515	INTERGENIC	--	--	--
Ca6_P2_31735760	Ca6	31735760	AATATATATATATATATA/AATATATAT ATATATATATATA	TGCGTGCAATATCACTA ACCA	AAAGGACAGATGGTGG ATGG	59.8	611	INTERGENIC	--	--	--
Ca6_P2_3176026	Ca6	3176026	AGG/AGGG	GCAATGGAAGGTGAAA ATGG	GCATAGGAGCGTGGAA ATTG	60.6	522	INTERGENIC	--	--	--
Ca6_P2_3176139	Ca6	3176139	A/AAATG	TGGCAATGGAAGGTGA AAAT	TTTAACCCTTTCAACC GCA	60.5	769	INTERGENIC	--	--	--
Ca6_P2_31769480	Ca6	31769480	A/AT	CGGGAGATACGTAGGA GCAA	TCGATTATGCGTAGGG AAGG	60.1	250	DRR	Ca_15194	--	--
Ca6_P2_31831572	Ca6	31831572	AATAT/AAT	TGGATCCTTTTACCC ACA	ACAAGACCGAAAAATG TCCG	60.0	675	INTERGENIC	--	--	--
Ca6_P2_31855739	Ca6	31855739	CATATATATATATATATATATATAT AT/CATATATATATATATATATATAT	TTGCAATCATGAAGG AGATT	TTCATCAAGCAAATTTG ACACA	59.2	286	INTERGENIC	--	--	--
Ca6_P2_31944698	Ca6	31944698	TAAAAA/TAAAAAA	GATCATCGAGTTTCCC GTGT	ACCATGCAAAGACATC CACA	60.0	549	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_3256677	Ca6	3256677	TAATAAATAAATAAATAA	TTGCAAGATGCTATGCA GAAA	TCACTTGAAAACCAAT GGC	58.6	484	INTERGENIC	--	--	--
Ca6_P2_32617100	Ca6	32617100	AAA/AAATAA	GAACGGTCCATGCAAA AGTT	CCCCGATCCTTATAC GACT	60.2	554	INTERGENIC	--	--	--
Ca6_P2_32630124	Ca6	32630124	TAAA/TAAAA	TTTGAGGGAGGGAATT AGGG	TAGTGATTGGAAGGA CGGC	60.1	583	INTERGENIC	--	--	--
Ca6_P2_32650586	Ca6	32650586	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	GGTGCAACATCTGATTC CAA	GAAGAAGTGGCTGAA GCTG	60.1	697	INTERGENIC	--	--	--
Ca6_P2_32667858	Ca6	32667858	GAACAAC/GAAC	TTAGTCAACAAGAATCG GGC	AGTGGCCTAGAATGG AGGT	60.0	551	INTERGENIC	--	--	--
Ca6_P2_32689323	Ca6	32689323	TAAGCAATGAA/TA	TATCCGCAAAATTGAAC GGT	TGGGCAGAGGATCATG TAGTT	59.6	873	INTERGENIC	--	--	--
Ca6_P2_32759448	Ca6	32759448	AATATATATATATATATATAT/AAATA TATATATATATATATATAT	AATTTTGAAGTGGCGT GAC	TCGACCTTCATTTTCATA CATTTTT	59.0	701	INTERGENIC	--	--	--
Ca6_P2_32839696	Ca6	32839696	TTATATATATATATATATATATATATA TATATATATATA/TTATATATATATATATA TATATATATATATATATATA	CCATATTAACCGTGCA CACA	CAAACGCTGTTCCACA AGAA	59.9	863	INTERGENIC	--	--	--
Ca6_P2_32859081	Ca6	32859081	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATATAT ATATATATAT	CTAATGAAGGACATTG GCCC	GTTAGAATCGGCCGTC TTTG	59.7	818	INTERGENIC	--	--	--
Ca6_P2_32932244	Ca6	32932244	TTATATATATATATATATATATATATA TA/TTATATATATATATATATATATATA TATATATATA	GCAATGGCGATTTCCT TTA	GTAATGTTGGGCTTCG GAGA	60.1	713	DRR	Ca_22231	--	ARF
Ca6_P2_32971894	Ca6	32971894	CTTTTTTTTT/CTTTTTTTTT	TTAACCTACCAATTCGA ATACCA	TTAATGCATCTTGATGG TGG	57.0	257	INTERGENIC	--	--	--
Ca6_P2_32974504	Ca6	32974504	AAT/AATGAT	TCGAGATGTGTTGGG TGAA	TTTTACGATGGACAAC CGTG	59.4	940	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_3300996	Ca6	3300996	TACGA/TA	TGCAATTGATTCGGTT GTA	GAAGAGTGCTAGCAAT ACACGC	59.2	408	DRR	Ca_25243	J	--
Ca6_P2_33039782	Ca6	33039782	AA/AATTCCA	CCCGCCTGACACTTTAT CAT	ACGGGGTGTTACATTG TGGT	60.0	460	INTERGENIC	--	--	--
Ca6_P2_33094621	Ca6	33094621	ATTT/ATT	TCAAAATGTAGCGGGTT TCC	AAGCCTTCCTCAAAATC CAA	58.8	398	INTERGENIC	--	--	--
Ca6_P2_33094845	Ca6	33094845	CAAAAA/CAAAAAA	TCAAAATGTAGCGGGTT TCC	AAGTTGGACAAAATTG GGGT	58.3	950	INTERGENIC	--	--	--
Ca6_P2_33113807	Ca6	33113807	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATT/TTTATTATTAT TATTATTATTATTATTATTATTATTATTA TTATTATTATTATT	AGAGGCAAAACAAGAAC CGAA	TTGTGGCATTTTCCACT TCA	60.1	433	INTERGENIC	--	--	--
Ca6_P2_33207263	Ca6	33207263	AATATATATATATATATATATATATAT ATATATATATATAT/AATATATATATATAT ATATATATATATATATATATATATATATA TATATAT	ACCCTTACCTTGACCG CTTT	CCTTCTCATCTCCCAT TCA	60.0	713	INTERGENIC	--	--	--
Ca6_P2_33229235	Ca6	33229235	CTT/CTTT	GCTTTTATCCAAATTA TGCGC	AAATTTTAGACCGCGA CACG	60.1	758	INTERGENIC	--	--	--
Ca6_P2_33229272	Ca6	33229272	GAAAA/GAAA	TGTTGACGGTGTGTTTT TAAGG	AAATTTTAGACCGCGA CACG	60.1	477	INTERGENIC	--	--	--
Ca6_P2_33229296	Ca6	33229296	TG/TGG	CGGTGTGTTTTTAAGGA TTGG	AAATTTTAGACCGCGA CACG	60.1	471	INTERGENIC	--	--	--
Ca6_P2_33229369	Ca6	33229369	ATTTTTTTTTTTTT/AATGTTTTTTTTTT TTTT	CGGTGTGTTTTTAAGGA TTGG	AAATTTTAGACCGCGA CACG	60.1	471	INTERGENIC	--	--	--
Ca6_P2_33229523	Ca6	33229523	AAAAACGAAAA/AAAAA	CGGTGTGTTTTTAAGGA TTGG	GCGGATATCGTAGGGT GCTA	60.1	644	INTERGENIC	--	--	--
Ca6_P2_33229803	Ca6	33229803	TAAAAAAA/TAAAAA	AAGCAAGCCAAAAACG AAAA	GCGGATATCGTAGGGT GCTA	60.1	382	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_33229848	Ca6	33229848	G/GA	AAGCAAGCCAAAAACG AAAA	GCGGATATCGTAGGGT GCTA	60.1	382	INTERGENIC	--	--	--
Ca6_P2_33231576	Ca6	33231576	AT/ATT	TGGTGTATTGGGTGCT GATG	GACCCATCGATTTGAA GCAT	59.9	975	INTERGENIC	--	--	--
Ca6_P2_33233620	Ca6	33233620	G/GAA	CCGCCCACTAAAAAGTT GAA	AATCGCCATAACTTGAA ATGC	59.1	935	INTERGENIC	--	--	--
Ca6_P2_33240261	Ca6	33240261	A/AAAGAG	GTTTGGTATTGGGCTC CCTT	CACAATTCTCCCTCTC CAA	60.0	314	INTERGENIC	--	--	--
Ca6_P2_33240380	Ca6	33240380	A/AG	GTTTGGTATTGGGCTC CCTT	CGAAACTCACCCCTTG TTGT	60.0	750	INTERGENIC	--	--	--
Ca6_P2_33240742	Ca6	33240742	AA/AATATA	TTGGAGAGGGAGGAAT TGTG	CGAAACTCACCCCTTG TTGT	60.0	456	INTERGENIC	--	--	--
Ca6_P2_33256778	Ca6	33256778	ATATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTAT TTATTA	TGGCTATTATGGCACG ACA	TAATGTGGAACCCCTC TCAA	60.2	596	INTERGENIC	--	--	--
Ca6_P2_33283474	Ca6	33283474	AAACA/AAACAACA	CGTTGAAGGAATCGATT GAA	CCAATCCTTAAAAACAC ACCG	59.4	745	INTERGENIC	--	--	--
Ca6_P2_33293827	Ca6	33293827	TGGG/TGGGG	CCAAGGCTATGAGACC TATCTGA	TGAAAACCCCTTTGAAG GTGC	60.1	510	INTERGENIC	--	--	--
Ca6_P2_3330798	Ca6	3330798	AATTATTATTATTATTATTATTAT TTATTATT/AATTATTATTATTATTAT TATTATTATTATT	TCAATTGATTTTCGGTA TCCTTC	GACCTCCCAAAGGCAT TTTT	60.3	406	INTERGENIC	--	--	--
Ca6_P2_33328977	Ca6	33328977	T/TCGTTGATTAGCAATA	TTGATCTTGTGCATTG TCC	TATGCACCTATTACGG GGGA	60.2	146	INTERGENIC	--	--	--
Ca6_P2_33337104	Ca6	33337104	ATTT/ATT	CCAATTTTGTATCCCT CCA	TTAGGCTCCTGCTTCAT GCT	60.1	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_33340808	Ca6	33340808	GTTTTTTT/GTTTTTTT	TTCAATGTCATACACAG GCCA	ATGATAACGCATGAAT GGCA	59.9	841	INTERGENIC	--	--	--
Ca6_P2_3346076	Ca6	3346076	TATATAT/TATATATATACATATAT	ATAAATCACGGCCCAAC AAC	CCATTGCACATTTGGTT TTC	58.9	611	INTERGENIC	--	--	--
Ca6_P2_3348063	Ca6	3348063	CTTA/CTTATTATATTA	TTGCATCTCAGCTTTAC CCA	CATGGTATCCATGGGA GCTT	59.8	516	INTERGENIC	--	--	--
Ca6_P2_3348544	Ca6	3348544	CTATATATATATATATATATATA/CTAT ATATATATATATATATATATATATATA TA	CAATATTCCTCAAGCTC CCA	TGTATTCCTCACTCCCA CCC	59.8	633	INTERGENIC	--	--	--
Ca6_P2_33488777	Ca6	33488777	GATATATATATATATATAT/GATATAT ATATATATATATATAT	TTACCCAACCCCAATTT TCA	AAGTTTTGGGAAAGGG GAAA	59.8	641	INTERGENIC	--	--	--
Ca6_P2_3351662	Ca6	3351662	GATATAT/GATATATATAT	CGAAAAATGAAAAACACC ACC	TCGAGTTGCGTAACTG ACATAG	58.1	687	INTERGENIC	--	--	--
Ca6_P2_3351745	Ca6	3351745	CATATTATATATA/CATA	GGTTGATTTAGGCTTCA CGG	TCGAGTTGCGTAACTG ACATAG	58.1	580	INTERGENIC	--	--	--
Ca6_P2_3352912	Ca6	3352912	AATTA/AA	AAAGTGGGTGGCAATT AACG	TTATCCAATTCGGTTGC ACA	59.9	247	INTERGENIC	--	--	--
Ca6_P2_33539008	Ca6	33539008	AAAAATAAAATAAAATAAAATAAAATAAA ATAAAATAAAATAAAATAAAATA/AAAAA TAAAAATAAAATAAAATAAAATAAAATAAA ATAAAATAAAATA	GTGGGAACGTTAAGCC AAAA	GGAGTCAAGTTTCGAG GACG	59.8	424	INTERGENIC	--	--	--
Ca6_P2_3355103	Ca6	3355103	GCTATTGATCAATCTATTGAT/GCTATT GAT	TGAATAGATGTGCGCG AGAC	TCCACGGGAGTGAGAG AGAT	59.8	401	INTERGENIC	--	--	--
Ca6_P2_3355875	Ca6	3355875	CTTT/CTTTT	AATTTGGCCCTATTGGC TTT	AGAAACGGAATGAGTC ACGG	60.1	709	INTERGENIC	--	--	--
Ca6_P2_33616774	Ca6	33616774	TT/TTAT	GGGGAGGGGTCAAGGT AGTA	GGGAAACACTTTGAGG TGGA	59.9	134	CDS (FRAME SHIFT)	Ca_22068	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_34775621	Ca6	34775621	T/TCAATTCAC	AAATGAACCTGTCACGG GCT	TCCCAACATTAGCTGAT CCC	59.9	702	INTRON	Ca_15807	R	--
Ca6_P2_34794248	Ca6	34794248	ACTCTCTCTCTCTCTCTCTCTC/ACT CTCTCTCTCTCTCTCTC	GAAACAAGGATGTGGT GCCT	GAGGTGGAGAATGATT GGTCA	59.9	505	DRR	Ca_15805	G	--
Ca6_P2_34831881	Ca6	34831881	AATATATATATATATATATATATAT A/AATATATATATATATATATATATAT TATATATATATATATA	GAGGAACCAAGAACC AATTTT	TCACCTTATGCAATTCAC GTTCC	60.0	353	INTERGENIC	--	--	--
Ca6_P2_34859064	Ca6	34859064	GATATATATATATATATATATATA/GA TATATATATATATATATATATATA	GAAAGAGTTTTGAGCC ACGG	AAGTCCAATCTCGGTC AAACTT	59.1	625	INTERGENIC	--	--	--
Ca6_P2_34907371	Ca6	34907371	AATATATATATATATATATATATAT ATATATATATATATA/AATATATATATA TATATATATATATATATATATATAT ATATATATATA	TGAGATTGAATTCCTG GGG	AGGAGGATGAAGTTTT GGCA	59.7	386	INTERGENIC	--	--	--
Ca6_P2_34936983	Ca6	34936983	AATATATATATATATATA/AATATATAT ATATATATA	TCATCTTGCACTTGGCT TTG	TCGCGTCGAAAAC TAG ATCA	59.6	708	INTERGENIC	--	--	--
Ca6_P2_34994354	Ca6	34994354	CATATATATATATATA/CATATATATA TATATA	TGTGATGAATGCACTAA CCGA	ATGGTATGGATGGCCA ATGT	59.9	939	INTERGENIC	--	--	--
Ca6_P2_3501717	Ca6	3501717	TAATTGAATTGAATT/TAATTGAATT	CACCAAAAAAGGGCAT AAAA	GTTGCTTTGAGAAAC GAGG	59.9	960	INTRON	Ca_05959	E	CPP
Ca6_P2_35093227	Ca6	35093227	GAGTGTGACTTTTTCA/GAGTGTGAC TTTTTCATAGTGTTGACTTTTTCA	AACCGCTATTGGGCTA GGTT	CTCTGATATGCGTGGC AAGA	60.0	646	INTERGENIC	--	--	--
Ca6_P2_35161798	Ca6	35161798	TATAAA/TATATATAAAATAAA	AGGAAGAGTGAGGTTG CGAA	CGGTTGAGAACCAAGG ATGT	60.0	649	INTERGENIC	--	--	--
Ca6_P2_3517420	Ca6	3517420	TTATATATATATATA/TTATATATATAT ATA	CGCATGCTTTTGCTTTA TCA	CCGCCACCAAAAACCT AGTA	60.0	607	INTERGENIC	--	--	--
Ca6_P2_3519049	Ca6	3519049	GTTTTTTTTTTT/GTTTTTTTTTTT	AAGACTGCCCTGACCA GAGA	GTGGGGGACTAAGCTA AGGG	60.0	334	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_3520685	Ca6	3520685	CTATATATATATAT/CTATATATATAT	GTTTCGCGATTTCGT T	CACGCATTGACTCGA AAAC	59.3	249	INTERGENIC	--	--	--
Ca6_P2_35300618	Ca6	35300618	G/GAAA	CTTTGATTTGGGGAGA CCA	GTAGTGGGGAATGGG GAGT	60.1	326	INTERGENIC	--	--	--
Ca6_P2_3532300	Ca6	3532300	TAAAAAAAAA/TAAAAAAAAA	CAGTTCTCTTGCATGG CTG	ACCAAAAGAGGGAGCC AACT	60.1	973	DRR	Ca_05957	F	--
Ca6_P2_35353896	Ca6	35353896	A/ATAAT	GAAGCCGAAGCAAATC GTAG	TCGAAATTTAGTCCAC GGC	60.1	718	INTERGENIC	--	--	--
Ca6_P2_35399356	Ca6	35399356	GTTT/GAATTT	TTGAAGCTCAGATGGC ACAC	CTCCCCCTTTTGGCAT AAT	60.1	718	INTERGENIC	--	--	--
Ca6_P2_35528115	Ca6	35528115	AACA/AACACA	AAGACCCATCTCCAGC ACAC	CACCCATCGGATAATG CTTC	60.3	783	INTERGENIC	--	--	--
Ca6_P2_35616799	Ca6	35616799	C/CCTT	GTTTCTGAGGCAAATC CCA	TGCATTGTCTTCCCAT TGA	60.0	537	INTERGENIC	--	--	--
Ca6_P2_356286	Ca6	356286	TTATATATATATATATATATATATATA/ TTATATATATATATATATATATATATA	TTTGGTACCCCAATTGG TAA	CGATCCTTCGACTCAT CTCA	58.9	628	INTRON	Ca_13261	O	--
Ca6_P2_35678654	Ca6	35678654	TAAAAAA/TAAAAAA	TTTTTCATGAGGATCCG AAA	AACATAAGCCGTGCG CATT	59.8	633	INTERGENIC	--	--	--
Ca6_P2_35719325	Ca6	35719325	AATAGAATACTTTATTAT/AATAGAATAC TTTATTATAGAATACTTTATTAT	TGCATCGTTTTTCATCT TTCA	GCGGCTAATTTCAACC AAAT	59.1	630	INTRON	Ca_15773	--	--
Ca6_P2_35801189	Ca6	35801189	AAATAATAATAATAATAATAA/AAAT AATAATAATAATAATAA	CTTCATAAGCCGCAAT GTT	TTGAACAATAAAATTA ATCGCAA	59.1	548	INTERGENIC	--	--	--
Ca6_P2_35802672	Ca6	35802672	TTTCT/TT	GAGCCTTAGAGTTGGG AGCA	ACCAACTTGTGGAAC CAAC	59.9	778	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_35805652	Ca6	35805652	CAA/CA	AATGACATGTTTCCGC CTC	TAAACTGTGTCATTGG GCG	59.6	679	INTERGENIC	--	--	--
Ca6_P2_35805694	Ca6	35805694	CTTTAATTTTTTTA/CTTTAATTTTTTT AATTTTTTTTA	AATGACATGTTTCCGC CTC	TAAACTGTGTCATTGG GCG	59.6	679	INTERGENIC	--	--	--
Ca6_P2_35810337	Ca6	35810337	C/CT	TCATCGATTGCAACTTG CTT	CCCTAAAATTTGTGG GCTT	58.1	672	INTERGENIC	--	--	--
Ca6_P2_35832132	Ca6	35832132	CT/CTT	TGCGCTTCTTCGAAAT AAGTC	AAAAGATTGGTTGGATT AAAAAGA	57.5	147	INTERGENIC	--	--	--
Ca6_P2_35889448	Ca6	35889448	GTCTCTCTC/GTCTC	TTTCCTTCTTCCAACAT GGG	GAAACGCGTGTCTGAT TTGA	59.8	460	INTERGENIC	--	--	--
Ca6_P2_3589483	Ca6	3589483	CG/CGG	CTAATCAGCCACCCTTC TCG	GGATGAAGATCCTCGG TTGA	60.0	334	INTERGENIC	--	--	--
Ca6_P2_3589752	Ca6	3589752	AC/ACC	ATGCAACAGCAATGAG CATC	TTTAGTCAAGCTCCGC CACT	60.0	524	INTERGENIC	--	--	--
Ca6_P2_35923980	Ca6	35923980	CCT/CCTCT	CACTCTTCAATCCCCA AAA	AGCCATAGTTGGTCTG TGGG	60.0	241	INTERGENIC	--	--	--
Ca6_P2_36029920	Ca6	36029920	CTTT/CTTTT	TTTGAACCAAAAACTT CTTCAA	GGAGAAAAAGAATTA ATCCTCTAAA	58.2	520	INTERGENIC	--	--	--
Ca6_P2_36033340	Ca6	36033340	GA/GATATA	TTGACTTGGTCAAAGCT GACA	TTGTGCAGAAAAGTTG AGGTTT	58.9	608	INTERGENIC	--	--	--
Ca6_P2_36039668	Ca6	36039668	CATAA/C	CAAGTCGTCGCTTCCA AAGT	AATTGCGGCAGAGAA GATA	59.9	394	INTERGENIC	--	--	--
Ca6_P2_36150824	Ca6	36150824	ATT/ATTATTT	TTGCAAAGTTTGAACC GAA	AAGCCTCCTAAATGACT CATGC	59.8	398	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_36722414	Ca6	36722414	ACCC/ACC	CTTAGGTTTGCACTCAG CCC	TCGCGGATCTGCTCTT AAAT	59.9	685	INTERGENIC	--	--	--
Ca6_P2_36722630	Ca6	36722630	TA/TAA	TTGCTCCTACGTATCCC CAG	TCGCGGATCTGCTCTT AAAT	59.9	295	INTERGENIC	--	--	--
Ca6_P2_3672594	Ca6	3672594	GAA/G	CAGTGACGACGAGAAC GGTA	TACAGCCCCAATCTGT TTCC	59.9	351	INTERGENIC	--	--	--
Ca6_P2_36880735	Ca6	36880735	AATATATATATATATATAT/AATATATATA TATATAT	GGGCCAAGCCCATATT TTAT	TTGTTTGCAAATACTCC CCT	57.2	177	INTERGENIC	--	--	--
Ca6_P2_36898169	Ca6	36898169	AATATATATATAT/AATATATATATATAT	AAGAGAGGTCACTTTG GCGA	CAATTCCCACAGGTAC GCTT	60.0	692	INTERGENIC	--	--	--
Ca6_P2_36951265	Ca6	36951265	TTTATTATTATTATTATTATTATTATT ATTATTAT/TTTATTATTATTATTATTATT ATTATTATTATTATTATTAT	TGGGCAGAAATTGATAAA TCG	CTCCCTCTCATCTGTTC AAAAA	58.4	578	INTERGENIC	--	--	--
Ca6_P2_36985739	Ca6	36985739	TTATATATAT/TTATATAT	TCAGCCTGCTTCCTGAT TTT	AAGAGAGGTCACTTTG GCGA	60.0	566	INTERGENIC	--	--	--
Ca6_P2_37221969	Ca6	37221969	CTAAT/CTAATCTAAT	AACCCATTTGAGGTGA CTGC	CCGATCTTCCAATCGTT GAT	59.9	420	INTERGENIC	--	--	--
Ca6_P2_37317651	Ca6	37317651	CCTTACACTCTTCTTACACTCT/CCCTTA CACTCTT	TCACCCAACATGTGTTA CGTTT	GACTATTTCCAACGGC CAAA	59.9	546	INTERGENIC	--	--	--
Ca6_P2_3742066	Ca6	3742066	ATATTATTATTATTATTATTATTATT ATTATTA/ATATTATTATTATTATTATT TATTATTATTATTATTA	TGAAAGTTTAGCGGA ATCA	AATTGTGGCACGCTTT TTC	60.1	609	INTERGENIC	--	--	--
Ca6_P2_37440594	Ca6	37440594	T/TATTA	CCCCAAGAAATGTAAAC AGAGC	TGGGTTACGTTCACTC CTAACA	59.5	889	INTERGENIC	--	--	--
Ca6_P2_37471862	Ca6	37471862	TA/TAA	CAACAGGCCACATTTGT TTG	GAGGTAGAGTTGGCGT GAGC	60.0	894	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_37566353	Ca6	37566353	AA/AACA	GCAAGTGAAGCACCTT CTCC	TTTTGTGAGTCTGCCG AGTG	60.0	502	INTERGENIC	--	--	--
Ca6_P2_3756968	Ca6	3756968	TAAAAAAAA/TAAAAAAAAA	TCCGTTACCACTCACAC CAA	ACCCCTCAAATCTGTT GTGC	60.0	640	INTRON	Ca_05928	--	bZIP
Ca6_P2_37602341	Ca6	37602341	ATATCAATT/ATATCAATTTATCAATT	TTGAAGTTGCAATGCCA AAC	CACATTCGTTGTCCCA ACAC	59.9	735	INTERGENIC	--	--	--
Ca6_P2_37640608	Ca6	37640608	CAAAATTTAAAAATTTAAAAATTTAAAA/ CAAAATTTAAAAATTTAAAAATTTAAAA TTTAAAA	TTTGCGCTAGTGTGAC TTGC	CTCGTGAGGGGAAGCA TAAG	59.8	308	INTERGENIC	--	--	--
Ca6_P2_37660034	Ca6	37660034	AATATATATATATATA/AATATATATATAT ATATA	TCGGTCGTAGACAGGT TGTG	CGGAGAGCATGTTCAA CAGA	60.0	711	INTERGENIC	--	--	--
Ca6_P2_37714381	Ca6	37714381	CATATATATATATATATA/CATATATATA TATATATATA	TCGATCTCACCAGCAAC AAC	TGGTGCATGACCAAA ATGG	60.2	352	INTERGENIC	--	--	--
Ca6_P2_37724144	Ca6	37724144	AGGGG/AGGG	GAGCAACAAAACACGA CGAA	TATGCGACGCTTGATC GTTA	60.4	463	INTERGENIC	--	--	--
Ca6_P2_37788611	Ca6	37788611	GTATATATATATATATAT/ATATATAT ATATATATAT	AATGGAGGAAGGAGGG AGAA	TTTGGATTTGACTCG GAGG	60.0	435	INTERGENIC	--	--	--
Ca6_P2_3780129	Ca6	3780129	CTTTTTT/CTTTTTTTT	GCGTTGTCAAAATTACA AATTCA	TTATTTGAATCCCCCA AACA	59.2	693	INTERGENIC	--	--	--
Ca6_P2_37836711	Ca6	37836711	TGG/TG	TTCAACGACAGCTTGA TGC	CCTTGTGAGGATTGCC ATTT	59.9	665	INTRON	Ca_19543	--	--
Ca6_P2_37849692	Ca6	37849692	CAAAA/CAAAA	TCGAAACCCATGACGTT GTA	GAATCCTGGGCTGAAA TCAA	60.0	547	INTERGENIC	--	--	--
Ca6_P2_37890277	Ca6	37890277	AATATATATATATAT/AATATATATATATA TAT	TCACGGCGAATATGAAA TGA	TGCTATGCGTTTGGAT CTTG	59.8	652	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_37902107	Ca6	37902107	TT/TTGATAT	GTTTGTGACAGGCCGA ATAA	ATGGTGGTTCGGTCAC ATTT	60.1	462	INTERGENIC	--	--	--
Ca6_P2_37945655	Ca6	37945655	ATAGTAGTAGTAGTAG/ATAGTAGT AGTAGTAGTAGTAG	GAGCATGTGGTGAAGC AGAA	GAAGGACTCGTTCCT CTCC	60.2	437	INTERGENIC	--	--	--
Ca6_P2_37974732	Ca6	37974732	TCTACTACTACTACTACTA/TCTACT ACTACTACTACTACTA	TGTTGCTCCTTCTTTG CCT	GAGCATGTGGTGAAGC AGAA	60.0	149	INTRON	Ca_19550	A	--
Ca6_P2_37981858	Ca6	37981858	TAAA/TAA	TGCAATGACCTTGAAT TCG	CTTTAGCCTTCATCGC CAG	60.0	817	INTERGENIC	--	--	--
Ca6_P2_37982172	Ca6	37982172	AATGAT/AAT	GGTACACTTTCCCATCA GCAA	CTTTAGCCTTCATCGC CAG	60.0	468	INTERGENIC	--	--	--
Ca6_P2_38146938	Ca6	38146938	CATATATATATATATATATATATAT ATATTTATATATAT/CATATATATAT ATATATATATATATATATTTATA TATATAT	GTTGGTCCCTAGCAC CGTA	TGTTGAGGGTAGAGG ATGG	59.9	824	INTERGENIC	--	--	--
Ca6_P2_38191400	Ca6	38191400	GATATATATATATATATATATATAT AT/GATATATATATATATATATATAT ATATAT	TCCTTCAGAGAAACATG AGATGA	AGTTCATCCGTTACCC GTACA	59.4	531	INTERGENIC	--	--	--
Ca6_P2_38201434	Ca6	38201434	GTTTTTTT/GTTTTTTT	GGTTCGTAATGGATGG GATG	AAGGCCTTTACAACG CTCA	59.9	609	INTERGENIC	--	--	--
Ca6_P2_38205786	Ca6	38205786	GAA/GA	TTGCAATCTCATCAACT CGG	GTAAGGAGGCGCTT TCGC	60.0	824	INTERGENIC	--	--	--
Ca6_P2_38317090	Ca6	38317090	ACC/ACCAAAATGCC	CAATCACAACCTTTGCC CTT	GTGGGAAGTCGCCATT TAGA	60.1	531	INTERGENIC	--	--	--
Ca6_P2_38677967	Ca6	38677967	TACACACACACACACACACATAT ACACACACACACACACACACACA CA	AACACCCCAAAACGACA CTC	TCGAAGAGAAGTTGC CACT	60.0	948	INTERGENIC	--	--	--
Ca6_P2_38695029	Ca6	38695029	ATTTTTT/ATTTTTTT	CCATTACAACCCGAAG TCC	TCCTAGAACATGCATCA CGC	59.8	103	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_38737253	Ca6	38737253	AAGA/AAGAGAGA	CGCTCCAAGAGTCAAT GTCA	TTTCACCTCCTCGTGA GCTT	60.0	350	INTERGENIC	--	--	--
Ca6_P2_38822653	Ca6	38822653	T/TCGTTTACATTGTTCA	TGAGAAAGGGGAAAGG GAAT	TGAGGTTGTTGCTTTG ACCA	60.3	737	INTERGENIC	--	--	--
Ca6_P2_38870940	Ca6	38870940	G/GA	GGAGGGTTTTGTTTG GAAT	TACGAAGTGGTAGGAT CGCC	60.1	763	INTERGENIC	--	--	--
Ca6_P2_38908988	Ca6	38908988	AT/A	CGGTGTCTCCATGAAT GTTG	CCATCTCTTCTTTTGC TCG	59.9	359	INTERGENIC	--	--	--
Ca6_P2_38935124	Ca6	38935124	GG/GGGGATTTTGAGTCGTG	TGCCATGTGATCTGTTG GTT	TCAATTCGAAAAGGTT CCG	60.0	438	INTERGENIC	--	--	--
Ca6_P2_39044349	Ca6	39044349	AATATATATATATATATATAT/AA TATATATATATATATATATAT	ATATTGGCTCGGAGGC TTTT	GTTGGTCCCTAGCAC CGTA	60.0	631	INTERGENIC	--	--	--
Ca6_P2_39156212	Ca6	39156212	CAA/CA	GCTTCAGTTTTTCTAAT GTATGCG	GAGAAACATGCGTCAA CAAAAA	60.2	398	INTERGENIC	--	--	--
Ca6_P2_39182715	Ca6	39182715	GAAAAAAAA/GAAAAAAAAA	TGGACGAAGTCAATGG TCAA	TCAATGGAATTTTTCGA GTCAA	59.6	843	DRR	Ca_15911	P	ERF
Ca6_P2_3920180	Ca6	3920180	GTTGGAATCTTTT/GTTGGAATCTTT TGGAAATCTTTT	TGGCATCCAACAATTGT CAT	TTGTGCAACCAATCACT TGAA	60.1	899	DRR	Ca_05908	R	--
Ca6_P2_3939757	Ca6	3939757	CATATATATATATATATATAT/CATAT ATATATATATATATATATAT	CTTGCAATTCCTTGGAC CAT	TGCATATGCGATCTCTT GAAA	59.4	504	INTERGENIC	--	--	--
Ca6_P2_39552188	Ca6	39552188	TAAAAAAAA/TAAAAAAAAA	CATGGGTAATTCTGCCA TTT	CACACGTGATAACCAA CAGGA	59.5	345	INTERGENIC	--	--	--
Ca6_P2_39582151	Ca6	39582151	TAA/T	TTTTGGCCTTCACTCAG CTT	CTTCCTTTTCGTCATGC ACA	59.8	278	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_39636664	Ca6	39636664	AT/ATTATTATT	AACGGAATGGAGTGAT GCTC	GCCTTAATCGGTTCTGA GTTTC	60.1	766	INTERGENIC	--	--	--
Ca6_P2_39659866	Ca6	39659866	TAA/TA	TCAGATCATGTGAGGT CATGC	TCATGTTCTCCAGCT GCTA	59.5	316	INTERGENIC	--	--	--
Ca6_P2_39781733	Ca6	39781733	CATATATATATATATATATATATATA/ CATATATATATATATATATATATATAT A	TCTCCGCATAAGCTTTC GAT	TGCTTCGACACAGTAG CACC	60.1	478	DRR	Ca_15927	--	--
Ca6_P2_39817644	Ca6	39817644	CATTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT/CATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTAT	ACCTTCAACCACTGGG TCAC	TGCATTGCTTTCTCTTG AGC	59.0	576	DRR	Ca_15928	--	ERF
Ca6_P2_39851903	Ca6	39851903	ATTAGGGTTTAGGGTTTAGGGTTTAGG GTTTAGGGTTTAGGGTTTA/ATTAGGGT TTAGGGTTTAGGGTTTAGGGTTTAGGG TTTA	TGGACTCAACAACTT CCCTT	TTGTGACAAGCCCAA CTTCT	59.8	335	INTERGENIC	--	--	--
Ca6_P2_39963428	Ca6	39963428	CATATATATATATATATATATAT/CATAT ATATATATATATATAT	AGGACGAATGGGGTCT TTCT	TATTTTGGGTATTGGCT CGG	59.8	450	INTERGENIC	--	--	--
Ca6_P2_39977783	Ca6	39977783	ATTTTT/ATTTTTTT	AGCGGTGTCCCTAG TAGC	CACGATAATGTCAAAG GCGA	59.7	558	INTERGENIC	--	--	--
Ca6_P2_40031841	Ca6	40031841	T/TA	TGAGAACTTTTCCGCT GCT	CTATTAGCGTTGGCTC TCGG	60.0	411	INTERGENIC	--	--	--
Ca6_P2_40048766	Ca6	40048766	A/AGTGCT	GCGAGACAGAGTGAGA GGCT	GGCATGAATTTGTCT GCCT	60.1	890	DRR	Ca_15938	R	MYB_related
Ca6_P2_40189592	Ca6	40189592	TA/TAA	TAATTCTGGCCTGAGG ATGG	GATCAGATCTGGCAGC AACA	60.0	390	INTERGENIC	--	--	--
Ca6_P2_40198642	Ca6	40198642	ATTATTTATTTATTTATTTATTTATTTAT TATTTATTT/ATTATTTATTTATTTATTTA TTTATTTATTTATTTATTTATTT	TCCCTCACTCATTTTAC ACG	CCAAGGAGGAGCATAA TGGA	60.0	638	INTRON	Ca_15946	--	--
Ca6_P2_40205079	Ca6	40205079	CAA/CA	TACTGGGGTGTCTGGT GTGA	TCAGACAAAGCTGCAA CCAC	60.0	266	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_41874600	Ca6	41874600	AAGA/AA	TGTAGTTACGTTTCTT TTTGAATTT	CATTTAAGATTTCGG CATTT	59.1	347	INTERGENIC	--	--	--
Ca6_P2_41875891	Ca6	41875891	ATTTT/ATTTT	GGATCTATGATTCCCT CTTGC	AGTCCCATGTAATTG CACG	59.7	568	INTERGENIC	--	--	--
Ca6_P2_41957220	Ca6	41957220	CTATATATATAT/CTATATATAT	TCCCAACTTTGAATT TGC	TGCTTCAGTCAATGG ACAG	59.8	877	DRR	Ca_21949	O	--
Ca6_P2_41958224	Ca6	41958224	TAAAAAA/TAAAAAAA	CTACTCAGCCACGCAC AGAA	TTTCCAGTTTGATGAAC CACA	59.0	780	INTRON	Ca_21950	--	--
Ca6_P2_42034622	Ca6	42034622	A/AC	TTGATCCTTGCAGTCAC TCG	GCGATCTTCTGGGTG AGAG	60.0	196	INTERGENIC	--	--	--
Ca6_P2_42109031	Ca6	42109031	AT/ATTT	CGTATTGTTCCGATGTT GTCC	AGATGTAATCGATTGT CGGA	57.2	264	INTERGENIC	--	--	--
Ca6_P2_42217597	Ca6	42217597	GTTT/GTT	TACTGCATTGTCCGCA CTC	ATTGTCTTGTCTCCAT TGC	60.1	589	INTERGENIC	--	--	--
Ca6_P2_42229485	Ca6	42229485	TTATATATATATATATATAT/TTATATA TATATATATATATATATAT	TGTCGCTTCTAAGTTG GCT	AATTGCGGCAGAGAA GATA	59.9	263	INTERGENIC	--	--	--
Ca6_P2_42237435	Ca6	42237435	TAA/TA	CCTCACACTTCTCCGTC CAT	ATTTGCCACACAGGA ACTC	60.0	605	INTERGENIC	--	--	--
Ca6_P2_42269920	Ca6	42269920	AC/A	CCAAGAAATTAGAATTC GACATCA	TTTCACGTGGGACAAC AAAA	60.0	570	INTERGENIC	--	--	--
Ca6_P2_42309198	Ca6	42309198	AATATATATATATATATA/AATATATAT ATATATATATATA	AGGAAGCCCAAGTTCC AAAT	CCAAGAGAGGTGCAAC CAAT	60.1	569	INTERGENIC	--	--	--
Ca6_P2_42313647	Ca6	42313647	ATT/ATATTTT	AATTGAGGTTTCAGCGT GCTT	AGGAAGCCCAAGTTCC AAAT	59.9	482	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_42313833	Ca6	42313833	TTTTTTAAAGAAAAACACTTTTAAAGA AAA/TTTTTTAAAGAAAA	ATTTGGAACCTGGGCTT CCT	TGACCAAAATTTACCGA CGA	59.0	255	INTERGENIC	--	--	--
Ca6_P2_42360168	Ca6	42360168	T/TAAA	AGAACAGAGGGAACGC AGAA	CAGCGCTTATTGGGA AAAG	59.8	625	INTERGENIC	--	--	--
Ca6_P2_42361939	Ca6	42361939	CATATA/CATATATATA	TTGGTTTATTGGGTG GGA	TATTTGGGGTTATCGA GCG	59.9	838	INTERGENIC	--	--	--
Ca6_P2_42386598	Ca6	42386598	AAAAATAA/AAAAATAAATA	GGGCGAAATGGAGAA AGTT	TTTCGTGGCTAATTTTC GTT	57.5	836	INTERGENIC	--	--	--
Ca6_P2_42398678	Ca6	42398678	ATTTTTTT/ATTTTTT	GGTTTGGGAGAGAAAA AGGAA	TGGTTAAACTCATTGG TCCC	58.8	900	INTERGENIC	--	--	--
Ca6_P2_42418850	Ca6	42418850	ATATTATTATTATTATT/ATATTATTA TTATTATT	CCGACGTCTCTCATTCT CAA	AACGACAACTTTCAACC CATTT	59.8	686	INTERGENIC	--	--	--
Ca6_P2_42444699	Ca6	42444699	ATTTT/ATTT	CAAATAACACAACATGC GCC	AGAAAGGCTCAGACGA CCAA	60.0	673	INTERGENIC	--	--	--
Ca6_P2_42464969	Ca6	42464969	AA/AGA	GGTGAGTTTTCCACAA GCGT	GCTTCAATGAAATTTGG CGT	60.1	982	INTERGENIC	--	--	--
Ca6_P2_42467087	Ca6	42467087	TTATATATATATAT/TTATATATATATATA T	TCAAACCTGATTGGG GGTA	TCGACACTCATTGGTC CTCA	60.2	771	INTERGENIC	--	--	--
Ca6_P2_42480988	Ca6	42480988	ATAGTA/ATA	TTTGACGTGCATCAAT GTT	CTGTTCCGAAAACCT GAGAA	59.3	934	INTERGENIC	--	--	--
Ca6_P2_42532875	Ca6	42532875	GT/GTCT	ATTTGAGGCTCGTGGT CTTG	CATCATCTACCCCAAC CATC	60.0	373	INTERGENIC	--	--	--
Ca6_P2_42628458	Ca6	42628458	ATT/ATTT	AAACCAACTTGGAGGT GACG	TGGTTTTACGCCAAC ATTA	60.0	564	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_43102626	Ca6	43102626	ATTTTTTTTT/ATTTTTTT	TTGTGGAATTTGGGCTT TTC	TCGCTTCATCAACCACT TCA	60.4	676	INTERGENIC	--	--	--
Ca6_P2_43116900	Ca6	43116900	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATA TATATATA	GTTTGGGGTTACTCAT GGGA	ATCCCAAACATTGGCA AAA	60.2	195	INTERGENIC	--	--	--
Ca6_P2_43138332	Ca6	43138332	GAAAA/GAAA	GTTCCCTTTGGAATGCT TGA	TCTTTGGCCAGTGAA AATC	60.1	741	INTERGENIC	--	--	--
Ca6_P2_43144384	Ca6	43144384	TTTCTTCTTCTTCTTCTTCTTCT/TT TCTTCTTCTTCTTCTTCTTCTTCTT CT	TCATGTGGACTAAATGG GCA	ACAGCTCAAGCGAAAC CCTA	60.0	399	INTERGENIC	--	--	--
Ca6_P2_43144709	Ca6	43144709	TTTATTATTATTATTATTATTATTATT ATTATTATTATAATTATAATTATTATT TATTATTATTATTATTATTATTATT TT/TTTATTATTATTATTATTATTATT ATTATTATTATTATAAATTATAATTAT AATAATTATTATTATTATTATTATT	TAGGGTTTCGCTTGAG CTGT	TCCGGATCCTTCAGAT TCAC	60.0	656	INTERGENIC	--	--	--
Ca6_P2_43176155	Ca6	43176155	A/GAGATTTAATGATG	TGACATTGCCATCAAA GGA	AGCCCATCAATCGAAA ACTG	60.1	638	INTERGENIC	--	--	--
Ca6_P2_4363547	Ca6	4363547	AT/ATAGGT	TTGCCTCTTCATTCTTT TGC	TAAAAACCGTTTCGGT TCAG	60.0	338	INTERGENIC	--	--	--
Ca6_P2_43701668	Ca6	43701668	AAATAAATAAATAAATAAATAAATAA AATAAATAAATAAATAAATAAATAA TAA	GGTTGCTCGGGTACT GTTA	TCTTTTGACAATTGTTG TTTCCA	59.5	557	INTERGENIC	--	--	--
Ca6_P2_43901335	Ca6	43901335	GCCC/GCCCCC	GACCTTTTGAGGGTTC CCAT	ATTGACAACCTTCCAC TGC	60.0	260	INTERGENIC	--	--	--
Ca6_P2_43909185	Ca6	43909185	TTGAAG/TTGAAGCAAGTACAACTCATG AAG	TGATTGGGTTTGGGTT CATT	ACATAGATGCCGCCTT CATT	59.6	445	INTERGENIC	--	--	--
Ca6_P2_44072205	Ca6	44072205	TTATATATATATATATATATATATAT TATATATATATATATATATATATAT	GACATTTCGAACTTGAA TTTCCT	TTTGGAATTGCGACTTC CTT	59.7	363	INTERGENIC	--	--	--
Ca6_P2_44164703	Ca6	44164703	TGAG/TGAGAG	GCTTGTCTTCAGTCCAA GGC	AGCTGCAAGTGCAGAG CATA	59.9	226	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_44238414	Ca6	44238414	CA/CACTTTA	CTCACCACCAATCAC CTG	GCAAGTTGTTCTGTCA GCCA	60.0	579	INTERGENIC	--	--	--
Ca6_P2_44266489	Ca6	44266489	AATATATATATATATATATATATAT A/AATATATATATATATATATATATATA	CCGCATTATAATTCCG TGT	GTGCCGAGAAAATGTG GATT	59.9	819	INTERGENIC	--	--	--
Ca6_P2_44301191	Ca6	44301191	CTTTTT/CTTTTTT	TGCACATTTTACAGCG TTC	TGAAATTATGGGTGG CATT	60.0	254	INTERGENIC	--	--	--
Ca6_P2_44303540	Ca6	44303540	G/GTCA	CCGTTTGGATTGTGAG GACT	CTGGGCAAGGGATCTG AATA	60.0	685	INTERGENIC	--	--	--
Ca6_P2_4432554	Ca6	4432554	ATTTTTTTTTT/ATTTTTTTTTT	TTTCCTTTGCCAGAGAG ACG	AAGTGTCTTTGGGGAC GTTG	60.0	424	INTERGENIC	--	--	--
Ca6_P2_44340740	Ca6	44340740	CAAA/CAA	CCCATAATTGTGTTACG CCC	GGGTACCCCTTTTCCT CCCT	60.5	290	INTERGENIC	--	--	--
Ca6_P2_44386840	Ca6	44386840	GAT/G	ACCCCACTGCCTTTTCT CTT	GCGTCCAGAGGAAGAA TCAG	60.0	577	INTERGENIC	--	--	--
Ca6_P2_44418513	Ca6	44418513	CCTCTCTCTCTCTCTCT/CCTCTCTC TCTCTCTCTCTCT	ATAGGTGGCCATTGTTC CAA	TGTGGAGTGAAAGCAT GAGG	59.8	543	INTRON	Ca_24238	--	MYB_related
Ca6_P2_44492655	Ca6	44492655	GTATATATATATATATATATATATAT/ GTATATATATATATATATATATATAT	CGAAGCCCCCTTATATC CAT	CCAGTAACGAAGTTG GACG	60.7	535	INTERGENIC	--	--	--
Ca6_P2_44613043	Ca6	44613043	AAATAATAATAATAATAATAATA/AA ATAATAATAATAATAATAATAATA	TGTCCGGTAGCCTGAA AATC	GAGCTGGTCTTGCTCT TGCT	59.9	899	INTRON	Ca_24242	TZ	--
Ca6_P2_44655055	Ca6	44655055	CTTT/CTTTT	ATCAATGGATTGTGGG CATT	TGCACATCATTGAAAA GGA	58.5	286	INTERGENIC	--	--	--
Ca6_P2_4488440	Ca6	4488440	GTTTTTTTT/GTTTTTTTT	CCTATGGGTTGGGAGG GTAT	CAGTCTAGCAGGGTCA AGCC	60.0	571	DRR	Ca_05853	YU	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_45478455	Ca6	45478455	TAAGAAG/TAAG	TTGGCAGGTATTAGGC ATCC	TTGCATTTGTCATCAAC GAAA	60.1	462	DRR	Ca_13840	T	WRKY
Ca6_P2_45484176	Ca6	45484176	GTTTTTTTTT/GTTTTTTTTT	CACCAAAATTGTACCA CTTGC	GAGGCAACGACTCAA CCTC	59.9	864	INTERGENIC	--	--	--
Ca6_P2_45643028	Ca6	45643028	AT/ATACCTT	TCCCAACCCAAATAAAC CAA	ACCAGGAAAAGAAGAA GGGC	59.7	831	INTERGENIC	--	--	--
Ca6_P2_45646770	Ca6	45646770	AATATATATATATATA/AATATATAT ATATATATA	ATTGGCAGACATCCATT TCC	TCACAAGCGCTGTAAA ATGC	60.0	577	INTERGENIC	--	--	--
Ca6_P2_45674016	Ca6	45674016	GTTTTTTTTT/GTTTTTTTTT	GGCTGAGATTATGCGT GGTT	TTGTATTGTGCAACTCA GGGA	59.2	779	INTERGENIC	--	--	--
Ca6_P2_45767330	Ca6	45767330	ATATATATATTTATATAT/ATATATATA T	CCTGTCTTCTATGTG GCT	TGTTATGGAATGGTGA TTTTAGACA	59.7	856	INTERGENIC	--	--	--
Ca6_P2_45834735	Ca6	45834735	GGATAATGATAATGATAATGATAATGAT AATGATAATGATAATGATAATGATAA/G GATAATGATAATGATAATGATAATGATA ATGATAATGATAATGATAA	GCCCCGTGTCCTTAT AAAT	GAAGGATGGGTGCTG AGAG	59.8	366	INTRON	Ca_13861	Q	--
Ca6_P2_45871069	Ca6	45871069	TTATATATATATATAT/TTATATATATA TATATATAT	ACCAATGCGTAATCAAT CCC	TGACGACTAACATGCA AATTCA	59.2	783	INTERGENIC	--	--	--
Ca6_P2_45900188	Ca6	45900188	TTATATATATATATATATATATATA/ TTATATATATATATATATATATATATA TATATA	TCCCCATTTGAAACTTG GAC	TTATCAGTCGCCATTG GAA	59.1	230	INTERGENIC	--	--	--
Ca6_P2_45922563	Ca6	45922563	GTTTTTTTTT/GTTTTTTTTT	GTGGCCACTCACCAA AGAT	TGAACAAAACCAACAA CCA	59.8	564	INTERGENIC	--	--	--
Ca6_P2_45948426	Ca6	45948426	A/ACAGCTTTTAG	GAGGCTGAATTGTGTG AGCA	AACAACATTCGTGTGA CGGA	60.0	388	INTRON	Ca_13867	--	--
Ca6_P2_46031146	Ca6	46031146	GAAAAAAAA/GAAAAAAAAA	GGAAATGGATGTCTGC CAAT	AGCCTCGTAGGTTCTGA CTGA	60.0	551	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_46057555	Ca6	46057555	ATATTATTATTATTATTATTATT ATTATTATTA/ATATTATTATTATTAT TATTATTATTATTATTATTA	GAGGTGCGTTGAACAA AGGT	TGGTTCGATTTTGTTC AGTT	59.5	491	INTERGENIC	--	--	--
Ca6_P2_46074418	Ca6	46074418	AATATATATATATATATATAT/ATA TATATATATATATATATATAT	TTCCATATTCGACAGCC GTT	GTATGACACGTAGGG TGGG	60.1	552	INTERGENIC	--	--	--
Ca6_P2_46114957	Ca6	46114957	TAAAAAAAA/AAAAAAAA	GACCGGAATACTCAGG GACA	CGATGAATGGAGTGCA TTTG	60.1	620	INTRON	Ca_13877	--	Trihelix
Ca6_P2_46128884	Ca6	46128884	AAATAATAATAATAATAATAATA ATAATAATAATAAT/AAATAATAA ATAATAATAATAATAATAATAAT AATAATAAT	ATGCCAGCTTGACAA TGTT	TGGAGATGCGACCGTC TACT	60.8	741	INTERGENIC	--	--	--
Ca6_P2_46142433	Ca6	46142433	CAAAAAAAAA/CAAAAAAAAA	CTCGGGTCTCTTGACC ATGT	ATACGGGAGGGTGATT CCTT	59.7	262	INTERGENIC	--	--	--
Ca6_P2_4621073	Ca6	4621073	ATTTTTTTTT/ATTTTTTTTT	CCAACGCTACAACCTT CAT	GGAGGAAACAAATTGA TCCAAA	60.2	761	INTERGENIC	--	--	--
Ca6_P2_46305635	Ca6	46305635	CTTTTTTTTT/CTTTTTTTTT	AATGAAGGGAAGGGCA TTTT	TGGTCGTTTTTCGTTG TTG	59.6	399	INTERGENIC	--	--	--
Ca6_P2_46313014	Ca6	46313014	CTTTT/CTTT	ATTCCGGTAAAATCTCC GCT	TATTTTGGATTTTGCT CGG	59.9	447	INTERGENIC	--	--	--
Ca6_P2_46385972	Ca6	46385972	ATTTTTTTTT/ATTTTTTT	GCACCATGTGCGTCA CATA	ATCATTCCTCCACTCCC TCT	59.8	541	INTERGENIC	--	--	--
Ca6_P2_46391549	Ca6	46391549	ATTTTTTT/ATTTTTTTTT	GAACATGAAAGGGTC ACCG	GGAGGAATCTTTTGT GCCA	60.1	564	INTERGENIC	--	--	--
Ca6_P2_4639247	Ca6	4639247	AATTATTATTATTATTATTATTATTA TTATTATCATTATTATTATTATTAT/A ATTATTATTATTATTATTATTATTAT TATCATTATTATTATTATTAT	TCGTTCTTCAGGAAGT CGT	TTTCATTTCTTTTCAA GTTATCAA	59.1	673	DRR	Ca_05833	T	--
Ca6_P2_46399842	Ca6	46399842	T/TCA	TAACCTTGCATGGGGA AAAG	TTCATGGTGTTTTCTTG GCA	60.1	619	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_46897007	Ca6	46897007	TAAA/TAAA	GACAATGCATTAGTGA CCG	GGCTTCACTTGAGTGG CAA	60.0	375	INTERGENIC	--	--	--
Ca6_P2_46908984	Ca6	46908984	CAAA/CAACATTAAA	GAGCCTCCTCCATTCT GTG	TGTGGTGGAACACAA TGCT	60.0	165	INTERGENIC	--	--	--
Ca6_P2_4699610	Ca6	4699610	CG/CGG	TTCTCTTCAAAGCGTGA GCA	TTCTTGTCCTCATCTCC ATC	59.9	304	INTERGENIC	--	--	--
Ca6_P2_4699846	Ca6	4699846	CT/CTT	TTCTCTTCAAAGCGTGA GCA	TCAATTGTCAACAAAAC AAGGC	60.0	379	INTERGENIC	--	--	--
Ca6_P2_47001052	Ca6	47001052	A/AG	GAAGCGGTACTTCCCA TTGA	GGTTACAATGTGGGA CGAG	60.2	417	INTERGENIC	--	--	--
Ca6_P2_47001945	Ca6	47001945	TC/TATTCC	CCAATCCGAAGACGAT CATT	CGGATTAATTACCGAT GCGT	59.8	193	INTERGENIC	--	--	--
Ca6_P2_47002003	Ca6	47002003	TCCACCCAC/TCCAC	CCAATCCGAAGACGAT CATT	CGGATTAATTACCGAT GCGT	59.8	147	INTERGENIC	--	--	--
Ca6_P2_47011341	Ca6	47011341	TTATATATATATATATATATAT/TTATA TATATATATATATATATATAT	GAAGAGTTGTGTCGG ATGC	ATGCCATGCTCTCCTTT CAG	60.4	593	INTERGENIC	--	--	--
Ca6_P2_47040606	Ca6	47040606	TTTATTATTATTATTATTATTATTATT ATTATTATTATTAT/TTTATTATTATTATT ATTATTATTATTATTATTATTAT	TATCATCACCTCACCC CAT	TCCAGTCAATGTGCAA AAACA	60.1	550	INTERGENIC	--	--	--
Ca6_P2_47115373	Ca6	47115373	TGTAGNNNNNNNNNNNGTAG/TGT AG	CCAAAGCAACACCCAAA GAT	CGCGAAGACATCAAAA ACCT	60.2	772	INTRON	Ca_17722	P	--
Ca6_P2_47149113	Ca6	47149113	TAAA/TAAAAA	AAACGGGAACCTCAGA ATGA	TTTCCACCCAGAAAGC AATC	60.1	617	INTERGENIC	--	--	--
Ca6_P2_47214114	Ca6	47214114	GTAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/GTAAT AATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAA	GGGGTGTGAAATCAGA ATGG	TGTTACATACCGTTG CGTT	60.0	582	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_4725174	Ca6	4725174	TAAAAAAAAA/TAAAAAAAAA	TTGCTTGCTTATGTTGC CTG	TGTGTAAGTTTCCGCG TTTG	59.8	346	INTERGENIC	--	--	--
Ca6_P2_472874	Ca6	472874	AT/A	TTTTCTTCTCCCTTTG CAC	AGCAAGAAACAAACGA CGCT	60.1	719	DRR	Ca_13267	--	G2-like
Ca6_P2_4731176	Ca6	4731176	ATTTTTTTTT/ATTTTTTTTT	GACACGTGCAACCAC TAGC	AAGCAACGATGATAAAA TACGACA	59.9	611	INTERGENIC	--	--	--
Ca6_P2_47312521	Ca6	47312521	GTT/GTTT	TATCTGTGGTCGTGTG GGAA	TCACGGGTCAACACGA TTTA	60.0	822	INTERGENIC	--	--	--
Ca6_P2_47316172	Ca6	47316172	TTTTATTATTATTATTATTATTAT TTATT/TTTTATTATTATTATTATT TATTATTATTATTATTATT	ATCGATTCCGAACCTCA AAA	CCAGAAGGCTACCACT ACGC	59.9	519	INTERGENIC	--	--	--
Ca6_P2_47356970	Ca6	47356970	TAAAAAAAAA/TAAAAAAAAA	TTTGCACGTTTGTTCG TTA	TCTGTTGTCGTACACG GGTC	59.6	381	INTERGENIC	--	--	--
Ca6_P2_47393714	Ca6	47393714	AAATATCAATA/AAATATCAATATCAATA	TTATCTGCCGCTACCCA AAG	TCTTGGAGCTTTTGGC TTGT	60.0	755	INTERGENIC	--	--	--
Ca6_P2_47598104	Ca6	47598104	CA/CATA	TTCCCAACCCAATAAT TCA	AAAACATCGGCATCTTT TCG	60.1	624	INTERGENIC	--	--	--
Ca6_P2_47690165	Ca6	47690165	A/ATATTATTAT	GACGGCAGTCCAAAG AAAG	CCAAAATTAGTTTCAG CCCA	59.1	519	INTERGENIC	--	--	--
Ca6_P2_47697947	Ca6	47697947	GTTCTGATTAATTTATTTCTG/GTTCTG ATTAAATTTTCTGATTAATTTATTT CTG	TATTTGGGGTTATCGA GCG	TTGGTTTATTGGGTTG GGA	60.0	801	INTERGENIC	--	--	--
Ca6_P2_47816277	Ca6	47816277	AATATATATATATATATATATATA/A ATATATATATATATATATATA	TGGGAATAGGCCAGAC TTTG	TTCCGAGTTGTTTGAG AGGA	58.4	748	INTERGENIC	--	--	--
Ca6_P2_47840258	Ca6	47840258	TTATATATATATATATATATATA/TTAT ATATATATATATATATA	TGGATTACTTGAGTTC AACCTCTC	GAAGGGGTTTTGTGGG TTTT	60.1	813	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_47948062	Ca6	47948062	T/TCAGAACAA	GAGAATGGCAGCCCAA AATA	TTCTTGCCTTTTGGTT TTG	60.1	335	INTERGENIC	--	--	--
Ca6_P2_48011269	Ca6	48011269	GATATATATATATAT/GATATATATATAT ATAT	TTTGTTCGCTAAATGTT GTTGA	TAGCTGTTGCGACCAA ATCA	60.4	665	INTERGENIC	--	--	--
Ca6_P2_4801698	Ca6	4801698	TGG/TGGG	ATAACCGACACAGACG AGGC	GTTGTTGCTTCTGCTC CTCC	60.0	278	INTERGENIC	--	--	--
Ca6_P2_48094343	Ca6	48094343	A/ATTT	CTTGCAACAGGATGCA AAGA	TCCTCCCTCCTTAAAG CACA	59.8	636	INTERGENIC	--	--	--
Ca6_P2_48143669	Ca6	48143669	ATTTT/AT	TAAACGGATGGAGGG ATCA	TGAACGAGGATTTTGG AAGG	60.0	586	INTERGENIC	--	--	--
Ca6_P2_4823285	Ca6	4823285	GTATATATATATATATATAT/GTATAT ATATATATATATAT	CATCTTGCAAAACAAC AAATG	TCCACTAACAAGTACTC CAAAACG	59.6	644	INTERGENIC	--	--	--
Ca6_P2_4823442	Ca6	4823442	AATATATATATATATATATATAT/AA TATATATATATATATATAT	CATCTTGCAAAACAAC AAATG	CGGTGTTCCATCCACAA CAAA	60.4	854	INTERGENIC	--	--	--
Ca6_P2_48260819	Ca6	48260819	GAAAAATTAATAAATA/GAAAAATTAATA AATAAATAAATAAATA	GTGGATGGTGGGGAAT AGTG	CTGAGGTCCCAAGCTA CGTC	59.9	504	INTERGENIC	--	--	--
Ca6_P2_48271447	Ca6	48271447	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT/ TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT	TGACTAATTGTCGCC CTTC	GGATGCGATCATGTGA AGAA	59.6	685	INTERGENIC	--	--	--
Ca6_P2_48271722	Ca6	48271722	CATATATATATATATATATATATAT/C ATATATATATATATATATATAT	TGGACCAAGCAGTGA TGAG	TGACATTTTCAGGAGG CACA	60.2	804	INTERGENIC	--	--	--
Ca6_P2_48271982	Ca6	48271982	GTATATATATATATATATATATAT/GT ATATATATATATATATATAT	GAGGATGCGACCTCCT ACTG	TGACATTTTCAGGAGG CACA	60.2	337	INTERGENIC	--	--	--
Ca6_P2_48279188	Ca6	48279188	T/TA	TCAAGAACGTTTCGACC ACA	GCAACTCGCGGGTTAG TATC	59.7	562	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_48279466	Ca6	48279466	G/GA	AACCAGATACTAACCG CGA	TCTGGAAGTTCTTGAC CGTG	60.3	620	INTERGENIC	--	--	--
Ca6_P2_48279626	Ca6	48279626	ATTTTTT/ATTTTTT	AACCAGATACTAACCG CGA	TCTGGAAGTTCTTGAC CGTG	60.3	620	INTERGENIC	--	--	--
Ca6_P2_48280097	Ca6	48280097	GAAAAAA/GAAAAAAA	GACACGGTCAAGAAAC TTCCA	TGCGTTGACTCTTCAAT ACACA	59.4	376	INTERGENIC	--	--	--
Ca6_P2_48280225	Ca6	48280225	GTAT/GT	GACACGGTCAAGAAAC TTCCA	TGTGGCACATTCCAAA TTTAT	57.9	601	INTERGENIC	--	--	--
Ca6_P2_48280286	Ca6	48280286	ATTTTTTTTTTTTTT/ATTTTTTTTTTTT	GACACGGTCAAGAAAC TTCCA	TGTGGCACATTCCAAA TTTAT	57.9	601	INTERGENIC	--	--	--
Ca6_P2_48280481	Ca6	48280481	T/TG	TGTGTATTGAAGAGTCA ACGCAT	AAAAGTTGTGCCAAG TTATGTGA	60.0	732	INTERGENIC	--	--	--
Ca6_P2_48280545	Ca6	48280545	ATT/ATTT	TGTGTATTGAAGAGTCA ACGCAT	AAAAGTTGTGCCAAG TTATGTGA	60.0	732	INTERGENIC	--	--	--
Ca6_P2_48280766	Ca6	48280766	TCTA/TCTAAACTA	TGTATTGATGAGTCGTT GAATGAT	GGAGACGTTAAAGTCC CACA	57.6	902	INTERGENIC	--	--	--
Ca6_P2_48281397	Ca6	48281397	TAAAAAAA/TGAAAAA	GGGACTTTAACGTCTC CAATACA	CTTGAGAACGATCTGC CACA	60.0	473	INTERGENIC	--	--	--
Ca6_P2_48281570	Ca6	48281570	TA/TAATTAAA	TAGGCAATTGTGCAC ATGA	CTCCAGGTAACGGTTG TGGT	59.9	335	INTERGENIC	--	--	--
Ca6_P2_48282080	Ca6	48282080	GTTAGTTGTTACAATTAGTTGTTACAAT TAGTTG/GTTAGTTGTTACAATTAGTTG	TGGCAGATCGTTCTCAA GTG	ATTACCTGCGGAATTG TTGC	60.0	875	INTERGENIC	--	--	--
Ca6_P2_48295173	Ca6	48295173	TTATATATATATATATATATATATATA/ TTATATATATATATATATATATATATA TA	TGCGCGTGTAATTTGT ATCA	TTTTGATGAAGCAATC CCC	59.9	560	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_48316872	Ca6	48316872	T/TAGCC	AGGAGGTGTCACCGT AATC	TGTTTAGGGTACAATG CCGA	59.0	164	DRR	Ca_24607	Q	--
Ca6_P2_4836563	Ca6	4836563	GATACATAAT/GATACATAATACATAAT	TGGCACGATAGTTCAC CAAA	TGGTGCAAATAAATTAT GAGTTGG	60.1	524	DRR	Ca_05811	R	--
Ca6_P2_4844245	Ca6	4844245	GTATATATATATAT/ATATATATATATATATATAT	CACGAAAGCGACAAC TGAA	AGCCGATAAAGTTCCA AGCA	59.8	414	DRR	Ca_05810	--	--
Ca6_P2_48730439	Ca6	48730439	AATATATATATATATATATAT/AAATATATATATATATAT	TTTTTCAAATTGCCGG AGT	GTCTGGACATCGAAGA AGAA	60.2	414	INTRON	Ca_20701	O	--
Ca6_P2_48788599	Ca6	48788599	CATATAT/CATATATATAT	TACAATTGATTGGCGG CATA	ATTGTGGTGGAGGTTG TGGT	60.1	738	INTERGENIC	--	--	--
Ca6_P2_48792073	Ca6	48792073	TAAATTACAAATTACAAAT/TAAATTACA AAT	TTTGACGCCACAAAAGA CTG	GAACTCTGCCTTCCAG CAAC	60.0	906	DRR	Ca_20702	--	--
Ca6_P2_48905266	Ca6	48905266	CTAAATAAATAAATAA/CTAAATAA ATAAATAAATAAATAA	CACGGTCCCTAGAGCC AATA	ATCGACTCCCGAACTC AAAA	59.7	666	INTERGENIC	--	--	--
Ca6_P2_49140036	Ca6	49140036	AA/AACA	AGAAGCATGCTGATCT CACG	CAATGCACCTGAGCTT TCAA	60.0	945	DRR	Ca_20719	--	ERF
Ca6_P2_49178234	Ca6	49178234	TTCTCTCTCTCTCTCTCTCT/TTCT CTCTCTCTCTCTCTCTCT	CATAACCCCTTTTGTG CGT	CTTTGGACGACCTTGG AAGA	60.2	280	INTERGENIC	--	--	--
Ca6_P2_49218883	Ca6	49218883	TAAAAA/TAAAAAAA	CCCCTTCATATGCTTC AGA	GTGCTTGCTTTTACTTC GCC	60.0	446	INTERGENIC	--	--	--
Ca6_P2_49280613	Ca6	49280613	GTTTTTT/GTTTTTTT	TTGTGACTGCCATTCT ACC	GGGTTGTAGCTCAAAC CGAC	59.6	392	INTERGENIC	--	--	--
Ca6_P2_49301563	Ca6	49301563	GTTTTTT/GTTTTTTT	TGCATTAGGAATGCTTG TCG	GCGTTTTTATGTTTGT GGT	60.0	797	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_49383600	Ca6	49383600	TAGAGAGAGAGAGAGAG/TAGAGAGAG AGAGAG	CAACAATTACGGCGA GGT	GATAACGACAAGGAAA TGGA	60.0	524	INTERGENIC	--	--	--
Ca6_P2_49401821	Ca6	49401821	TTATATATATATATATATATATATAT/T TATATATATATATATATATATATAT	TGCTTCAATGGTTTGA TGA	AGGCATGAGTGCATGA CAAG	59.9	530	INTERGENIC	--	--	--
Ca6_P2_49403581	Ca6	49403581	CTA/CTATA	TATGGCAGCATCTGAC GAAG	GCCAAACATGAATCTAT CCCA	59.8	574	DRR	Ca_13521	P	--
Ca6_P2_49497708	Ca6	49497708	ATATTATTATTATTATTATTATTA/ATATT ATTATTATTATTATTA	GTGCGATCAGTTGAAG GTCA	TTTTCCAATCACACGAA TCAA	59.0	525	INTERGENIC	--	--	--
Ca6_P2_49566779	Ca6	49566779	AAATAATAATAATAATAATAATAATA ATA/AAATAATAATAATAATAATAAT AATAATAATAATA	TGTTGCGATAAGATTAT GCCCA	AGCATGGGGAACAAA ACAA	60.3	270	INTERGENIC	--	--	--
Ca6_P2_49593058	Ca6	49593058	GTATATATATATATATATATAT/GTAT ATATATATATATATATAT	AGTGTGGGAAGTTATT GCGG	TACACGTGCGAGATTC GGTA	60.3	151	INTERGENIC	--	--	--
Ca6_P2_49611302	Ca6	49611302	AAG/AGCTAG	CATTGAAGGCAACCAAT GTG	CTGTAGGCCACACAAA ATGC	59.2	951	INTERGENIC	--	--	--
Ca6_P2_49685938	Ca6	49685938	CATT/CATTATTA	CGGTACCATTTGCCAG AGTT	TGTGATCGTTAGAGCG GTTG	59.9	494	INTERGENIC	--	--	--
Ca6_P2_49733827	Ca6	49733827	TCC/TC	TTGCAATCTCATCAACT CGG	GTAATAAGGCGCTT TCGC	60.0	810	INTERGENIC	--	--	--
Ca6_P2_49750276	Ca6	49750276	A/AG	CGTACTGCACCATCCA CATC	TCAAGGGTTCGTATCC TCAG	60.1	509	INTERGENIC	--	--	--
Ca6_P2_49763674	Ca6	49763674	CATATATATATA/CATATATATATATA TA	TCATTCCGAATCAACAA CCA	TCAAAAGAACCACCTTTG TTGGA	59.6	299	INTERGENIC	--	--	--
Ca6_P2_49863881	Ca6	49863881	AAATAATTTAGTAATAATTTAGTAATAAT TT/AAATAATTTAGTAATAATTT	AAGCCACGGGGAATA GTAG	TGATCGTCGGTCACCA CTAA	60.1	227	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_49866425	Ca6	49866425	CTTT/CTTTTT	AGGTCAGGCTCAGGCT TGTA	AGGGGTAGGAATAGGC CAGA	59.9	867	INTERGENIC	--	--	--
Ca6_P2_49973365	Ca6	49973365	CATATATATATATATATATAT/CATAT ATATATATATATATATAT	CGCAATCCTCAATTAC AACA	AGGGCCTTGCTACCTA CACC	60.5	807	INTRON	Ca_13482	M	--
Ca6_P2_49998830	Ca6	49998830	GTTTTTTT/GTTTTT	AAGAGAGGTCACCTTG GCGA	TTGCATTCTCCAAAAC ACA	60.1	519	INTERGENIC	--	--	--
Ca6_P2_50016279	Ca6	50016279	AATATA/AATA	GTTGAAGGGCCACAAG TGAT	AAGGTTATGTTGGCTG CAAA	60.5	435	INTERGENIC	--	--	--
Ca6_P2_50036604	Ca6	50036604	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATA TATA	CATTTACCAGATACAA ACCCA	TTTCAACTGTGTCCCC TTG	58.6	409	INTERGENIC	--	--	--
Ca6_P2_50049167	Ca6	50049167	AAG/A	TCACCCAACTCGGGTT AGTC	AGCAAACCTCAGCTCT CTCCA	59.4	333	INTERGENIC	--	--	--
Ca6_P2_50157074	Ca6	50157074	TTCTCTCTCTCTCTCTCTCTCTCTCT CTCTC/TTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTC	TCTTATGTTGTCGCGTT TCG	CGCAACAATGAGAAAA TCCC	60.4	621	INTERGENIC	--	--	--
Ca6_P2_50185310	Ca6	50185310	GTTT/GTGCAGTCTTT	GTGCAGTCTCTCACGG ACAA	CGTTAAGGAGGGGAA TCTC	59.9	270	INTERGENIC	--	--	--
Ca6_P2_50232302	Ca6	50232302	TCAAACAAAAA/TCAAACAAAAAACAA ACAAAAA	CGTTTACCCAAACCGT CTC	AGAAGGAGTGACAACG GTGG	60.2	245	INTERGENIC	--	--	--
Ca6_P2_50286785	Ca6	50286785	AATATATATATATATATATATATAT ATATATATA/AATATATATATATATATA TATATATATATATATATATA	TGTTGTGGCATCGGAG TCTA	CCACCTAATCACTCATA AATATCGAC	59.3	486	INTERGENIC	--	--	--
Ca6_P2_50297949	Ca6	50297949	TC/TGACAGGC	TGGCTTCTGCCAAAAA TAC	TGTGACAATGGATGCG AAGT	60.1	743	INTERGENIC	--	--	--
Ca6_P2_50514712	Ca6	50514712	CATATATATATATATATATATA/CATA TATATATATATATATATATATA	TTGTGTTTCAAGCCGAG ATG	TTTGTGAAATTTGAGCC AATAAAA	59.9	642	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_50517563	Ca6	50517563	GGAAGAGAAGAGAAGAGAAGAGAAGA GAAGAG/GGAAGAGAAGAGAAGAGAAG AGAAGAGAAGAGAAGAGAAGAG	TTCAGCATCCAACAAG TGA	CCACCAATGCAACAAC AAAG	60.0	790	INTERGENIC	--	--	--
Ca6_P2_50582456	Ca6	50582456	CATATAATATAATATAATATAATATA TAATATAATATAATATAATATAATATA ATA/CATATAATATAATATAATATAAT AATATAATATAATATAATATAATATA TA	AGAGTTGGCTGAGGT TCCA	AATGACCTCGCAGTCT CCAC	60.3	560	INTERGENIC	--	--	--
Ca6_P2_50655807	Ca6	50655807	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/ATA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT	ATGCGGTTTAAATTGGA TCG	CAAGTGCCCTTAACCC ATCT	59.1	336	INTERGENIC	--	--	--
Ca6_P2_50669135	Ca6	50669135	TAAA/TA	CATGAAAATTGCACAAG ACAAA	TCCCAAATTTATTTTTA ATGTCCC	59.4	162	INTERGENIC	--	--	--
Ca6_P2_5068292	Ca6	5068292	AATATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	CAAGGACAATCGCCAC AAAT	TTGATGGAGCAGGTGT TGAG	59.8	643	INTERGENIC	--	--	--
Ca6_P2_50797014	Ca6	50797014	ATTTTTTTTTTTTT/ATTTTTTTTTT TTT	GGAGAATGCGATAGCT GGAG	TGGCGTTCTTTTAGC CTGT	59.9	827	INTERGENIC	--	--	--
Ca6_P2_50799516	Ca6	50799516	T/TGC	TTGCAGGACAATTGTT TGA	TCCGATGCCACAACAA CTTA	60.1	314	INTERGENIC	--	--	--
Ca6_P2_50818138	Ca6	50818138	AAAAATTTTATA/AA	CACATACTTCACATTTT GCATTGA	TGTAAACCCCTTACCGT GTGTC	58.9	682	INTERGENIC	--	--	--
Ca6_P2_50846171	Ca6	50846171	ATAAGTGTTAAGTGTTA/ATAAGTGTTA AGTGTTAAGTGTTA	GTGCTGACCCGTGATA GGTT	CTCAGCCCCTGACTTA ATGC	59.8	815	INTERGENIC	--	--	--
Ca6_P2_50938272	Ca6	50938272	ACT/A	ACACGTTTTGTTGTG CAA	AGTTGGCTTTTGTACC CCCT	59.9	396	INTERGENIC	--	--	--
Ca6_P2_50977475	Ca6	50977475	TT/TTAAAAAAAT	TTACCTCTCACGTGCAA TCG	AAGGGAACGTTGTGT ACCG	59.9	593	DRR	Ca_19195	--	--
Ca6_P2_51012538	Ca6	51012538	TTAATAATAATAATAATAATAAT/TTA ATAATAATAATAATAATAAT	TGGCACATCTATTCAAC CACA	CATGCGATGCAACAT GTAA	59.1	540	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_51094977	Ca6	51094977	ATTTATTTTATTTTATT/ATTTATTTTATT TTATTTTATT	TCAC TTGCCGGAATAA GAAA	GAAATCTTGCATGGCA GACA	59.8	734	INTERGENIC	--	--	--
Ca6_P2_51337603	Ca6	51337603	AG/AGG	TGATGGGGTGCAAAAT ATGA	CAGGGACCAAGAAATT CAGG	59.5	877	INTRON	Ca_19171	R	--
Ca6_P2_51429120	Ca6	51429120	AATATATATATATATATATATA/AATAT ATATATATATATATATATATA	CATGACCCCAATTTTC AGG	TGGACAACGAATCTAA CGGA	59.1	943	INTERGENIC	--	--	--
Ca6_P2_51439277	Ca6	51439277	AATATATATATATATATATATATA/AAT ATATATATATATATATATATA	CAAAGGTGAAGACTTTC CGC	CGAGACTTCACGATTG TGCA	59.9	873	INTERGENIC	--	--	--
Ca6_P2_51444472	Ca6	51444472	T/TCCACATTCCTCTAG	TAATGCCTCTCCCAGA ATG	TGGTGGTGAATACTAC GGCA	60.0	176	INTERGENIC	--	--	--
Ca6_P2_51482572	Ca6	51482572	TAAAAAAAA/TAAAAAAAA	TGCACAATTGTTTATGA TGTTTTT	ACACTCCCAAAATCGT CCAG	60.0	552	INTERGENIC	--	--	--
Ca6_P2_51484406	Ca6	51484406	TTATATATATATATATATA/TTATATAT ATATATATATATATATA	GGACCACGATTTTGTAT GGG	CCATAAATTCGTATTT TCTGCC	59.0	843	INTERGENIC	--	--	--
Ca6_P2_51504531	Ca6	51504531	TTCT/TT	CGGGACTTACAACCCA GAAA	GATT CAGGACGTTCTGT TGGT	60.0	123	DRR	Ca_19163	--	Nin-like
Ca6_P2_51514779	Ca6	51514779	CTATATATATATATATATATAT/CTA TATATATATATATATATAT	TTGTTTGGGTTATGCTG CAA	TTGAAAATGGTGGGGG ATT	60.0	608	INTERGENIC	--	--	--
Ca6_P2_51524316	Ca6	51524316	AATTATTATTATTATTATTATTATTA TT/AATTATTATTATTATTATTATTAT TATTATT	AAGCGGACAAACAAT GACC	AAGAGCGGGGATTTCG TACT	60.1	605	INTERGENIC	--	--	--
Ca6_P2_51672087	Ca6	51672087	AT/AATATATAACCT	ATGGAATGAATCCACAC GGT	TCTTCCACCCAGTTTTC ACC	59.9	360	INTERGENIC	--	--	--
Ca6_P2_51675507	Ca6	51675507	A/AG	GGAAGGGATTTTGTG GTGA	TTCGTAATGGACGGGA TGAT	60.2	596	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_51959426	Ca6	51959426	CAA/CAAAA	TAATGGTTTTACGCCA ACA	ACCGGAAACGCATGTT AAAG	60.0	586	INTERGENIC	--	--	--
Ca6_P2_5202330	Ca6	5202330	TTG/TTGGTG	TTCCCTGCCAGAAGTT GTTT	GTTGCACGCTGAAAGA TTGA	60.0	686	DRR	Ca_05776	J	MYB
Ca6_P2_52074906	Ca6	52074906	TTTATTAAGCGATTATTATTCAGCGAT TTATTATTA/TTTATTCAGCGATTATTATTA TTA	TCCTGAAGATGAGATG CGTG	GGCTATCGCTTATGCA GGAC	59.8	797	DRR	Ca_17514	--	SAP
Ca6_P2_52075058	Ca6	52075058	GTTATTATTATT/GTTATTATTATTATT	GCGTGTCTTATTGGAG AGAGC	GGCTATCGCTTATGCA GGAC	59.8	782	DRR	Ca_17514	--	SAP
Ca6_P2_52089565	Ca6	52089565	ATATTTTCT/ATATTTTCTTATTATTTT TCT	CCGGCAGCACAATACC TTAT	AGCGCATCTTTTCATCC AAC	60.2	568	DRR	Ca_17516	A	--
Ca6_P2_52104833	Ca6	52104833	A/AC	CAGAAAAAGGTGCAAC CACA	TCCTCCAACCACCATTT CAT	60.2	793	INTERGENIC	--	--	--
Ca6_P2_52107130	Ca6	52107130	CAA/CAAA	TGGCCCTGTCTCATAA ATC	AAAGGCTATTTGCTCG TGA	59.8	911	INTERGENIC	--	--	--
Ca6_P2_52125279	Ca6	52125279	ATTTTTTTTTTTTTTTTT/ATTTTTTTTTT TTTT	ACATGTTTTTGTGCGG TGA	CCATGTTTGGGAAGGC ATT	59.8	641	INTERGENIC	--	--	--
Ca6_P2_52144987	Ca6	52144987	CTATATATATATATATATATATATATA TATA/CTATATATATATATATATATATATA TATA	TCAGACATGCACTTCAT CCA	CCAATCTCCAAATTAT AAGCC	58.9	390	INTERGENIC	--	--	--
Ca6_P2_5236695	Ca6	5236695	GAAAAAAA/GAAAAAAA	AGCCAAGCTCGAAGAA TTGA	CACCTCGTGACAATTC AACC	59.0	606	INTRON	Ca_05773	K	TALE
Ca6_P2_52407667	Ca6	52407667	ATTTTT/ATTTT	GAACAAATTTCCAGGG CAGA	TGTGCAAAGGGGAAAC AAGT	60.5	534	INTERGENIC	--	--	--
Ca6_P2_52477923	Ca6	52477923	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT/TTTAT TATTATTATTATTATTATTATTATTATA TTATTATTATTATTATTATTATTATT	TGCGATTGAATAGATGT GCC	ACTTTGGAGGAACGAC TTGG	59.2	733	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_52482778	Ca6	52482778	GACG/GACGCACG	TGGTGTGGAATCATGT TTTTC	TCCTTCTTTGCCTTCC TTG	59.4	276	DRR	Ca_17538	--	--
Ca6_P2_52486383	Ca6	52486383	GTGTTTTTTTTTTTTT/GTTTTTTTTT	GTTCCATGCTGCCTTT CAT	AGAGGAAGCAGCCACT GTGT	60.1	271	INTERGENIC	--	--	--
Ca6_P2_52486696	Ca6	52486696	ATTTTTTTTTT/ATTTTTTTT	AGGCCATCACATTCCTT TTG	CACCTTGGGACGTCA AGTT	60.0	449	INTERGENIC	--	--	--
Ca6_P2_52517689	Ca6	52517689	T/TATAAAAGGGAAA	TGTTCATAGGCATCGA CCA	TGTGAATGGCCTTAAA AGCA	59.3	608	INTERGENIC	--	--	--
Ca6_P2_52522417	Ca6	52522417	CTTTTTTTTT/CTTTTTTTT	TGCAAAATCAATTCAA TCAGG	GGGCCTTTTAGTGCCA TACC	59.7	480	INTERGENIC	--	--	--
Ca6_P2_52529171	Ca6	52529171	CTATCTATTTATCTATTTAT/CTATCTAT TTATCTATTTATCTATTTAT	TCAAAAATTGGATTGCG GGA	TTTCTCTATTGCACCTG GGG	60.1	267	INTERGENIC	--	--	--
Ca6_P2_52529525	Ca6	52529525	TAAAAAAAAA/TAAAAAAAAAAAAA	CCCCAGGTGCAATAGA GAAA	TCGCCTACTCACGGAT TTTT	59.7	278	INTERGENIC	--	--	--
Ca6_P2_52532365	Ca6	52532365	CTTTTTTTT/CTTTTTTTT	CTTCACGACGTATGGT CCCT	TGGTCTAAAGAATGCT GGGG	60.1	887	INTERGENIC	--	--	--
Ca6_P2_52595390	Ca6	52595390	ACTCTCTCTCTCTCTCTCTCTCTCTCT T/ACTCTCTCTCTCTCTCTCTCTCTCT	AATCATTAACCATCGCG CTC	GCACGCGATTCAAATC TACA	59.8	484	INTERGENIC	--	--	--
Ca6_P2_52657541	Ca6	52657541	AATATATATATATATATATA/AATATAT ATATATATATATATA	TGGTTAGCATGTGTTTG GGA	TTGTGGTGCATTCTTCA TCC	59.5	412	INTERGENIC	--	--	--
Ca6_P2_52664541	Ca6	52664541	ATTTTTTTTTT/ATTTTTTTTTT	GAAGGGTGCCTTGAAT TTGA	AGCTTCCAGGTCAGGC TTTT	60.4	249	INTERGENIC	--	--	--
Ca6_P2_52669555	Ca6	52669555	TTTATTATTATTATTATTATTATTATT ATTATT/TTTATTATTATTATTATTATT TATTATTATT	TGATGATAATCGGTGTC CCA	AGTTGGAGGTCACTAG CCCA	59.7	372	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_52669647	Ca6	52669647	TTTATTATTATTATTATTATTATT/TT TATTATTATTATTATTATTATT	TGATGATAATCGGTGC CCA	AGTTGGAGGTCACAG CCA	59.7	372	INTERGENIC	--	--	--
Ca6_P2_52676255	Ca6	52676255	GATATATATATATATATATATAT/GAT ATATATATATATATATATATAT	ATGGGTATAAGTACCC GCGA	TGTGTCCATCCCTAAA CGA	59.0	223	INTERGENIC	--	--	--
Ca6_P2_52789381	Ca6	52789381	CATATATATATATATATATATATAT ATATATA/CATATATATATATATATATA TATATATATATATATA	GTTGGTCCCTAGCAC CGTA	AAGAAGGACGGAAGT CACA	60.0	867	INTERGENIC	--	--	--
Ca6_P2_52848807	Ca6	52848807	ACTCGCT/A	CTGCCAAATACTGCGA CTCA	TCAATTTTGCTTGAGG ATGGA	59.6	381	INTERGENIC	--	--	--
Ca6_P2_52850074	Ca6	52850074	ACTAATTTCTAATT/ACTAATTTCTAATT TCTAATT	TCTGATTCGTTAATGAC AACCTTT	CGTGGGAGCAATTATG TCCT	60.0	218	INTERGENIC	--	--	--
Ca6_P2_52850184	Ca6	52850184	TA/T	AGGACATAATTGCTCCC ACG	TCCATCTCCAACAACAT CAAA	59.0	305	INTERGENIC	--	--	--
Ca6_P2_52856262	Ca6	52856262	TG/T	CCGGACCTAACACGTC CTAA	TTCAAGTGAACCTCCAT GTGC	59.7	389	INTERGENIC	--	--	--
Ca6_P2_52857879	Ca6	52857879	TT/TTATATATAT	TGGATTGTGTGCTTCAT TTTG	TCAATTTTGAGCATGT GAG	58.4	748	INTERGENIC	--	--	--
Ca6_P2_52858644	Ca6	52858644	TATCTATCTATCTAT/TATCTATCTATCT ATCTAT	CTGCAACACCATTTTTG TGG	TTTGCTGAAAGCATGTT TGTTT	59.8	689	INTERGENIC	--	--	--
Ca6_P2_52859170	Ca6	52859170	CTTTCTTTTT/CTTT	AAGTGAATTCCACCTC CCA	CGAGCCTCCAACCTCT CTTG	60.1	560	INTERGENIC	--	--	--
Ca6_P2_52862596	Ca6	52862596	T/TTATAA	ACATGAAGGCTTGGGT TGAC	GAGGAGCATGATAGCA AGGC	59.9	193	INTERGENIC	--	--	--
Ca6_P2_52886186	Ca6	52886186	A/ATATTACAT	GAATCTCAGGCTGCAC ACAA	AATCTCCCCCTGAGTTT TGG	60.3	851	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_52889876	Ca6	52889876	ATT/ATTT	TAAAGGACCAAGTCGG GAAA	TGCTCATGGAGTTAGA AGCAA	58.7	471	INTERGENIC	--	--	--
Ca6_P2_52890200	Ca6	52890200	TTATATATATATATATATATATATAT/T TATATATATATATATATATATATAT	TAAAGGACCAAGTCGG GAAA	TTATTTGGGTGCATGA GCAA	60.1	863	INTERGENIC	--	--	--
Ca6_P2_52890257	Ca6	52890257	TT/TTTGT	TTGCTTCTAACTCCATG AGCA	TTATTTGGGTGCATGA GCAA	60.1	413	INTERGENIC	--	--	--
Ca6_P2_52911433	Ca6	52911433	TTATATATATATATATATATATATATA TATATATAT/TTATATATATATATATAT ATATATATATAT	TTAGTGGCTAACATTG TCTG	TCTGCCAAAAACGAAA TCG	61.1	561	INTERGENIC	--	--	--
Ca6_P2_5295925	Ca6	5295925	TTTATTATTATTA/TTTATTATTATTA TATTTATTA	TTGACATTTCAAACCGG TCTAT	TGGAAAAGACTCCTGA ATATGGA	60.0	359	INTERGENIC	--	--	--
Ca6_P2_52960525	Ca6	52960525	AACA/AACACACACACACA	TGCAAAACATTTCATC GCTC	TACCCCTTTGCTAGCCC CTTT	60.1	675	INTERGENIC	--	--	--
Ca6_P2_53010946	Ca6	53010946	CA/C	TGCATCGATAACCAATC CAA	TACATGCGCCCTGTT TAAT	60.3	301	INTERGENIC	--	--	--
Ca6_P2_5303521	Ca6	5303521	TTATATATATATATA/TTATATATATATA	ATGAGGATGATGGGTG CTTC	TCATTGTCATGGACAC CACAG	60.4	568	INTERGENIC	--	--	--
Ca6_P2_53305336	Ca6	53305336	ATTTTTTTT/ATTTTTTTTT	CAAGATTCGTGGTGC AAGA	TTGAGGACAAAAGCTG CTGA	59.7	660	INTRON	Ca_22925	G	--
Ca6_P2_53311252	Ca6	53311252	AT/ATT	GATGGTGGCCATTGAA GAGT	CAACAGTGATGCACC TGCC	60.2	721	INTERGENIC	--	--	--
Ca6_P2_53312302	Ca6	53312302	AAAAATAAAATAAAATAAAATAAA/AAA AATAAAATAAAATAAAATAAAATAAAA	ATAGCAATTGGTGCATC CCT	ATGACCAAGGCATTGA GGAC	59.9	761	INTERGENIC	--	--	--
Ca6_P2_53344452	Ca6	53344452	TGGGG/TGGG	CTTGGGCTTATTCAATG CAA	TAACTCAAGCCAATGA GGGG	60.1	751	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_53413835	Ca6	53413835	ATT/ATTT	CGTCATTGGGGACT AAAA	GAGTTCGGGAGTAGGG AAGG	60.1	978	INTERGENIC	--	--	--
Ca6_P2_53527646	Ca6	53527646	TAAAAAA/TAAAAA	CCGCCTCATTGGCTTAA ATA	TTGAATTGAATTTTCA TTCTTTTG	58.7	510	INTERGENIC	--	--	--
Ca6_P2_53615531	Ca6	53615531	ATTTTTTTTT/ATTTTTTT	GATGATTTTCTCGGGAA GCA	TGAGAAAGAAGCAGCA TCCA	59.7	547	INTERGENIC	--	--	--
Ca6_P2_53680637	Ca6	53680637	CATATATATATATATATATATAT/C ATATATATATATATATATATATAT	TCTATGGCACTTGGAG CCTT	AATTTGCATGTCTTTTG CCC	59.9	667	INTRON	Ca_18901	--	--
Ca6_P2_53735282	Ca6	53735282	TTATATATATATATATATATA/TTATAT ATATATATATATATATATA	CGAGACGAATTTGAGG GTGT	CCCTTAGAATTGACCG GTTG	59.4	453	INTERGENIC	--	--	--
Ca6_P2_53780329	Ca6	53780329	GATTAATTAATTAATTAATTAATTA ATTAATTAATTAATT/GATTAATTAATTA TTAATTAATTAATTAATTAATTAATT	CACACCCTCTCAAGGT GGAT	TGCAATGGTTGATAAAA TTAACG	58.1	723	INTERGENIC	--	--	--
Ca6_P2_53794874	Ca6	53794874	ATAATAATAATTATTATTA/ATAATAATA TTATTATTAATAATAATTATTATTA	GGCTACTTGGTGGTCA TGGT	GCACAACCTCTGAGTC GGTT	60.3	678	DRR	Ca_18912	--	--
Ca6_P2_53796967	Ca6	53796967	CATAAAATAAAATAAAATAAAAT/CATAA AATAAAATAAAATAAAATAAAAT	TGCATTTTCACCAACAT CGT	GCCTTCATCAGTTCGTT TCC	59.7	726	INTERGENIC	--	--	--
Ca6_P2_53799025	Ca6	53799025	ATTT/ATTTT	GGCCCAATATTTGAAAC CCT	CAACTTGCAAGACCC ATCA	59.7	704	INTERGENIC	--	--	--
Ca6_P2_53811922	Ca6	53811922	CGGAAG/CGGAAGGAAG	AGTGATGCTGGGTTGA AAGG	CTTTTGATCTGCAACCA GGC	60.8	100	INTERGENIC	--	--	--
Ca6_P2_53854066	Ca6	53854066	TTATATATATATATATATATATATATA TATATAT/TTATATATATATATATATAT ATATATATATATATATATAT	AATCCTGGAGGGAAC TGCT	TGCAAAAAGCCAAAAC CTTC	60.2	617	INTRON	Ca_18916	G	NAC
Ca6_P2_54068748	Ca6	54068748	CCATCAT/CCAT	GTAAGTGAAAGCGGGA GTGC	ACCACCAACTTGCTTG CTCT	59.9	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_54068881	Ca6	54068881	TAATATAAAAA/TAATATAAAAAATATAAA AA	GATCCCAACCATCATTG TCC	ACCACCAACTTGCTTG CTCT	59.9	258	INTERGENIC	--	--	--
Ca6_P2_54068968	Ca6	54068968	GA/GATA	GATCCCAACCATCATTG TCC	ACCACCAACTTGCTTG CTCT	59.9	258	INTERGENIC	--	--	--
Ca6_P2_54069131	Ca6	54069131	ATTTT/ATTTTTT	GATCCCAACCATCATTG TCC	AATTACCACGGCCTCT TG TG	60.0	824	INTERGENIC	--	--	--
Ca6_P2_54070088	Ca6	54070088	ATT/ATTT	GCAATTGTCTGATTTT ATTTT TG	TTTTGGTGGGTCCAC TTTT	59.3	379	INTERGENIC	--	--	--
Ca6_P2_54070236	Ca6	54070236	TAAA/TAA	TTTCTTTCTCATGCTT TAGAGG	TTTTGGTGGGTCCAC TTTT	59.3	123	INTERGENIC	--	--	--
Ca6_P2_54143384	Ca6	54143384	T/TAA	CCAAGAGATATACGGG GCAA	TGAAAGTCTGATCCGA TCTAATAGT	57.6	623	INTERGENIC	--	--	--
Ca6_P2_54143633	Ca6	54143633	AATATATA/AATATATATA	CCAAGAGATATACGGG GCAA	CGACAAAACAAACGC ATAA	59.6	907	INTERGENIC	--	--	--
Ca6_P2_54144228	Ca6	54144228	ATTTT/ATTTTT	TGTTTTGTCGGGTGGA CATA	CGTGCATTAACATCGA CAGG	60.1	450	INTERGENIC	--	--	--
Ca6_P2_54144443	Ca6	54144443	ATAAACTAA/ATAAACTAACTAA	TGTTTTGTCGGGTGGA CATA	CGTGCATTAACATCGA CAGG	60.1	450	INTERGENIC	--	--	--
Ca6_P2_54152599	Ca6	54152599	AT/ATGGTGTGCT	CGGGCAACTCTTTTCA CAT	AGCGCTTGTCATCCT CTAA	60.0	151	DRR	Ca_16269	--	FAR1
Ca6_P2_54152748	Ca6	54152748	TTTCTT/TTTCTTCTT	CGGGCAACTCTTTTCA CAT	CGCATCCATGGACACA TAAG	59.9	422	DRR	Ca_16269	--	FAR1
Ca6_P2_54152811	Ca6	54152811	T/TC	CGGGCAACTCTTTTCA CAT	CGCATCCATGGACACA TAAG	59.9	422	DRR	Ca_16269	--	FAR1

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_54158111	Ca6	54158111	CTTTT/CTTT	ATTGAAACCATCGGAA CTG	TTGGTGTGCAAAATG AAAA	57.7	588	INTERGENIC	--	--	--
Ca6_P2_54158243	Ca6	54158243	ATTTTGAATTTT/ATTTT	ATTGAAACCATCGGAA CTG	TTGGTGTGCAAAATG AAAA	57.7	588	INTERGENIC	--	--	--
Ca6_P2_54160975	Ca6	54160975	AAATAT/AAATATTAATAT	TTGATTGACAATTTTC ATTGCTT	TCAGTTTTCCGGTTTCT TGC	60.2	703	INTERGENIC	--	--	--
Ca6_P2_54161011	Ca6	54161011	TGAGAGA/TGAGA	TTGATTGACAATTTTC ATTGCTT	TCAGTTTTCCGGTTTCT TGC	60.2	703	INTERGENIC	--	--	--
Ca6_P2_54161673	Ca6	54161673	ATTTTTTTT/ATTTTTTTT	TGCGTTGAAATCAAAAC TGC	TCGCTTAAATGTATCA ATTCCA	58.7	699	INTERGENIC	--	--	--
Ca6_P2_54180754	Ca6	54180754	TAAAAAAA/TAAAAAAA	TCTAGCCTACCCACT GAAAAA	ATGCGGAAAACCTCAT CCAC	59.9	138	INTERGENIC	--	--	--
Ca6_P2_54191865	Ca6	54191865	TG/TGCG	TGGCATTGAGTGAATT GGA	TTTTTCCGAGTTGGTCA TTT	57.2	783	INTERGENIC	--	--	--
Ca6_P2_54192734	Ca6	54192734	ATTTTTTTT/ATTTTTTTT	GGACGCGAAAATAAA ACAA	TTGAAATGGCTAAGG CAAAA	59.7	642	INTERGENIC	--	--	--
Ca6_P2_54322946	Ca6	54322946	TATTG/TATTGATTG	TATGAATCTTCACTCC GCC	CCAGTCTGACCTGACC ATGA	59.7	560	INTERGENIC	--	--	--
Ca6_P2_54334327	Ca6	54334327	GTGATAACTCAATGATAA/GTGATAA	GAATGCAAGGTGGACT TGGT	CAGTTGCCTTCGCTAA AAGG	60.0	476	INTRON	Ca_16289	O	WRKY
Ca6_P2_54335899	Ca6	54335899	GTGCATTGCTT/GTGCATTGCTTGCAAT GCTT	GGTTTGCCAGTATCTT CCA	CCATAAAGGGACGAAA AGCA	60.1	391	INTRON	Ca_16289	O	WRKY
Ca6_P2_54339604	Ca6	54339604	GAGGATCA/GA	ATCATGCGTTTCTCACA TGC	TACGGGGTTGGGATA ATT	60.3	216	DRR	Ca_16289	O	WRKY

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_54339840	Ca6	54339840	CAAAA/CAAAA	TAAATTATCCCAACCC CGT	CTGATGAGCTTTCGGT GCTT	60.5	205	INTERGENIC	--	--	--
Ca6_P2_54339929	Ca6	54339929	TC/T	AAATTATCCCAACCC GTA	TCATTGGACTCTCATCC TCTCA	59.8	628	INTERGENIC	--	--	--
Ca6_P2_54341513	Ca6	54341513	T/TCTCTC	GATGTTGGGTCGCTT CAAT	AAAACCAACACTGCCA AAGG	60.0	688	INTERGENIC	--	--	--
Ca6_P2_54343914	Ca6	54343914	CTTTT/CTTTT	ACGTCGTCGCTTTGA GAGT	GCCGTTTTCCATTGTG ACTT	60.0	214	INTERGENIC	--	--	--
Ca6_P2_54344134	Ca6	54344134	ATTTTTT/ATTTTTTTT	AAGTCACAATGGAAAC GGC	AGGAACGTAGCAGCC TCCA	60.0	564	INTRON	Ca_16290	R	--
Ca6_P2_5449301	Ca6	5449301	A/ATATAT	AATCTTCCAACCCAACG ATT	CCCTTTTGTCCTTGTT TGG	60.5	559	INTERGENIC	--	--	--
Ca6_P2_54712565	Ca6	54712565	AAACTAA/AAACTAACTAA	GCATACCTTGTTAAAT TGCTC	TGCTAGAAATAGAATT GGCACA	58.9	352	INTERGENIC	--	--	--
Ca6_P2_54720503	Ca6	54720503	CTT/CT	GTCTACTCCCTCACCC CACA	CTGGACATCTATTGGT AGCCG	59.6	378	INTERGENIC	--	--	--
Ca6_P2_5475869	Ca6	5475869	AGGGGGG/AGGGGGGG	TGGGCGCAGTAATCAC ATAG	TGGAGAGAATGATGAG AAAAATGA	60.1	417	INTERGENIC	--	--	--
Ca6_P2_5477724	Ca6	5477724	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	TGCATGAAAGAACTG GGA	TCCGGTACATGGTCAA AACA	59.8	569	DRR	Ca_05753	--	--
Ca6_P2_54912175	Ca6	54912175	TTAATAATAATAATAATA/TTAATAAT AATAATAATA	TTGCAGAGTTGTGGCT CAAA	CCTTTTCCATTTGTGC TCG	60.6	698	INTERGENIC	--	--	--
Ca6_P2_54952283	Ca6	54952283	TTATATATATATATATATATATATATAT T/TTATATATATATATATATATATATAT	CCATTGTAACACCCCAA ATTTTA	TTTCTCCATTCTTCG TGG	60.0	937	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanched scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_55771133	Ca6	55771133	GTC/GTCTTC	GGAACGTGTGAACGG AAGT	GGTAACCAATCCGAAG ACGA	59.9	575	INTERGENIC	--	--	--
Ca6_P2_55771190	Ca6	55771190	TAT/TATCGTCTTCGGAT	TTACCGATGCATTGATC GAC	GGTAACCAATCCGAAG ACGA	59.9	143	INTERGENIC	--	--	--
Ca6_P2_55781099	Ca6	55781099	GTTTT/GTTTT	AGAAGGCTACCACTAC GCGA	ATCGACTCCGAACCTC AAAA	59.7	500	INTERGENIC	--	--	--
Ca6_P2_5581100	Ca6	5581100	GCTCTCTCTCTC/GCTCTCTCTCTC	CTTCTCTGATTGTGCCA GGT	AAGCCTCTTCTTTCCAA GCC	60.0	846	INTRON	Ca_05741	--	--
Ca6_P2_55826945	Ca6	55826945	ATTTTT/ATTTTTTT	AATCGATTGATTCAGCC CAG	TTCCCATCTCCATTCTC GTC	60.0	414	INTERGENIC	--	--	--
Ca6_P2_55876495	Ca6	55876495	TTAATAATAATAATAATAATAAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATA	ACATCTGCCACATTGA TGA	CTTCAAAGTCAGCGG GAAC	59.9	567	INTERGENIC	--	--	--
Ca6_P2_56087656	Ca6	56087656	CTTT/CTTTT	TTGTGAGCATGAGAAG TTGTTG	TGAAAAATTATTGAAAA AGTTACTTCC	57.7	737	INTERGENIC	--	--	--
Ca6_P2_56191156	Ca6	56191156	CAAATAAATAAATAAATAAATAA/AA CAAATAAATAAATAAATAAATAA	TCGATTATGCGTAGGG AAGG	TCCTTGAGTTTTGGGA CACA	59.1	482	INTERGENIC	--	--	--
Ca6_P2_56398484	Ca6	56398484	ATTT/ATTTT	CAATCTCCACCTCAACA CCC	GAATGCCACCAGGAAA AGAA	60.1	665	INTERGENIC	--	--	--
Ca6_P2_5645464	Ca6	5645464	TTATATATATATATATATATATATATA TATATAT/TATATATATATATATATAT ATATATATATATATATATATATAT	GGCCACATATGAAGG TGAA	GGTCGCTTTAATTGCA CACA	59.7	846	INTERGENIC	--	--	--
Ca6_P2_56462708	Ca6	56462708	AATATATATATATATATATATAT/ATA TATATATATATATATATATATAT	CATTCCCTCTGGCTTGT CAT	AGGAAGAGTGGAGTTG CGAA	60.0	605	INTERGENIC	--	--	--
Ca6_P2_56503513	Ca6	56503513	CAAAAA/CAAAAAA	CTCACAAACATTGGG GGAC	GACCATCCGACTTTGC ATTT	59.9	568	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_56503976	Ca6	56503976	GAAAAA/GAA	GTTGGCGCAAACCTCTT CTTC	TGCAACTTTCAGGTCC CTTT	59.7	583	INTERGENIC	--	--	--
Ca6_P2_56504001	Ca6	56504001	ATTTT/ATTTT	GTTGGCGCAAACCTCTT CTTC	TGCAACTTTCAGGTCC CTTT	59.7	583	INTERGENIC	--	--	--
Ca6_P2_56504140	Ca6	56504140	AAAAGAAA/AAAA	AAATGCAAGTCGGAT GGTC	TGCGAAGAAGAATGAT CACG	59.9	896	INTERGENIC	--	--	--
Ca6_P2_56504753	Ca6	56504753	ATTTTTTTTTTTT/ATTTTTTTTTT	CGTGATCATTCTTCTTC GCA	TCGGTCACCAAGTTAC CACA	60.0	614	INTERGENIC	--	--	--
Ca6_P2_56505598	Ca6	56505598	AC/A	TGTAACCTGGTGACC GACA	AATTTTGCAGAGAAA GAAAAAG	57.6	485	INTERGENIC	--	--	--
Ca6_P2_56507452	Ca6	56507452	TATCA/TA	CGTGATCATTCTTCTTC GCA	ATCCAAACATTGGCCAT TTC	59.6	685	INTERGENIC	--	--	--
Ca6_P2_56507723	Ca6	56507723	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT TTTT	CGTGATCATTCTTCTTC GCA	CTCCCAATTGCAGTG TCCT	60.1	966	INTERGENIC	--	--	--
Ca6_P2_56507798	Ca6	56507798	CA/CAA	AAATTCAAGTCTCGACG CAAA	CTCCCAATTGCAGTG TCCT	60.1	511	INTERGENIC	--	--	--
Ca6_P2_56662137	Ca6	56662137	TAAACAA/TAAACAAAACAA	TCATGGACTGAAGCATT GGA	AGTCTAGCACCCCTC GTGC	60.5	978	INTERGENIC	--	--	--
Ca6_P2_56686622	Ca6	56686622	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT	TGTCATTATGGATCAG GGGA	TGATTGAACATGCATT CCG	60.5	416	DRR	Ca_17405	--	--
Ca6_P2_56692411	Ca6	56692411	GAAAAAAAAA/GAAAAAAAAA	TGTTTTATTATGGCA GTTTCA	ATTCAGCCGTTCTCAT AGG	60.1	337	DRR	Ca_17408	O	WRKY
Ca6_P2_56727392	Ca6	56727392	TAA/TAA	AGGCAAAACATGTTCCC TCA	AATGTTAGTGACCGT GTCG	59.6	706	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_58597676	Ca6	58597676	CG/C	CGATCATGCTGCTTGT TTG	TCGTTTCATCTTGAATGT GACAA	59.2	737	DRR	Ca_15402	--	--
Ca6_P2_58758018	Ca6	58758018	TGTTCAATTAGTCA/T	CATGGCCTGTCCTGAC CTAT	CCCATGAGTAGGGGTG AGAA	59.9	604	INTERGENIC	--	--	--
Ca6_P2_58789693	Ca6	58789693	AAAAACAA/AAA	CGGAACAGAATCTGGC CTAT	AAACAAAAGCGCACAC TCAA	59.5	202	INTERGENIC	--	--	--
Ca6_P2_58791052	Ca6	58791052	ATAA/ATAAGTAA	TTTTAAATTTGCACACC GCC	GAGCCGTCTTCATTC AATCTT	59.7	594	INTERGENIC	--	--	--
Ca6_P2_58792944	Ca6	58792944	ATTTTT/ATTTTTTT	CAACAATTTCCCCATT TTT	TGTGAATGTTTAATTCA GGGAGG	60.2	377	INTERGENIC	--	--	--
Ca6_P2_58801363	Ca6	58801363	T/TAGCTAAAC	TATTTCTGCGACCAACG ACA	CGGGTTCCAACATGAA GTTT	59.8	538	INTERGENIC	--	--	--
Ca6_P2_58806261	Ca6	58806261	GAAAAAAAA/GAAAAAAAAAAAA	GCCTCCTCCTTTGTTTG ATG	CTTCAACCATCTTTCGA GCC	59.8	236	INTERGENIC	--	--	--
Ca6_P2_58815507	Ca6	58815507	CT/C	ATTCCTCGACCAGTTGA AAA	CATCAATCATGTTGCAT GGC	60.9	242	INTERGENIC	--	--	--
Ca6_P2_58815802	Ca6	58815802	TTTATTATTATTATTATTATTATT ATTATTATTATT/TTTATTATTATTATT TATTATTATTATTATT	CCGTGAAACAGTTTGTC CCA	TGTGGAATGACAAACG GGTA	59.8	513	INTERGENIC	--	--	--
Ca6_P2_58822688	Ca6	58822688	TTGTGTGTGT/TTGTGTGTGTGT	CCCGTAAGATGTTCAA GATGC	GAAGCTTTTTTCACAC GCA	60.0	489	DRR	Ca_15424	S	--
Ca6_P2_58823602	Ca6	58823602	CAAA/CAA	TATATTTGCGGGAACCA ACG	GCACTCATTAGCCGTT CCAT	60.1	886	DRR	Ca_15424	S	--
Ca6_P2_58828738	Ca6	58828738	CA/CATAGTGTA	ATTCATGGCCATCATCC ATT	AACAGCGAGCCCTTGA AGTA	60.0	911	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_58834846	Ca6	58834846	GTTTTTTTTT/GTTTTTTTTT	TGAAACGTCAACTTTC GGA	AGGACTTCACCATCAAT TCCA	59.4	292	INTERGENIC	--	--	--
Ca6_P2_58846994	Ca6	58846994	AATATATATATATATA/AATATATATATAT ATATA	CAAGGTTGTGAGGGTT TGGT	GGAGAAATGGGCCAAA CATA	59.8	409	INTERGENIC	--	--	--
Ca6_P2_58852717	Ca6	58852717	TAAAAAAAAA/TAAAAAAAAA	CCTTGTTCTTTCACCG CAT	CTTCTGAACGTTCTGCTT GAA	59.2	313	INTERGENIC	--	--	--
Ca6_P2_58872405	Ca6	58872405	ATTTTTTTTTTT/ATTTTTTTTTTT	GTGTAGGTGTGGGTGT GGG	AAAATGGTGATGAAGT GTTAATTTTT	58.5	764	INTERGENIC	--	--	--
Ca6_P2_58900204	Ca6	58900204	TACATC/TACATCACATC	TTGAGAATTTGTGCAAT CTACG	CCTGAAATATCGGGCC ACTA	59.9	909	INTERGENIC	--	--	--
Ca6_P2_58966264	Ca6	58966264	AATATATATATATATATAT/AATATATA TATATATATATATAT	TACAGCCTAAGCAGATG CAAA	CAATTCCCACAGGTAC GCTT	60.0	414	INTERGENIC	--	--	--
Ca6_P2_58988839	Ca6	58988839	GATATATATATATATATATATAT/GAT ATATATATATATATATAT	TTGGTCTAGTTCTCCCA AGCA	TTTTTGAAAGAAGTTGT TGGATTC	58.8	497	INTERGENIC	--	--	--
Ca6_P2_59017133	Ca6	59017133	AATATATATATATATATATATATATAT ATATATATATATATATAT/AATATATATAT ATATATATATATATATATATATATATAT	TTTTTCTGAAACAAACG CATC	TAAGCTGTTCTGTCAT GGCA	60.4	646	INTERGENIC	--	--	--
Ca6_P2_59059948	Ca6	59059948	CT/CTTT	ATAGGACGCAAGAAA GCCA	TCCACAACAACCTACG TCCA	60.0	263	INTERGENIC	--	--	--
Ca6_P2_5906607	Ca6	5906607	ATTTTTTTTTTT/ATTTTTTTTTTT	AGGCACATTTAGTCGA CCGT	CTAAATTGTCGCCCTCT GGA	60.2	258	INTERGENIC	--	--	--
Ca6_P2_59067694	Ca6	59067694	ATTTTTTTTT/ATTTTTTTTT	GTTGCTGGTGAATGTG TTGC	TCCATATTATCGGCCAA AGC	59.9	686	INTERGENIC	--	--	--
Ca6_P2_59093194	Ca6	59093194	ATTTTTTTTTTT/ATTTTTTTTTTT	GGAGGCAACCCAACCT TATG	TCGCATAATTGGAACG TCAA	60.1	271	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_59120373	Ca6	59120373	CATATATATATATATATATAT/CATATAT ATATATATATATATAT	TCATTGTTGGATCGGG TTTT	GCTAATTTTACCGAACA CTTCAA	57.6	603	INTERGENIC	--	--	--
Ca6_P2_59124402	Ca6	59124402	TATAATAATAATAATAATATAATAAT AATAATAA	CATCATCAGGATCCACT CCC	CAATTCCCACGTCCTC TTCT	59.1	603	INTERGENIC	--	--	--
Ca6_P2_59171101	Ca6	59171101	TTATATATATATATATATATATATA TATATAT/TTATATATATATATATATAT ATATATAT	CAGGGACATAAACAAA TAGAAAAA	TTGGCAAACGATAGCC CTAC	60.1	816	DRR	Ca_18857	--	--
Ca6_P2_59184042	Ca6	59184042	TGAAGAAGAAGAAGAAGAAGAA/T GAAGAAGAAGAAGAAGAAGAAGAA GAAGAAGAA	CAAACTGCCTAATCCC CAA	CGTTTGAGTGGGATGA GGTT	60.0	157	INTERGENIC	--	--	--
Ca6_P2_59193085	Ca6	59193085	CTTTTTTTTT/CTTTTTTTTTT	ATGGGGTTTACCATTT GAA	ACATGATGGCAAGACC AAGA	59.1	511	INTERGENIC	--	--	--
Ca6_P2_59273276	Ca6	59273276	TA/TAAA	TGAAGCTTGTGCCAAA GGTA	GGTGGAGAATGAAACG GAGA	60.1	754	INTERGENIC	--	--	--
Ca6_P2_59273311	Ca6	59273311	TA/T	TTTTTGGGCTGAAGCCA TAC	GGTGGAGAATGAAACG GAGA	60.1	359	INTERGENIC	--	--	--
Ca6_P2_59313636	Ca6	59313636	CTTTTTTTTT/CTTTTTTTTTT	TATCCGAAATCGAAGAT GCC	CACCAACAACGAGCAA AATG	60.1	659	INTRON	Ca_18846	I	--
Ca6_P2_59332873	Ca6	59332873	CTATATATATATATAT/CTATATATATA TATATATAT	TTTCCACATCTTTAAAA CAATTTTC	TGATGGAATGACCGAA CTCA	60.0	345	INTERGENIC	--	--	--
Ca6_P2_59349983	Ca6	59349983	AATATATATATATATATATATATAT A/AATATATATATATATATATATATA TATATA	TTTCCATTGCACTCACT CCA	CCTATCATGGCCTGAC CTGT	60.0	777	INTERGENIC	--	--	--
Ca6_P2_59384361	Ca6	59384361	AATATATATATATATA/AATATATATAT ATATATATA	CGGCCTTATCCTAAGAA CCC	AAAATAGGGAGACCAA TTTCG	57.3	393	INTERGENIC	--	--	--
Ca6_P2_59405896	Ca6	59405896	GTATATATATATATATA/GTATATATA TATATATATATA	GATATGAGGATGGAGG GGGT	TTTTGTCTCCTTCTAT TTGCCA	60.1	911	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_59422588	Ca6	59422588	TTATATATATATATATATATAT/TTATA TATATATATATATATATATAT	CGGTCAAACCTTCATTG TGC	AGCGAGTCTGCTCCTA AACG	59.8	702	INTERGENIC	--	--	--
Ca6_P2_59426084	Ca6	59426084	ATGG/A	CAAAGCGAAGTGCAAG ATGA	GCTAAGTCAGAGGGCT GGTG	60.0	446	DRR	Ca_18837	--	--
Ca6_P2_59428824	Ca6	59428824	ATTTTTTTTT/ATTTTTTTTT	ATGATGTCACCTTGATGC GCT	TGAATGCAACCAATTC GAC	59.5	312	INTERGENIC	--	--	--
Ca6_P2_5971753	Ca6	5971753	GATATATATATATATATATAT/GATATAT ATATATATATATATATATAT	AGAGAGACGATTGTCA AGGCA	GCTTGTTCACAAGTCA TTTCAA	59.3	737	INTERGENIC	--	--	--
Ca6_P2_5989474	Ca6	5989474	ATTTTTTTTT/ATTTTTTTTT	TCTCGACGCTTCCTAAC GAT	CTATGCCATTTTGAGC CACA	59.7	664	INTERGENIC	--	--	--
Ca6_P2_60101	Ca6	60101	TC/T	CTCCTGCCATGTGCTCT GAA	ACGGAGAACGTTCCAA AATG	60.0	339	INTERGENIC	--	--	--
Ca6_P2_6099996	Ca6	6099996	AATGTATGTATGTATGTATG/AATGTAT GTATGTATGTATGTATG	CTTCACTGCCTGCAAA TCA	CCAAAAGAACTGCA GCAA	60.0	285	INTRON	Ca_05686	C	--
Ca6_P2_6149697	Ca6	6149697	AATATATATATATATATA/AATATATAT ATATATATATATATA	CGAAAACCAAAGTGGA GGAA	TGAATTGTTTTGGTTG GCA	59.9	550	INTERGENIC	--	--	--
Ca6_P2_6157681	Ca6	6157681	TATATATATATATATATATATATATAT ATATATATATATATATATATATATATAT ATATATATATATATATATATATATATAT	TGATGTGTTGATTGGT GGT	TGGCTCCTTCACTCA TCTT	59.8	548	INTERGENIC	--	--	--
Ca6_P2_6163420	Ca6	6163420	ATTTTTTTTT/ATTTTTTTTT	CCGTCCCTTAGCAAAT TCA	AAGCAACTATGGCAA TGGG	60.0	443	DRR	Ca_05680	T	G2-like
Ca6_P2_6319723	Ca6	6319723	CTTTTT/CTTTTT	CATGATGGAAACATG GGTG	CAGTGGCGTTGGTTAG CATA	59.8	540	INTERGENIC	--	--	--
Ca6_P2_6335705	Ca6	6335705	TTATATATATATATATATATATATA/ TTATATATATATATATATATATA	TGGTTGTTCTTGCTC CCC	TCAACATTGCGTGGGA TAAA	59.9	792	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_6409588	Ca6	6409588	TTATATATATATATATAT/TTATATATATA TATATATATATAT	TCCACGGCCTCTTGTG TTAT	AGAGCAAGCAAGTTGG TGGT	59.9	581	INTERGENIC	--	--	--
Ca6_P2_6411336	Ca6	6411336	AAT/AATAT	ATCTCGTGGTGCAACA ATCA	TTTGGGAAGGGTCAAG AAAA	59.5	628	INTERGENIC	--	--	--
Ca6_P2_6411391	Ca6	6411391	AATTTATTTATTTATTTAT/AATTTATTTA TTTATTTATTTATTTAT	ATCTCGTGGTGCAACA ATCA	TTTGGGAAGGGTCAAG AAAA	59.5	628	INTERGENIC	--	--	--
Ca6_P2_6447647	Ca6	6447647	TTATATATATATATATAT/TTATATATA TATATATATATATAT	TAATTCGTGCGTCGTAT GGA	TTTTCATCAATAACATT GAGCG	57.9	219	INTERGENIC	--	--	--
Ca6_P2_6481871	Ca6	6481871	AATATATATATATATATATATAT/AATA TATATATATATATATATAT	AGCTGGGCCTGACTCA ACTA	TGAGATGTGGCAGCAA AAAG	60.0	458	INTERGENIC	--	--	--
Ca6_P2_6501623	Ca6	6501623	TAAAAAAA/TAAAAAAA	CAGTGGAAATAACTCA TGGA	AGCTCCAATAAGGGGC TCAT	60.1	442	INTERGENIC	--	--	--
Ca6_P2_6583135	Ca6	6583135	ATTTTTTTTTT/ATTTTTTTTTT	TACGCGGATACGGGTT ATGT	AGGACAAATGTGGGAA TTGG	59.6	421	INTERGENIC	--	--	--
Ca6_P2_6613313	Ca6	6613313	GTTTTTTTTTT/GTTTTTTTTTT	ATAACGCATCCATTCTT GCC	TGTTTTCTTCTTCTCCA TGTCG	59.4	495	INTERGENIC	--	--	--
Ca6_P2_670058	Ca6	670058	ATT/AT	TCATTTCCGCAAAACTT GAA	CCGGAAAACTTCATTC CAA	59.9	507	INTERGENIC	--	--	--
Ca6_P2_67019	Ca6	67019	TTATATATATATATAT/TTATATATATATA TATAT	TCATCATCAGCAGAGCA AGG	ACGCATCGATAACCAA TTCC	59.8	728	DRR	Ca_26377	--	--
Ca6_P2_6730589	Ca6	6730589	GTATATATATATATATATAT/GTAT ATATATATATATATATAT	TTGCAGAACCAAAACAG AACC	TGGGGTTAGGGTGTC ACAT	60.1	561	INTERGENIC	--	--	--
Ca6_P2_6747248	Ca6	6747248	TAA/TAAA	ACATGATAACCAATGCG GGT	GGGGGTTGAAACGAGG TATT	60.1	509	DRR	Ca_16935	--	NF-YA

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_6856085	Ca6	6856085	TAAAAAAAAA/TAAAAAAAAA	GGTGCCATTCTTTTG GTG	AAATGCAACATGAAC GACA	60.0	530	INTERGENIC	--	--	--
Ca6_P2_6862212	Ca6	6862212	A/AGAATGAGTTAT	TGATGATGAGAGCGA GACA	GGTGGAGCTGTTTATT GGGA	59.9	198	INTERGENIC	--	--	--
Ca6_P2_6918472	Ca6	6918472	ATGGGTAGGGT/ATGGGTAGGGTTGG GTAGGGT	TTGTTCCGCAATTGATT TGA	TGATACCAAGAGGGT ACGG	59.8	333	INTERGENIC	--	--	--
Ca6_P2_6922172	Ca6	6922172	T/TA	CCGCTGTTAGACATTC CAT	ACCAACCAACCAAA CCAA	60.1	495	INTERGENIC	--	--	--
Ca6_P2_6954085	Ca6	6954085	ATACTAAT/ATACT	ACAGCTTCGAACCTGCA CCT	GCATTCAGTGGTCCAA TG TG	60.0	482	INTRON	Ca_09688	--	NF-YB
Ca6_P2_697724	Ca6	697724	CATATATATATATATATATATATAT AT/CATATATATATATATATATATAT ATATAT	GACCTGCACATATTGG GCCT	TGACAAAAGAGTGAAA AAGGAAA	59.3	586	INTERGENIC	--	--	--
Ca6_P2_7064019	Ca6	7064019	GAAAAA/GAAAAA	CAAGATTCATCTCAGG GGGA	CGGAAGAAAACCTGCCT CTTG	60.0	603	INTRON	Ca_09676	--	--
Ca6_P2_7092194	Ca6	7092194	TAAA/TA	TAAAGACGTTGCACCG TTGA	CCGGGAACGACCTTC TATT	60.3	356	INTERGENIC	--	--	--
Ca6_P2_7094961	Ca6	7094961	CTATATATATATATATATATAT/CTATAT ATATATATATATATATATA	AAAAATACCGATGTGAT ATGCTTT	TCAAGTTTGACATCTCC CCC	59.9	586	DRR	Ca_09673	--	NAC
Ca6_P2_7105201	Ca6	7105201	TGG/TG	AAATTGCCAACACATGC TCA	GGGTACGCAAGGATTC GATA	59.9	483	INTRON	Ca_09672	TU	--
Ca6_P2_7198625	Ca6	7198625	TAAAAAAAAA/TAAAAAAAAA	TGCAATTTTCGAAATG TGTT	TGTATACGAGGGGTGG GAAA	60.2	464	DRR	Ca_09664	--	--
Ca6_P2_7202825	Ca6	7202825	ATTTTTTTTT/ATTTTTTTTTT	TGGTACGATCTTTGAC AGTTTG	TGTGTCAATTTGTTG CGTGA	60.0	533	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_7254332	Ca6	7254332	AATATATATATATATATATATAT/AATA TATATATATATATATAT	TCACAGTCAAGCACGT CTCC	AGGGTTGGGTTGTGT CAAA	60.2	708	INTERGENIC	--	--	--
Ca6_P2_7343632	Ca6	7343632	ATTTTTTTTT/ATTTTTTTTT	CTGAGTCGGTATCGCC AAAT	AGGGCTTTCCAAAAGG TGTT	60.0	600	INTRON	Ca_09645	--	--
Ca6_P2_7353319	Ca6	7353319	CAAAAAAAAA/CAAAAAAAAA	AAGCTTGTGGAGGAGC ACAT	CCGGTGAGACCTTTGG ATAA	59.9	520	INTERGENIC	--	--	--
Ca6_P2_7373908	Ca6	7373908	TTATATATATATATATATATAT/TTATA TATATATATATATATATAT	GGAAAGGCTTCACAAA GCTG	TAGCCCCCTCTGCTCA TAGA	59.9	696	DRR	Ca_09643	Q	--
Ca6_P2_7505796	Ca6	7505796	CATATATATATATATATATAT/CATATAT ATATATAT	AGGGCATTGACGAAC ACAT	CATTAAGTCTATCACGA GTTTAACCA	58.0	508	INTERGENIC	--	--	--
Ca6_P2_7548995	Ca6	7548995	ATTTTTTT/ATTTTTTTT	ATTTCTCAACAGGGTG GTGC	GATCGCAAGGGATGAT GAAT	59.9	667	INTERGENIC	--	--	--
Ca6_P2_7550030	Ca6	7550030	GTTTTTTTTT/GTTTTTTTTT	CCAATCCCAAAACCTTC GTA	GCACAATCCATTCCACT CCT	59.9	549	INTERGENIC	--	--	--
Ca6_P2_7550207	Ca6	7550207	TAAAAAAAA/TAAAAAAAA	AACTCACCTCACGCCTC AGT	GCACAATCCATTCCACT CCT	59.9	237	INTERGENIC	--	--	--
Ca6_P2_7553596	Ca6	7553596	T/TG	TTGATAGGGCAACTCC CTTG	TTTCACCTCGCTGGCT ATCT	60.0	590	INTRON	Ca_09627	S	--
Ca6_P2_7555065	Ca6	7555065	GGTCTA/GGTCTAGTCTA	GGCATCAACCCCTTTT AAT	TATCCAAGCTGGGAAT GGAG	60.0	746	INTRON	Ca_09627	S	--
Ca6_P2_7557330	Ca6	7557330	A/AT	ATGGAAAGTGACATCTC GGG	GTTGAGAGGAAAAATG GGCA	60.1	377	INTRON	Ca_09627	S	--
Ca6_P2_7557886	Ca6	7557886	ACC/ACCCAAGTAACCC	GCCCATTTTCTCTCTCA ACA	ATGAGCACTTCTCCATT CCG	60.2	335	INTRON	Ca_09627	S	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_7561689	Ca6	7561689	CTTT/CTTTT	AGCGAACTTCTGCTG CTTC	TTGTTAGGGGTTTGA TTGC	59.8	624	INTRON	Ca_09627	S	--
Ca6_P2_7562409	Ca6	7562409	ATTTT/ATTTT	GCAATCAAACCCCTAA CAA	ACATGCCATCCACAGC TTTT	60.5	835	INTRON	Ca_09627	S	--
Ca6_P2_7568051	Ca6	7568051	GACTAA/GACTAACTAA	TGGGGGAACTTTGCT ACAC	TTTTGACCCATGAGGA GACC	59.9	615	INTRON	Ca_09627	S	--
Ca6_P2_7571538	Ca6	7571538	TAA/T	TGCTTGTAAGGTAGGG GTGC	AGCAAGGGACATGATG GAAG	60.1	897	INTRON	Ca_09627	S	--
Ca6_P2_7572118	Ca6	7572118	CTTTTTTTT/CTTTTTTTT	CTTTGCTAAGGGCGTTT GAG	CCCATGCAAAAGATT GGTT	59.8	536	INTRON	Ca_09627	S	--
Ca6_P2_7572241	Ca6	7572241	TAAAAA/TAAA	CTTTGCTAAGGGCGTTT GAG	CCCATGCAAAAGATT GGTT	59.8	536	INTRON	Ca_09627	S	--
Ca6_P2_7579531	Ca6	7579531	CTTTTTTTT/CTTTTTTTT	AGCTCGTCTCACATTGC CTT	TCTTAAGTCTGGCCCC TTCA	59.8	298	DRR	Ca_09627	S	--
Ca6_P2_7586160	Ca6	7586160	GTT/GTAAAATTT	GCACCTCTTGACCAT CAAT	ACAGTGTCAGTGCCTA CCCC	60.0	454	INTRON	Ca_09626	C	--
Ca6_P2_7587509	Ca6	7587509	CTTATGAGTTATGA/CTTATGA	GTGTGATGAAGGATTC GCCT	AACTTCGGACAATCGC AACT	59.7	377	INTERGENIC	--	--	--
Ca6_P2_7587680	Ca6	7587680	ATTTTTT/ATTTTTTTT	GTGTGATGAAGGATTC GCCT	GATGAGACTTTTCCCTA GCCTT	58.1	842	INTERGENIC	--	--	--
Ca6_P2_7587896	Ca6	7587896	TTT/TTTAATT	AGTTGCGATTGTCCGA AGTT	GATGAGACTTTTCCCTA GCCTT	58.1	485	INTERGENIC	--	--	--
Ca6_P2_7588189	Ca6	7588189	TT/TTGCAT	AAGGCTAGGGAAAAGT CTCATC	GCTCTCAGTTGAATAG CACGG	60.0	504	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_7589247	Ca6	7589247	GAAAAA/GAAAAAA	CGCCAGTTGTACACGT CTGT	CACCACCTTCAACATCA TCG	60.0	861	INTERGENIC	--	--	--
Ca6_P2_7590191	Ca6	7590191	ATTTT/ATTTTATTTT	TGGTGATAGCAGTGGT TGGA	AACCGCTCACCTTTTAC CAA	59.6	863	DRR	Ca_09625	--	ERF
Ca6_P2_7591375	Ca6	7591375	GAAAA/GAAAA	ACCACCTAAAGGGATC CTCC	ATTCATTTGGGAGGCC TTTT	59.8	637	DRR	Ca_09625	--	ERF
Ca6_P2_7592871	Ca6	7592871	GAAGAAA/GAAGAAAGAAA	AGCACGAAAGTTTCCAC CAG	AGAGACGGTATCCGGT GTTG	60.0	646	INTRON	Ca_09625	--	ERF
Ca6_P2_7593280	Ca6	7593280	CAAA/CAAAA	CCTTCTTGCTGGCATT AGC	TGGCTTAAAGAGATCG GTGC	60.4	477	INTERGENIC	--	--	--
Ca6_P2_7598528	Ca6	7598528	GTATTATTG/GTATTATTGAGTTATT ATTG	TTAAGCAGGGTTTGGT GGTC	TGTGACTACCTCCTCC CCAC	60.0	283	INTRON	Ca_09624	R	--
Ca6_P2_7600052	Ca6	7600052	CTT/CTTT	GTGCCCCAACAGAAAT GACT	AATGAGGAATTATGCA CCCG	59.8	869	INTRON	Ca_09624	R	--
Ca6_P2_7604010	Ca6	7604010	TAA/TA	GATGTTTCAAATGCCAT CCC	AGTGGTGAGCTGGAGC ATCT	60.0	379	INTRON	Ca_09624	R	--
Ca6_P2_7606703	Ca6	7606703	ATT/AT	TTTCGTGGCATGGAATA CAA	CCAAAAATTTGCCAGC AGTT	60.1	597	INTRON	Ca_09624	R	--
Ca6_P2_7607076	Ca6	7607076	TT/TTGCTTCACCCCCCT	CATGTGCATGAAATGG AAGG	GCTAATGCACGTGAAG CAAA	60.0	654	INTRON	Ca_09624	R	--
Ca6_P2_7607462	Ca6	7607462	CTTTTTTT/CTTTTTTTTT	TTTGCTTCACGTGCATT AGC	TATCCAGAAATGGGAG TCGG	59.9	495	INTRON	Ca_09624	R	--
Ca6_P2_7609442	Ca6	7609442	CTTT/CTT	GTGCGCACCATAGTTG ATTG	CAATTGTTTCATGCGTTG GTC	60.0	515	DRR	Ca_09623	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_7628122	Ca6	7628122	TAAAA/TAAAAA	TTTTCAGAAAGTTTGC GAC	TGAATTTTCATGCTCTA GCCAA	59.9	637	DRR	Ca_09619	R	WOX
Ca6_P2_7632106	Ca6	7632106	A/AACT	CGCTTTTGTGTTGAGT GTGA	GGAAAAATGTGAAATC CAAAAA	58.0	930	INTERGENIC	--	--	--
Ca6_P2_7634031	Ca6	7634031	TT/TTCT	ACGAGGCACCGACATG TAAT	AATTTGCACATATCACG CCA	60.0	506	INTERGENIC	--	--	--
Ca6_P2_7638878	Ca6	7638878	GAA/GAATTAA	TGGTCCTAGGATGATA GATGTTTG	TTGGATGTCAACAATGT ACACG	59.4	510	INTERGENIC	--	--	--
Ca6_P2_7641770	Ca6	7641770	G/GA	AGCGAATCACTCGAGC AAAA	AAGAACGAAGAAAGGT CGCA	60.0	865	INTERGENIC	--	--	--
Ca6_P2_7643266	Ca6	7643266	G/GT	TTGCATTCCATAAACAC GGA	TGATCAGATAGATATGT TGACCGA	58.6	695	INTERGENIC	--	--	--
Ca6_P2_7643356	Ca6	7643356	ATTTTTTT/ATTTTT	TTGCATTCCATAAACAC GGA	TGATCAGATAGATATGT TGACCGA	58.6	695	INTERGENIC	--	--	--
Ca6_P2_7643792	Ca6	7643792	ATTTTTTTTTTT/ATTTTTTTTT	CAATTGTCAACATGACC CTTAAA	TGCCCGGATTTTTATTT TCA	60.3	720	INTERGENIC	--	--	--
Ca6_P2_7644118	Ca6	7644118	ATTTTTTTTTTT/ATTTTTTTTT	CCAGAGGTTGAATCAAT GAGA	GAGGAAGCACGAACGA AGTC	60.0	674	INTERGENIC	--	--	--
Ca6_P2_7650831	Ca6	7650831	TG/TAAG	ACCTGCACACTGAATT CAC	GAAACCAAACTACTTC CAAGTGAA	60.0	738	DRR	Ca_09618	--	--
Ca6_P2_7650926	Ca6	7650926	ATTTTTTTTT/ATTTTTTTTT	ACCTGCACACTGAATT CAC	GAAACCAAACTACTTC CAAGTGAA	60.0	738	DRR	Ca_09618	--	--
Ca6_P2_7658418	Ca6	7658418	TTAAAAATAAAAAAT/TTAAAAATAAAAAAT AAAAAT	AGATCAGCCGCAGAAT TTGT	CACCCGTGAAACTGTT GATG	60.0	606	DRR	Ca_09616	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_7660694	Ca6	7660694	GAATT/GAATTCATTCTAACAATT	AGGACGAAGAGTTGAA GCCA	AATGTCGTAAGGGGCA CAAA	60.4	766	INTERGENIC	--	--	--
Ca6_P2_7663071	Ca6	7663071	TAAAAAA/TAAAAAAA	TAAACGTGCGTTTGTT GAA	CGAGGGTGTGTTGTT GTTG	60.0	682	INTERGENIC	--	--	--
Ca6_P2_7685952	Ca6	7685952	AATATATATATATATATATAT/AATA TATATATATATATAT	CAGCGCCATAGTTGAG CATA	GGGTGGTGTGGAGTC ATTT	59.7	591	INTERGENIC	--	--	--
Ca6_P2_7708884	Ca6	7708884	AAGAG/AAG	CTCATCACACTGGGCA AATG	TGTTCAATTCGAATGCC AAA	59.9	983	INTERGENIC	--	--	--
Ca6_P2_7711932	Ca6	7711932	ATTTTTTTTT/ATTTTTTTTT	ATTAAGCGGGTGCAGG TATG	TCAGTGCATGTAATCT CTTGGG	60.3	610	INTERGENIC	--	--	--
Ca6_P2_7733221	Ca6	7733221	TAAAAAA/TAAAAAAA	TGGGCAGAACCCACTA ATTT	CTATAGATGCCCTTG GCCT	60.4	923	INTERGENIC	--	--	--
Ca6_P2_7784665	Ca6	7784665	ATCTTTTCTTTTCTT/ATCTTTTCTT	AATGCGGGAATTGCTTA CAC	CCAAACGAATAACCCA CCAC	60.1	522	INTRON	Ca_09599	--	--
Ca6_P2_7800996	Ca6	7800996	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATT	CGGCATGTACACAAGT CTGAA	TGATGCATCCCTCAGC ATAA	60.2	748	INTERGENIC	--	--	--
Ca6_P2_7807533	Ca6	7807533	TAAAAAA/TAAAAAAA	AGACACAGACCCTC GACT	CAAATGCGCAGTGACA ATCT	59.9	865	INTERGENIC	--	--	--
Ca6_P2_7861860	Ca6	7861860	AACCTCAGGCA/AA	GGAGGCGTTGACAATA GTGAT	TATTTGGCGTCGTCTG TCTG	59.9	616	INTERGENIC	--	--	--
Ca6_P2_7912887	Ca6	7912887	GTT/GTTTT	CCTTGAAGCTTCTCCA TCA	CTCCCTCTCTGTGGT TTGG	59.7	896	INTRON	Ca_09584	U	M-type
Ca6_P2_7949811	Ca6	7949811	AATATATATATATATAT/AATATATATA TATATATATATATAT	GGCATTGGCAGAGTGT GAC	GTTCGAAATGCCGATT TTCT	59.2	584	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_7961982	Ca6	7961982	A/AAT	CGTTGCAGTGCTTTG TTTA	TTGGGAAGAAAGTTG GAGA	59.6	841	INTERGENIC	--	--	--
Ca6_P2_7998659	Ca6	7998659	TATCATATTAT/TATCATATTATCAATCA TATTAT	TGGTCCAGTGATACC AAAA	CCATTTAAACGCACAAC CAA	59.5	709	DRR	Ca_09575	--	--
Ca6_P2_8032854	Ca6	8032854	AATATATATATATATATATATATATATATAT/ AATATATATATATATATATATATATATATAT ATAT	TTGCAATACTTTATCCT AGAGCCC	TGGTGAGGGCATCAAT TTTT	60.3	929	INTERGENIC	--	--	--
Ca6_P2_8085419	Ca6	8085419	ATA/ATACAGTTTA	TTTCCCCGTAGACACT GAC	TGATAAAAAGACGGAA TCTTTCAA	59.2	565	DRR	Ca_09563	C	--
Ca6_P2_8098214	Ca6	8098214	TGAGAGAGAGAGAGAGAGAGAGAGAGAGAG AGAGAG/TGAGAGAGAGAGAGAGAGAGAGAG AGAGAGAGAGAGAGAG	GCCGAAATTCTCAAGAC CAA	AAACGGATAACAACCG GAAA	59.3	588	INTERGENIC	--	--	--
Ca6_P2_8130986	Ca6	8130986	TTATATATATATATATATATATATAT/TTA TATATATATATATATATATATATATATATAT	CATCAAAAGCAGTGGTT CAGAG	CTCGGGTTTTGTGA TGTT	59.8	589	INTERGENIC	--	--	--
Ca6_P2_8153548	Ca6	8153548	ATTTTTTTTTTT/ATTTTTTTTTTT	AAGAGCAACACCACCT CGTT	AACGTCGCACTAAAC AGAAAA	59.0	677	INTERGENIC	--	--	--
Ca6_P2_8153671	Ca6	8153671	ATTTTTTTTTTT/ATTTTTTTTTTT	AAGAGCAACACCACCT CGTT	GGTCGAAATTACATCG ACAAAA	59.0	928	INTERGENIC	--	--	--
Ca6_P2_8179395	Ca6	8179395	GAAAAAAAAA/GAAAAAAAAA	TCCGGTACAAAAGCTTA AAAATG	TAAGCTCGTTGGGCTG AAGT	60.0	287	INTERGENIC	--	--	--
Ca6_P2_8254638	Ca6	8254638	TTATATATATATATATATATATATATA TA/TTATATATATATATATATATATATA TA	TGTACCGAAAAATAG TTGC	TTGTGACGATTCTCCG TTGA	60.2	810	INTERGENIC	--	--	--
Ca6_P2_8312848	Ca6	8312848	ATTTTTTTTTTTTTTT/ATTTTTTTTTTT TTTT	GGATCTTTTGCCGAA TCA	TTGTTTATGCACATTT AGTCAATCA	59.8	753	INTERGENIC	--	--	--
Ca6_P2_8313713	Ca6	8313713	GTTTTTTTTT/GTTTTTTTTTT	TTTGACAATCTCATGTT TTGCAG	GGGTCAAAAAGTGTGC AGGT	60.0	730	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_8524922	Ca6	8524922	TTATATATATATATATATATATAT/TTA TATATATATATATATATATAT	CGCGTTAACAGAGGAG GAAG	TATTTGGATTTTGGCT CGG	59.9	408	INTERGENIC	--	--	--
Ca6_P2_8527284	Ca6	8527284	AATATATATATATATATAGATATAT ATATATATATAAATATATATATATATA TATATAGATATATATATATATATA	TATCACCTATCAGAGCG GGG	TTTGTCTTTCTCGCCC ACT	59.9	691	INTERGENIC	--	--	--
Ca6_P2_8527351	Ca6	8527351	AATATATATATATATATATATATAT ATATATAT/AAATATATATATATATAT ATATATATATATATATAT	TATCACCTATCAGAGCG GGG	TGGAAGGAGCCCTTAC CTTT	60.1	956	INTERGENIC	--	--	--
Ca6_P2_8557817	Ca6	8557817	TGAAGAAGAAGAAGAAGAAGAAGA AGAAGAAGAAGAAG/TGAAGAAGAAGA AGAAGAAGAAGAAGAAGAAGAAGA AGAAG	TTTGGAGACCAATGGT GACA	CTCCGTTTGTAGCGCA AAAT	60.3	783	INTERGENIC	--	--	--
Ca6_P2_856623	Ca6	856623	AATATATATATATATAT/AAATATATA TATATATATAT	AATCAAAGCATGGGAG GATG	TTTTGGTACAAGAGAC GTGTCAA	59.7	384	INTERGENIC	--	--	--
Ca6_P2_8569570	Ca6	8569570	GTTTTTTTTT/GTTTTTTTTT	ATTGATCATCACGCGCA ATA	ATAGAACGTGCGCTCC AATC	60.2	182	INTERGENIC	--	--	--
Ca6_P2_8763905	Ca6	8763905	TTATATATATATATATATATATA/TTAT ATATATATATATATATATATATATA	TTTAGATTGAGACGATG CAAATC	TTCAAATGCCCACTTCT TGTT	59.6	608	INTERGENIC	--	--	--
Ca6_P2_8774210	Ca6	8774210	ATTTTTTTTT/ATTTTTTTTT	TCCGAACCTTCTGTGCG GTT	TACACATTCCGGCGAC ATAA	60.0	375	INTERGENIC	--	--	--
Ca6_P2_8796336	Ca6	8796336	TGGG/TGGGG	TGCATTTCAAGCTCTCA TGC	GGGCTTACCAAAAGCA GACA	60.2	375	INTERGENIC	--	--	--
Ca6_P2_8796967	Ca6	8796967	A/AG	GCCAAACAATAGTTGAA ACCAA	AACGTTACGCATGAAC CTCC	60.0	588	INTRON	Ca_16754	E	--
Ca6_P2_8809776	Ca6	8809776	GGTG/GG	TGTGCATTGAGTGCTG CATA	GGAAGCCACTCATCTT TTGG	59.7	739	INTRON	Ca_16753	--	--
Ca6_P2_8904663	Ca6	8904663	GATATATATATATATATATATATAT ATATATAT/GATATATATATATATATAT ATATATATATAT	TGAATTGCTTCGAACCT GTG	TGCATTCAAGCTCTCA TGC	60.1	465	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_8924425	Ca6	8924425	AATATATATATATATATATATA/AAAT ATATATATATATATATATA	ATTGGCATATTCTCG TCG	TTCATGGGTCTTGCA TGA	60.0	419	INTERGENIC	--	--	--
Ca6_P2_8994011	Ca6	8994011	ATTTTTTTTT/ATTTTTTTTT	CCACCACCATCTCCG TAA	CATTTTAAAGTCCGC GAA	60.1	312	INTERGENIC	--	--	--
Ca6_P2_9014214	Ca6	9014214	CA/CAA	TACTGGGTGTCTGG GTGA	AGCTGCACGCAGACT TAAA	59.8	441	INTERGENIC	--	--	--
Ca6_P2_9038672	Ca6	9038672	TAA/TA	ATGGGCGTGACTTTG AGAC	GTTAAGCATTCACCC CGAA	59.9	623	INTERGENIC	--	--	--
Ca6_P2_9039255	Ca6	9039255	TAAAAAAAAAAAAA/TAAAAAAAAA AAA	TTCGGGGTGAAATGC TAAC	TGCATTGTCCATAGTT GTGA	60.0	635	INTERGENIC	--	--	--
Ca6_P2_9091526	Ca6	9091526	A/ACAT	ATCGCCGCAATAATG AGC	GGCCGAAATGATGTG AAAT	59.8	715	INTERGENIC	--	--	--
Ca6_P2_9130006	Ca6	9130006	ATGATTTGATTTGATTT/ATGATTTGAT TGATTTGATTTGATTT	ATTGTGATCGGAGATC GAGG	AAATGTGGTGGAGGCT TGTC	60.0	400	INTRON	Ca_08684	O	Nin-like
Ca6_P2_9203559	Ca6	9203559	G/GTTATATT	TCGTGAAATAGTGGAC GGTG	TGAACATCAAAATGCC CAAA	59.9	763	DRR	Ca_08676	OT	--
Ca6_P2_9244568	Ca6	9244568	CT/CTGATAAT	TCTCATCCTTTGTCTTC CCA	CCTGTTCAATGTTTTA TAAGCG	60.0	523	INTERGENIC	--	--	--
Ca6_P2_9257795	Ca6	9257795	TAAAAAAAAAAAAA/TAAAAAAAAA AAA	GCATCCTCGGAAATTT CAA	CACGACAAGTCTCGTG GCTA	60.0	352	INTERGENIC	--	--	--
Ca6_P2_9403873	Ca6	9403873	AATATATATATATA/AAATATATATAT ATATA	TTTTGTCGAATGATAG TTTGA	TAGCGTCCGAATCTTT CGT	59.8	891	INTERGENIC	--	--	--
Ca6_P2_9453580	Ca6	9453580	T/TAACAG	CACTAGCGTGACCCAA CAGA	GGTTGTGAAATGTTG GGGG	59.9	553	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_9455389	Ca6	9455389	ATTTTTTTTTT/ATTTTTTTTTT	TCCATCTACGTGTGATT CTCG	TCAAAGTCATGCACAT GATAACC	59.9	443	INTERGENIC	--	--	--
Ca6_P2_9472058	Ca6	9472058	CAAAAAAAAA/CAAAAAAAAAA	TTCATTGGTTCTCCCT TCG	TGTTTAGTACTTTTCCC AATGCC	59.4	498	INTERGENIC	--	--	--
Ca6_P2_9472610	Ca6	9472610	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	GGCATTGGGAAAAGTA CTAAACA	TTGCTAGATGCACGTG TG TG	59.5	418	INTERGENIC	--	--	--
Ca6_P2_9606829	Ca6	9606829	TAAAAAAAAAAAA/TAAAAAAAAAAAA AA	CGCTACATGAACCTTGT CACTCA	AAAGGTGATGGTCGAA GGTG	60.0	567	INTERGENIC	--	--	--
Ca6_P2_9647578	Ca6	9647578	GTTTTTTTTT/GTTTTTTTTT	AACCTCTCCATCCCTTT CTT	ACACTGATAGGAGGGG GAGG	60.3	576	DRR	Ca_08633	S	--
Ca6_P2_9657366	Ca6	9657366	TTATATATATATATATAT/TTATATATA TATATATATATATATAT	TCACCACAGATATTTTC CATGTG	GACAAATGATGGTGGT GTGC	59.8	627	INTERGENIC	--	--	--
Ca6_P2_965905	Ca6	965905	TAAAAAAAAAAAA/TAAAAAAAAAAAA	GGCCAGACAACCGTAG TGAT	CCTTTGGCCACACACC TATT	59.9	503	INTERGENIC	--	--	--
Ca6_P2_9665233	Ca6	9665233	AATATATATATATATAT/AAATATATATA TATATATATAT	TGGACGGATTGAGAAA ATTG	TGAAGCATGTTTGTTT TTCC	60.0	634	INTERGENIC	--	--	--
Ca6_P2_9666064	Ca6	9666064	TAT/TACTAT	TATAAGGGAGGATGGG GCTC	TGCATGTTGTCCTTCCA AAA	60.1	656	INTERGENIC	--	--	--
Ca6_P2_9717623	Ca6	9717623	AATATATATATATATATATATATA/AA ATATATATATATATATATATATATA TA	AAAATTCGGATTCA CCG	AGAGCTCTTGCTCGCT TTTG	60.0	593	INTRON	Ca_08621	O	--
Ca6_P2_9738973	Ca6	9738973	GAAAAAAAAA/GAAAAAAAAA	TTGTGGAGATCCAAAC CGAT	AACCCCATACACCAT GCTC	59.7	821	CDS (FRAME SHIFT)	Ca_08617	--	--
Ca6_P2_9740823	Ca6	9740823	GGT/GGTGATGGTGT	TATCCAGCAAGAATCTG CCC	ACCCGCACCGTGATAT AAAA	60.2	205	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_9825990	Ca6	9825990	AGATAAATAAATTGTGATAAATAA/AGATAAATAA	TCCCTAAATTACTGAA GTGGCA	TTTCAAAGAACCCTCGT GCT	59.9	816	INTERGENIC	--	--	--
Ca6_P2_9873238	Ca6	9873238	GTTCAAC/GTTCAACTTCAAC	AACGTGTGAACCGAGAC AGGG	AACATCGACCGGATTT AACG	59.8	544	INTRON	Ca_08602	F	--
Ca6_P2_9875753	Ca6	9875753	GC/GCCCAACTC	GATCCATTGGTGAGTG GCTT	AGCAACGGTAACATCC CAAG	60.0	390	INTERGENIC	--	--	--
Ca6_P2_9875933	Ca6	9875933	TG/T	GATCCATTGGTGAGTG GCTT	AGCAACGGTAACATCC CAAG	60.0	390	INTERGENIC	--	--	--
Ca6_P2_9876828	Ca6	9876828	TAAAAAAA/TAAAAAAA	CCCATTTTCAATATATG AAGAAAA	TGAACACGTGTGAAAA CTGTAA	58.3	794	INTERGENIC	--	--	--
Ca6_P2_9877106	Ca6	9877106	TAAAAAAA/TAAAAA	AACAACATTTGATAAA AGCTTCA	CGGGTTCAAAAAGATA GAATGC	60.0	529	INTERGENIC	--	--	--
Ca6_P2_9877756	Ca6	9877756	TT/TTTTATATATATAT	GCATTCTATCTTTTGA ACCCG	CACGCGAAGTTTCAAT TTTCT	59.4	636	INTERGENIC	--	--	--
Ca6_P2_9878889	Ca6	9878889	TAAA/TAAAA	TTCATATGCATCGCATC ACA	TGCTGCTTGTCTTGGT GTCT	59.6	715	INTERGENIC	--	--	--
Ca6_P2_9883996	Ca6	9883996	CAAA/CAAAA	CCAACCTTTTAACGCAG TGCT	TTTCATTACCGCTCAAA GGC	60.2	831	INTERGENIC	--	--	--
Ca6_P2_9884658	Ca6	9884658	AT/ATGT	GCCTTTGAGCGGTAAT GAAA	TCGGAAATTTGGAGTC AAGC	60.2	716	INTERGENIC	--	--	--
Ca6_P2_9884782	Ca6	9884782	AG/A	GCCTTTGAGCGGTAAT GAAA	TCGGAAATTTGGAGTC AAGC	60.2	716	INTERGENIC	--	--	--
Ca6_P2_9884860	Ca6	9884860	TAAAAAAA/TAAAAA	TGGTGAAGGGGTGTT TCTT	TCGGAAATTTGGAGTC AAGC	60.2	525	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_9890136	Ca6	9890136	CTTTTTTTTT/CTTTTTTT	AGTCTTCCACGTTGGT GTCC	CCTTCTTCAGCCAAC CAA	60.2	381	INTRON	Ca_08601	--	FAR1
Ca6_P2_9893223	Ca6	9893223	GTTTT/GTTTTT	CCGAATCATGGAAGGA GAGA	TCGTAAAGGCCTAAAC AAATTGA	60.0	347	INTERGENIC	--	--	--
Ca6_P2_9893250	Ca6	9893250	TAA/TAAA	CCGAATCATGGAAGGA GAGA	AACCGCGAAACTTCATT CAC	60.1	774	INTERGENIC	--	--	--
Ca6_P2_9894814	Ca6	9894814	T/TA	AAATTTCGAAACGCGAG AGA	GGATCTTGCAACGTGG ACTT	60.1	391	DRR	Ca_08600	O	--
Ca6_P2_9897013	Ca6	9897013	GTTTT/GTTT	AATAACCTCCAGCACA CCG	GGGCGAGAGTATGGAA ACAA	60.1	546	INTRON	Ca_08600	O	--
Ca6_P2_9900963	Ca6	9900963	CATGAT/CAT	ATGTTGCCAAGGCAGA GAGT	TCGTGAGGCATCACA ACTA	60.4	928	INTERGENIC	--	--	--
Ca6_P2_9902770	Ca6	9902770	GCTTGAC/GCTTGACTTGAC	GATGCATCGACGACTT CAAA	AGAGACCAGGCCAAAT CCAA	59.7	358	INTERGENIC	--	--	--
Ca6_P2_9903379	Ca6	9903379	ATTT/ATTTT	TTCGATGTTGCCTAGTC CCT	GTCGTCGAGGCATCAA AACT	60.3	230	INTERGENIC	--	--	--
Ca6_P2_9906992	Ca6	9906992	CA/CAA	ACCGAGTTGGCCATATT GAG	TCCAACCAAAAGGAGA CAAAA	59.6	642	INTERGENIC	--	--	--
Ca6_P2_9907397	Ca6	9907397	TTTGT/TT	TCGTTTAGCAACCAACC CTT	ATTGAAAGGCTTGCCA GTTG	60.2	785	INTERGENIC	--	--	--
Ca6_P2_9907994	Ca6	9907994	AAAGATA/AA	TAGAACCAACTGGCAA GCCT	TCCCAATTAAAGGCA CAGC	60.1	377	INTERGENIC	--	--	--
Ca6_P2_9915789	Ca6	9915789	TAAAAAA/TAAAAAAA	CGTGCATTGGAATTTC CAC	TTTCGTCCCGAATGTC TTC	60.1	933	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca6_P2_9921426	Ca6	9921426	A/ATT	GCGAGGATAGAACGGA AGTG	GGTTTGAGCCTCACCC AATA	59.9	782	DRR	Ca_08598	--	G2-like
Ca6_P2_9922566	Ca6	9922566	A/AT	CCCTCCCTTCCCTCCT AAT	TGGCAAGAGTGATGGT TTCA	60.2	444	DRR	Ca_08598	--	G2-like
Ca6_P2_9925899	Ca6	9925899	CATTATTATTATTATTATT/CATTATTATT ATTATT	CCAATTTTGGTGTTCCT CCT	GGTGAGGACACTTCAA TGGG	60.4	448	INTERGENIC	--	--	--
Ca6_P2_9935421	Ca6	9935421	AG/A	TTCATTTCCGTTGCAAA ATG	AATGAAGAATTTGAGC GCGT	59.9	381	INTERGENIC	--	--	--
Ca6_P2_9935576	Ca6	9935576	CGAGAAAAACAGAGAAAA/CGAGAAAA ACAGAGAAAAACAGAGAAAA	TTCATTTCCGTTGCAAA ATG	AATGAAGAATTTGAGC GCGT	59.9	381	INTERGENIC	--	--	--
Ca6_P2_9935612	Ca6	9935612	AAGAGAGAGAGAG/AAGAGAGAGAGAG AG	TTCATTTCCGTTGCAAA ATG	AATGAAGAATTTGAGC GCGT	59.9	381	INTERGENIC	--	--	--
Ca6_P2_9938320	Ca6	9938320	CTTTATT/CTT	TGTGCCATTGTCCTG TATT	TTTGGGTCAATCTCCG ACTC	60.1	654	INTRON	Ca_08597	--	LBD
Ca6_P2_9940076	Ca6	9940076	GTTTTT/GTTTTTTT	TGGAGTCGAGATTGCT GTTG	CCTCATCCTTGCACTC CAAT	60.1	474	INTRON	Ca_08597	--	LBD
Ca6_P2_9940148	Ca6	9940148	TA/T	TGGAGTCGAGATTGCT GTTG	CCTCATCCTTGCACTC CAAT	60.1	474	INTRON	Ca_08597	--	LBD
Ca6_P2_9941271	Ca6	9941271	CA/C	GCTGCTGACCACTTGA ATGA	GGGAGAGAGGCTTGG CTTAT	59.8	428	DRR	Ca_08597	--	LBD
Ca6_P2_9945871	Ca6	9945871	TAAAAA/TAAAAAAA	ACATGAACCTCCATTGC AGC	TTGGTCAAACCCCTATT TTG	57.5	647	INTERGENIC	--	--	--
Ca6_P2_9947291	Ca6	9947291	GAA/GAAATTCAAA	TACAAAAACGTGAGCC GACA	GTGACGATGTTGTCC ACAC	60.0	401	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_9947644	Ca6	9947644	AAA/AAAGAGAA	ACATGACCATCACATCA CGG	CGAACTTTTGGAAATG CAAC	58.3	519	INTERGENIC	--	--	--
Ca6_P2_9948376	Ca6	9948376	CAA/CAAA	TGGGGTGCAGTAGTA AACC	ATCACCAACAAATATGT GTCTCA	57.0	612	INTERGENIC	--	--	--
Ca6_P2_9949349	Ca6	9949349	TAAAAAAAA/TAAAAAAAA	AGAATATCAACAATGCG CCC	TCTCGTGAAAAATAAGT TGTTTGG	59.6	619	INTERGENIC	--	--	--
Ca6_P2_9949754	Ca6	9949754	ATTT/ATTTTTTTT	TGAGAGAGAATCAATT GTGTTTT	CGAGGCACATAGATTG AGCA	60.0	446	INTERGENIC	--	--	--
Ca6_P2_9950518	Ca6	9950518	AT/ATCT	CAACTCAAACCCAAATT CGTC	AATGAAGCAAGGAGGA GCAA	60.0	937	INTERGENIC	--	--	--
Ca6_P2_9951654	Ca6	9951654	GAGCTAG/GAG	TCCATCAAAACGAAGG GCTA	TGCATGACACACACAA CACA	59.1	655	DRR	Ca_08595	--	--
Ca6_P2_9953522	Ca6	9953522	GGTTGTTGTTGTTG/GGTTGTTGTTGTT GTTG	TCTTGTGCTTGACACA GGC	CCCACGTTAGGTCCTT TCAA	60.0	663	CDS (large-effect mutations)	Ca_08595	--	--
Ca6_P2_9954555	Ca6	9954555	TAAAAAAAA/TAAAAAAAA	GGCGACTTTGGACCAA CTTA	TGCAAAATTGGATGA CGAA	60.1	625	INTERGENIC	--	--	--
Ca6_P2_9956035	Ca6	9956035	TA/T	CCTCATGCGTCCCTTA ATTT	GAAGCAACTCTAATCC CCTCC	59.2	350	INTERGENIC	--	--	--
Ca6_P2_9956388	Ca6	9956388	TG/TGG	CCTCATGCGTCCCTTA ATTT	TTAGCGTCCAATTACC GTCC	60.0	738	INTERGENIC	--	--	--
Ca6_P2_9957991	Ca6	9957991	TAAAAAAAA/TAAAAAAAA	TTAGAGTTAATTTGATG GACAGTGA	AAAATTAAAAAGTGCTA AGAGCAAA	57.3	525	INTERGENIC	--	--	--
Ca6_P2_9958115	Ca6	9958115	TT/TTTATAATGT	TGTCTATCAATGTCATA TTTTGTTTCA	TACCTGAGTGGAAACG GAGC	60.3	932	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_9958234	Ca6	9958234	ATT/ATTT	TTTGCTCTTAGCACTTT TTAATTTT	CATTGAACAAGACGCG AGAA	60.0	530	INTERGENIC	--	--	--
Ca6_P2_9958366	Ca6	9958366	GA/GAA	TTTGCTCTTAGCACTTT TTAATTTT	CATTGAACAAGACGCG AGAA	60.0	530	INTERGENIC	--	--	--
Ca6_P2_9958396	Ca6	9958396	AATA/AA	TTTGCTCTTAGCACTTT TTAATTTT	CATTGAACAAGACGCG AGAA	60.0	530	INTERGENIC	--	--	--
Ca6_P2_9958600	Ca6	9958600	TTCTCTCTCTCTCTCTC/TTCTCTCTCTC TCTC	GCTCCGTTTCCACTCA GGTA	GCAAATTGAGGGAGGA AACA	60.1	112	INTERGENIC	--	--	--
Ca6_P2_9959023	Ca6	9959023	ATTTTTTT/ATTTTTTTTTTTT	TTCTCGCGCTTGTTC ATG	TGCCCCACTCTGTTTC TTC	60.2	605	INTERGENIC	--	--	--
Ca6_P2_9960680	Ca6	9960680	TAAA/TAAA	TGTGGAAGTGATGGGA GACA	CTTGTGCGATGTGCT CAAA	59.8	557	DRR	Ca_08594	O	--
Ca6_P2_9961842	Ca6	9961842	CAAAAA/CAAAAA	ACGTTTTCGAATTGGCT CAT	AGAAATCATTGTCGG TTCC	59.0	366	DRR	Ca_08594	O	--
Ca6_P2_9962967	Ca6	9962967	ATTTTTTT/ATTTTTTT	GTAAAGCCATGGAGAC ACGG	GTGGATCGGTCCGTTA AAAA	59.8	814	INTERGENIC	--	--	--
Ca6_P2_9965315	Ca6	9965315	CAAAAA/CAAAA	AATGTGGTACTGTGGA GCCAT	GCCAGCTATTGTCCT AATCA	60.2	415	INTERGENIC	--	--	--
Ca6_P2_9965643	Ca6	9965643	CTT/CT	TGATTAGGCACAATAGC TGGC	CGTGGATGCCTCTCT TCAT	60.2	490	INTERGENIC	--	--	--
Ca6_P2_9965671	Ca6	9965671	AT/ATTT	TGATTAGGCACAATAGC TGGC	CGTGGATGCCTCTCT TCAT	60.2	490	INTERGENIC	--	--	--
Ca6_P2_9975230	Ca6	9975230	ATTAATTTTT/ATT	GAACAACGTTAATGGTT TGGTTT	TGGTGTGGGAAGTTA GGGG	59.8	923	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca6_P2_9975490	Ca6	9975490	ATTT/ATTT	TTCCAAAAACACAGGT GCTT	TGGTGTTTGGAAGTA GGGG	59.8	296	INTERGENIC	--	--	--
Ca6_P2_9979477	Ca6	9979477	ATTTTT/ATTTTTTT	GGAGTGCCGTTGTGT ACTT	TACAGCTTGAATTTGC GACG	60.0	409	INTERGENIC	--	--	--
Ca6_P2_9986431	Ca6	9986431	TAAAAA/TAAAAAA	CACTGTCTCGCCTATAG CGTT	GAAGGAATTGCTTGGG TCAA	60.1	113	INTERGENIC	--	--	--
Ca6_P2_9986749	Ca6	9986749	CAAAAAAAAA/CAAAAAAAAA	CCCAAGCAATTCCTTCA TTT	TCGATATTTTCCGTTT CAAAATC	59.4	392	INTERGENIC	--	--	--
Ca6_P2_9986831	Ca6	9986831	CAATG/C	CCCAAGCAATTCCTTCA TTT	TCACCACACAATCAAAC CCA	60.8	840	INTERGENIC	--	--	--
Ca6_P2_9987106	Ca6	9987106	CA/CAA	TTGACATCAAAATTCGA CAACA	TCACCACACAATCAAAC CCA	60.8	337	INTERGENIC	--	--	--
Ca6_P2_9987153	Ca6	9987153	TTATATATATATATATA/TTATATATATAT A	TTGACATCAAAATTCGA CAACA	TCACCACACAATCAAAC CCA	60.8	337	INTERGENIC	--	--	--
Ca6_P2_9987352	Ca6	9987352	TAAAAAA/TAAAAAAA	TGGGTTTGATTGTGTG GTGA	AAGCACGCATACAAC GTTAGA	57.7	273	INTERGENIC	--	--	--
Ca7_P2_10007202	Ca7	10007202	TG/T	CGCAACATCTCTTTACA CCG	AAACCATAACACTCGCA GCC	60.1	853	INTERGENIC	--	--	--
Ca7_P2_10007294	Ca7	10007294	ATTTT/ATTT	CGCAACATCTCTTTACA CCG	CGGTATTTTGTCAGC CCTA	60.0	913	INTERGENIC	--	--	--
Ca7_P2_10010264	Ca7	10010264	GATATA/GATATATA	TCACTATTGGGAGCCA CACA	GCTGGTGACAATCAAA CACAA	59.6	464	INTERGENIC	--	--	--
Ca7_P2_1001512	Ca7	1001512	GTATATAT/GTATATATAT	GGATCCTCTCCCTCTG CTCT	ATCATTTATGGGCCTC CCTC	60.1	325	DRR	Ca_03377	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10016031	Ca7	10016031	CAAA/CAAAA	TAAAAACGCGTACCGAA TCC	GTCGGCTTTTCAAGCA ACTC	60.0	588	DRR	Ca_12767	--	MYB_related
Ca7_P2_10017106	Ca7	10017106	ATTCAT/ATTCATTTTCAT	TCAAGATTTTCATGCGTC TCG	GATCGAAGGTGTGTCC TGGT	60.0	878	INTRON	Ca_12767	--	MYB_related
Ca7_P2_10020104	Ca7	10020104	ATTG/A	TGGAATGACGTGTGAA TCGT	GCATATGCTAAGGTGC CCAT	60.0	631	INTERGENIC	--	--	--
Ca7_P2_10021053	Ca7	10021053	TTATTTTCTA/TTA	TCATACAGCGAATGTAA ATTTTG	GCGGTCTTGACAACAC AGTT	58.8	686	INTERGENIC	--	--	--
Ca7_P2_10022517	Ca7	10022517	AG/A	TTCGTGAACATCCATCC AGA	GTTTTAAAGGCCCGGT TTGT	60.2	736	INTERGENIC	--	--	--
Ca7_P2_10023253	Ca7	10023253	CAATATAAAT/CAATATAAATATAAAT	ACAAACCGGGCCTTTAA AAC	TTTTTGATATTGTGTTT GTTTGG	58.9	624	INTERGENIC	--	--	--
Ca7_P2_10029126	Ca7	10029126	A/AC	GCGCAAAAGTCGAAGA AAAG	TTTGTGCACATGTTTT GCT	60.2	390	INTERGENIC	--	--	--
Ca7_P2_10029788	Ca7	10029788	AA/AATA	CATTTTTCTTGACGGGT TGC	GGATTTGACCGTTGA AAAA	59.8	823	INTERGENIC	--	--	--
Ca7_P2_10054141	Ca7	10054141	A/AC	TCATTTTTCTTTGAACCT CACCC	CACGGTTTAGGTGTGA CTTTTTC	60.0	624	INTERGENIC	--	--	--
Ca7_P2_10054219	Ca7	10054219	TA/TAAA	TCATTTTTCTTTGAACCT CACCC	CACGGTTTAGGTGTGA CTTTTTC	60.0	624	INTERGENIC	--	--	--
Ca7_P2_10054767	Ca7	10054767	A/AGTT	GAAAAAGTCACACCTAA ACCGTG	CTTCTTCGGTTGCAC TCTC	60.0	297	INTERGENIC	--	--	--
Ca7_P2_10056746	Ca7	10056746	TAAAAA/TAAAAA	TTTTTGGCGTGACAGA GATG	TTGCCTAGTCAAAATG GGC	60.1	508	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10058702	Ca7	10058702	A/AC	TCGCTTTCAAAATGAG CAA	TTATAGGGCCAGCTTG GTTG	60.1	519	INTERGENIC	--	--	--
Ca7_P2_10060696	Ca7	10060696	CAAAAAAAAA/CAAAAAAAAA	GCTGACTCTACGAGGA AAGGG	CAGATGACTAATGGTC GACAACA	60.0	429	INTERGENIC	--	--	--
Ca7_P2_10061798	Ca7	10061798	AT/ATATT	CGCACCTTTCAAGCAT GTTA	CGCAAGAAATGTCATG TGGT	59.6	627	INTERGENIC	--	--	--
Ca7_P2_10063257	Ca7	10063257	TTAATAATAATAATAA/TTAATAATAA TAATAATAATAA	GATGCGACGATCTGAA ACAA	AAATGACAGCGAGAGG ATGG	60.2	713	INTERGENIC	--	--	--
Ca7_P2_10063307	Ca7	10063307	ATAAATTAAATTAAAT/ATAAATTAAATT AATTAAAT	GATGCGACGATCTGAA ACAA	AAATGACAGCGAGAGG ATGG	60.2	713	INTERGENIC	--	--	--
Ca7_P2_10063890	Ca7	10063890	ATAT/ATATTTAT	CCATCCTCTCGCTGTCA TTT	TTGTATTTGGTTGCTGA TCTCG	60.1	204	INTERGENIC	--	--	--
Ca7_P2_10080991	Ca7	10080991	ATGTGTGTGTGT/ATGTGTGTGT	ATAGAATGTCGCCCC ACTT	TGTGCACGAAAAAGGA ACAA	60.3	846	INTERGENIC	--	--	--
Ca7_P2_10081167	Ca7	10081167	ATAA/ATAACTTTAA	GCTCTAGCGCATTGG TTCT	TTGAACACGTGTCTTG CACA	59.9	844	INTERGENIC	--	--	--
Ca7_P2_10081345	Ca7	10081345	GGT/GGTATGT	TGATCATGTGCTCCAAC ACTC	CCACGGCTGCATACAT ACAC	60.0	820	INTERGENIC	--	--	--
Ca7_P2_10084978	Ca7	10084978	AA/AATTGGACGTCCA	CATTGTTGGTTTTAATT GGTGG	CTCTGGGAGCTTCGTT TTTG	60.0	403	INTERGENIC	--	--	--
Ca7_P2_10090561	Ca7	10090561	AG/A	TGCCCATCTTTTCTTGC TCT	TTGGCGGAGGTTGTAT AATG	58.5	707	DRR	Ca_12772	S	--
Ca7_P2_10094301	Ca7	10094301	C/CA	TGCCTTTTCGAGACGTT CTT	GCCAGTTGCTCATTCA TTCA	59.8	534	DRR	Ca_12773	T	C3H

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_10095472	Ca7	10095472	CT/CTT	GTTCCCTCATGTTCCAC AGC	GGATGCCACTGGTTGA GTTT	60.0	437	CDS (FRAME SHIFT)	Ca_12773	T	C3H
Ca7_P2_10102985	Ca7	10102985	ATTTT/ATTTT	TAACGACAAATGCGATC ACC	TCAATCTTTCTCTTCCC CCTT	59.2	819	INTERGENIC	--	--	--
Ca7_P2_10106066	Ca7	10106066	ATTTT/ATTT	GCAGAAATGTGCGAAA CAGA	TTTGGGCCTATCTTTGT TGG	59.9	267	INTERGENIC	--	--	--
Ca7_P2_10109342	Ca7	10109342	TAAAA/TAAAAA	TAAAGTAATCCACAGCC GGG	CGTTTGACCATCCCTC TCAT	59.9	589	INTERGENIC	--	--	--
Ca7_P2_10111639	Ca7	10111639	TGG/TG	AAATGATTTTCATGGTA ATGGAAT	GAAGCAACTGTATCGT GGGG	60.5	494	INTERGENIC	--	--	--
Ca7_P2_10112519	Ca7	10112519	GAGAAAGAAAA/GAGAAAGAAAAATAA GAAAGAAAA	GGCCGACCCAAGAATT AGAT	TGTTGCTTTTCCCAA TCA	59.1	923	INTERGENIC	--	--	--
Ca7_P2_10113662	Ca7	10113662	TAAAAAAAA/TAAAAAAAAAAAAA	GGAACCTCAAGTCAA GGAA	TTGGTTCCTCAAAGT GGAC	59.9	478	DRR	Ca_12774	--	ERF
Ca7_P2_10119011	Ca7	10119011	TTTT/TTTTCTTT	TTTGGCCCGACTTATCT TTG	TAAATCAGCGGTTTT GGTC	59.9	516	INTERGENIC	--	--	--
Ca7_P2_10128467	Ca7	10128467	ACTGTTACG/A	GACTGGTGCCATTGTT GATG	TTTTGTTGGCCCTACA GCTT	59.7	810	INTERGENIC	--	--	--
Ca7_P2_10128958	Ca7	10128958	TATTGTAT/TATTGTATCATTGTAT	CGGCAGTTCCTGAATT TGT	GCATTTGGTCTCAA CTGAA	60.1	705	INTERGENIC	--	--	--
Ca7_P2_10129752	Ca7	10129752	TTC/T	AAACACATGCATTCCCT CAA	GAACATGAGAGGCCCA CAAT	59.9	387	INTERGENIC	--	--	--
Ca7_P2_10132597	Ca7	10132597	GTTTTT/GTTTTTTT	AACGGTGGCCAAGACA GAAT	GGGATATTCATTAATAA CCGAAA	58.4	496	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10133998	Ca7	10133998	TA/T	ATCTTCGCATCGTATT GCT	GAAATCAATGTGGAGG GTCAA	59.8	473	INTERGENIC	--	--	--
Ca7_P2_10138374	Ca7	10138374	AAA/AAAGTTGAAACAA	CTACCCCTTCTTTTGTG CCA	TCCACCACTACTTTCA CCG	58.6	551	DRR	Ca_12775	--	ERF
Ca7_P2_10138812	Ca7	10138812	TAA/TA	GCTAGATGGTGACTCG TGAGG	ATGGGATAGCCTATAC GGGG	60.0	700	DRR	Ca_12775	--	ERF
Ca7_P2_10141008	Ca7	10141008	TAAAAAA/TAAAAAAA	ACAACACCCCAATC AAT	TCGTTGGAGAACATCA TGACA	60.1	264	INTERGENIC	--	--	--
Ca7_P2_10141057	Ca7	10141057	TAAAAA/TAAA	ACAACACCCCAATC AAT	TCGTTGGAGAACATCA TGACA	60.1	264	INTERGENIC	--	--	--
Ca7_P2_10152656	Ca7	10152656	TTATATATAT/TTATATATATATATATA TAT	TTTCGGAGTAGGAGAA GCCA	TTGGATGCGTCGATGT TAAA	60.1	456	DRR	Ca_12777	I	--
Ca7_P2_10159464	Ca7	10159464	TAAAAAA/TAAAAAAA	TGCAATGGGCGTAGTT TTAC	CAACTAGTGAAATCTT TTGTCACG	59.3	715	INTERGENIC	--	--	--
Ca7_P2_10182507	Ca7	10182507	AC/ACTTC	AGCTTGATTGCTGCCAA AGT	CCGTCGGGTGAAAAAT CTTA	59.9	478	DRR	Ca_12779	--	--
Ca7_P2_1018603	Ca7	1018603	TAAAAAA/TAAAAAAA	TTGCAACATGATAGCT GCC	GCGATCTTTACGGGA ACAA	60.1	254	INTERGENIC	--	--	--
Ca7_P2_1018745	Ca7	1018745	C/CT	TTGCAACATGATAGCT GCC	TTGTTGGCATTGTTGT GGTT	59.9	467	INTERGENIC	--	--	--
Ca7_P2_1018777	Ca7	1018777	ATTGCAT/ATTGCATATTGCAT	TTGTTCCCGTAAAAGAT CGC	TTGTTGGCATTGTTGT GGTT	59.9	233	INTERGENIC	--	--	--
Ca7_P2_10192729	Ca7	10192729	TTTTTTTCATATA/TTTTTTTCATATAATG TTTTTTTCATATA	CCCATTCCGAATACATT GCT	GAGTTGGGTGCACGAT TTTT	60.0	624	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10194004	Ca7	10194004	ATAATTAATT/ATAATT	TTGCTCGATAGAGTTAA ATTCCG	CATTTGCCAAGTTTTCA TTTTT	58.2	672	INTERGENIC	--	--	--
Ca7_P2_10194722	Ca7	10194722	T/TTA	GACGTCGAAAGTTAC AACAAA	ACGAGGCTTTGACCTT CAGA	60.0	559	INTERGENIC	--	--	--
Ca7_P2_10200659	Ca7	10200659	AGGTGGT/AGGT	GGCATGTTGTCATGACT TGG	AAAGTGTGGTGACGA GGGC	60.0	735	DRR	Ca_12780	I	--
Ca7_P2_10203003	Ca7	10203003	TAAAAAAAA/TAAAAAAAAAAAA	CCATTATCCACCCTCAA GGA	AATGGGTCTCCAATC CCTC	60.1	104	INTERGENIC	--	--	--
Ca7_P2_10203081	Ca7	10203081	CATATATAT/CATAT	AGAGGGAATTGGAGAC CCAT	CAGCGATATATTTTATT TCATTCGTG	60.1	434	INTERGENIC	--	--	--
Ca7_P2_10203846	Ca7	10203846	ATTTTTTTT/ATTTTTTTT	CACGAATGAAATAAAT ATATCGCTG	TGCAACAAAAGTCATC CCA	60.1	554	INTERGENIC	--	--	--
Ca7_P2_10204089	Ca7	10204089	CTTTTT/CTTTTTT	GATGGGATGACTTTTGT TTGC	GGTTTGTCCCGTGAG TGTT	59.9	475	INTERGENIC	--	--	--
Ca7_P2_10208171	Ca7	10208171	GAAA/GAAAA	GCATGATGTGGGAGAG GAGT	CAAACTCTCCAAAAGG CAGC	60.0	482	DRR	Ca_12782	TU	bHLH
Ca7_P2_10208734	Ca7	10208734	CTT/CTTT	CGAGACCTTGCTCAGG AAAC	CAAATTCGAGGACAGC CAAT	60.1	505	DRR	Ca_12781	R	Nin-like
Ca7_P2_10209363	Ca7	10209363	TAAAAAAAA/TAAAAAAAA	CATTGGCTGTCTCGA ATTT	GGCTGAATGAAATTGA CCGT	59.9	569	DRR	Ca_12781	R	Nin-like
Ca7_P2_10209541	Ca7	10209541	GAAAA/GAAAA	ACGTTGGTGGCATTTTT AGC	GGCTGAATGAAATTGA CCGT	59.9	289	DRR	Ca_12781	R	Nin-like
Ca7_P2_10211297	Ca7	10211297	ATT/ATTT	AGGAGACATGACTTGC CCAC	TGATGCCAACACATGC ACTA	59.7	665	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10213506	Ca7	10213506	AAAAT/A	ACCGGTATCAGAGATC GTCG	TGGATTTACATAAATT CCGTC	58.8	639	INTERGENIC	--	--	--
Ca7_P2_10214018	Ca7	10214018	AATGTATATATATTATGTATATATTAT /AATGTATATATATTAT	TCTCACCTAAAGTAAAG TGACGGA	AAACAAGTGCTTTCGTT GGAA	59.8	741	INTERGENIC	--	--	--
Ca7_P2_10215771	Ca7	10215771	TG/TGG	GGACAAAATCGGGAGT CAAA	CGGTGCATATCCGTTT TCTT	60.0	423	DRR	Ca_12783	G	--
Ca7_P2_10216972	Ca7	10216972	GG/GGGATG	GTCCCGATCAGTGTCA CCTT	AACCGACACATGCGAT TACA	60.0	205	INTRON	Ca_12783	G	--
Ca7_P2_10218097	Ca7	10218097	CT/C	CAGCAAGTATCCCCCA AAA	TGACCAATTTTGGGTT GTG	59.3	621	INTRON	Ca_12783	G	--
Ca7_P2_10224235	Ca7	10224235	CTTTTTTTT/CTTTTTTT	TGAGCTGTGTCCAAGG AGTG	AAACATAAGGGGAGG GGG	60.0	625	INTRON	Ca_12784	U	B3
Ca7_P2_10224561	Ca7	10224561	AT/ATGTT	GCAGAAATCCCGCAG TAAA	GCAGCATGCAAAACT AGCA	60.2	851	INTRON	Ca_12784	U	B3
Ca7_P2_10226164	Ca7	10226164	GCA/GCACA	CAATGAAGAACTCCGC ACAA	GCTCATCACGCAATA CCAA	59.7	821	INTRON	Ca_12784	U	B3
Ca7_P2_10228426	Ca7	10228426	AATATATTATA/AATA	CAATCAGTCGATTGTCA CGG	GGGAAAAGGAATGGTA GGCT	59.4	707	DRR	Ca_12784	U	B3
Ca7_P2_10239039	Ca7	10239039	AAAAATAAAATAAAATAAA/AAA AATAAAATAAAATAAAA	GAAACCTACGTAACGG GCAA	GAAACGGAAAATCCGT CGTA	59.9	741	INTERGENIC	--	--	--
Ca7_P2_10240534	Ca7	10240534	TTTATTATTATTATT/TTTATTATTATTAT TATT	CGTGTTCCTTATATTT GCCG	AATCTCAAAATGCCCA CTT	58.5	629	INTERGENIC	--	--	--
Ca7_P2_10241206	Ca7	10241206	TAAAAAAA/TAAAAAA	TCCCACTATATAAGAG TATATCTGCC	AATTAATTGCAATGCAC CGA	59.0	931	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10247426	Ca7	10247426	AT/ATATTT	TTCAATCACCTTAACCTT TGATCG	TTTAAAGAAATTATGTA CGATGTCCAA	59.3	579	INTERGENIC	--	--	--
Ca7_P2_10248684	Ca7	10248684	TTAATAATAATAATAA/TTAATAATAA TAATAA	TTGATTGCAATTTTGAT CCTTC	CCTCCAAACCCTTTCA TTT	60.2	624	INTERGENIC	--	--	--
Ca7_P2_10249569	Ca7	10249569	A/AT	TATACGCCGCAAAATTAG GCT	TCGCAAACACTTTTCC CAT	60.5	381	INTRON	Ca_12786	K	GATA
Ca7_P2_10255436	Ca7	10255436	GTTATTTTCAT/GTTATTTTCATTTATTT AT	TTGAGAGAATTTGGCAA CCC	CCTTTGGACACGGACC TCTA	60.1	418	DRR	Ca_12786	K	GATA
Ca7_P2_10259782	Ca7	10259782	AGT/AGTGT	TTGAGAGAGTTTAGG ACCACAA	CACACCACACAAAACA ACAACA	60.4	790	INTERGENIC	--	--	--
Ca7_P2_10260220	Ca7	10260220	TTTTATTTATTT/TTTTATTTATTTA TTTATTT	GATGATCAATCCTAACA TGCGA	AAGTCCCCGCACCTCT ACTT	60.1	486	INTERGENIC	--	--	--
Ca7_P2_10286825	Ca7	10286825	CG/CGG	ACGTTTTCTGTGCTGG ACC	ACACATCCCTTCCTCC CTCT	59.9	548	INTERGENIC	--	--	--
Ca7_P2_10289954	Ca7	10289954	TA/TAA	TGACACGGTACAAGGT GGAA	ATGGAATGTGTTAGCC CTGC	60.0	870	INTERGENIC	--	--	--
Ca7_P2_10297700	Ca7	10297700	CTATATATATATAT/CTATATATATATA TATAT	CCGAGACGATTAAAGTT GTGA	TCATTGCGCGTTGACTT ACA	60.3	689	INTERGENIC	--	--	--
Ca7_P2_10300077	Ca7	10300077	AATATATATTATATATATAT/AATATAT AT	TCCTATTCTATCGCTT CGCA	GCAAATCCAACAAGGC ATTT	59.9	736	INTERGENIC	--	--	--
Ca7_P2_10300634	Ca7	10300634	GGTAG/GG	AAATGCCTTGTGGATT TGC	CATTTTCATGCTCACACC AGG	60.1	423	INTERGENIC	--	--	--
Ca7_P2_10300942	Ca7	10300942	TTTA/TTTACTTA	CATGCGATTGTCATACC TGG	GCCGATGAGAAACAAC GAAG	60.8	716	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10305212	Ca7	10305212	TAAAAAAAAA/TAAAAAAAA	TTGTGGTTTGCAGAGT TCA	TGACTGAACCTCAAGC ATGG	59.8	263	INTERGENIC	--	--	--
Ca7_P2_10305542	Ca7	10305542	CATATATA/CATATA	TCACCATGCTTGAGGTT CAG	TGATAGTCACCTTCAAC CACTCA	59.6	599	INTERGENIC	--	--	--
Ca7_P2_10313209	Ca7	10313209	TAATTTCTAAATTTCTAAATT/TAATTTCT AAATT	TTTCCATGCATTGATCT CCA	TCCCTAAGATGCATTC GTCC	60.0	620	INTRON	Ca_12794	A	--
Ca7_P2_10318177	Ca7	10318177	CACA/CACATTGAACA	TCAGGGCAAAGACATG AAAA	GTATCCCGCTATCCCG ATTT	60.1	607	INTRON	Ca_12794	A	--
Ca7_P2_10318262	Ca7	10318262	C/CG	TGAATCTGCAATGCCAA TGT	GTATCCCGCTATCCCG ATTT	60.1	306	INTRON	Ca_12794	A	--
Ca7_P2_10339253	Ca7	10339253	AAACAAAA/AAACAAAAAGAACAAAA	GAAGCATCCCCATTGAA AGA	GGTGCATTTTGTCAAC TCCT	60.0	549	INTRON	Ca_12794	A	--
Ca7_P2_10343265	Ca7	10343265	TAAAAAA/TAAAAAA	AAGCGCCTTCTTTTAG TTAACA	TGATCAAATGGAAGGA CAAAAA	59.4	132	INTERGENIC	--	--	--
Ca7_P2_10351925	Ca7	10351925	CATATATATAT/CATATATATATAT	TTGTGTGGTATCAAGCC CAA	AAGCTAAAGCCTCCTC GGTC	60.0	663	DRR	Ca_12795	--	--
Ca7_P2_10355595	Ca7	10355595	T/TC	AACTGGACCACCACAC ATGA	GAGTGGACTTTTGAGC TGGC	60.0	202	INTERGENIC	--	--	--
Ca7_P2_10357519	Ca7	10357519	TTATATATATATATATATATATATA/TT ATATATATATATATATA	GTCCAAAAAGTCCACTCC GAA	GTGGCCTCCAGTACCA CATT	59.9	509	INTERGENIC	--	--	--
Ca7_P2_10365934	Ca7	10365934	ATTTTTTTTT/ATTTTTTTTT	CAGGACAAGACGTCCA ACCT	CCTCCTTCTCCTTCTCC TCC	59.4	416	DRR	Ca_12796	E	--
Ca7_P2_10368248	Ca7	10368248	AAAG/AAAGAAG	AAGTAAATGTGGGACT GGGG	CCCACTTATACCTCCCA CCA	59.7	689	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10395585	Ca7	10395585	GGA/G	TGGGTTTGACGAAAGG AGAG	CTGGATCGTGGGACTC CTAA	60.1	559	INTERGENIC	--	--	--
Ca7_P2_10396287	Ca7	10396287	TAAA/TAAAA	TGACAAATAAGCTAAGC GTGC	TCGAGGTCAATTTACC ATCAAT	59.7	413	INTERGENIC	--	--	--
Ca7_P2_10401211	Ca7	10401211	TG/T	GAATCGAACCGGTTTT AGT	AACTTCCGCTCTCCCA AAAT	60.1	809	INTERGENIC	--	--	--
Ca7_P2_10405924	Ca7	10405924	TC/TCC	ATTGCTGGTTGGCAAG GTAG	CCATAATCACATTGCG GGAT	60.6	669	INTRON	Ca_12799	T	--
Ca7_P2_10409274	Ca7	10409274	TA/TAA	GGTCGTGTTCAAATCTC CGT	CGGTCATGGGATTAGG AGAA	59.9	387	DRR	Ca_12799	T	--
Ca7_P2_10410969	Ca7	10410969	ATTT/ATTTTT	AAGAACAGGAGGCGTG CTTA	ATTAGTCCCCGTGTCA GTGC	60.0	459	INTRON	Ca_12800	S	--
Ca7_P2_10411487	Ca7	10411487	AG/A	GCACTGACACGGGGAC TAAT	AAGAAAAGGCACAATG CCAC	60.1	600	INTRON	Ca_12800	S	--
Ca7_P2_10415974	Ca7	10415974	T/TTATA	GACATTGACATATGGA GGCG	TGCTTCTGCCCTTTTCT GTT	60.0	743	INTERGENIC	--	--	--
Ca7_P2_10416341	Ca7	10416341	TTTAACA/T	TCTATTGCAGGGCAGA GCTT	GAGGATGGCTGGATCG TAAA	60.0	181	INTERGENIC	--	--	--
Ca7_P2_10416935	Ca7	10416935	TTGCCT/TT	TTTACGATCCAGGCATC CTC	CCGTCATCAATCATAA TTCA	58.3	635	INTERGENIC	--	--	--
Ca7_P2_10416998	Ca7	10416998	AG/AGG	CCGACAAACATATTCAA GCCA	CCGTCATCAATCATAA TTCA	58.3	350	INTERGENIC	--	--	--
Ca7_P2_10423937	Ca7	10423937	ATTT/ATTTT	TTCATTCGATGCTGTG ACC	GAGGTGAAGCCTCCAT GTGT	60.1	607	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10424100	Ca7	10424100	TTTCTT/TTT	TTCATTCGATGCTTGTG ACC	GAGGTGAAGCCTCCAT GTGT	60.1	607	INTERGENIC	--	--	--
Ca7_P2_10424287	Ca7	10424287	A/AT	TTCATTCGATGCTTGTG ACC	GAGGTGAAGCCTCCAT GTGT	60.1	607	INTERGENIC	--	--	--
Ca7_P2_10428772	Ca7	10428772	TG/T	GTGGACCATGCCAAG TTCT	CAACACCGATGAAACA AGGA	59.5	286	INTRON	Ca_12802	R	Trihelix
Ca7_P2_10432401	Ca7	10432401	AGGG/AGGGG	CTTACACTGGCCTTTGA GGG	CGGTCTGGCTAGAAAG TTGC	60.0	543	INTERGENIC	--	--	--
Ca7_P2_10433580	Ca7	10433580	TAAAAATAAAAA/TAAAAATAAAAAAAT AAAAA	GACAAGTTTATCGGAG GATGGA	TGCCCATGCAAAAGT TGTA	60.1	436	INTERGENIC	--	--	--
Ca7_P2_10433827	Ca7	10433827	ATCTCT/ATCTCTCT	TACAACTTTTGCAATGG GCA	TGACCATCCAATCGA ATCA	59.9	498	INTERGENIC	--	--	--
Ca7_P2_10434123	Ca7	10434123	AGTTTG/A	TACAACTTTTGCAATGG GCA	ACCCTCTCCTAGATG GGAA	59.9	783	INTERGENIC	--	--	--
Ca7_P2_10439726	Ca7	10439726	AGG/AGGG	TAAGATTCCGCCATTGA AGG	CCAAATTCGTGCAAAG GTCT	60.1	311	DRR	Ca_12804	J	B3
Ca7_P2_10440795	Ca7	10440795	TTA/TTATA	TTTGTTCCTCAACCTC CTG	TTGTGGCAAAGTGAA GCAG	60.0	178	INTRON	Ca_12804	J	B3
Ca7_P2_10441468	Ca7	10441468	TATTGA/T	GGCACCATACGGGTA CCTA	GGCATTGTTGGGAAAT ATGG	60.0	672	INTRON	Ca_12804	J	B3
Ca7_P2_10445254	Ca7	10445254	TGG/TGGG	TGTACTGATGGCTTTGT GGC	CCATTGTTTCAGATTGG CGT	60.9	403	INTERGENIC	--	--	--
Ca7_P2_10446670	Ca7	10446670	AAATCCGTAAT/AAAT	CAAATGCATCAAAACAA CGAA	TGACGGGCACAATAAA TCCT	60.3	478	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10447170	Ca7	10447170	GT/ATATA	AGGATTATTGTGCCG TCA	TGCCTTTGGAAGTGT GGTT	60.5	679	INTERGENIC	--	--	--
Ca7_P2_10449940	Ca7	10449940	AA/AAGA	TTGACTTCACAGGTCA AACAA	CTCCCTCGTGAATGGT GATT	59.9	664	INTERGENIC	--	--	--
Ca7_P2_10456027	Ca7	10456027	AA/AAGTTGA	TCGTGTTGGTGGTGTG TTTT	AAACGTGATAGTTGGA CCCG	59.9	957	DRR	Ca_12805	--	--
Ca7_P2_10459620	Ca7	10459620	TA/T	GATAATGGACCCGCGA CTTA	CGCCATTGAATGACG TATG	60.0	680	DRR	Ca_12806	T	WRKY
Ca7_P2_10460200	Ca7	10460200	CTTTTTT/CTTTTTTT	AATCAAACCGATGGCAA CAT	TGCATCTAGAATGCGA CCAC	59.8	698	DRR	Ca_12806	T	WRKY
Ca7_P2_10462495	Ca7	10462495	TTCTCTCTC/TTCTCTC	CGCAAAACAACTTTTCA GCA	GAGAGCTCTTTGCGAG AGGA	60.0	646	INTERGENIC	--	--	--
Ca7_P2_10464523	Ca7	10464523	CAA/CAAAA	ATTCGGAACAACGCA TCC	GCTGAAGCTGCTCTTG TGTG	59.9	879	DRR	Ca_12807	--	--
Ca7_P2_10466415	Ca7	10466415	ATTT/AT	GAAATCGGCGTAACTT GGA	TGAACAAGCCAAGAGC AATG	60.0	672	INTRON	Ca_12808	--	BES1
Ca7_P2_10468144	Ca7	10468144	AT/ATAGTTACATGTTGCT	TTTTTACAAAGGCGAG GAG	AGGCAACACAAACCA CTCA	59.2	519	INTERGENIC	--	--	--
Ca7_P2_10471583	Ca7	10471583	GAA/GAATCGCTTTTAAAA	ATCTCGGATGGGTTTCT TCA	TTTCATCTCTTCCACTC AACACA	59.8	228	INTERGENIC	--	--	--
Ca7_P2_10473226	Ca7	10473226	TA/TAA	GGTAAACCTCCACCGA AACA	TCCCCAAGTCTTTGATT TGC	60.1	648	DRR	Ca_12809	R	--
Ca7_P2_10474350	Ca7	10474350	AG/AGG	GGACCAAGCTGAATGT GGTT	AGACGGGGTGAAATTG TGAG	60.0	478	INTRON	Ca_12809	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10477066	Ca7	10477066	ATTTATTTGTTATTT/ATTTATTT	TTTCGCCTCAGCTTGAA AAT	GTGGCAATCCGAAGGT TCTA	60.1	779	INTRON	Ca_12809	R	--
Ca7_P2_10482051	Ca7	10482051	TTCTCTCT/TTCTCT	CAAGAGGTAGCAGGCA CACA	TTATGGCTCCGGGTAG ACAG	60.1	383	INTRON	Ca_12810	--	SRS
Ca7_P2_10490031	Ca7	10490031	TC/T	AGAGTTTAAAGTTAATT TTTACGGTTG	TATGCCTCCAAATAGG CCAG	60.1	687	INTERGENIC	--	--	--
Ca7_P2_10508303	Ca7	10508303	ACG/A	TGGCCACAGAGAGGAA GAGT	AAAGTGTGACCGACAT GAATTTT	59.8	594	INTERGENIC	--	--	--
Ca7_P2_10513830	Ca7	10513830	T/TC	TTTGAACACGGGACAA GACA	TCTTGAATTGCATGAAT CGG	59.6	512	INTERGENIC	--	--	--
Ca7_P2_10514949	Ca7	10514949	GAAAAAAAAA/GAAAAAA	CATAGGTGAACGATTC GGTG	TTGCTCCCTTAAAATGA CCG	60.1	781	INTERGENIC	--	--	--
Ca7_P2_10515194	Ca7	10515194	ATTTTTTT/ATTTTTTTT	TGAAGGGTTATCAAGAA ATTTGG	TTGCTCCCTTAAAATGA CCG	60.1	626	INTERGENIC	--	--	--
Ca7_P2_10517472	Ca7	10517472	AATATA/AATA	TTTGGTCTTAAGGTGGT CGC	GGTTCTAGGCATGACA ATGCT	59.2	828	INTERGENIC	--	--	--
Ca7_P2_10517966	Ca7	10517966	TTATATATATATAT/TTATATATATATA T	AGCATTGTCATGCCTAG AACC	ACAGGTAGTCCAGGT GCAG	60.2	382	INTERGENIC	--	--	--
Ca7_P2_10518593	Ca7	10518593	TAA/TACAAAGTAAATAAACAAA	CTCGTCCCTCAAAT GAAA	TTCCCGATCTAAATGCA TGA	59.1	362	INTERGENIC	--	--	--
Ca7_P2_10521949	Ca7	10521949	AATTATTATTATTATTATTA/AATTAT TATTATTATTA	GATGTGGGAAGCGTGT ACCT	ACAAACATAACCCAACC CCA	59.9	460	DRR	Ca_12811	O	--
Ca7_P2_10522026	Ca7	10522026	GA/GAATA	GATGTGGGAAGCGTGT ACCT	ACAAACATAACCCAACC CCA	59.9	460	DRR	Ca_12811	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10552099	Ca7	10552099	CAA/CAA	GCAGCTTCACCCAA AATA	AAACGGGGTTGTCAT CAAA	60.2	139	INTERGENIC	--	--	--
Ca7_P2_10557272	Ca7	10557272	ACCCC/ACCCC	CCCCTTCCCCCTAA TTA	AAAGCCAGGTACAGT GGTG	60.0	579	INTRON	Ca_12813	O	--
Ca7_P2_10557595	Ca7	10557595	CCATCA/CCATCATCA	CACCACCTGTACCTGG CTTT	TATGGACCTGATTAG CCGC	60.1	394	CDS (large-effect mutations)	Ca_12813	O	--
Ca7_P2_10557993	Ca7	10557993	A/ACAC	GCGGCTAATCAGGTC CATA	AAGAAAAGGCGACAG GACA	59.9	685	DRR	Ca_12813	O	--
Ca7_P2_10560006	Ca7	10560006	GTTTTTTTTT/GTTTTTTTTTTT	TTACGTATCTCTGGTG CGA	TCGCGATTGTTGACCT AAAA	59.3	648	INTERGENIC	--	--	--
Ca7_P2_10561905	Ca7	10561905	TAGTG/TAGTGCAAGTG	AATTGGCATCAAGAGG TTGG	CCTTCCCAATTTTCC CAT	60.0	159	INTERGENIC	--	--	--
Ca7_P2_10568493	Ca7	10568493	TTATATATATATATATATATATATAT T/TTATATATATATATATATATATAT	ACGATGGAGGCCAAG TATG	AAAATAAGGCATGGTG TTGGA	59.3	487	INTERGENIC	--	--	--
Ca7_P2_10571824	Ca7	10571824	AATATATATAT/AAATATATATAT	CCAATTGAAAGGCTACC GAA	TATGGCATGACCTGAC CTGA	60.1	306	INTERGENIC	--	--	--
Ca7_P2_10572777	Ca7	10572777	TCTAC/T	TCAAAATGTGACCAGT GAAAC	CCTGGCCCACTTGTC ATAC	60.4	650	INTERGENIC	--	--	--
Ca7_P2_10576573	Ca7	10576573	TTCT/TTCTCT	GCAAGTTTTGTGGT GGTG	ACAATTCCTGTGAAGC CCAC	60.0	620	INTERGENIC	--	--	--
Ca7_P2_10577094	Ca7	10577094	C/CCA	GTTGTGGGCTTCACAG GAAT	AACTCACCATGTCTGTT AAAATGAA	59.0	196	INTERGENIC	--	--	--
Ca7_P2_10579803	Ca7	10579803	ATT/AT	TGACATTATGCCTCAC TAGCC	AATGCTTGTGGGCTG TGGT	60.4	489	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10581860	Ca7	10581860	ATTTTTTTT/ATTTTTTTT	TTTTTCTGGCAATG CAC	CGAGCAATAGGGTGC AACT	60.3	437	INTERGENIC	--	--	--
Ca7_P2_10588577	Ca7	10588577	AT/A	GCAAAATGGCTATCACC GAT	TTGAGTTATCCGTCTC GTCCT	58.8	561	INTERGENIC	--	--	--
Ca7_P2_10589538	Ca7	10589538	TCAA/T	GGTATGTTGAGTAACAA CCCCAA	ACCAAAACATTGTTGCA CGA	60.0	731	INTERGENIC	--	--	--
Ca7_P2_10591717	Ca7	10591717	TAAA/TAAAA	TCTGCTCCAATTAAATG GTGTTT	CACCGTTCCTTCCTGA CAGT	60.2	764	INTERGENIC	--	--	--
Ca7_P2_10598565	Ca7	10598565	CTTTT/CTTTTTT	TTGGTTCTCATGCAAAA TCCT	GTTTCTCATCTTTCCGT CGC	59.8	672	INTERGENIC	--	--	--
Ca7_P2_10599627	Ca7	10599627	TAAA/TAAAA	GGAAGGGGTCCTTAGA ACTG	GACGTCACATCCAAGT CGAA	59.7	651	INTERGENIC	--	--	--
Ca7_P2_10601427	Ca7	10601427	A/AG	TTGTGGGGAATGGAAA TGAT	GTAGGCCGCAAAAGTA CTCG	59.9	644	INTERGENIC	--	--	--
Ca7_P2_10607434	Ca7	10607434	GAAA/GAA	TATATGGAGACCCGTG CCTT	CTCCATTGCTGTTGCTT TGA	60.0	526	INTRON	Ca_12815	O	--
Ca7_P2_10613236	Ca7	10613236	CTTT/CTT	TCCCTCTGAGCTGTATG CCT	GGCAACAAGGTCATCC TCAT	59.9	649	INTRON	Ca_12815	O	--
Ca7_P2_10614347	Ca7	10614347	AC/ACC	TCTTCTTGCTGATCTGC CCT	GACCCCTTGATCTGG TTTA	59.9	255	INTRON	Ca_12815	O	--
Ca7_P2_10615333	Ca7	10615333	TCCCC/TCCCC	GCAATCCGTTATGTG CTT	GAAGCCTTGTTGTTGG GTGT	60.0	266	INTRON	Ca_12815	O	--
Ca7_P2_10617615	Ca7	10617615	AC/ACC	GGTCTGTGTTGGGCTT GTTT	CATGCATAACAGTGGG ATGG	59.8	828	INTRON	Ca_12815	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10620555	Ca7	10620555	CATG/CATGATG	GCAACTGCATCATCTG CTC	TACCCCTGATTCCGT CAAA	60.3	604	DRR	Ca_12815	O	--
Ca7_P2_10626690	Ca7	10626690	CTTTT/CTTTTT	CGGAATCAGAAGGTGG TGTT	CCATCGCAATTAAAGC CAAT	59.9	707	INTRON	Ca_12817	--	--
Ca7_P2_10631008	Ca7	10631008	TAAG/T	GTTCTTCAAAGGCAAG GCTG	TACATGAACCGAGTCC ACCA	60.0	256	INTRON	Ca_12818	U	Trihelix
Ca7_P2_10631442	Ca7	10631442	TTGCAACATGCAACAT/TTGCAACAT	AGAGAGATATGCCTGG CGAA	CTTCAGCAAGGGGAAA ACAA	60.2	136	INTRON	Ca_12818	U	Trihelix
Ca7_P2_10642432	Ca7	10642432	CAAAAA/CAAAAA	TGAGCAATAAACGCTGT TGG	TCATGCACCGATTGTTT TGT	60.0	488	INTRON	Ca_12821	--	--
Ca7_P2_10644308	Ca7	10644308	AT/AATCAATGATTT	TCCCTATGAGGTGGAA GGTG	AATGCCCTAAATGGT TTCC	60.0	743	INTERGENIC	--	--	--
Ca7_P2_10653990	Ca7	10653990	AAAAAACAGAAAA/AAAAA	CCGGCAAATTTATCTGG AAA	TCACAAACGTACAAGC CGAG	59.9	267	INTERGENIC	--	--	--
Ca7_P2_10658151	Ca7	10658151	GAAAAA/GAAAAA	GATACGCGAAACCACC ATCT	AATTTCAAATCGGCTG CAC	60.1	565	INTERGENIC	--	--	--
Ca7_P2_10661646	Ca7	10661646	AGCACGGGCACGG/AGCACGG	TCCTCCAGAGACCAAAA TGG	AGCTCACAAAACCATC GCT	59.9	551	INTERGENIC	--	--	--
Ca7_P2_10672753	Ca7	10672753	TTAT/TT	TGGTGTTGAGATGGGA ATGA	GGATACAAATGTTGGC CCAT	59.5	583	DRR	Ca_12824	--	NF-YB
Ca7_P2_10672818	Ca7	10672818	TCC/TC	TGGTGTTGAGATGGGA ATGA	GGATACAAATGTTGGC CCAT	59.5	583	DRR	Ca_12824	--	NF-YB
Ca7_P2_10673677	Ca7	10673677	TATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA ATAATAATAATAATAATAATAATAA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA ATAATAATAATAATAATAATAATAA	ATGAGTTGGGTTTTCGA AGG	ACGGCAAATTCAGGTC AAAC	60.0	536	DRR	Ca_12824	--	NF-YB

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10673919	Ca7	10673919	GTT/GTTT	GTTTGACCTGAATTGCGT	TGTACGTGTGGAATTGCC	59.4	230	DRR	Ca_12824	--	NF-YB
Ca7_P2_10674157	Ca7	10674157	ATATTTAT/ATAT	GTTTGACCTGAATTGCGT	TAAGAGCCTTGCGCTCTACC	59.8	599	DRR	Ca_12824	--	NF-YB
Ca7_P2_10675722	Ca7	10675722	TTA/T	TGTTAAGGATGCCTCGTCC	GAGAACCCATTCCCCTCAAT	60.1	559	INTERGENIC	--	--	--
Ca7_P2_10676593	Ca7	10676593	TGATCGAT/TGATCGATCGAT	AAAACCGGAGCAACAATTAGA	ACCGGGAAAAGAGTTTGT	59.8	557	INTERGENIC	--	--	--
Ca7_P2_10677544	Ca7	10677544	TGA/TGACGA	TGGGTCCTTGTTCTTACCGT	TGGTCCAATTAATCAAAACA	59.3	610	INTERGENIC	--	--	--
Ca7_P2_10677878	Ca7	10677878	ATT/ATTTT	GAACTCCAAAATCATTTAAGGCA	CAAGTCTAAGCGTTCCTCAA	60.2	867	INTERGENIC	--	--	--
Ca7_P2_10678249	Ca7	10678249	CAAAAAGGAATGAAAA/CAAA	GGCGTGGGAGAGCTTAAAT	TCCCCAACATCAAAATGTT	60.0	461	INTERGENIC	--	--	--
Ca7_P2_10680195	Ca7	10680195	AAA/AAATTAA	CCCCCTATTTCTCGTTACA	ACATTGGCCCCAACATTAAC	59.6	582	INTERGENIC	--	--	--
Ca7_P2_10680712	Ca7	10680712	ATTTTTT/ATTTTTTT	TGGTGGAGGAAGAGGACGTA	TTCATGGTTCACACATTGGC	60.4	497	INTERGENIC	--	--	--
Ca7_P2_10681107	Ca7	10681107	GTAT/GTATATAT	TGGTGGAGGAAGAGGACGTA	TTCCCTCGGTCACAACATT	60.4	801	INTERGENIC	--	--	--
Ca7_P2_10682463	Ca7	10682463	TT/TTTAT	AATAGGCTTTGGCAAACTCG	ATCGGCAAGAGGTAGCATTTG	60.2	659	INTERGENIC	--	--	--
Ca7_P2_10693983	Ca7	10693983	TTAAAGA/T	CTAACAAGCGCCATCCTCTC	TGGCAACATTATTGCGATGT	60.0	359	DRR	Ca_12826	K	MYB

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10694557	Ca7	10694557	TAAA/TAA	TGTGGATTCAACATCG CAA	TGCCAAAATTTAAAGGA CGAA	59.6	582	DRR	Ca_12826	K	MYB
Ca7_P2_10713534	Ca7	10713534	C/CT	TGCAAGCCAAAGTAG AAGG	GGCTAGAGCTAGTTGA ACGCA	59.8	128	INTERGENIC	--	--	--
Ca7_P2_10718905	Ca7	10718905	T/TC	ATTGTTCTGGGCTGCAA ATAG	AGGAATCTTTTGGGGA AGGA	59.9	399	INTRON	Ca_12827	--	--
Ca7_P2_10719000	Ca7	10719000	GTTTTTTTTTTT/GTTTTTTTTTTT	ATTGTTCTGGGCTGCAA ATAG	AGGAATCTTTTGGGGA AGGA	59.9	399	INTRON	Ca_12827	--	--
Ca7_P2_10731505	Ca7	10731505	AAG/AAGAG	CAGAACCTGTCGGGAT TCAT	TCGGCAACTTCAATTC CTC	60.2	417	DRR	Ca_12828	U	M-type
Ca7_P2_10732155	Ca7	10732155	ATTT/ATTTT	ATCGATCTGTTGAACAT GCG	AGAAGTACCCGCGAAG ATGA	59.8	844	INTERGENIC	--	--	--
Ca7_P2_10732290	Ca7	10732290	A/ATT	GCAGTGAAAGAAGAAA TCTCCG	AGAAGTACCCGCGAAG ATGA	59.8	482	INTERGENIC	--	--	--
Ca7_P2_10735677	Ca7	10735677	TA/TACA	GTGCAACAAGCACTTC CAA	TTGCTTATACGGTGCTT CCC	60.1	691	INTERGENIC	--	--	--
Ca7_P2_10741065	Ca7	10741065	AC/ATC	TGCCCATCAATTTCAAA ACA	ATGAATCCCGACAGGT TCTG	59.9	177	INTERGENIC	--	--	--
Ca7_P2_10741982	Ca7	10741982	ATCAATTT/AT	TTTGAAAGATGAATTCG GGG	AAAATACATCCCGCGA TCCT	60.7	855	DRR	Ca_12829	FE	--
Ca7_P2_10743005	Ca7	10743005	CAA/C	TGCAAAAGCTTTGCTTT CAA	AGGGTACAAGGGATT TGGG	60.0	390	DRR	Ca_12829	FE	--
Ca7_P2_10743383	Ca7	10743383	CAAAAT/C	CCCAAAATCCCTTGTA CCT	ACCGTAGCAAATCTGT TGGG	60.0	477	DRR	Ca_12829	FE	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10744024	Ca7	10744024	TCGCG/TCG	CCCAACAGATTGCTAC GGT	TCCGATTCCATCAGC CTAC	60.0	468	INTRON	Ca_12829	FE	--
Ca7_P2_10745223	Ca7	10745223	GAAAA/GAAAAA	CCTTAAGGCATAGCCC ATCA	TTCCAATGCACCTTTTC TCC	60.1	630	INTRON	Ca_12829	FE	--
Ca7_P2_10750546	Ca7	10750546	A/AT	GCCACTGTTTTGGTTC GAT	TTTTCATTGAAGAAAA AGAGCC	59.0	594	INTERGENIC	--	--	--
Ca7_P2_10751326	Ca7	10751326	TGCA/T	GCGTAAACTTTAGATCA ATCCTTCA	TCGAAATTAATTCGCG AAAA	59.7	592	INTERGENIC	--	--	--
Ca7_P2_10761496	Ca7	10761496	ATTTT/ATTT	CGACTAGCAATGAGCC ATGA	TGGCAACATTTTGATCC GTA	59.9	714	INTRON	Ca_12830	E	TALE
Ca7_P2_10762598	Ca7	10762598	AACTA/AA	TTGATGCAATTCTGCC TTA	GAGATGGGTCGCTGGA ACTA	60.2	693	INTRON	Ca_12830	E	TALE
Ca7_P2_10763962	Ca7	10763962	CTTTT/CTTT	GTGGGGATATCCAACG TGTC	GACGACGTCATACCAA CAACA	59.5	618	INTERGENIC	--	--	--
Ca7_P2_10764392	Ca7	10764392	ATTTTTTTTT/ATTTTTTTTTT	TCCTTTTACATCACCC TCCA	TGAAATCCGTATCTCC CCAA	60.3	630	INTERGENIC	--	--	--
Ca7_P2_10764684	Ca7	10764684	TC/T	TGGGGAGATACGGATT TCAA	TAAATTGCGTTGGTTG GTGA	60.0	483	INTERGENIC	--	--	--
Ca7_P2_10764812	Ca7	10764812	GTGTCATGTCATATAAAGTTGTCATGTC A/GTGTCATGTCATATAAAGTTGTCATG TCATATAAAGTTGTCATGTCA	TGGGGAGATACGGATT TCAA	TAAATTGCGTTGGTTG GTGA	60.0	483	INTERGENIC	--	--	--
Ca7_P2_10766506	Ca7	10766506	G/GAGATAC	ATGTAGTGGGCGTTGG AAAG	TGTGTGTTGGTTGGG ATGT	59.7	855	INTERGENIC	--	--	--
Ca7_P2_10769807	Ca7	10769807	TAA/TA	TCGTCTTCGATGACAG CTTG	CCGATCAGCAACTGAA ACAA	59.8	433	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10771661	Ca7	10771661	TT/TTAT	GAACCCCGGTACAAA TGAA	CGACGTGGTAGATCAC GTAAAA	60.1	431	INTERGENIC	--	--	--
Ca7_P2_10774973	Ca7	10774973	GAATTAATT/GAATT	AGGTTTGCAACCTTTGA TGG	ATGAAATGGATTACAG CACA	59.9	477	DRR	Ca_12831	R	HD-ZIP
Ca7_P2_10784593	Ca7	10784593	T/TGTC	ACGCATGTCGACAAAC AAAT	TCTCCCGATTGGTCC TTTA	59.5	725	INTERGENIC	--	--	--
Ca7_P2_10787743	Ca7	10787743	T/TG	CGGTACACAATTTTCAC CCC	AATCCGCACTCAATTG CATC	61.0	719	INTERGENIC	--	--	--
Ca7_P2_10790569	Ca7	10790569	ATT/ATTTT	CCAGAAATTTTGTGGG GAA	TTCCGGAATTTAGGG AAAAA	59.8	480	INTERGENIC	--	--	--
Ca7_P2_10794388	Ca7	10794388	ATT/AT	GGGTTTTGAAAAATCCA CAAA	GGGACCACATATGTAA TTTAGCC	58.7	692	INTERGENIC	--	--	--
Ca7_P2_10794532	Ca7	10794532	ATTT/AT	AAAAATCACAATTTTGG ACTTGAA	GGGACCACATATGTAA TTTAGCC	58.7	470	INTERGENIC	--	--	--
Ca7_P2_10801845	Ca7	10801845	ATT/AT	CCTGGGGCTAATGCTT GATA	GACGAATGCACGGATC TTTT	60.1	525	DRR	Ca_12832	--	S1Fa-like
Ca7_P2_10821200	Ca7	10821200	T/TA	ACGTGACGTGGATGGG TTAT	TCGTCAACGTAGCAAA TCTGA	59.5	722	INTERGENIC	--	--	--
Ca7_P2_10822800	Ca7	10822800	TAAAAAAA/TAAAAA	TTCATTCCAACAACGT CAAA	GCACAGCAAGACTTCG TCAA	60.2	565	INTERGENIC	--	--	--
Ca7_P2_10823860	Ca7	10823860	CTTTTT/CTTTT	TGAGATCAATCAAAAC CCA	TTCCATATCTCGTGGT GCAA	60.1	660	INTERGENIC	--	--	--
Ca7_P2_10825589	Ca7	10825589	TGGG/TGGGG	CCATTTCGTAATTTATG TGCTTGA	TTGGATCCGACAGTGA TGAA	60.0	603	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10831679	Ca7	10831679	TGG/TG	CACCTCCAAGTCCAAC CAAT	TGCAGCGTTTTGTTTG TTC	59.9	334	DRR	Ca_12836	S	--
Ca7_P2_10838599	Ca7	10838599	GAAAA/GAAAA	TGGAAGGACGAGGAA GTTG	CTTGAAGTGCTCCTTG AGACAA	59.7	453	INTERGENIC	--	--	--
Ca7_P2_10839999	Ca7	10839999	CTTTT/CTTTT	CACATTTGCCCATGAA TTG	ACAATTTGGAACTTTG CCG	60.0	395	INTERGENIC	--	--	--
Ca7_P2_10851901	Ca7	10851901	TT/TTGGTTCTCT	GAGTTTTACGCACGCA CTCA	GGCAGCACTTAATTGA ATGGA	60.1	747	DRR	Ca_12839	R	SBP
Ca7_P2_10852045	Ca7	10852045	CT/CTGT	AAGCTCAAGACCGCA AATA	TTTGCTTGTGGAAACA GTGG	59.7	781	DRR	Ca_12839	R	SBP
Ca7_P2_10855928	Ca7	10855928	TAAAAA/TAAAAA	AGGCAGTGGACAGTGT GAAA	AAGGAAATCGTGCCA ATTA	59.7	183	INTERGENIC	--	--	--
Ca7_P2_10867933	Ca7	10867933	TA/T	GCAGCTGAGCTTGAC ATAG	CATTGCGAACACATTG ATCC	59.9	369	DRR	Ca_12841	--	Dof
Ca7_P2_10872557	Ca7	10872557	A/AC	GAATTGGATTGGATTG GCAC	TGAAAGAGAGTCCGAC CCAT	59.7	322	INTERGENIC	--	--	--
Ca7_P2_10877439	Ca7	10877439	TACACA/TACA	CAAACCAACACGTACG CAT	TACTAGACCGAACCG CATC	60.1	678	DRR	Ca_12842	R	CPP
Ca7_P2_10890161	Ca7	10890161	AA/AATA	GGCTGCAGCTTCATAA ATCC	CAGCTCTGTGAATGCG ATGT	60.0	478	INTERGENIC	--	--	--
Ca7_P2_10890958	Ca7	10890958	AGGGG/AGGGG	GGTATTCATTGGCATT GGG	TTCTCATATAATCAACC CTCCTTC	57.8	935	INTERGENIC	--	--	--
Ca7_P2_10894102	Ca7	10894102	GTATATAT/GTATATAT	TTTGAATGCGGAGAAAA TCC	TAATGCATTGGCTTTG GGA	60.1	426	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10895830	Ca7	10895830	AT/ATTT	AGATGAGGGTGAAAGG GGAT	TCGAACAAAGCATAAAT CGG	58.8	449	INTERGENIC	--	--	--
Ca7_P2_10896204	Ca7	10896204	GTTT/GTTTT	TCCGATTATGCTTTGT TCG	TTTAGGCTAATTGATCC GCTG	59.4	121	INTERGENIC	--	--	--
Ca7_P2_10896957	Ca7	10896957	ATTAAATTTTAAA/ATTAAA	AAGTCGACGATTGATC ATTCA	ACCCGTCCTTCAAACCA AAAA	59.4	520	INTERGENIC	--	--	--
Ca7_P2_10899870	Ca7	10899870	ATCT/AT	TTCCAGTGCCATCCAT TCA	ATATGGAGCTGGTGGT GGAG	60.0	594	INTERGENIC	--	--	--
Ca7_P2_10904696	Ca7	10904696	AT/A	CAGGTGCATCCTCTCC AAAT	TGCAGCATCGACACTT TAGG	60.0	333	DRR	Ca_12847	--	--
Ca7_P2_10905837	Ca7	10905837	ATTT/ATT	TGCACGCCCAACAAT ATAA	ACTCCAGCTAGCCCA GTCA	60.0	383	INTRON	Ca_12847	--	--
Ca7_P2_10909324	Ca7	10909324	GTT/GTTT	CTTCAAGTGCTGACAC GCAT	ATGTGTCAATGTTTGC GCT	59.2	678	INTERGENIC	--	--	--
Ca7_P2_10910160	Ca7	10910160	GATATATATATAT/GATATATAT	AGCGCAAAACATTGACA CAT	TTCTTGTCTTCTTGCAA TTTT	59.0	779	INTERGENIC	--	--	--
Ca7_P2_10910852	Ca7	10910852	T/TAAG	AAAAATTGCAAGAAGCA AGGA	TTTAGCGGATTGGAGG ATTG	60.0	641	INTERGENIC	--	--	--
Ca7_P2_10912793	Ca7	10912793	A/ATC	GCTCAACCAAGTTGGGT CAAT	TTTTGCATGGCATATGA TCG	60.4	755	DRR	Ca_12848	--	--
Ca7_P2_10916741	Ca7	10916741	CTTTTTTTTT/CTTTTTTTTTT	GACCATTTGTTGAAACG GCT	ATTTTGGTGTGTTGGTGA GCA	59.0	563	INTERGENIC	--	--	--
Ca7_P2_10924000	Ca7	10924000	CA/C	CACCATAAAGCCCAAG CAT	TAAGTTGGCATCAAAA GCCC	60.1	468	DRR	Ca_12849	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_10925493	Ca7	10925493	CATATTTATCCAATATTTA/CATATTTA	TTGCATGATTGATTGTT GGG	CCGGCATAGAGATCGA AGAC	59.8	517	INTERGENIC	--	--	--
Ca7_P2_10928543	Ca7	10928543	AAT/AATAT	ATCAGGGTAAATCCCC ACC	CGCTGGTCAACATCAA TACG	60.1	232	DRR	Ca_12850	--	--
Ca7_P2_10934372	Ca7	10934372	GTAATAGCACTATAAGATA/GTA	GCATTGACAATGCTTA ATTGTG	TGAATTGGATTGCCAC TTTT	58.1	746	INTERGENIC	--	--	--
Ca7_P2_10937736	Ca7	10937736	TCAACACAACACA/TCAACACA	TGCCACGTCAACTGAT GTTT	CAAAGATCTCGCAGCA ATGA	60.1	681	INTERGENIC	--	--	--
Ca7_P2_10938162	Ca7	10938162	TAA/TAAAA	AACACAACACACGGGT AGCA	TATTCCATCCCTCCGA CAAC	59.8	661	INTERGENIC	--	--	--
Ca7_P2_10940966	Ca7	10940966	TATATAATATAATATAATAT/TATATAATA TAATATAATATAATAT	TCCAACGGGATCTTGA GAC	TACCACAATCGCCTTCT TCC	60.1	494	INTERGENIC	--	--	--
Ca7_P2_10942466	Ca7	10942466	CTTTTTTTTT/CTTTTTTTTT	TCTTGTAGCAAGGGCA TGTG	CATCCCCACCACCAAT TAAG	60.0	388	INTERGENIC	--	--	--
Ca7_P2_10942971	Ca7	10942971	TAAAAAAA/TAAAAAAA	CTTAATTGGTGGTGGG GATG	CAATGGATGCATAATT GATTGAA	59.7	576	INTERGENIC	--	--	--
Ca7_P2_10944220	Ca7	10944220	T/TG	CCAGCAACATAATTGGA GCA	TAAAGCCTAAAATCCC GCCT	60.1	709	INTERGENIC	--	--	--
Ca7_P2_11034499	Ca7	11034499	AATATATATATATATATATAT/AATATA TATATATATATATAT	TGTCAATGTCAACCCAT GCT	TCAAAAGGCCACCTCT TCAT	59.7	270	INTERGENIC	--	--	--
Ca7_P2_11034555	Ca7	11034555	GTGTA/GTGTATGTA	TGTCAATGTCAACCCAT GCT	TCAAAAGGCCACCTCT TCAT	59.7	270	INTERGENIC	--	--	--
Ca7_P2_11034896	Ca7	11034896	TA/T	TGTCAATGTCAACCCAT GCT	GGACAAACCTGAATGT GTCG	59.0	922	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11039569	Ca7	11039569	TT/TTTATTAT	TTGATGGGGAAGCAAA TCTC	TGTGGAGGGTATACGT GCAA	60.0	560	INTERGENIC	--	--	--
Ca7_P2_11040682	Ca7	11040682	C/CG	AAGCTGTTGTGAATTGG GCT	CAACAAATGCATGTCC CAAG	60.0	335	INTERGENIC	--	--	--
Ca7_P2_11060462	Ca7	11060462	ATTTTTTTT/ATTTTTTTTTT	TTCTGTGTTTTTCGCGT CTG	GGCAACAATTTTCTCG CATT	60.1	357	INTERGENIC	--	--	--
Ca7_P2_11065887	Ca7	11065887	AC/ACTTAACTTC	ACCGTGGCTAGACAAA GTGG	TTGGGGTTGAGACACT GACA	60.1	768	INTRON	Ca_09379	--	bHLH
Ca7_P2_11070201	Ca7	11070201	T/TTTG	TTTATCGGTTGACAGCA AAAGA	TTTCGATTCTGGGGAT CTAC	60.0	545	DRR	Ca_09379	--	bHLH
Ca7_P2_11070487	Ca7	11070487	AATATATATATATATATATAT/AATATA TATATATATATAT	GGCCTGCCAATTCTGTT TAT	GTTTCGATTCTGGGGA TCTA	60.0	290	INTERGENIC	--	--	--
Ca7_P2_11071963	Ca7	11071963	GAAAAAAAAA/GAAAAAAAAA	TTGTTTATCCAACACAA ATACGAAA	TATACAATGAGGGAGG CCCA	60.3	632	INTERGENIC	--	--	--
Ca7_P2_11074298	Ca7	11074298	TAAATTAAAAATTAAA/TAAATTAAA	TACCGATTGCCATCCTT AGC	TTTTCAAGTAGGGTAC CTCAATTTTT	59.8	831	INTERGENIC	--	--	--
Ca7_P2_11075662	Ca7	11075662	TAA/TAAA	ATGCAAAAGTCGGTCAT CCT	GATTTGAAATGAGTG CGGT	59.9	544	INTERGENIC	--	--	--
Ca7_P2_11075792	Ca7	11075792	ATATTACTATTA/ATATTA	ATGCAAAAGTCGGTCAT CCT	GATTTGAAATGAGTG CGGT	59.9	544	INTERGENIC	--	--	--
Ca7_P2_11079201	Ca7	11079201	CAAA/CAAAA	AAAGAAGGGGTTGAGA GGGA	GAGCAGAAAGGTGGAA GTGC	60.0	553	DRR	Ca_09378	--	bHLH
Ca7_P2_11079302	Ca7	11079302	TAAAA/TAAAAA	GCACTTCCACCTTTCTG CTC	CTCTCAAGGCCTTCAA CCTG	60.0	495	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11082142	Ca7	11082142	TTATATATATATATATATATA/TTATATATATATATATATA	GCCCGAAATAGCTTTCCTTC	GACGTGGCACAGTCTAATGC	59.3	671	INTERGENIC	--	--	--
Ca7_P2_11083521	Ca7	11083521	TAGA/TAGAGA	ACTGGTTTGTCACTCAACCTGA	TTTTTAGGCAGGTGGACATATT	57.7	702	INTERGENIC	--	--	--
Ca7_P2_11083846	Ca7	11083846	CATT/CATTAATT	TCTCGAAATTTTCAGGAATCAA	AATAACGCCAACAGGTTTCG	60.0	735	INTERGENIC	--	--	--
Ca7_P2_11086342	Ca7	11086342	CATA/CATATA	GCAGAGCTGCAACTGCAATA	GAGCTGCCTCAAAACCTGAC	60.0	338	INTRON	Ca_09377	--	bHLH
Ca7_P2_11088177	Ca7	11088177	CAAAAA/CAAAA	TTTCCGAAATCAGGACACC	GTGGGGGATATCGAGGAAAT	60.0	459	DRR	Ca_09377	--	bHLH
Ca7_P2_11089515	Ca7	11089515	T/TC	TGTATGTCAACGGGACAGAGA	CTTATAAGGACGTCGCAGGG	59.7	455	INTERGENIC	--	--	--
Ca7_P2_11091252	Ca7	11091252	AT/ATTCTT	TTGATATGCTTTTGTCACTCCAA	AACCTCATTTTGACCGGACG	60.0	656	INTERGENIC	--	--	--
Ca7_P2_11092070	Ca7	11092070	CATAT/CATATAT	CGTCCGGTCAAAATGAGTT	CCGAACCCAATTTCCCTAAT	60.0	497	INTERGENIC	--	--	--
Ca7_P2_11096210	Ca7	11096210	T/TA	CTTCATCGTGGATTGTCCC	CCAACGGTGTGGTTACGAT	60.7	544	INTERGENIC	--	--	--
Ca7_P2_11101152	Ca7	11101152	T/TC	ATTATCGCATGTGGTGACAGA	TGGTCCCCCTAAGTTCAACA	60.3	594	INTERGENIC	--	--	--
Ca7_P2_11102301	Ca7	11102301	G/GA	CCACCGAAACAACCTTCCACT	GCTTGATCATGCTTGGATTG	59.2	756	INTRON	Ca_09376	G	--
Ca7_P2_11105658	Ca7	11105658	TTA/TTAAATATA	GCTGAAAGCTCAAATCTGG	AGCACCCCGCTCTGTTACTA	59.9	699	INTRON	Ca_09376	G	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11118369	Ca7	11118369	AAATAATAATAATA/AAATAATAATA	TGCATCCAAGAACACC GTAA	GGCACCACAATTCACC TCTT	60.0	542	DRR	Ca_09375	--	S1Fa-like
Ca7_P2_11118723	Ca7	11118723	CAAA/CAAAA	TGCATCCAAGAACACC GTAA	AATGTCGTTTTGGTTCC AGC	60.0	774	INTERGENIC	--	--	--
Ca7_P2_11119577	Ca7	11119577	TT/TTCT	AAAATTGGGCCACTTGT GAG	GCAAGAGCCCTCACTA CCAA	60.4	883	INTERGENIC	--	--	--
Ca7_P2_11119923	Ca7	11119923	CA/CAA	AATCGCTCGAAGAGAA ACAAA	GCAAGAGCCCTCACTA CCAA	60.4	110	INTERGENIC	--	--	--
Ca7_P2_11120511	Ca7	11120511	TA/TAATTTAAA	CCACTCACTGCTTGCTT ATCC	TCGGGAAATGTTGTTT GTCA	59.9	913	INTERGENIC	--	--	--
Ca7_P2_11121357	Ca7	11121357	TTATATATATAT/TTATATATATATATATA TAT	TGACAAACAACATTTC CGA	TTGGAGAATTTGGTAG CGTTG	60.1	533	INTERGENIC	--	--	--
Ca7_P2_11122293	Ca7	11122293	CTTTTT/CTTTTTT	GTAGCCCACTCAATTG GCAT	TTTTTGCAATCCAGCTT CCT	59.8	634	INTERGENIC	--	--	--
Ca7_P2_11132729	Ca7	11132729	CT/C	TTTTAGTGGGTATCTGC GGG	CGAAGAAAAGCAGCAA CCTC	60.1	463	INTERGENIC	--	--	--
Ca7_P2_11139902	Ca7	11139902	TC/TCC	ACTGAAGCCAGTGGAC CAAC	TGGACAACAGGACAAG CAAA	60.3	500	DRR	Ca_09373	--	--
Ca7_P2_11146391	Ca7	11146391	AT/A	TCTCAAAGATCACAGT GCG	GTCGATGGTGCTGAA GATT	60.1	482	INTERGENIC	--	--	--
Ca7_P2_11148413	Ca7	11148413	AGG/AG	ACATCGAAGAAGCTGC TGGT	GTCCCAACAAAACCTC CGTT	61.1	401	INTERGENIC	--	--	--
Ca7_P2_11153989	Ca7	11153989	CT/CTT	TGAGACGACGAAATCA CGAG	ATTGGATTGATTTTCG TCG	59.8	501	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11154403	Ca7	11154403	AACCGCA/AACCGCACCGCA	ATCGACCGAAAAATCAAT CCA	AAAGAGTGAGCCGACC ATTG	60.3	317	INTERGENIC	--	--	--
Ca7_P2_11157395	Ca7	11157395	ATTTTTTTTT/ATTTTTTTTT	TAGACGAACCAACCA ACAA	TTCTTGGGTAGAAAAT GCGG	60.1	479	INTERGENIC	--	--	--
Ca7_P2_11158306	Ca7	11158306	CTTCTTTTCC/CTTCTTTTCCCCCTTTCT TTTCC	TGCCTTATTTTGTGAC ACG	CAAAGGTATTTGAAGC AACGAA	59.3	274	INTERGENIC	--	--	--
Ca7_P2_11158682	Ca7	11158682	ATTTT/ATTTT	TAATTTTGACAAGACG GGG	GCAGCAATGATAAGCA TTTGA	58.9	750	INTERGENIC	--	--	--
Ca7_P2_11164760	Ca7	11164760	CTTTTTTTTTTT/CTTTTTTTTT	CGGACTAGACAAAACC GAATC	TTTTGGTCTCTCAAGT GAATTTT	59.6	822	INTERGENIC	--	--	--
Ca7_P2_11165711	Ca7	11165711	G/GTACT	TGCTCACACAAGTTCAC TAGCA	CTAAGCAATGCCATCAT TCG	59.3	117	INTERGENIC	--	--	--
Ca7_P2_11166262	Ca7	11166262	ATTTTTTTTTT/ATTTTTTTTTTTTT	TTCCAATTCAATGGCAT GAG	CATTGACACGCCAAAC TGTC	60.2	830	INTERGENIC	--	--	--
Ca7_P2_11175776	Ca7	11175776	GAA/GA	ATTTTGGAAGACGTGT CGG	CACACCGCAATCAAAC AATC	60.0	606	INTERGENIC	--	--	--
Ca7_P2_11176049	Ca7	11176049	GA/G	GGTGTAGATGGGGTTG GATG	CACACCGCAATCAAAC AATC	60.0	509	INTERGENIC	--	--	--
Ca7_P2_11180649	Ca7	11180649	TTATATATA/TTATATATATATATA	TTCCAAACCGAGATGAA TCC	TGATAAAATAAGGGAC CGGAAA	59.7	380	INTERGENIC	--	--	--
Ca7_P2_11180939	Ca7	11180939	TCCGG/T	TTCCAAACCGAGATGAA TCC	CCCCTCATTTACACAA CATCC	59.2	659	INTERGENIC	--	--	--
Ca7_P2_11184081	Ca7	11184081	TAGCA/TA	CGTCGGCAAAATTAGT GGTT	AGACCACCATGACCCT GAAG	60.0	439	DRR	Ca_09372	--	MYB_related

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11189457	Ca7	11189457	TAAA/TAAAA	CAGCATCCCGTGTTTA GGT	TTCCAATTCCTTTTGC CTG	60.0	587	INTERGENIC	--	--	--
Ca7_P2_11193725	Ca7	11193725	GAAA/GA	ATGGTGGTGGAGTGAT GGTT	TTCCCCCAATTTACTCC CTC	60.1	265	INTERGENIC	--	--	--
Ca7_P2_11194338	Ca7	11194338	C/CCATG	GAGGGAGTAAATTGGG GGAA	AGGGTTGGGGTTGAAG TGTT	60.6	744	INTERGENIC	--	--	--
Ca7_P2_11202462	Ca7	11202462	AAA/AAACAA	GGCAACCAATGTTTGT TTTG	ATTGGGTGGAGAGAG ACGA	59.7	707	INTERGENIC	--	--	--
Ca7_P2_11203192	Ca7	11203192	CAAAAA/CAAAAAA	ATCGTCTCTCTCCAACC CAA	CCGTCATACCTCCTCG TGTC	60.5	845	INTERGENIC	--	--	--
Ca7_P2_11203385	Ca7	11203385	TAA/TAAA	TTGTTTGTGAAGCATAT TTGTGGT	ACAATCATTGGTTGGT GGG	60.5	457	INTERGENIC	--	--	--
Ca7_P2_11203876	Ca7	11203876	ATTTTTTT/ATTTTTT	TACATTTAGGCCCCACC AAA	TTTTTTGACTTGTCGG ATGA	59.2	770	INTERGENIC	--	--	--
Ca7_P2_11205713	Ca7	11205713	AA/AAATA	ACCATGTCACTCCCAT TGT	TTGCATTTGTTTCTCTG CCC	60.1	395	INTERGENIC	--	--	--
Ca7_P2_11208538	Ca7	11208538	TTA/T	GTTTATGTGGTGCGGT TCCT	GCTCATTTCTTGGTG GGAA	60.1	316	INTERGENIC	--	--	--
Ca7_P2_11215279	Ca7	11215279	GAA/GAAA	GTTTGGAGCCATGATC GTTT	TTGAGTCTCATCCATG CTGC	60.0	865	INTRON	Ca_09370	OR	--
Ca7_P2_11216932	Ca7	11216932	GTTTTTTT/GTTTTTTT	TTTCTTTCGACCTTGG TGG	TAAACCTGCCAGTTCC AACC	60.0	741	INTRON	Ca_09370	OR	--
Ca7_P2_11217761	Ca7	11217761	TTGAGTGAGTGAGT/TTGAGTGAGTGA GTGAGT	CAACAGAATTTGGAGG GCAT	GCCATGCAAAACCATA ATCC	60.2	368	INTRON	Ca_09370	OR	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11220790	Ca7	11220790	ATTTTTTTT/ATTTTTTTTT	AGCCAGTAAATGCAGT CGGT	TCCTTCACGTTGATCTT CCC	60.1	670	INTERGENIC	--	--	--
Ca7_P2_11223089	Ca7	11223089	GCCCTAT/GCCCTATAATCCCTAT	GATAAGGCTGCGCTTG TAGC	GCTGATCCACAAGTTC CCAT	59.9	516	INTRON	Ca_09369	--	--
Ca7_P2_11224360	Ca7	11224360	TGATCTTAA/TGATCTTAAGATCTTAA	AACCAAGTGTGTGCA GCAG	AGGGTGGCCTCCAGTA GTTT	60.0	534	INTRON	Ca_09369	--	--
Ca7_P2_11228703	Ca7	11228703	ATTTTTTTTTTT/ATTTTTTTTTT	CGCTGTTTTTCTTCTT CACAA	TGGTAGCATTAACGT ATTGCG	60.0	770	DRR	Ca_09369	--	--
Ca7_P2_11228884	Ca7	11228884	TC/TCC	TTTTGGGATTTGGATTA GATGT	TCTCAGCAAGCAAACA ATGG	60.0	631	DRR	Ca_09369	--	--
Ca7_P2_11229799	Ca7	11229799	TATCAATGTTTCTAAT/TAT	TCCGCACAAAAGACAG ACAA	CCTGGTGCAGGTTTGA TCTT	60.1	473	INTERGENIC	--	--	--
Ca7_P2_11230451	Ca7	11230451	GAGAAA/GA	CAGAGCCGGAACACAA AGAT	AGCCCTCCCATGTTT TAAT	59.7	953	INTERGENIC	--	--	--
Ca7_P2_11232429	Ca7	11232429	AATA/AA	CAACCAAAACAATGCCTC AAG	GATCGCACCTAGCATC CTCT	59.4	726	DRR	Ca_09368	K	MYB
Ca7_P2_11238050	Ca7	11238050	TAA/TAAA	TCAAGTTTGTATGCAGC GGA	ATTGCTGCGAATTCTG CTT	60.0	526	INTERGENIC	--	--	--
Ca7_P2_11243014	Ca7	11243014	ATTTTT/ATTTT	TTGAATTATGGGCTTGC CTC	TTTGGGATTTCAGAG TTCTT	58.5	703	INTERGENIC	--	--	--
Ca7_P2_11243896	Ca7	11243896	GTTTT/GTTT	ACATCATGGGAAGAGG GAGT	CCGAATTTTGTCTCGT GTCT	60.0	437	INTERGENIC	--	--	--
Ca7_P2_11244257	Ca7	11244257	GTACAATACAA/GTACAA	ACATCATGGGAAGAGG GAGT	CTTTATCTCCGCCGA ATTT	60.4	449	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11246939	Ca7	11246939	GAAAAA/GAAAAAA	ATTACGCCGCTGATT CAA	AATTGCATACCACGG AAAA	60.2	747	INTERGENIC	--	--	--
Ca7_P2_11247347	Ca7	11247347	ACTT/A	TTTTCCGGTGGTATG AAT	TTTCCTTCATTGTCCC AAC	59.8	235	INTERGENIC	--	--	--
Ca7_P2_11251842	Ca7	11251842	CG/CGG	GCCAATTATCAACCATC CGT	TCTGGTAGTTCGAGCA TGGA	59.4	604	INTERGENIC	--	--	--
Ca7_P2_11259147	Ca7	11259147	CTT/CT	GTTATGTCCACCGTCC CAAC	TATGCTTTGTTTCCTTG CCC	60.1	383	INTERGENIC	--	--	--
Ca7_P2_11259290	Ca7	11259290	ATTTTATTT/ATTTTATTTTATTT	GTTATGTCCACCGTCC CAAC	TATGCTTTGTTTCCTTG CCC	60.1	383	INTERGENIC	--	--	--
Ca7_P2_11268569	Ca7	11268569	CATATATATATAT/CATATATATATAT	TTTTAACTCGTCCGGGT CAC	TCTCCCAAATCTTACC CCC	60.1	486	DRR	Ca_09366	--	--
Ca7_P2_11268884	Ca7	11268884	ATACTT/AT	TTTTAACTCGTCCGGGT CAC	TCTCCCAAATCTTACC CCC	60.1	486	DRR	Ca_09366	--	--
Ca7_P2_11271162	Ca7	11271162	CTTTT/CTTTTT	CCATCCTCCATTTTCAT GGT	CCTGAGAGTTGAGGGC TTTG	60.0	600	INTRON	Ca_09366	--	--
Ca7_P2_11272809	Ca7	11272809	TAAAAA/TAAATAAAAAA	ACGTCTCGTGGAACCT GCTT	ACGGAGTTCGTAGTGC GTTT	59.8	516	INTERGENIC	--	--	--
Ca7_P2_11273821	Ca7	11273821	AT/ATTT	CATCATGGGGGCATAA TCTT	TCTGAGTTGGTTTGGT CGAA	59.3	352	INTERGENIC	--	--	--
Ca7_P2_11283923	Ca7	11283923	ACATATG/A	TTAAGCAATGATGACGC TGG	CAACATTGTCGTTGTG ACCC	59.9	622	DRR	Ca_09365	--	AP2
Ca7_P2_11286406	Ca7	11286406	GAAATAAATAAATAAATAA/GAA TAAATAAATAAATAAATAA	GTAGCAATCCCCACCA AGAA	TCATGCAAGCAAGAAG ATGG	59.9	460	INTRON	Ca_09365	--	AP2

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11291866	Ca7	11291866	CATAT/CAT	TTTCGATCAAGCCATCA CAA	TGGTCTCCCTTGTTGG TTAG	60.0	307	DRR	Ca_09364	Q	bHLH
Ca7_P2_11306016	Ca7	11306016	CTTGAATTTAATTGAA/CTTGAA	CAAGCCTCCAAATGCAA AGT	ACTCCTACAACGTGGC GAAT	59.6	356	INTERGENIC	--	--	--
Ca7_P2_11313456	Ca7	11313456	GTTGTTT/GTT	TGGACAAATATTGCATC ATGG	CCTTCACCTGTTTAAAG GAAAATATAA	58.3	593	INTERGENIC	--	--	--
Ca7_P2_11313507	Ca7	11313507	CTTTTTT/CTTTTT	TGGACAAATATTGCATC ATGG	CCTTCACCTGTTTAAAG GAAAATATAA	58.3	593	INTERGENIC	--	--	--
Ca7_P2_11318046	Ca7	11318046	T/TG	CGAGGGAGTGATGGAT TGAT	CCCTGGATGGACCATA CTTT	60.1	547	INTERGENIC	--	--	--
Ca7_P2_11318505	Ca7	11318505	GAATAATAATAATA/GAATAATAATA ATA	AAAAGTATGGTCCATCC AGGG	CAAGACGCACTCAAGG GAAG	60.1	354	INTERGENIC	--	--	--
Ca7_P2_11321145	Ca7	11321145	ACTTCTT/ACTT	TCACCCACCACCAGAT GTTA	CCTAACGTTCAAATGG GTTT	59.7	622	INTERGENIC	--	--	--
Ca7_P2_11322106	Ca7	11322106	C/CAAAAAA	CGACCCGCATACTAAT GACA	AAGTGTCTACCATCCA CCGC	60.0	769	INTERGENIC	--	--	--
Ca7_P2_11326086	Ca7	11326086	ATACAATTA/ATA	CATTTGGGCAATCTGG TCT	CGTTGGCACATATAAT CGGA	59.4	944	INTERGENIC	--	--	--
Ca7_P2_11336198	Ca7	11336198	ATTTTTT/ATTTTTT	TTTGAGACTATGTGCG GTCG	TCGATGGGCATGTTGA GTAA	60.1	619	INTERGENIC	--	--	--
Ca7_P2_11337017	Ca7	11337017	AACTAATCTAA/AACTAATCTAATAGA ACTAATCTAA	GCAAAATAAGGCAACC CAAA	GAATGTTGCCTGAACA CCCT	60.0	471	INTERGENIC	--	--	--
Ca7_P2_11337737	Ca7	11337737	TTTA/TTTAATTA	ATCAAGGGTGTCAGG CAAC	GGTAAGGGAAATGCCT GTCA	59.9	485	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11343583	Ca7	11343583	ATTCACCTCACTTC/ATTCACCTTC	TGTTCCATACACCCAC CTT	TGCAGTTCACATTGT TTCC	58.7	531	DRR	Ca_09360	--	--
Ca7_P2_11344566	Ca7	11344566	ATCAAAATT/AT	CTCTTGTCAATCTCA ACAAATG	AACTGGTGCTTTGTTC CTCC	59.2	734	DRR	Ca_09360	--	--
Ca7_P2_11345461	Ca7	11345461	CTTTTTTTTTTT/CTTTTTTTT	CCACTGGTGCTTTCTTC CAT	GATGCTCCAAATTTCTC CCA	60.0	401	INTERGENIC	--	--	--
Ca7_P2_11345763	Ca7	11345763	TAA/TAA	TGGGAAGAATTGGAG CATC	TCCCACATTATTTGGCC ATC	60.5	462	INTERGENIC	--	--	--
Ca7_P2_11346294	Ca7	11346294	GTT/GT	GGCCAAATAATGTGGG AAGA	CAATCCAAACGAAGGC AAAT	59.9	396	INTERGENIC	--	--	--
Ca7_P2_11349255	Ca7	11349255	TAAAAAAAAA/TAAAAAAAAA	CACCCCACTTTTGTCT TCT	CGAGCGCTAATTTTATT CGC	59.7	655	INTERGENIC	--	--	--
Ca7_P2_11349932	Ca7	11349932	AGAT/AGATGGAT	GCGAATAAAATTAGGC GTCG	GGTCGTAACGCTTTG GTGT	60.0	580	INTERGENIC	--	--	--
Ca7_P2_11355933	Ca7	11355933	AACTAAATA/AA	TCAACAAATATGCAAC AAGCA	TCGCATCAGCAACAAC TGTA	59.0	295	DRR	Ca_09359	--	--
Ca7_P2_11372647	Ca7	11372647	C/CTCTTCTT	ATCGGCGAGAGCAAGA GTTA	ACAAGACCAACATGGC ACAA	60.0	751	INTERGENIC	--	--	--
Ca7_P2_11375539	Ca7	11375539	TA/T	CAGATTTGTTTCGACTG GGT	GGTCGACACATCCTCA CCTT	60.0	759	INTERGENIC	--	--	--
Ca7_P2_11377787	Ca7	11377787	TCC/TCCC	TCAGATTTGAGTTGTGT GTGGTT	GTTTGAAGCGTGCTA GTTC	60.0	716	INTERGENIC	--	--	--
Ca7_P2_11381836	Ca7	11381836	TAAAAAAA/TAAAAAAA	TTAATCGCCTATGGGGT CAC	TTTTAGGTCGGCGTGA TTAAA	59.6	660	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11384375	Ca7	11384375	TGACGACG/TGACG	GACGCTTGCTTTGAGT TCC	AATGTGAAGTCGAGC GATT	59.7	485	DRR	Ca_09357	--	--
Ca7_P2_11384808	Ca7	11384808	GAA/GAAA	TCGACCTTCACATTGCA CTC	CTCAATTTGTGAAGG GGGA	59.9	808	DRR	Ca_09357	--	--
Ca7_P2_11384942	Ca7	11384942	TTAAATATGGTGGTAAATATGGTG/TTA AATATGGTG	GGCAGAACATGATGAG TCCC	CACCAAAGTGTGCGT TGTC	60.2	446	DRR	Ca_09357	--	--
Ca7_P2_11397404	Ca7	11397404	GTTTTTTTTT/GTTTTTTTTTTT	TCAAGGTTGCGTTTTTC CTT	CAACGTTAAGAATCGAT GGGA	59.9	670	DRR	Ca_09356	C	--
Ca7_P2_11397682	Ca7	11397682	TACACACA/TACACACACA	AATTGAGTCACATCCCA TCG	TGGCCGACTAAGGTAT CAAAA	59.6	281	DRR	Ca_09356	C	--
Ca7_P2_11403138	Ca7	11403138	TAAAAA/TAAAAA	TGCAAGATGCATGTAA ACAA	AGAACTGAACGTAACC CGGA	59.6	464	INTERGENIC	--	--	--
Ca7_P2_11406640	Ca7	11406640	GAAAAAA/GAAAAAA	GTTGGAACCTTGCATAT GGG	GGACAGGATAATCATG CGCT	60.1	329	INTERGENIC	--	--	--
Ca7_P2_11406668	Ca7	11406668	ATTTTTTTT/ATTTTTTTT	GTTGGAACCTTGCATAT GGG	GGACAGGATAATCATG CGCT	60.1	329	INTERGENIC	--	--	--
Ca7_P2_11406873	Ca7	11406873	ATT/AT	GTTGGAACCTTGCATAT GGG	TGTTTTATTACCGGG GAAA	59.2	914	INTERGENIC	--	--	--
Ca7_P2_11413410	Ca7	11413410	TAAAAAA/TAAAAA	AAGTCCCCTGCAAATAC CAA	GGAAGCATGGAAGGAA ATGA	60.0	598	DRR	Ca_09355	--	MYB_related
Ca7_P2_11413494	Ca7	11413494	TA/TAA	AAGTCCCCTGCAAATAC CAA	GGAAGCATGGAAGGAA ATGA	60.0	598	DRR	Ca_09355	--	MYB_related
Ca7_P2_11417359	Ca7	11417359	ACTCTCT/ACTCT	TACCGCATCAAATTGA ACA	GAGGTGTTGGAAGCAA GCTC	60.0	775	INTRON	Ca_09354	R	AP2

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11428005	Ca7	11428005	TAAAA/TAAA	CGTGAGGCTTAAAAAT CCA	TTGAAGTCGAAGTTGC ATGG	59.8	929	DRR	Ca_09352	--	GRAS
Ca7_P2_11428616	Ca7	11428616	GAAAAA/GAAAA	CCATGCAACTTCGACTT CAA	GGTGGTCAATGACACA GTGC	60.0	658	DRR	Ca_09352	--	GRAS
Ca7_P2_11430402	Ca7	11430402	CTTGTTGTTGTTGTTG/CTTGTTGT TGTTGTTG	TCTTGGGGAGGTGAGA AAGA	CTCAACTCCACCACCA CCTT	60.0	308	CDS (large-effect mutations)	Ca_09352	--	GRAS
Ca7_P2_11435788	Ca7	11435788	CAATATTGTATAA/CAA	TTCACGTGGCATCTCAC ATT	TGTGCTTTGTTGTTG GAAA	60.1	756	INTERGENIC	--	--	--
Ca7_P2_11438197	Ca7	11438197	ATTT/ATT	CTGTGCGTCATTCTTT CCA	TTGGCAATGTTCCCAA GAAT	60.3	802	INTERGENIC	--	--	--
Ca7_P2_11438833	Ca7	11438833	T/TTTTA	TTTTGCCCTGAAAATTA GCC	CGGCAACGAGTTGATT GATA	59.7	351	INTERGENIC	--	--	--
Ca7_P2_11441772	Ca7	11441772	ACTCT/ACT	GTGGAGGGCATTACACA TTTT	TTCATGTTTAATGCGAA GTGAGA	59.8	265	INTERGENIC	--	--	--
Ca7_P2_11454388	Ca7	11454388	AC/A	TGAGGATCACTTTGTGA AAAGG	TGCAAAACATGGAGTT TTGG	59.6	567	INTERGENIC	--	--	--
Ca7_P2_11454577	Ca7	11454577	TA/TAGA	TGAGGATCACTTTGTGA AAAGG	GCAATGCCACCTCTCT CTTC	60.0	870	INTERGENIC	--	--	--
Ca7_P2_11456303	Ca7	11456303	ATTTTTTT/ATTTTTTTTT	GGAATTGGTGTCGGTC TCAT	TGTGAAAGCTCGGCTC CTAT	60.0	476	INTERGENIC	--	--	--
Ca7_P2_11470862	Ca7	11470862	TATTAATT/TATT	AGATTCAAACCGTGACC GAG	TTTGACCTTGGAGCT AACG	60.2	530	DRR	Ca_09347	TZ	--
Ca7_P2_11473172	Ca7	11473172	CAAAAA/CAAAAA	GAACACTGACACGGAA GCAA	TGTAACGTTCAAGCTTC CCC	60.1	205	INTRON	Ca_09347	TZ	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11473390	Ca7	11473390	CAAT/CAATAACTCATTTAACAGGAAT	ATGATGGCAAGGAAG CATC	TTGCAGCACAGAGGAG AAAA	59.7	533	INTRON	Ca_09347	TZ	--
Ca7_P2_11474365	Ca7	11474365	TATTAATTAATTAATTAATTAATTAAT TAATTAATTAA	CAGGGACTCCATCATG TCCT	TCTGTATCCCCTTCCAC TGC	60.1	369	INTRON	Ca_09347	TZ	--
Ca7_P2_11477235	Ca7	11477235	AG/A	TTAACGGGTGCATTTTG ATG	TGGAGATTGGTTGT AGGATG	59.9	362	INTERGENIC	--	--	--
Ca7_P2_11481982	Ca7	11481982	ATT/AT	GGAGGGACGATGTTAC TCCA	TCCACCAATTCGGTTG AATC	60.7	257	INTERGENIC	--	--	--
Ca7_P2_11487484	Ca7	11487484	TT/TTGTGT	CAAATTGATGTTGAAGG GGG	CATTGTTGGATTCTTC TCTTTCA	59.6	557	INTERGENIC	--	--	--
Ca7_P2_11487806	Ca7	11487806	T/TG	TTGATGTTGAAGGGGG AAAG	GTCATTGGATATGGCC TCGT	59.8	631	INTERGENIC	--	--	--
Ca7_P2_11487923	Ca7	11487923	TAAA/TAA	TGATGTTGAAGGGGGA AAGT	GTCATTGGATATGGCC TCGT	59.8	630	INTERGENIC	--	--	--
Ca7_P2_11494762	Ca7	11494762	CCTT/CCTTCTT	AGGAGCAGTTTGTGAG GTGC	GAAAGGTGACTTCCTC ACGG	59.7	223	DRR	Ca_09346	--	--
Ca7_P2_11496776	Ca7	11496776	CG/C	CACGTTGTCAATTTCCG TTG	ATATGGGCGAGGAAGT TGTG	60.0	700	INTRON	Ca_09346	--	--
Ca7_P2_11497197	Ca7	11497197	GAAAAAAAAA/GAAAAAAAAA	TCTCATTGCCTATCTCG GCT	TGGATGTGTACCTCAA GCGA	60.3	724	INTERGENIC	--	--	--
Ca7_P2_11511673	Ca7	11511673	C/CCCGCGAAACTT	TGACCCTAAGAACCCA CCAG	GGATGGGGTAAACATT GTCC	59.0	514	INTERGENIC	--	--	--
Ca7_P2_11517081	Ca7	11517081	CTATA/CTA	GGTGCAGTACACGACC TCAA	GGATGAGGGAACAATG TGCT	59.9	487	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11518406	Ca7	11518406	TTTAAAGACACATATTAAAGA/TTTAAAG A	CCTCAAGTGTGGCGTA GACA	ACGTGGCATGTGTTGT GAAT	59.9	796	INTERGENIC	--	--	--
Ca7_P2_11521550	Ca7	11521550	GAAAAAA/GAAAAAA	TGCTCAATTGCAAAAGT TGG	TTTCTTTAGCTCTTGCC CGA	60.1	643	DRR	Ca_09345	TDK	C3H
Ca7_P2_11526764	Ca7	11526764	CA/CAA	GTAGCGGCCAACTCTG TCAT	TTGATCGCTGCTGTTG TTTC	60.0	872	DRR	Ca_09344	TDK	--
Ca7_P2_11527802	Ca7	11527802	AAATACTAATACTAAT/AAATACTAAT	TTACAACCAACCAAGCC TCC	AGGAAGGTGGGTAGAG GGAA	59.9	769	DRR	Ca_09344	TDK	--
Ca7_P2_11528213	Ca7	11528213	CATA/CA	TTCCCTCTACCCACCTT CCT	CCCCAAGGAATATTGG GACT	60.0	239	INTRON	Ca_09344	TDK	--
Ca7_P2_11529253	Ca7	11529253	TCAA/T	TGCCAAACCACTCAA TTTT	CGATGCACTGATACGA TGAAA	59.7	482	DRR	Ca_09343	--	--
Ca7_P2_11530739	Ca7	11530739	ATTTTTT/ATTTTTTT	TGAATCGGTACAAGTTT TTGGA	GACCCCGCATGTGAAA GAAA	59.9	664	DRR	Ca_09343	--	--
Ca7_P2_11542682	Ca7	11542682	ATTTTTTTTT/ATTTTTTT	AACTGCCATGGAGCTA GGAA	TTTTTGTTTGAGTATT ATGCGA	58.7	737	INTERGENIC	--	--	--
Ca7_P2_11543117	Ca7	11543117	ATGTGTGTGT/ATGTGTGTGT	TCGCATAATACTCAAC CAAAAA	TTCAATCTCCGAGTCC GTTC	60.2	432	INTERGENIC	--	--	--
Ca7_P2_11544822	Ca7	11544822	CGATGAT/CGATGATGAT	TTTTATTCTGTCGCTT ATGG	AGAGACGTGAAGGAGC GTGT	60.1	773	INTERGENIC	--	--	--
Ca7_P2_11545129	Ca7	11545129	CTTAA/CTTAAGAAAGTAAGGCATTAA	CCAAACGTTTATAAGCA TGCAA	TGTGAAAGGGAAGGAG ATGG	60.0	311	INTERGENIC	--	--	--
Ca7_P2_11546825	Ca7	11546825	T/TAATA	GTCACGTGCGTGTGT AACC	GGAGGTGTTTCCAAC CTCA	59.9	612	DRR	Ca_09342	--	LBD

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11551868	Ca7	11551868	AATT/AATTATT	ATCCCCAATTTTGCTCA TCA	CTGGAGGCCAATTCAA CATT	59.9	738	INTERGENIC	--	--	--
Ca7_P2_11553555	Ca7	11553555	AC/A	TTTCACCACCGATCCTT TTC	TTTGTATTGGGGGAA TTGA	60.1	703	INTERGENIC	--	--	--
Ca7_P2_1156298	Ca7	1156298	TTATATATATATATA/TTATATATATAT ATATATA	TGCCCAATAGTTAGCCAA CAA	CATGGGAACACACACC AAAA	60.3	398	DRR	Ca_03358	GE	HB-other
Ca7_P2_11566451	Ca7	11566451	CA/CAAA	CAACCTTGAAATTTGAA AACCA	CCTTCACCTAACACAAC GTCAG	59.7	344	INTERGENIC	--	--	--
Ca7_P2_11570719	Ca7	11570719	TT/TTTTGTACT	CGAGCAAGAATGATAAT TGAAAAA	GTAAAGGCGCTTTGG TGGA	60.1	402	INTERGENIC	--	--	--
Ca7_P2_11570857	Ca7	11570857	ATAAGT/ATAAGTAAGT	CCTCGGAGCTTATTGG ATTG	AATTCTTCCGACGATGT TGC	60.1	574	INTERGENIC	--	--	--
Ca7_P2_11571043	Ca7	11571043	TT/TTCT	TTTAAATCCACCAAGAC GCC	CAAAGTATTTGTTGG CCCT	60.0	639	INTERGENIC	--	--	--
Ca7_P2_11571771	Ca7	11571771	A/AAT	ATGTGTTGACCATTTTG GCA	GCGCAAGATCCGTCAT TATT	60.1	513	INTERGENIC	--	--	--
Ca7_P2_11573749	Ca7	11573749	ATATCTAT/ATAT	TTTTCTCACTTTTGTGTT CAAGAAC	TTTTGTGTGACCACTTC CCA	60.0	409	INTERGENIC	--	--	--
Ca7_P2_11575109	Ca7	11575109	CAAA/CA	GACGATCTTGTTGTTG TACGA	GATTTGAATCGCCATC GGT	59.9	763	INTERGENIC	--	--	--
Ca7_P2_11577061	Ca7	11577061	ATT/ATTT	TGCATCTGCTTGGTTAC CTG	CGCCATGGCTTTTATG ATT	59.2	864	DRR	Ca_09341	--	GRAS
Ca7_P2_11580871	Ca7	11580871	GTTTTT/GTTTTTT	TGGTGGGCCACAGTTA TGTA	GCATGTCCAAAATCATT CCC	60.1	694	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_11581922	Ca7	11581922	GTTTT/GTTT	GAATTGCTTCCACCTT TGA	GGAGATGGAAGTGAAG CAGG	59.8	868	INTERGENIC	--	--	--
Ca7_P2_11582131	Ca7	11582131	GAAAA/GAAA	TCAACCATGGGAAACA CAAA	GGAGATGGAAGTGAAG CAGG	59.8	738	INTERGENIC	--	--	--
Ca7_P2_11584694	Ca7	11584694	A/ACAC	GATGCAACACTTCTTG CGA	TGGGGGTGTACATAAC TACTATCG	59.2	610	INTERGENIC	--	--	--
Ca7_P2_11585539	Ca7	11585539	ATT/AT	GAGAATTTCTGCCCTG CATC	AAAGGCACGTGTGGGT TAAG	60.0	549	INTERGENIC	--	--	--
Ca7_P2_11585943	Ca7	11585943	CTTTT/CTTTT	CTTAACCCACACGTGC CTTT	ATGCGAATTGAAGACG GAAC	60.1	212	INTERGENIC	--	--	--
Ca7_P2_11591199	Ca7	11591199	TAAAA/TAAAAA	GTGGTCCACGACCTG TATT	TCGCCTCTTCTTCACG ATT	60.0	476	INTRON	Ca_09339	--	M-type
Ca7_P2_11591238	Ca7	11591238	CAAAAA/CAAAAAA	GTGGTCCACGACCTG TATT	TCGCCTCTTCTTCACG ATT	60.0	476	INTRON	Ca_09339	--	M-type
Ca7_P2_11591512	Ca7	11591512	TAAAAG/T	TTGAGTGAGACATTG GCTG	TTCAAGACAACCTGGCT CGTG	60.0	941	INTRON	Ca_09339	--	M-type
Ca7_P2_11600169	Ca7	11600169	GATATAT/GATAT	GAAGCTACCCATTGGC ATGT	TTTCTATTCATCGCGCA AGC	60.3	458	INTERGENIC	--	--	--
Ca7_P2_11600742	Ca7	11600742	CAT/CATAT	AGCTTCGCCGATGAAT AGAA	ATCGACCATCTTCATG CTCA	59.2	734	INTERGENIC	--	--	--
Ca7_P2_11604133	Ca7	11604133	ATTTTT/ATTTTTT	CCGCAATTCGACACTT TTT	ATGGACAAGGAGTGGC TTTG	60.1	336	INTERGENIC	--	--	--
Ca7_P2_11607070	Ca7	11607070	ATTTT/ATTTT	GCAAAAGCTTCACCATC AAA	ATATAGCGGGCCATTG TGAG	59.9	627	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11613361	Ca7	11613361	T/TG	AATGGCCAGAGCCTGA TATG	GGGACATGAGGAAAC CCAT	61.0	597	INTERGENIC	--	--	--
Ca7_P2_11613413	Ca7	11613413	ATTTTTTTTTTTTT/ATTTTTTTTTTT	AATGGCCAGAGCCTGA TATG	GGGACATGAGGAAAC CCAT	61.0	597	INTERGENIC	--	--	--
Ca7_P2_11615265	Ca7	11615265	GAAAAAA/GAAAAAAA	TTTGATCTTGAAAGGCC AGC	CGGCCTGCTAACTGT TAGG	59.9	669	DRR	Ca_09338	--	--
Ca7_P2_11618531	Ca7	11618531	AGTTAATTATGTGAATTATGTTAA/AGTT AATTATGTTAA	CCGAATTGCTTTTTAGC TCG	AACGACATGGACGACA TTGA	60.0	415	INTERGENIC	--	--	--
Ca7_P2_11620401	Ca7	11620401	ATTTTTTTTT/ATTTTTTTTTTTT	GATTTGCCCAAATTCG AGA	GGCCGATGTGGGACAT ATT	60.6	443	INTERGENIC	--	--	--
Ca7_P2_11623547	Ca7	11623547	TATACATACATACATACATA/TATACATA CATACATA	TTGGTCCATCATGCTTT TGA	TGATGATGAAGGTTGC ACAAA	60.1	360	INTERGENIC	--	--	--
Ca7_P2_11623870	Ca7	11623870	TTTTATTTATTTATTTATTTAT/TTTTATT TATTTATTTATTTATTTAT	GCTGAGACGCACAAC CAAA	AAATTTCAATTCATCC CTGTGA	59.7	549	INTERGENIC	--	--	--
Ca7_P2_11624553	Ca7	11624553	TATTAATTAAT/TATTAAT	AGACTCCTTTTGGGGTT TCC	GCAAGACATTGACAAA ACTTTCA	59.3	303	INTERGENIC	--	--	--
Ca7_P2_11626388	Ca7	11626388	CTTT/CTTTT	GTGGAGGCGAATTGAA CCTA	TGGACCCGAAATAAAA ACCA	60.2	239	INTERGENIC	--	--	--
Ca7_P2_11627000	Ca7	11627000	CATATCAGTA/CATATCAGTACTCAATAT CAGTA	TGGTTTTTATTTCCGGT CCA	GCGGATAAGACCGACC AATA	59.9	827	INTERGENIC	--	--	--
Ca7_P2_11641252	Ca7	11641252	ATT/ATTT	TGGTGAGAACAAACATC CCTT	AGGTCTTTGGGTAGTC CGGT	59.9	699	INTERGENIC	--	--	--
Ca7_P2_11641589	Ca7	11641589	GTTTTT/GTTTTT	ACCGGACTACCCAAAG ACCT	CGTCATGCTCATGTGC TTTT	59.7	239	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_11681558	Ca7	11681558	ATT/AT	GCAAGACCCAAAATCA AAGA	AGATTGATGTGACAAG TCCCG	60.0	130	INTERGENIC	--	--	--
Ca7_P2_11682885	Ca7	11682885	CAA/CAA	CCGCTTTAACATCTCAA AGGAA	TCACGCTCTTGAAACAA TGC	60.0	658	INTERGENIC	--	--	--
Ca7_P2_11683622	Ca7	11683622	GAA/GA	TTCCCCGCACAGAAATA AAG	ACACTCCCAAGTCCCA ACTG	60.0	662	INTERGENIC	--	--	--
Ca7_P2_11687400	Ca7	11687400	TTTGCAATTGCAA/TTTGCAATTGCAATT GCAATTGCAA	CGCAGTGAGGGAAAAT GAAT	TCCTCATCTGACGCT CTTT	60.0	527	DRR	Ca_09331	--	G2-like
Ca7_P2_11691921	Ca7	11691921	TA/TAA	GTGGAAAAGGAAGTCG CAAG	GTTGGGGATTGGGGT TTTA	60.8	654	INTERGENIC	--	--	--
Ca7_P2_11692218	Ca7	11692218	AA/AATA	GGATGCACATTAGAGC GACA	GCTGAAGACAGSTATG CGAA	60.0	759	INTERGENIC	--	--	--
Ca7_P2_11697587	Ca7	11697587	ATAAATCGCTAA/ATAA	GGCTATCGCTTATGCA GGAC	TTCAGCGATTTATTCAA CGATTT	60.0	709	DRR	Ca_09328	--	SAP
Ca7_P2_11698139	Ca7	11698139	GAATAATAATAA/GAATAATAATAATAA	AAATCGTTGAATAAATC GCTGAA	GATTTGCATATGGGTG GTCC	60.0	480	DRR	Ca_09329	--	SAP
Ca7_P2_11702989	Ca7	11702989	CG/CGG	CGGAAGCAGAAAAGAC TGATG	ATGAAATTGCATGTGG CCTT	60.3	587	INTERGENIC	--	--	--
Ca7_P2_11703945	Ca7	11703945	AACTACTACTAC/AACTACTAC	GAAGCATTGTCGCTTTG TGA	TAGGGACCACACCTAA ACGG	59.8	553	CDS (large-effect mutations)	Ca_09327	--	--
Ca7_P2_11706506	Ca7	11706506	TAAAA/TAAAAAAA	TGGAAATGGGTTTTCC TGA	AACATTCAATTGGAGG CTCG	60.1	429	DRR	Ca_09327	--	--
Ca7_P2_11707299	Ca7	11707299	AAAAATAATA/AAAAATAATAATAA	TGGGTAGTTGGACGGA TAGG	GAGAGACATTCATTAG CCCACA	59.2	580	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11729720	Ca7	11729720	CAAAAA/CAAAAAA	AACAATCTTGGCCATG GAG	GGCGTGTGCTTGGTAA GAGT	60.3	711	INTRON	Ca_09324	O	NAC
Ca7_P2_11732346	Ca7	11732346	TC/TCC	TTTCAGGCCAGACCA ACT	GGTTCTTGATCCATGC CAGT	59.9	324	DRR	Ca_09323	--	ERF
Ca7_P2_11738685	Ca7	11738685	A/AATGTTC	ACAAGCCGAAAGACT GAAG	TCTACCTCAATGTCTC TCCC	60.3	703	DRR	Ca_09322	P	--
Ca7_P2_11745113	Ca7	11745113	TTTATTATTAT/TTTATTATTAT	GTGGAGGGTGGAAC TGAA	GAATCGCTACCGAATA TGGA	59.0	350	INTERGENIC	--	--	--
Ca7_P2_11751654	Ca7	11751654	CTTT/CTT	CATGTTGACCACCTCCA ATG	AGCCAAATTGGTTTCC ACAT	59.3	428	DRR	Ca_09321	--	C2H2
Ca7_P2_11753608	Ca7	11753608	GTGTTTGTG/GTGTTTGTGACACTTG TTTTGTG	TCTGGTGACCACCTAAA GCC	GCACCATAAATACCA CTCCAA	59.8	695	INTERGENIC	--	--	--
Ca7_P2_11753883	Ca7	11753883	TAAAAAAA/TAAAAAA	TTGTCATCATCTCTTC AGGG	CACTCAATCATCCACT CCC	60.3	859	INTERGENIC	--	--	--
Ca7_P2_11756608	Ca7	11756608	ATAT/ATATAATTAT	CTTTGGGACAGTCTGG TGGT	CAAGACGGACTAGTGG GATGA	60.1	476	INTERGENIC	--	--	--
Ca7_P2_11757918	Ca7	11757918	ATT/ATTATT	TTTCCACAAATGCTGT TCTT	CTTCCGATTCTCCGTG TGAT	60.1	588	INTERGENIC	--	--	--
Ca7_P2_11757957	Ca7	11757957	A/AG	TTTCCACAAATGCTGT TCTT	CTTCCGATTCTCCGTG TGAT	60.1	588	INTERGENIC	--	--	--
Ca7_P2_11759546	Ca7	11759546	ACCCCC/ACCCCCC	GTTATGTGATGGACCC CAGG	CTCCATCCCAACCAAC CTTA	59.8	644	INTERGENIC	--	--	--
Ca7_P2_1176487	Ca7	1176487	TTATATATATATAT/TTATATATATATA T	GGGATGGGTGGATTTC TTCT	TGGTCGGGACTTCAAG AAAC	60.1	542	DRR	Ca_03355	R	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_11776084	Ca7	11776084	ATAAATTGAATTAATAA	AGATCCGGAGACTTTT GGT	TTTACAAATTACGCGT CAAA	59.3	250	INTERGENIC	--	--	--
Ca7_P2_11778630	Ca7	11778630	ATTGGTT/ATTGGTTTGGTT	ATGCAGTCCCACTAAT GCC	TCCCTTGTCGCAGAAG AAGT	60.0	376	DRR	Ca_09318	H	STAT
Ca7_P2_11778750	Ca7	11778750	AC/ACC	ATGCAGTCCCACTAAT GCC	TCCCTTGTCGCAGAAG AAGT	60.0	376	DRR	Ca_09318	H	STAT
Ca7_P2_11780368	Ca7	11780368	ATTTT/ATTTT	CTGCAACATAAAGCCA GCA	TTACAGGCACATCAG CTTC	60.0	614	INTRON	Ca_09318	H	STAT
Ca7_P2_11783929	Ca7	11783929	ATT/A	GTCCTTTCCACAAGGT GGA	CCACCGCTTCTGATC TCTC	60.0	588	INTRON	Ca_09318	H	STAT
Ca7_P2_11784159	Ca7	11784159	AG/A	GTCCTTTCCACAAGGT GGA	CAGTATCGCTTTCGCA TCAA	60.0	810	INTRON	Ca_09318	H	STAT
Ca7_P2_11786193	Ca7	11786193	TTTTATTTTATTT/TTTT	TCAGTCCGAATTGGTT TGA	GGACCGGTCAGAAGTT GTGT	60.0	651	INTERGENIC	--	--	--
Ca7_P2_11805079	Ca7	11805079	ATTTTTTT/ATTTTTTTT	CACTGCGAGACGCAAA AATA	CCAAAAGAAAACCGAG TTGTG	59.6	698	INTERGENIC	--	--	--
Ca7_P2_11805614	Ca7	11805614	CTACA/C	CACAACGCGTTTCTT TTGG	AAACGAGCAATTGGTG TGAA	59.2	412	INTERGENIC	--	--	--
Ca7_P2_11807151	Ca7	11807151	AAAGTA/AAAGTAAGTA	ATTCACCTGTTCTACCG GCG	TGCACGGTTAAAGATT TTCTTG	60.5	186	INTERGENIC	--	--	--
Ca7_P2_11811184	Ca7	11811184	T/TA	TCATTGCTACGTCGTT GTC	CCATGGCAAAGACCT TCAC	60.5	224	INTERGENIC	--	--	--
Ca7_P2_11813629	Ca7	11813629	ATTTTTTTTT/ATTTTTTTTTT	AACACAAGACAAATTT ATCGCC	ATCGGGCTCTTGACTG AGTG	60.4	586	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11815399	Ca7	11815399	ATAAAAA/ATAAAATTTTAATTAATAA	ACATGATCCAACCAG GATT	GCGCTATAAAGACGC GCTA	60.6	755	INTERGENIC	--	--	--
Ca7_P2_11833082	Ca7	11833082	TA/TACA	CGTTGTCGGTCTTTCAA ATG	TGTTTGCCAATATTCTT TTTATTGA	59.0	462	INTERGENIC	--	--	--
Ca7_P2_11834363	Ca7	11834363	GTATATATAT/GTATATATATAT	TGTTGCTGACGGACATT GAT	CATCCCCAATTTTCTT GACA	59.8	542	INTERGENIC	--	--	--
Ca7_P2_11835558	Ca7	11835558	ATT/ATTT	GTCTCACCAGCAGCAA CAAA	TTTTTGCCGATGAGT ACCT	59.6	485	INTERGENIC	--	--	--
Ca7_P2_11837592	Ca7	11837592	GA/GAGGGATA	GAACGGCATTGTTTAC GGT	TGGCCTAACTTATATTG GATTGGT	60.0	467	DRR	Ca_09314	GC	HSF
Ca7_P2_11841662	Ca7	11841662	TTATTAGTATT/TTATTAGTATTAGTATT	GAGACACGCCGTTGGT ATTT	ATTCACATAGGGCAAA CCCA	60.2	235	INTERGENIC	--	--	--
Ca7_P2_11845746	Ca7	11845746	TAAAAAAA/TAAAAA	TCGACAGTTTTGGTCCA TCTC	CAATTTTTATTGTCTGT CAAGTGG	59.9	870	INTERGENIC	--	--	--
Ca7_P2_11847817	Ca7	11847817	T/TG	TTGGATGCACGTTTGG ACTA	GGGTCCAACCTGTTGC TTGT	60.0	717	INTERGENIC	--	--	--
Ca7_P2_11849362	Ca7	11849362	GAAAAAAAA/GAAAAAAAAA	AAGAATTCTGGTCCATC CCC	GAGTGAGGATGTTGGT CGGT	60.0	656	DRR	Ca_09313	--	--
Ca7_P2_11851006	Ca7	11851006	ATTTTTTT/ATTTTTTTTT	TTTTTGACGGAATTTCT GGG	ACGTGCATTGTGTGG TGTT	59.9	568	DRR	Ca_09313	--	--
Ca7_P2_11851205	Ca7	11851205	CTT/CTTT	TTTTTGACGGAATTTCT GGG	ACGTGCATTGTGTGG TGTT	59.9	568	INTERGENIC	--	--	--
Ca7_P2_11852042	Ca7	11852042	TAA/TAAA	GAACTGCGCTCATCAAA ACA	CAAAGGAAACGAGGA CCAA	60.1	677	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11855415	Ca7	11855415	GTTTTTTT/GTTTTTTT	CCCCCAAAACAAGCTTA TGA	TCAGACACGATAAAATT GCCA	59.2	624	DRR	Ca_09312	--	--
Ca7_P2_11856770	Ca7	11856770	AA/AACGA	TTTTTATTTGCAGGGC TGG	TTGAAGCAAAGCACTC ATGG	60.0	369	DRR	Ca_09312	--	--
Ca7_P2_11860372	Ca7	11860372	GTTTATTATTATTATTATT/GTTTA TTTATTATTATTATT	GTGTCATTGCTGCCTCT CAA	TTCTCTGTTGAATCAG CCC	60.2	457	INTRON	Ca_09311	BK	--
Ca7_P2_11868550	Ca7	11868550	AG/A	GGATTCTTCTAGCAGC CCCT	CTCGGTGTGCAAGCTC AATA	60.0	272	INTERGENIC	--	--	--
Ca7_P2_11869745	Ca7	11869745	CTTAACTTTTAACTTTTT/CTTAACTTT TTAACTTTTTAACTTTTT	AAATGTCCCCACAAGTC AGC	TTTGCTGAACAAGGAA GGCT	60.0	537	INTERGENIC	--	--	--
Ca7_P2_11872096	Ca7	11872096	AACA/AACACA	GGATTGGAATTTGGCT GAA	ACCAATTGGAATGGG TTGA	60.0	767	INTERGENIC	--	--	--
Ca7_P2_11873804	Ca7	11873804	CTTTTTTTTT/CTTTTTTTT	AAATTAAGGGGTGTGTC GGG	CCCTTCTCCTCTTTTC ATGC	60.2	747	INTERGENIC	--	--	--
Ca7_P2_11877812	Ca7	11877812	CTATAGTATA/CTATA	ACCCCAAAATTTACCAA GGC	CGAAGACGAAACTTC AGGC	60.0	216	INTERGENIC	--	--	--
Ca7_P2_11884796	Ca7	11884796	GAT/G	AAGGGAAAGACCTCCC TTCA	AGGGCTGCATGAACAA ATTC	60.1	566	INTRON	Ca_09310	P	C3H
Ca7_P2_11885503	Ca7	11885503	CTTT/CTTTT	GAATTTGTCATGCAGC CCT	GCTTTTGCAACTCTCCT TGC	60.1	626	INTRON	Ca_09310	P	C3H
Ca7_P2_11890390	Ca7	11890390	ATTTTTTTT/ATTTTTTTTTT	AAAACGGTCTCAACTC CAA	AGCGTTGAATATGAGT GGGG	60.0	817	INTERGENIC	--	--	--
Ca7_P2_11892192	Ca7	11892192	TATTACTA/TATTACTAATATATAAATTA CTA	ATTAGGGAGAAACGGA GGGA	TTTTGTGCCCTAACACT TAGCA	59.8	441	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11892244	Ca7	11892244	AATATATATA/AATATATATATATATATA	ATTAGGAGAAACGGA GGGA	TTTTGTGCCCTAACCT TAGCA	59.8	441	INTERGENIC	--	--	--
Ca7_P2_11897201	Ca7	11897201	T/TG	ATTTGTCCAAATCAACC GGA	ACGGCCTAACCTATTC CCAT	59.7	386	INTERGENIC	--	--	--
Ca7_P2_11901493	Ca7	11901493	TAAAAAAA/TAAAAAA	CGTTAAGAAATGACAGC GCA	AACTCATTGAGAGCCA ACATAAAA	59.2	748	INTERGENIC	--	--	--
Ca7_P2_11901839	Ca7	11901839	TTATATA/TTATATATA	AAAGTTACCACTACACC AAATCAAA	GGCTCTGTTTCAAAGC CATC	59.8	384	INTERGENIC	--	--	--
Ca7_P2_11902508	Ca7	11902508	TAAAAA/TAAAAA	CCATTGCACAAGTCCTC AAA	CCATGCGGATTGAAAA ACTT	59.9	757	INTERGENIC	--	--	--
Ca7_P2_11906531	Ca7	11906531	CAAAAA/CAAAAAA	ACAGCACACCACTGTTT CCA	GAGGGAACACTTCCCC ATTA	58.8	698	INTERGENIC	--	--	--
Ca7_P2_11911166	Ca7	11911166	AAGA/AAGAGA	CAATACAATGGCAGCT GGA	TGCAGGAGCATATGAC CAAC	59.7	305	INTERGENIC	--	--	--
Ca7_P2_11922094	Ca7	11922094	TAAAAA/TAAAAA	AACCGACCAAGTAAGA GGCA	CCCAAAGTCGATCCAA TACC	59.2	721	INTERGENIC	--	--	--
Ca7_P2_11924509	Ca7	11924509	TAAAAAAAAAAAAA/TAAAAAAAAA	TGCATGTTCTTACGCTC GTC	TGATGTCTATCCACCTC GACC	59.9	722	INTERGENIC	--	--	--
Ca7_P2_11928029	Ca7	11928029	TAAAAA/TAAAAA	TTTTGTCTCGGCACCTA ACC	ATGGCTGTTCAAGGAA GATG	60.1	368	INTERGENIC	--	--	--
Ca7_P2_11929247	Ca7	11929247	AAAATAAATAAA/AAAATAAATAA TAAATAAATAA	GGTGCCACCTTGCAAA TAAT	TGTCGATCGGCACAAT AAAT	59.0	377	INTERGENIC	--	--	--
Ca7_P2_11931443	Ca7	11931443	TATAA/TA	CATTTTGGGACCCCTCT CAA	TTATGACTCATGGCTC GCTG	60.0	691	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11936037	Ca7	11936037	TACACACACACACAC/TACACACACACAC	ATATCGGAGCTGCAATT TGG	TGCAATCAATGCAACT GTGA	59.8	836	DRR	Ca_09308	--	S1Fa-like
Ca7_P2_11936499	Ca7	11936499	ATTTTTTTT/ATTTTTTTT	TCAAAGCCCTACATCC ATTG	CCCAGACATTGAAGCT GACA	59.8	459	DRR	Ca_09308	--	S1Fa-like
Ca7_P2_11936702	Ca7	11936702	T/TG	TATTGTTACACGAATG CGG	TTATGCATGTCTCCGAT CCA	60.0	460	DRR	Ca_09308	--	S1Fa-like
Ca7_P2_11940343	Ca7	11940343	CTATA/CTA	CCGAATTTGCCTGTTTC ATT	TGGTGGTGCTTAACGT CTCA	60.3	482	INTERGENIC	--	--	--
Ca7_P2_11940766	Ca7	11940766	GTTTTTT/GTTTTTTT	TGAGACGTTAAGCACC ACCA	CAAATTAGATCCCCAG CCA	59.9	598	INTERGENIC	--	--	--
Ca7_P2_11944255	Ca7	11944255	AGT/AGTGT	AATATGGCGGTCAATT TCA	TTCAACCAGCTGTTCT GTGG	59.9	251	DRR	Ca_09307	D	LBD
Ca7_P2_11947327	Ca7	11947327	CAGAGAGAGAGAGAGAGAGA/CAGAGAGAGAGAGAGAGAGAGAGA	AACGAGTTCATCGTGT CCC	AGCCTCACAAAGTGGTG CTTT	59.9	543	INTERGENIC	--	--	--
Ca7_P2_11957834	Ca7	11957834	AATATATATA/AATATATA	TTAACGGCGATCAATGA CAA	TACCAAGTTGGCACAC TCCA	60.2	347	INTERGENIC	--	--	--
Ca7_P2_11960847	Ca7	11960847	ATAT/ATATGTATATGTATGGATGTAT	TGATGGCACATCATTGT CCT	AACCCCATCCCCAAAT AAG	59.9	221	INTERGENIC	--	--	--
Ca7_P2_11961138	Ca7	11961138	CAAA/CAA	AGAGCCCCACTGGGT ACTT	ATTGAATAGGGAAGGG GTGG	60.0	645	INTERGENIC	--	--	--
Ca7_P2_11961783	Ca7	11961783	TAAAAA/TAAAAA	TTTCCACCCCTTCCCTA TTC	TGCTGGATGACACTGC TTTC	60.0	641	INTERGENIC	--	--	--
Ca7_P2_11964869	Ca7	11964869	A/AAATT	CAACTTGACTTGCCCAT TTTC	AGCGAACAATTACATA AGGC	59.2	506	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_11965549	Ca7	11965549	C/CA	CCAGCGTACTCCCTTA GCAC	ACATCACATTGGCAGT GGAA	60.0	304	INTERGENIC	--	--	--
Ca7_P2_11966138	Ca7	11966138	CAA/CAA	TTCCACTGCCAATGTGA TGT	CCCAGTACTTGGGGAT AGGT	60.0	942	INTERGENIC	--	--	--
Ca7_P2_11967997	Ca7	11967997	AGTGT/AGT	TCTGGCAAACAATAA CGG	CATTATTCCAAAAGAC ATTGCG	59.9	100	INTERGENIC	--	--	--
Ca7_P2_11972956	Ca7	11972956	GAT/GATCAAT	GGAAATTCACGTCGCA AACT	TCCTTAGCCAAACACC AACC	60.0	616	DRR	Ca_09304	O	--
Ca7_P2_11973819	Ca7	11973819	ATT/A	TAACTTAGGCCAGTGG TGGG	CCCTACACCCCTGTTTT TCA	59.8	691	DRR	Ca_09305	U	--
Ca7_P2_11979039	Ca7	11979039	AAATAATAATAATAAT/AAATAATAA TAAT	TCACTTGCCCAATCAT TCA	CATGCCTAGGATGAAG GAAGA	59.3	558	INTERGENIC	--	--	--
Ca7_P2_11986018	Ca7	11986018	TAAATTTTCA/T	ATGCAACCCAACCAAT GAT	AAGCTCGAATGCGACT TCAT	60.0	685	INTRON	Ca_09303	O	--
Ca7_P2_11988295	Ca7	11988295	A/ACT	CTGGCATATTACCTCAA TCCTT	TGGAGGGGCTTAGGGA GTAG	60.6	503	INTERGENIC	--	--	--
Ca7_P2_11988816	Ca7	11988816	ATTT/ATTTT	CTACTCCCTAAGCCCT CCA	TTGGTAAAAAGCATACC CACG	59.9	757	INTERGENIC	--	--	--
Ca7_P2_11990830	Ca7	11990830	TATAAAATAAA/TATAAAATAAAATAA	TGATCGCATGAATAAAA TGGTT	TCACTTGCCATGTGTA CGCT	60.3	193	INTERGENIC	--	--	--
Ca7_P2_11990906	Ca7	11990906	CTA/CTATATA	TGATCGCATGAATAAAA TGGTT	TCACTTGCCATGTGTA CGCT	60.3	193	INTERGENIC	--	--	--
Ca7_P2_12006713	Ca7	12006713	AT/ATGT	CCCAATCAGTGGCAGA ACTT	TGGCTCTACAATGGAT GCAG	59.8	720	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12009266	Ca7	12009266	ATG/ATGTTG	ATGGTTGCGTCCAAGA AATC	GGGAGGAAACATTTTC GGTT	60.2	849	INTERGENIC	--	--	--
Ca7_P2_12024461	Ca7	12024461	AATATATATATATA/AATATATATATAT ATA	TGGTTCACAAATCAGAT GGG	GATGCATCCCGATGAA AAA	59.4	260	DRR	Ca_09302	--	WRKY
Ca7_P2_12024656	Ca7	12024656	TGAAGAAGAAGAAGAA/TGAAGAA GAAGAAGAA	TGGTTCACAAATCAGAT GGG	CACACTAATAAGTGCTC TAAGGACCA	60.1	746	INTERGENIC	--	--	--
Ca7_P2_12043277	Ca7	12043277	CTT/CT	AAAATCAATTACAACAA TAATGGCA	ACTCAAGCCGGTAGGG ATTT	60.0	315	DRR	Ca_09299	--	NF-YC
Ca7_P2_12055795	Ca7	12055795	TAATAAATA/TAATAAATAAATA	GGTGAGACCATTGTTCC TCGT	GGAAAGTGTGGGACAC TGAAA	60.0	399	INTERGENIC	--	--	--
Ca7_P2_12064839	Ca7	12064839	CAATAAATAAATAAATAA/CAATAAATA AATAAATAAATAA	TCCGACAAAAACAACA AACA	TGGAGGTGACATGTTT TGGA	59.9	442	INTERGENIC	--	--	--
Ca7_P2_12082056	Ca7	12082056	ATTTTTT/ATTTTTTT	AGAGGGAGTGGTGGTT GTTG	AATTGTCCCTTTGCATT TGG	59.8	553	INTERGENIC	--	--	--
Ca7_P2_12084128	Ca7	12084128	TCAG/T	AGGTCAACAAGATTGAT CCG	CCTTTCATTTTCATTGG CAT	59.8	655	INTERGENIC	--	--	--
Ca7_P2_12085465	Ca7	12085465	GA/GAA	TGACCTCAATCGGAAC AAA	ATCGAGAAGCCGTAAA GTGC	59.5	427	INTERGENIC	--	--	--
Ca7_P2_12087541	Ca7	12087541	ATT/ATTT	ATTTACACGCAAAACC ACA	GGCAAAGCGTCTTTAT GTCC	59.7	245	INTERGENIC	--	--	--
Ca7_P2_12088933	Ca7	12088933	TC/T	TCTTCGTGAACATGGA GTGC	CATGCAAGGGGCTAAT TTGT	60.0	673	INTERGENIC	--	--	--
Ca7_P2_12092590	Ca7	12092590	GAAAAAAGATAAA/GAAAAAAGATAA AAAAAAGATAAA	AAATTGGAGTTGCCAAA CAGA	TCGTCCTTAAATCCACA AACCC	60.2	757	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_12096949	Ca7	12096949	T/TAAA	TGCATACGTAGCCGA TAAA	ACGGGAACGAAACACT ATCG	60.0	525	INTERGENIC	--	--	--
Ca7_P2_12100809	Ca7	12100809	AC/A	GGTTTCCTTGATTGATG CGT	AAGTGGGAAGTAGCCA CCCT	60.0	272	INTRON	Ca_09296	O	MYB_related
Ca7_P2_12106813	Ca7	12106813	T/TATACCCAAAAA	ATTGGGAGGAGATTGT GTGC	ATTGGAGATCAGCATT GCC	60.0	567	INTERGENIC	--	--	--
Ca7_P2_12107219	Ca7	12107219	ATT/ATTT	CAAATGCTGATCTCAA TGC	CAAGCAGCAAAATCAG GACA	60.0	342	INTERGENIC	--	--	--
Ca7_P2_12120094	Ca7	12120094	ATTGGT/ATTGGTTGAATAATCCTTTGG T	TGAATTATGGGCGAGT CCTC	AAGCGACCAATACCTT TCCT	60.0	277	INTERGENIC	--	--	--
Ca7_P2_12124550	Ca7	12124550	A/AT	AGCATCATCAGGATTCC CAC	TCTGGTGAAAGAAGT GGCT	59.8	661	DRR	Ca_09295	--	AP2
Ca7_P2_12125579	Ca7	12125579	C/CG	AGATGGAGGCAGAGGG AAAT	AAGAAATGCAGGTTGG ATGG	59.9	689	DRR	Ca_09295	--	AP2
Ca7_P2_12126514	Ca7	12126514	GTT/GTTT	ATACGTGTCCATTGCCA ACC	TTGCCTTGAGATGCT GTAA	59.4	156	INTERGENIC	--	--	--
Ca7_P2_12128765	Ca7	12128765	T/TA	CCATGGGCCTTGATTAT ACG	AATGAAAAAGGATTG GGGG	60.0	263	INTERGENIC	--	--	--
Ca7_P2_12128914	Ca7	12128914	TTTGTGTGTT/TTTGTGTGTT	CCCCCAATCCTTTTTC ATT	GGAACAAGCGGTATAA AAGCA	59.3	159	INTERGENIC	--	--	--
Ca7_P2_12130607	Ca7	12130607	TCAACAA/TCAACAACAA	TGGCGGTATATGTTGT TGC	AAAGGGAACCAACCA AAGG	60.2	824	INTERGENIC	--	--	--
Ca7_P2_12131166	Ca7	12131166	TCTACTACTACTACTAC/TCTACTAC TACTACTAC	TTGGTTGGTTCCCTTT CTG	ATGCTATTTGACGCG GTTT	60.1	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12131518	Ca7	12131518	CT/CTAAAT	TTGGTTGGTTTCCCTT CTG	TCTGGCGTCTTCAGTA ATCCT	58.9	754	INTERGENIC	--	--	--
Ca7_P2_12131779	Ca7	12131779	ATTTTTTT/ATTTTTT	GAACCGCGTCAAATA GCAT	TTGCTACCAATTTCCAA AAGC	59.2	828	INTERGENIC	--	--	--
Ca7_P2_12134914	Ca7	12134914	CAAAAA/CAAAAA	TGGAGTCGTACGTGCT GTTT	CATGTTGAGTCGTGA AGCAA	59.9	511	INTERGENIC	--	--	--
Ca7_P2_12135703	Ca7	12135703	AAAATTAGAA/AAAATTAGAAATTAGAA	GTTCTTCCGTACCGT GATG	ATCCAACGGGAGTGAA AATG	59.8	114	INTERGENIC	--	--	--
Ca7_P2_12138547	Ca7	12138547	TG/T	TGAGTTGTGTCAAAGG CAGAA	TGAAGCAAATTCGTCAA TCAA	59.3	710	INTERGENIC	--	--	--
Ca7_P2_12140975	Ca7	12140975	C/CACTCTTCTAAGAAGTCA	TGGGATGATTGTGTTT CTGA	TGCTAAGACTGCTATT GGAGA	60.2	664	INTERGENIC	--	--	--
Ca7_P2_12143576	Ca7	12143576	ATTTTTTTT/ATTTTTTTTTT	AAACCAAATATTTTCGG CCC	TTTGTTTACAAGGTATT CTTGCCA	59.9	454	INTERGENIC	--	--	--
Ca7_P2_12144049	Ca7	12144049	TTTATATTTTA/TTTATATTTTAAATTATA TTTTA	TGGCAAGAATACCTTGT AAACAAAT	AAGCAGAATGGCTTAT TTTGGA	60.1	763	INTERGENIC	--	--	--
Ca7_P2_12144759	Ca7	12144759	TAAAAA/TAAAAAA	GCGCAATAATGTAATCC CGT	ATCATACGACACGCCA CAAA	60.0	186	INTERGENIC	--	--	--
Ca7_P2_12145921	Ca7	12145921	TTTAT/TTT	TTTCAATCCACACAGAA ACGA	TCTTTGGGTCAAAACT GGC	60.1	646	INTERGENIC	--	--	--
Ca7_P2_12149160	Ca7	12149160	TTTGAACAATTGAAC/TTTGAAC	AAAGTGCACCCATATCA GGC	TCTACGTCGGGGAAC AATC	59.9	552	INTRON	Ca_09294	TO	--
Ca7_P2_1214926	Ca7	1214926	TATAATAATAATAATAATAATAATAA TAAT/TATAATAATAATAATAATAATAA ATAATAATAAT	GTTTTGTGGTTGGAAG GGA	TGGTGTGGTGACGCTT AAAA	60.3	713	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12163094	Ca7	12163094	CGT/CGTGT	AGAAACCGGGAAGTGG AAGT	CATTGTCAGTTGAGTT GGG	59.1	622	DRR	Ca_09293	--	--
Ca7_P2_12167267	Ca7	12167267	TAAAAA/TAAAAAA	TCCAATGAAATGGAA TGGA	TGATGGTCGTGTTCA CAAAA	60.0	742	INTERGENIC	--	--	--
Ca7_P2_12173022	Ca7	12173022	ATTTTTTT/ATTTTTTT	ATTCCCATTTTTATGCC GAT	TGTAATGAGTCACTAA AGGAGCTG	59.1	899	INTERGENIC	--	--	--
Ca7_P2_12175098	Ca7	12175098	AT/ATT	TTCTCAAACCGCCTTA TGAC	AAGGGAGGCGAGAAAA TCAT	60.0	302	INTERGENIC	--	--	--
Ca7_P2_12176003	Ca7	12176003	AGATCACTCTACT/A	GCAATCGACGGCCTAG TTAT	AGTGAACAACGGGAGG TACG	60.0	609	INTERGENIC	--	--	--
Ca7_P2_12193152	Ca7	12193152	ATT/ATTTT	AGCTGCGAAATTCATG GAAA	CAAAACCTCCTCCAAA CAA	59.9	659	DRR	Ca_09289	--	--
Ca7_P2_1219494	Ca7	1219494	TG/T	GGAGGGATGAATTTGG TTGA	CATCCACATGTATGCTT TCCA	59.4	442	INTERGENIC	--	--	--
Ca7_P2_12195144	Ca7	12195144	AT/A	TGTGTGGGAATTCATT GGA	CTGTTTCAACAGATCG GCAA	59.8	495	DRR	Ca_09288	Q	--
Ca7_P2_12198737	Ca7	12198737	GTTT/GTT	GTCCTTCATCAGCAGG GGTA	GGGAGCTAGAATTCCT CGTCA	60.7	566	INTERGENIC	--	--	--
Ca7_P2_12205566	Ca7	12205566	ATTTTT/ATTTTT	GAGTGGTGGTGGCTT GATT	GGGTTTTGTTGAAGA TTTCG	58.6	496	INTERGENIC	--	--	--
Ca7_P2_12208993	Ca7	12208993	CTTTTTTTTT/CTTTTTTTT	TCAATATTTTGTGCGTC GAAC	GCGAAGAACACGTTGG AAAT	60.1	802	INTRON	Ca_09287	Q	--
Ca7_P2_12209110	Ca7	12209110	AG/A	TGTGGGGCTAATACA ATGG	ACCTTATGGCTACCCC TGCT	60.0	509	INTRON	Ca_09287	Q	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12209243	Ca7	12209243	ATTAAAAATTTT/ATTAAAAATTTTAAAG TTTAAAAATTTT	ATGATGAAAAAGCTGC GAGG	ACCTTATGGCTACCCC TGCT	60.0	426	INTRON	Ca_09287	Q	--
Ca7_P2_12209784	Ca7	12209784	GATTTA/GATTTAAATCCAAAAAGAATTT A	AGCAGGGGTAGCCATA AGGT	GACAGAAAAACACCT CGGT	59.0	775	INTRON	Ca_09287	Q	--
Ca7_P2_12210105	Ca7	12210105	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GGTTGAAAAATTGAAAG GGGA	GCATCCAAGAGAGCAT CCAT	60.2	635	INTRON	Ca_09287	Q	--
Ca7_P2_12210192	Ca7	12210192	TTGTGTGTGTGTGTGT/TTGTGTGTGTG TGTGTGT	TGAAATATGTGCTCCC GTCT	ACGAAGGGCAACAACA AAAC	60.0	823	INTRON	Ca_09287	Q	--
Ca7_P2_12210388	Ca7	12210388	CAAAA/CAAA	ATGGATGCTCTCTTGGA TGC	ACGAAGGGCAACAACA AAAC	60.0	320	INTRON	Ca_09287	Q	--
Ca7_P2_12212704	Ca7	12212704	ATTTTTTTT/ATTTTTTTTTT	GGGCAATTGGAAATC AAGA	TCGCTTTTGATGATGAC ACC	59.7	719	INTERGENIC	--	--	--
Ca7_P2_12212766	Ca7	12212766	ATTTTTT/ATTTTTTTT	GGGCAATTGGAAATC AAGA	TCGCTTTTGATGATGAC ACC	59.7	719	INTERGENIC	--	--	--
Ca7_P2_12212967	Ca7	12212967	TTAAACCA/T	ATCACCACATCGTCCCT AAA	CAAAGGCTTGACAAA GAGC	60.0	754	INTERGENIC	--	--	--
Ca7_P2_12215132	Ca7	12215132	CCTTTC/CCTTCTTTC	TCCAAACCGTCTAAGTT GCC	ATTTTGTGGCGCTAC ACTC	60.1	301	INTERGENIC	--	--	--
Ca7_P2_12215629	Ca7	12215629	C/CAA	GAGTGTAGGCGCCACA AAAT	GGGTTGAGAACAAAG ATGA	59.9	502	INTERGENIC	--	--	--
Ca7_P2_12223756	Ca7	12223756	A/AG	TGGTTGAAATTGTGGA GAACA	TTGGAGACATGATGGA GTCG	59.6	195	INTERGENIC	--	--	--
Ca7_P2_12223774	Ca7	12223774	TAAAAAA/TAA	TGGAGAAAGTAGGTCC AAGGC	TTGGAGACATGATGGA GTCG	59.6	106	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12225445	Ca7	12225445	CTT/CTTCTTTTATTT	GCTTGAATTCGGTCCAA AAC	CCTTAAAGAATTCATCT TAAACGAAAA	59.6	910	INTERGENIC	--	--	--
Ca7_P2_12227697	Ca7	12227697	ATT/AT	TCTTGTAAGTCAACGAAT CTTCATCA	GTCAACGAGAATTGTT GCCA	59.7	431	INTERGENIC	--	--	--
Ca7_P2_12228191	Ca7	12228191	TAAAAA/TAAAAA	GGCAACAATTCTCGTTG ACA	TTTGTGTTGCTCACGCT CAC	60.0	580	INTERGENIC	--	--	--
Ca7_P2_12229813	Ca7	12229813	GT/GTACT	CCTCGTGTCTCTCTTT CGC	CCTTGGCGGTTCATTG TAGT	60.0	655	INTERGENIC	--	--	--
Ca7_P2_12233568	Ca7	12233568	CAAAA/CAAA	AAAATTTATGCCCCCTT TGC	TCGTGGTGTGTGATCT TTTTG	59.6	421	INTERGENIC	--	--	--
Ca7_P2_12234527	Ca7	12234527	AA/AATA	AGACGACGAACAACAC AACG	ATTTTCGATTCCGAGG ACC	60.3	353	INTERGENIC	--	--	--
Ca7_P2_12234696	Ca7	12234696	GAAAA/GAAA	AGACGACGAACAACAC AACG	GTTCCGGCAGCAGTA ATTC	59.7	498	INTERGENIC	--	--	--
Ca7_P2_12237162	Ca7	12237162	CCTCT/CCT	CATGTTCTAACCATGCA CCG	TTGTATTCTCGCTTGA GCC	60.4	763	INTERGENIC	--	--	--
Ca7_P2_12237546	Ca7	12237546	TT/TTAT	AGCAAATGCTCCAAGA CCAC	TTGTATTCTCGCTTGA GCC	60.4	548	INTERGENIC	--	--	--
Ca7_P2_12237996	Ca7	12237996	ATGT/ATGTGT	GGCTCAAGCGGAGAAT ACAA	GTGGATGAACACACGA ACCA	60.4	488	INTERGENIC	--	--	--
Ca7_P2_12243601	Ca7	12243601	CAAA/CAAAA	GCCATTTGTTGTTTT CGT	TTCCGTGAGTTCAATCA GCA	60.4	883	INTRON	Ca_09285	H	bHLH
Ca7_P2_12263187	Ca7	12263187	GAA/GA	CTATCGTTTAGCTGCGA GCC	GGCGAAATGAATGGC TCTA	60.2	278	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12265210	Ca7	12265210	CAAAAA/CAAAAAAA	TGCCAATTTGAACCAT TTTG	AGTTGGTCGGAATCAG ATGG	59.9	510	DRR	Ca_09283	T	WRKY
Ca7_P2_12266841	Ca7	12266841	CATT/CATTGAAAAGTATATT	GTTGCAACATCGGAGG TTTT	AAAAAGCGGGGATTT AGAA	59.9	508	INTERGENIC	--	--	--
Ca7_P2_12267861	Ca7	12267861	TAAAAAAA/TAAAAA	ACGGTTTGCTGTTGT CAAT	CCACTTCAATAACTCAT GTTAGCAA	59.6	389	INTERGENIC	--	--	--
Ca7_P2_12273174	Ca7	12273174	A/AT	TTCAACCTTTTCATCCT CCA	AGTTAACGGGGTCTT GTGC	59.1	256	INTERGENIC	--	--	--
Ca7_P2_12274061	Ca7	12274061	GGT/GGTGT	TCAGGCACATGAGATG GAAA	ACACGCCCTTCCAAATT ACG	60.0	385	INTERGENIC	--	--	--
Ca7_P2_12274554	Ca7	12274554	GTTTT/GTTTTT	CGTAAATTTGGAAGGC GTGT	TTACACGAGCGTTTGT ATGC	59.9	813	INTERGENIC	--	--	--
Ca7_P2_12278324	Ca7	12278324	GAA/GA	TTGGTCCATGAACATT GAAACA	AGCTAACGCCGCAAA CTAA	60.0	580	INTERGENIC	--	--	--
Ca7_P2_12280015	Ca7	12280015	TAAAA/TAAAAA	TGGTTTTAATGTGTG GGA	TTTGGGATAATTCACC CTTTG	60.0	501	INTERGENIC	--	--	--
Ca7_P2_12282011	Ca7	12282011	GT/GTT	CGATATGGCTCAAAGT GCAC	TACACATGAACAAGCC CCAA	60.0	420	INTERGENIC	--	--	--
Ca7_P2_12282070	Ca7	12282070	A/AGCG	CGATATGGCTCAAAGT GCAC	TACACATGAACAAGCC CCAA	60.0	420	INTERGENIC	--	--	--
Ca7_P2_12282446	Ca7	12282446	TA/T	TTGGGGCTTGTTCATG GTA	CCAACGAAATCCCCT TTTT	60.2	256	INTERGENIC	--	--	--
Ca7_P2_12282939	Ca7	12282939	CAAAAA/CAAAAAA	GTGAGCTTTCACATTC CGT	GGGTTTGTACGAGGG CTAT	60.2	582	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12283212	Ca7	12283212	TAAA/TAA	ATAGCCCTCGTACAA CCC	ATTTGTGGACATTGAG GCG	60.9	239	INTERGENIC	--	--	--
Ca7_P2_12283477	Ca7	12283477	C/CGACACATAATT	ATAGCCCTCGTACAA CCC	GGGTCTATCTCGAATT GGCA	60.0	943	INTERGENIC	--	--	--
Ca7_P2_12284568	Ca7	12284568	TG/T	GCTTCCACATTATG GTT	ATTTGACGCAACATAAT TTGAA	57.3	365	INTERGENIC	--	--	--
Ca7_P2_12285646	Ca7	12285646	TTCTC/T	TTGAAACCTCATTTGG AGG	CTTCCGTTTGTGGTGG TCTT	60.0	269	INTERGENIC	--	--	--
Ca7_P2_12285974	Ca7	12285974	GAAA/GAAA	TTGAAACCTCATTTGG AGG	TTCCCTCGAATTTATGG TGC	59.9	824	INTERGENIC	--	--	--
Ca7_P2_12288164	Ca7	12288164	AT/A	GTCGTAACCTCCTAG CCCA	GATCAGAAACGCAGAT GCAA	60.0	662	INTERGENIC	--	--	--
Ca7_P2_12288803	Ca7	12288803	CATATATATATAT/CATATATATAT	GTAATTTGGGGCTGC AATA	TGGACCTTGTGTTGT GTTG	60.5	494	INTERGENIC	--	--	--
Ca7_P2_12290094	Ca7	12290094	CAAA/CAAAA	GACCATGTCAGGTCAA ACCA	CCCAAAATATAAGCC GCAA	59.9	307	INTERGENIC	--	--	--
Ca7_P2_12291131	Ca7	12291131	TCC/TCCC	TAAAGCCAACAACCACA CCA	GGCCCAATTATTTGCC TCTT	60.3	190	INTERGENIC	--	--	--
Ca7_P2_12298321	Ca7	12298321	ATT/ATTT	TCGGGAGAAAATTAACA CGG	ACGGGTAACGTTTTC CCAG	60.0	183	INTERGENIC	--	--	--
Ca7_P2_12300332	Ca7	12300332	GTAATTCCTA/GTA	TTTTCATCCATCGGTCA TCA	TGGAAGGCCTTTTATA GCAAC	59.6	665	INTERGENIC	--	--	--
Ca7_P2_12300505	Ca7	12300505	AATAT/AATATAT	TTTTCATCCATCGGTCA TCA	TGGGAGGGTGTGAAAG TAGG	60.0	838	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12307822	Ca7	12307822	CTTGTTGTTGTTGT/CTTGTTGTTGTTGT	AACCTCAGAAGTGCAC GGC	CGCACATTACTTTAACCAACACA	60.0	374	INTERGENIC	--	--	--
Ca7_P2_12317876	Ca7	12317876	TTT/TTTCTT	TGAGCAAATTTGGTGA GCTG	AGCACATTGCATTTCTCTCC	59.3	208	INTRON	Ca_09281	R	G2-like
Ca7_P2_12320796	Ca7	12320796	TTGTG/T	GAGCGAAAATGAAACGAAGC	AACCGGAGGTGTGAAATCAG	60.0	340	INTRON	Ca_09281	R	G2-like
Ca7_P2_12321093	Ca7	12321093	GTT/GT	GAGCGAAAATGAAACGAAGC	GATGGGTTAGCCAGCTTTCA	60.2	854	INTRON	Ca_09281	R	G2-like
Ca7_P2_12325085	Ca7	12325085	TAAA/TAA	GCCCCTGCTGTTGTTATGTT	GAGCATGCAGCCAAATTAT	60.1	601	DRR	Ca_09281	R	G2-like
Ca7_P2_12325557	Ca7	12325557	AT/A	TCACACCTGGGACATGAGA	TGCACCCATGTGTTCTGAAT	60.0	564	DRR	Ca_09281	R	G2-like
Ca7_P2_12327107	Ca7	12327107	AATATATATAT/AATATATATATAT	TGTGGTTGTTGCCTTAGTG	AAACCGATCACCGATCAAAG	59.9	810	INTERGENIC	--	--	--
Ca7_P2_12329873	Ca7	12329873	TAAA/TAAAA	TTCAATATTGCGTGCCGTA	TGGTTTAGTGGGTTGGGGTA	60.1	534	INTERGENIC	--	--	--
Ca7_P2_12332691	Ca7	12332691	TCACAC/TCAC	CATGGGAGATCGATTGGAC	CCTGCAACAAGTACCCGAAT	60.0	659	INTERGENIC	--	--	--
Ca7_P2_12336026	Ca7	12336026	CTTATTATTATTATTA/CTTATTATTATTATTA	GGATCAAGAGGTCACCGAAA	GACCAAGGCCAACACCTAGATA	60.1	454	INTRON	Ca_09279	CR	Nin-like
Ca7_P2_12339660	Ca7	12339660	CAAA/CAAAA	AAATGTGGGTTGAGGGTCAG	GTGTCGTGTCTGGCTGAGAA	60.0	280	DRR	Ca_09278	--	--
Ca7_P2_12346325	Ca7	12346325	ATTTTTT/ATTTTTT	AATTCTGGAACCGAGGTTGA	CGTGTATCGCACACAATA	59.2	536	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_12347854	Ca7	12347854	CATATATATAT/CATATATATATATAT	AATCATGCAACTACACC ACCA	AACGTCGTTCCAGACA CTCC	60.2	434	INTERGENIC	--	--	--
Ca7_P2_12348225	Ca7	12348225	TA/T	TTTTGAAAAGGACGGG ATTG	GCCAAATGTTTGTG CTCT	60.1	534	INTERGENIC	--	--	--
Ca7_P2_12359875	Ca7	12359875	TAGAGAGAGAG/TAGAGAGAGAGAG	GCTTGAAATGGTAATTT AACGGA	CACATAATGCCTTTAAT ACTACGGTG	60.1	428	INTERGENIC	--	--	--
Ca7_P2_12360164	Ca7	12360164	AAT/AATAAATATTAT	TGCCTTTGACAAACAAT TAATACG	TTTGCATGTGTTTGGTT TTG	58.1	812	INTERGENIC	--	--	--
Ca7_P2_12360333	Ca7	12360333	ATTTTT/ATTTT	CACCGTAGTATTAAAGG CATTATGTG	TTTGCATGTGTTTGGTT TTG	58.1	618	INTERGENIC	--	--	--
Ca7_P2_12361782	Ca7	12361782	TAA/TAAA	GACAAAAATGATGCGG TCAA	GAAAACTTAGGCAAC CCCC	59.8	300	INTERGENIC	--	--	--
Ca7_P2_12363477	Ca7	12363477	CGA/C	GGGCTTGAATTTTACGT GGA	AGCAACACGTGCCTTT TACC	60.2	329	INTRON	Ca_09277	K	HSF
Ca7_P2_12367387	Ca7	12367387	GTTTTT/GTTTTTTT	TGCGTTTTGATGATGAC GAT	AGTGGTTACATGGGCA AAGC	60.0	685	DRR	Ca_09277	K	HSF
Ca7_P2_12368647	Ca7	12368647	ATTTTTTTTTTT/ATTTTTTTTTT	TTTGTTTGTTTGCCG TGT	TCGAACGAGGCTCTA AAAA	60.0	727	DRR	Ca_09277	K	HSF
Ca7_P2_12369355	Ca7	12369355	C/CACAAT	TGGCTGTCACATACTC CAG	ATTTTCAACCGCCAAT GAG	59.9	816	INTERGENIC	--	--	--
Ca7_P2_12382742	Ca7	12382742	CT/CTAT	TGGTGATGTTGTAGCA GGGA	TACCAACCAACCGAG AAGC	60.1	630	DRR	Ca_09276	--	ERF
Ca7_P2_12412011	Ca7	12412011	CTCTTTTTTT/C	CAGTATCGCCAGCTCA TTCA	GGTCCAAGCGGTTGAA ATAA	59.9	324	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12422509	Ca7	12422509	GATGTATA/GATGTATATGTATA	TTCAAAAGCAAAATTA TTTCAA	TGTTGATGTGGTTGC CATT	59.8	464	INTERGENIC	--	--	--
Ca7_P2_12423437	Ca7	12423437	TTATATA/TTATA	AAAATAACGATGCACTA AACATGG	AGTGGGGCAAAAGAAA ACCT	60.0	609	INTERGENIC	--	--	--
Ca7_P2_12425707	Ca7	12425707	ATTTTTTT/ATTTTTTTTT	GGTTCTGGTTCAAAGG TGGA	CATGAAAAATATTTATG CAACACACA	60.1	212	INTERGENIC	--	--	--
Ca7_P2_12428219	Ca7	12428219	GT/GTT	TATGATTATGTGCGTTG CCC	TGCCCTCTGACTCACT CTCA	59.7	648	INTERGENIC	--	--	--
Ca7_P2_12429044	Ca7	12429044	TTCTCTCT/TTCTCT	CTCTGCTTTCTTCCTCG GTG	GCAGCAATAGGACCCA CAAT	60.0	206	INTRON	Ca_09272	--	--
Ca7_P2_12432563	Ca7	12432563	GTTT/GTTTT	GCCATAGTTGGTGTG GCTT	CCAAGCCTTTTCTGAA GCA	60.5	819	INTRON	Ca_09272	--	--
Ca7_P2_12442574	Ca7	12442574	CT/CTT	ACAAAAATGCAAAACAA GGC	GGTCCTTCTGCTGTTT CTGC	60.0	457	DRR	Ca_09271	--	--
Ca7_P2_12445875	Ca7	12445875	AATATA/AATA	CAAACTGCCGTTCTTTC ACA	TTGATCCATTAGACCCA CCTG	59.8	345	INTERGENIC	--	--	--
Ca7_P2_12445951	Ca7	12445951	AT/ACGATT	TGTTTGTGCTGGGTCA GAG	TCCGTCAATATATCTTG GGAAAA	59.7	588	INTERGENIC	--	--	--
Ca7_P2_12449022	Ca7	12449022	TAAAAA/TAAAAA	TGGTGTGAGCAAGAAA TCACA	GCATGAAACACAAGCA ACAAA	59.8	637	INTERGENIC	--	--	--
Ca7_P2_1245279	Ca7	1245279	A/AATTCAT	TGCACAAAACACACAAC CCT	TCGCTCCTGTGTCACT TTTG	60.0	468	INTERGENIC	--	--	--
Ca7_P2_12457446	Ca7	12457446	GC/G	TCACGCCACATTGATT GAT	GGAATCCAATGCCACT GTCT	59.9	746	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12464394	Ca7	12464394	GTGG/GTGGTTTGGTTATAATGG	GAACGAAACATGCCG ATTT	GGGAAACAAAAACAAG GCAA	60.0	433	DRR	Ca_09270	--	--
Ca7_P2_12472855	Ca7	12472855	CAGA/CAGAGA	AGTACCGCCATTGATG AGG	TTGTTCTGCTGCCTTT CCT	60.0	608	INTRON	Ca_09269	Z	--
Ca7_P2_12476831	Ca7	12476831	ATTT/ATT	ACTCAAGCAGGTGAGT GGCT	ATGAAAGAGAAATCCC GTGC	59.1	424	INTRON	Ca_09269	Z	--
Ca7_P2_12477809	Ca7	12477809	ATTT/ATTTT	AATAGGTTGCAGTTGGT CGG	CGCAACACATAAGACA TGGG	60.0	849	INTRON	Ca_09269	Z	--
Ca7_P2_12483012	Ca7	12483012	T/TAAGGAG	GCGCAAACTGCAAGT CATA	CCTTTTCGACAGGAA ATCA	60.0	723	DRR	Ca_09268	R	bHLH
Ca7_P2_12484129	Ca7	12484129	A/AT	GTTGCTTTGTGGGAC ACTT	ATGTCTCGCCATTGAA GCTC	60.4	577	INTERGENIC	--	--	--
Ca7_P2_12486738	Ca7	12486738	CAAAA/CAAA	TCTCAAACTAGTTGCA TTCATCA	GTGCATTTGCGAAAAC AAGA	59.9	851	INTERGENIC	--	--	--
Ca7_P2_12486807	Ca7	12486807	A/AG	TCTCAAACTAGTTGCA TTCATCA	GTGCATTTGCGAAAAC AAGA	59.9	851	INTERGENIC	--	--	--
Ca7_P2_12489580	Ca7	12489580	CG/C	CATGCTTCTCAGGTCC CATT	TTCTCCTTCAACGCACA CTG	60.0	748	INTERGENIC	--	--	--
Ca7_P2_12494108	Ca7	12494108	GAAATACA/GAAATACATAGTGTAAAAT ACA	AATGCTAATCCAACCC ACA	ATGCTTGTGGCCATA AATC	59.8	489	DRR	Ca_09267	--	bZIP
Ca7_P2_12495945	Ca7	12495945	TA/T	GATTTCGAATCCCATGT TGC	AAAATGGAAGTGGCAT GAGG	59.9	961	INTERGENIC	--	--	--
Ca7_P2_12495994	Ca7	12495994	AAT/AATTAT	TGCAGGTGTTCTGTTTG GAA	AAAATGGAAGTGGCAT GAGG	59.9	693	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12503615	Ca7	12503615	AA/AATTA	TGGTTGAAATGGACAA GACC	ACCACCTTATTTGTGG CTGC	60.0	780	INTERGENIC	--	--	--
Ca7_P2_12506632	Ca7	12506632	TTATCATATCATATCATCA/TTATCAT ATCATATCA	AAAGAGCATGTTAGCC CACG	GGAAGTGACCAAGGT CTGT	60.0	686	INTERGENIC	--	--	--
Ca7_P2_12509172	Ca7	12509172	ATTTT/ATTTT	TGACCTTGAGAATGCAA CTGA	ATCGAATCTCAACTGC CCAC	60.1	351	INTERGENIC	--	--	--
Ca7_P2_12509201	Ca7	12509201	CTCATCAT/CTCAT	TGACCTTGAGAATGCAA CTGA	TGTGGACTGTGGTGTG GTCT	60.2	410	INTERGENIC	--	--	--
Ca7_P2_12520999	Ca7	12520999	GAAA/GAAAA	AGCGCTCAAAAATTGCA TCT	TGTGTGCGGTCAATTA TTGG	60.4	377	DRR	Ca_09264	--	--
Ca7_P2_12521120	Ca7	12521120	AT/ATATT	AGCGCTCAAAAATTGCA TCT	TGTGTGCGGTCAATTA TTGG	60.4	377	DRR	Ca_09264	--	--
Ca7_P2_12522468	Ca7	12522468	T/TG	GTCCAATTTGCTGTGTG GTG	TCAAAAGCATTGTCGG ATGA	60.2	374	INTERGENIC	--	--	--
Ca7_P2_12524095	Ca7	12524095	TG/T	TGAGATTGGAGGATG AAGG	ATGCAAAATTCATCGC AAA	59.1	334	INTERGENIC	--	--	--
Ca7_P2_12525738	Ca7	12525738	GATCA/GA	GGATATTGCACCTCCTC CAA	TGGAGTGGACTAAACT CACACA	58.3	641	INTERGENIC	--	--	--
Ca7_P2_12533148	Ca7	12533148	AG/A	TTGATCCTTGCACTCAC TCG	ACCAAAATCGATTGGCA CTTC	59.9	846	INTERGENIC	--	--	--
Ca7_P2_12534207	Ca7	12534207	TTTTTTTTATTTTTTAT/TTTTTTTTAT T	GTGCCAGTCGATTGCC TAAT	TCTACTCACAACGAGC CCTG	59.0	691	INTERGENIC	--	--	--
Ca7_P2_12548299	Ca7	12548299	TAAAAA/TAAAAA	TCGCGCAGTACTTTGA CAAT	TAAAAACGCGTTGCTT GTTG	59.9	608	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12550642	Ca7	12550642	TAATTAT/TAATTATGCAAGAATTAT	TTTtaggcccaactc CTG	ATTGACCATCACCCCA AAA	60.0	419	INTERGENIC	--	--	--
Ca7_P2_12557388	Ca7	12557388	ATTTTTT/ATTTTTTTT	TGCATAGGGTGTGTC GTTA	CTTGAATCGGAGAACC AACC	59.5	644	INTERGENIC	--	--	--
Ca7_P2_12566016	Ca7	12566016	AT/ATTT	ATTTGGCTGCTTGGTCA CTT	TCTCCTCGTTTGGATC AGG	60.2	591	INTERGENIC	--	--	--
Ca7_P2_12583983	Ca7	12583983	TC/T	GCCATTCCAATGACGA CTT	GGAGCGTGTGTTTAT GTCA	59.6	204	INTERGENIC	--	--	--
Ca7_P2_12585103	Ca7	12585103	TATTTAATTAAT/TATTTAAT	ACCCGTGCACATCAATT AAA	TCACCATACGTTTGTGT ACGG	59.4	762	INTERGENIC	--	--	--
Ca7_P2_12595438	Ca7	12595438	TAA/TAAA	TATTCCCCTAGTTGT GGC	AAAACAATTTGGGACC CTCC	60.0	208	INTERGENIC	--	--	--
Ca7_P2_12602817	Ca7	12602817	GAAAAA/GAAGTTTGAAAAAAA	TTAGGCTTCACCTCTC AATG	TTCTAAAAGCAGCACA CCCC	60.2	187	INTERGENIC	--	--	--
Ca7_P2_12602908	Ca7	12602908	CTTTTTT/CTTTTT	TTAGGCTTCACCTCTC AATG	TTCTAAAAGCAGCACA CCCC	60.2	187	INTERGENIC	--	--	--
Ca7_P2_12605764	Ca7	12605764	TAAAAAAA/TAAAAAAA	CCAGAAGAAGGAAGG GAAA	GCTTCCATTACGACG AACTG	59.8	573	INTRON	Ca_09260	--	SBP
Ca7_P2_12606584	Ca7	12606584	TAAAAAAA/TAAAAAAA	GGGAAAGTTGCCTCTT GAA	CCGCTCAACCAACAC AAAT	60.9	252	INTRON	Ca_09260	--	SBP
Ca7_P2_12608444	Ca7	12608444	GGTGTG/GGTG	ATGCATTGAAGGAAG GAAA	TCCAAATGTATGCCAC CAA	59.8	311	DRR	Ca_09260	--	SBP
Ca7_P2_12608538	Ca7	12608538	GTTTT/GTTTTT	ATGCATTGAAGGAAG GAAA	TCCAAATGTATGCCAC CAA	59.8	311	DRR	Ca_09260	--	SBP

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12609027	Ca7	12609027	TTATAT/TTAT	TTGGTGGCATACATTT GGA	ACAAGCATGATAGAGG CAAAA	57.5	780	DRR	Ca_09260	--	SBP
Ca7_P2_12632750	Ca7	12632750	TAAA/TAA	TCTCAACACACCCCGA CATA	TGGGCAACCCCTAACT CTTG	60.1	506	DRR	Ca_09258	--	--
Ca7_P2_12633899	Ca7	12633899	CAAA/CAAAA	GGAAGTTTCGTCGGAA TGAA	ATGGTAGGGGTGCTAT GCAG	60.0	625	INTRON	Ca_09258	--	--
Ca7_P2_12634379	Ca7	12634379	GTT/GT	CTGCATAGCACCCCTA CCAT	GGGAAGTGGCAAATTC TCAA	60.1	511	INTRON	Ca_09258	--	--
Ca7_P2_12637354	Ca7	12637354	TAAAAAA/TAAAAAAA	AGTAAACGCAACATGG GGAG	GGTACTCTTCTGGCAT GGGA	60.1	264	INTRON	Ca_09258	--	--
Ca7_P2_12641530	Ca7	12641530	AAT/AATGAT	TTGCTTCATTTTCCCT TTG	ACTCTGAACCTTCTCG CCA	60.0	626	INTERGENIC	--	--	--
Ca7_P2_12645517	Ca7	12645517	TAAATTAAAAATTAAAA/TAAATTA ATTAATAATTAATAA	TGGACCAAGCAGAAC ACAG	GGAGGCAGTCATTAGT TGGG	59.6	500	INTERGENIC	--	--	--
Ca7_P2_12646332	Ca7	12646332	CATAGTATA/CATA	TTGGGACAGGTGTGGA ATCT	CACGGTGTGTTGTCGA GATG	60.2	576	INTERGENIC	--	--	--
Ca7_P2_12646599	Ca7	12646599	TTACCAT/TT	GCCACCTGGGATTCTG TATG	ATAGGCCGCAGGTGAC AATA	60.5	532	INTERGENIC	--	--	--
Ca7_P2_12648271	Ca7	12648271	T/TA	GAGAGAGGCATTGCA GGTG	GCATTGCGATAGTGCT CTCA	60.1	487	INTRON	Ca_09256	I	--
Ca7_P2_12648296	Ca7	12648296	AAATTAATTAATTAATTAATTA/AA TTAATTAATTAATTAATTA	GAGAGAGGCATTGCA GGTG	GCATTGCGATAGTGCT CTCA	60.1	487	INTRON	Ca_09256	I	--
Ca7_P2_12653885	Ca7	12653885	TTTAATTAAT/TTAAT	AAGTGTGTTGAAGATGA AGCGA	ATGCACTTGCACTGCC ATAA	60.3	400	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12662488	Ca7	12662488	CATAAATAAAT/CATAAAT	GGGTTGGGGTACCTTC CTTA	GCACAACATTGACGC CCTT	60.1	359	DRR	Ca_09255	T	FAR1
Ca7_P2_12662585	Ca7	12662585	TAAAA/TAAAAA	GGGTTGGGGTACCTTC CTTA	GCACAACATTGACGC CCTT	60.1	359	DRR	Ca_09255	T	FAR1
Ca7_P2_12663192	Ca7	12663192	AGGGG/AGGGGG	AACCTTCCCATCCTCC AAC	GGAGCTAGCAGAAGCA GCAT	59.9	906	DRR	Ca_09255	T	FAR1
Ca7_P2_12673579	Ca7	12673579	AT/A	AGCACTGCACACGGTT TATG	TGGCGAGGTATCCTTT CATC	60.0	170	DRR	Ca_09254	G	--
Ca7_P2_12675213	Ca7	12675213	TGGG/TGG	CTTGCACGAAAGCATTT GAA	CCATTTGAGCCAAACT GGAT	59.9	444	DRR	Ca_09254	G	--
Ca7_P2_12683617	Ca7	12683617	AT/ATT	CAAATTTGGGCCAGAT GACT	AACCTCTACGTCTAGG GGGC	59.6	660	INTRON	Ca_09253	G	--
Ca7_P2_12687693	Ca7	12687693	TAAAA/TAAAA	TCATGTGCAGGATAACT TAGACAAA	TATGTGCAGGGTGATG GAGA	60.1	368	INTRON	Ca_09253	G	--
Ca7_P2_12689465	Ca7	12689465	AATGA/AA	GCACGTTGCAAGTCAG AAGA	GTTGTGGTTGTCATG GTCA	60.4	496	INTRON	Ca_09253	G	--
Ca7_P2_12698848	Ca7	12698848	T/TC	CAAAACCTTAACCCGCT TTT	TGCACGAGAAATCGAT AATCC	60.1	918	INTERGENIC	--	--	--
Ca7_P2_12712927	Ca7	12712927	AAAAGAA/AAAAGAAAGAGGAACAAAGA A	CAGGGGTTTTAGGATTT GGG	CTGTGTGTTGCTGGGT CCTA	59.7	610	INTERGENIC	--	--	--
Ca7_P2_12716061	Ca7	12716061	AATATATATATA/AATATATATATATA	TCGTTGGCCAAGTAATC TCC	CCAGGTCACCTTTCTATT TCCCA	60.3	345	INTERGENIC	--	--	--
Ca7_P2_12724633	Ca7	12724633	AATATATATAT/AATATATATATAT	GTGCATTTTCCCATGTG CTT	ACGAAATACGATGAAA GCCG	60.1	571	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12725129	Ca7	12725129	GTCTAAA/GTCTAAATCTAAA	AATTTTGAGGGGAA ATGG	GGTGTGCACGTTGATG AAAC	60.0	586	INTERGENIC	--	--	--
Ca7_P2_12727322	Ca7	12727322	TA/TAA	TGGGAGGGAGAGAA AATG	TTAAGGGAGCCTTGGT GTTG	60.1	414	DRR	Ca_09248	--	LBD
Ca7_P2_12727467	Ca7	12727467	GC/G	TGGGAGGGAGAGAA AATG	TTAAGGGAGCCTTGGT GTTG	60.1	414	DRR	Ca_09248	--	LBD
Ca7_P2_12730150	Ca7	12730150	TGAAGAG/TG	CGCAGCTGTCATTTCT TCA	TTTCAGCAGATACTT GCAC	60.0	426	INTRON	Ca_09247	--	LBD
Ca7_P2_12731390	Ca7	12731390	TCA/TCACA	GCCAATTGTTCTCCAA AGA	AAGAGAAGCTCCATT GAGCA	59.2	871	DRR	Ca_09247	--	LBD
Ca7_P2_12732897	Ca7	12732897	CTTTT/CTTT	CAACTGCAGTATTTGG GCA	CTCCCCACCCAAATC TTAT	60.0	708	DRR	Ca_09247	--	LBD
Ca7_P2_12733309	Ca7	12733309	ATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATT ATTATTATT	ATAAGATTTGGGGTGG GGAG	GGTTGCGTCTAGCGAA AGTT	59.5	374	INTERGENIC	--	--	--
Ca7_P2_12742381	Ca7	12742381	CG/CGG	TTCTATCTGCGGCA ACT	TTGCTCCTGCTCTC CATT	60.1	631	INTERGENIC	--	--	--
Ca7_P2_12742472	Ca7	12742472	ATTTTTTTTTTT/ATTTTTTTTTT	TTCTATCTGCGGCA ACT	TTGCTCCTGCTCTC CATT	60.1	631	INTERGENIC	--	--	--
Ca7_P2_12743960	Ca7	12743960	AAAAATAAAATAAA/AAAAATAAAATAAA ATAAA	TGGAGCACAACT CCAA	GGCACGAAACACAA AATA	59.6	308	INTERGENIC	--	--	--
Ca7_P2_12745134	Ca7	12745134	AAACTT/AAACTTGAATTATATACTT	TTTGAACACAACAAC TCCA	GTAGGGTTAAAGGGG CCGA	60.2	206	INTERGENIC	--	--	--
Ca7_P2_12751224	Ca7	12751224	AAAAATAAAATAAA/AAAAATAAAATAAA AATAAA	CTTGAAGTGGGGTTGG ATGT	GCGGATGCCAAATTA GAAG	59.7	811	DRR	Ca_09244	T	YABBY

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_12762980	Ca7	12762980	ATATTATT/ATATT	CGTTGTGTTTGAATG ACC	GTTCAACATTGGACCG AGTT	59.8	516	DRR	Ca_09243	H	--
Ca7_P2_12773412	Ca7	12773412	GT/GTT	TTGGACTTGAGAAAGG TGGG	TTGTGTTGACTGGTTT GGGA	60.0	747	INTRON	Ca_09242	--	LBD
Ca7_P2_12775903	Ca7	12775903	A/AC	CATGCATTTTAGTCGTC CGAT	CATAATTGACGTGACTT TTGATGA	59.1	275	INTERGENIC	--	--	--
Ca7_P2_12776234	Ca7	12776234	TA/TAA	CACCAAAATCGATGCAA TGT	GCAATTGGAGGAAAAG ATCC	58.6	899	INTERGENIC	--	--	--
Ca7_P2_12778124	Ca7	12778124	AATTCTTAAGATT/AATT	TGTTGTCTTCCGCGATT GTA	ACTTCAAATTTGGTTGCA GGG	60.0	474	INTERGENIC	--	--	--
Ca7_P2_12778699	Ca7	12778699	AACCT/A	CCCAAGAAGTTTGGGA GTCA	TTGGAGAAATTGGATG TCCTT	58.5	693	INTERGENIC	--	--	--
Ca7_P2_12781101	Ca7	12781101	ATTTT/ATTT	TTTAAGAGCAACCCAC CAG	CGATGTTGGACACCAG ACAC	60.0	729	DRR	Ca_09241	--	LBD
Ca7_P2_12781521	Ca7	12781521	TGTGTCGGTGTGCGTGTGTCG/T GTGTCGGTGTGCG	GTGTCGTGTTTCCAAC ATCG	CGAACTGCATAAGCCT GTCA	60.0	561	DRR	Ca_09241	--	LBD
Ca7_P2_12785546	Ca7	12785546	TAAAA/TAAAAA	GATAACGCCTCGTAGTT CGG	TCAATTCTGCTCGTTGT TGC	60.0	243	INTERGENIC	--	--	--
Ca7_P2_12797932	Ca7	12797932	ATTTTTTTTT/ATTTTTTTTTTT	TTGTCTCGCTGTCAATT TCAA	GCAGGAACAATTTGG GAGA	60.1	636	INTERGENIC	--	--	--
Ca7_P2_12804183	Ca7	12804183	A/AT	CAATTTCCAGGCCCTAC AAT	GGAATTGCACAATTGG TTCC	60.2	917	INTRON	Ca_09239	Q	--
Ca7_P2_12805237	Ca7	12805237	CAAAAA/CAAAAA	AATGGCCAAAAAGATGT TGC	CTGATGGTCCTGGCTT GTTT	60.1	674	INTRON	Ca_09239	Q	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12806460	Ca7	12806460	AT/A	CACACATCAATCCAAGC ACC	GCTCATTGTTCCACAC CCTT	60.0	724	INTRON	Ca_09239	Q	--
Ca7_P2_12808088	Ca7	12808088	GAATAAGTTGGTAATAAGTTG/GAATAA GTTG	CCTCCAACAGAAAGAG CAGG	AACGTTGGGCTCATGA TTTC	59.9	352	DRR	Ca_09239	Q	--
Ca7_P2_12808768	Ca7	12808768	AATATATATATATATATATATAT/AATATA TATATATATATATAT	AATCATGAGCCCAACGT TTC	GGCGGCATATACCGTC ATAA	60.7	874	DRR	Ca_09239	Q	--
Ca7_P2_12810410	Ca7	12810410	A/AC	GGTAGATCGGCTCAAG AACG	AAAGTGTTCACAAAC GGC	60.0	391	DRR	Ca_09238	--	Dof
Ca7_P2_12810847	Ca7	12810847	CATATATATATATATATATATAT/CATATA TATATATATATATATATA	GCCGTTTGTGGAACA CTTT	ATGCTGCAAGTTTCGA TTGT	58.4	509	DRR	Ca_09238	--	Dof
Ca7_P2_12813867	Ca7	12813867	GAAAAAAAA/GAAAAAAAA	AATCCGTTTCGATCAA GAG	TCAAGTGGGACATGCA AAAA	60.1	725	INTERGENIC	--	--	--
Ca7_P2_12814275	Ca7	12814275	CTTTTTTT/CTTTTT	TTTTTGCATGTCCCACT TGA	CAGAAGTACAGGCCCA CTCC	59.7	239	INTERGENIC	--	--	--
Ca7_P2_12814477	Ca7	12814477	GA/GAATA	TTTTTGCATGTCCCACT TGA	CCAACTGCAATTAA GCCT	59.2	621	INTERGENIC	--	--	--
Ca7_P2_12814674	Ca7	12814674	TAAAA/TAAAA	TTTTTGCATGTCCCACT TGA	CCAACTGCAATTAA GCCT	59.2	621	INTERGENIC	--	--	--
Ca7_P2_12818363	Ca7	12818363	TTTT/TTTTATTT	TCATTACTTTTGATGG CCC	TCGCACATGGTCTTCT CAAC	59.8	253	INTERGENIC	--	--	--
Ca7_P2_12819611	Ca7	12819611	ATT/ATTT	CCACCGTGTTAATTCT TCG	TTCCCTGTTTTTGCT TCC	60.1	173	INTERGENIC	--	--	--
Ca7_P2_12823319	Ca7	12823319	TG/T	TGTCTGCAGAAATTTGT GGC	GCACGCGGATAAACT CTA	60.1	679	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12825941	Ca7	12825941	AGAGAGGGAGAGGGAGAGGGAG/AGA GAGGGAGAGGGAG	CAACCACATTCCACAAC GAG	TCCTGTCCAATAAAGG GTGG	59.8	389	INTERGENIC	--	--	--
Ca7_P2_12826128	Ca7	12826128	ATTT/ATT	CAACCACATTCCACAAC GAG	TCCTGTCCAATAAAGG GTGG	59.8	389	INTERGENIC	--	--	--
Ca7_P2_12826601	Ca7	12826601	TT/TTGTACAAT	CATGACGACCATCAAA GGTG	TTCCAGGAAAGGGTTT TGTG	59.9	568	INTERGENIC	--	--	--
Ca7_P2_12829823	Ca7	12829823	GTTTTTT/GTTTTTTT	AAGTTTGCCAGCTCAA GGAA	CAACCTCCACCTCTCC ACAT	60.0	529	INTRON	Ca_09237	S	--
Ca7_P2_12833468	Ca7	12833468	CAAAAA/CAAAAAA	AAATGATGAGGCTGGC AACT	CCAGGGTTGCCAGTAA GGTA	60.0	480	DRR	Ca_09237	S	--
Ca7_P2_12841332	Ca7	12841332	CAAAAA/CAAAAAA	CGGTCCAGTCATAGAT GCAA	GCCATTGGCAATCATT AGG	60.3	460	INTERGENIC	--	--	--
Ca7_P2_12844595	Ca7	12844595	AT/A	AACCAATAAAGGCAAA AGCAA	TTCAATCACATCATTT CAGGTG	59.9	765	INTRON	Ca_09236	--	--
Ca7_P2_12844900	Ca7	12844900	CTTATTTTATTTTATTTTATTTTATTT TTTATTTTATTTTATTTTATTTTATTT TTATTTTATTTTATTTTATTTTATTT TTA	TGCTCTTCAAAGTAAT TGTTCC	AGATCGACTGCTCCCA AATG	60.2	458	INTRON	Ca_09236	--	--
Ca7_P2_12848385	Ca7	12848385	C/CTAG	AGGTCCCAACGGGAA TATC	TGCTCGAATCTTATGTC CCC	60.0	367	DRR	Ca_09235	--	--
Ca7_P2_12849693	Ca7	12849693	AC/A	CGTATCTGCAGCTCAG CAAG	GCAAACGTGAGGCAT GAAA	59.8	589	INTRON	Ca_09235	--	--
Ca7_P2_12850002	Ca7	12850002	AATTTACAACAT/A	CGTATCTGCAGCTCAG CAAG	ACTCTGACTTGTCGG TTGG	60.2	622	INTRON	Ca_09235	--	--
Ca7_P2_12853842	Ca7	12853842	GTTT/GTTTT	CCAACGTGGAAGTGG AACT	GCTTGGTCGACGAATC TCTC	60.0	589	INTRON	Ca_09235	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12854465	Ca7	12854465	AATATATATATATA/AATATATATATAT ATATATATA	TAAATGGCCGAAAAC TCAAG	GGAGAGCAAGTGCATG TTCA	60.0	594	INTERGENIC	--	--	--
Ca7_P2_12858631	Ca7	12858631	CT/CTAT	AATGAAGTAGGGTGGC GATG	TGAGAGAGAGAGAAAG TAGCACCA	59.8	487	INTERGENIC	--	--	--
Ca7_P2_12861545	Ca7	12861545	TTCT/TT	TTTGGTTCCTCTGACTT GCTAT	TGTGAGCGAATGAAC TCTCA	59.6	785	DRR	Ca_09234	--	Dof
Ca7_P2_12865284	Ca7	12865284	TTA/T	TGACACTCATTGTGTCA CGG	CGGACAGCATTGTTTG TTTG	60.1	177	INTERGENIC	--	--	--
Ca7_P2_12866378	Ca7	12866378	TACC/TACCACC	CTGGTGCACACGGATT TATG	CCGTGAAACACACAAC TTCAA	59.6	573	INTERGENIC	--	--	--
Ca7_P2_12869033	Ca7	12869033	T/TATAAAATATAA	GCGATTGCGTTTGTGT AAGA	TTTGCCGGCTTTAAGAT AGC	59.5	480	INTERGENIC	--	--	--
Ca7_P2_12869712	Ca7	12869712	TCAA/T	GGAGCATCCACAATTCA CAA	AAACCAATACCTCAGT GCCG	60.0	616	INTERGENIC	--	--	--
Ca7_P2_12870052	Ca7	12870052	TTCAATA/TTCAATATCAATA	CGGCACTGAGGTATTG GTTT	TTCCAACGATGGACTTT TCA	59.1	384	INTERGENIC	--	--	--
Ca7_P2_12871024	Ca7	12871024	TTCTCT/TTCTCTCT	CGCTGAAGTGGTTTTG TGAA	AGAACCATGCTCTTGC CACT	59.9	276	INTERGENIC	--	--	--
Ca7_P2_12877058	Ca7	12877058	CAAAAA/CAAAAAA	TGACATTTTAACCATCG AACCA	GAGGACAAAGCCCAAA CAAA	60.1	903	DRR	Ca_09232	--	FAR1
Ca7_P2_12883732	Ca7	12883732	C/CTCATGTGTTG	GGTTGCACCTCCAGTT CATT	CCACTCATAAATGCAC CACC	58.9	159	INTERGENIC	--	--	--
Ca7_P2_12891383	Ca7	12891383	G/GAAATT	GTAAGAGGAAAGGGGC CAAG	TCCGCATGTGCTCAGT TTAC	59.9	389	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	Indels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12897407	Ca7	12897407	ACCCC/ACCCCC	TGATGTTTTCCATCCA GCA	ACCTCACAAATGCACT CGAA	59.3	707	DRR	Ca_09230	O	--
Ca7_P2_12897501	Ca7	12897501	GTTTTTTT/GTTTTTTT	TGATGTTTTCCATCCA GCA	GGCCACATACATGATC TCCA	59.3	821	DRR	Ca_09231	H	B3
Ca7_P2_12907056	Ca7	12907056	T/TCACAAA	CATTTCATCTTGCATCTC ACTCA	CGGTCCAAACCCTGAT AAAA	59.9	642	INTERGENIC	--	--	--
Ca7_P2_12909885	Ca7	12909885	T/TG	AGATGCAAATAAACCTC TCGTT	TTGTTTGACCCGTAATG GAA	60.0	821	INTERGENIC	--	--	--
Ca7_P2_12915494	Ca7	12915494	ATTT/ATTTT	GAGGGACCACTCCCCA TTAT	CATTCTCCACCACGCT ATCA	59.7	583	DRR	Ca_09229	H	B3
Ca7_P2_12915710	Ca7	12915710	T/TTA	GAGGGACCACTCCCCA TTAT	CATTCTCCACCACGCT ATCA	59.7	583	DRR	Ca_09229	H	B3
Ca7_P2_12917303	Ca7	12917303	AAATAAATAA/AAA	ACACCCCAACAAAAATG GAA	ATTGAAATTGTTGGCC CAG	59.8	550	INTERGENIC	--	--	--
Ca7_P2_12918225	Ca7	12918225	GTTTTTTT/GTTTTTTT	TTTTGTGATTGGCGAG GAAT	TTGCCTTTTAACCGACC AAG	60.1	222	INTERGENIC	--	--	--
Ca7_P2_12921443	Ca7	12921443	T/TAG	TCAGAGTTCTCTCCACC GCT	AGGGAGGTGTTGGTGT TGAG	60.0	526	DRR	Ca_09228	--	--
Ca7_P2_12923877	Ca7	12923877	AC/A	GAAGTGTAGCCTTTCA GGCG	CCTGGACTCGACAAA GGAA	60.2	556	INTERGENIC	--	--	--
Ca7_P2_12930056	Ca7	12930056	GAAAAAAA/GAAAAAAA	CCCCAAATTTATCCCC ACT	TGAATTGGTGTGTTGAAC GGA	59.9	536	INTERGENIC	--	--	--
Ca7_P2_12933114	Ca7	12933114	TAAA/TAA	TGGGGAACCTCTGATT CTTG	TGTTGAACCGTTTTG TCCT	60.4	816	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_12934899	Ca7	12934899	CA/CAA	TGAGCAATTCGTTTTA CGC	TTTGACGAGGGATCAA ACTAGA	58.8	539	INTERGENIC	--	--	--
Ca7_P2_12935259	Ca7	12935259	AAATA/AAATACTTTAATAATA	TTGATCTAGTTTGATCC CTCGTC	AAATCAATCGGTGCTT CCAC	59.9	594	INTERGENIC	--	--	--
Ca7_P2_12935359	Ca7	12935359	TTA/T	TTGATCTAGTTTGATCC CTCGTC	AAATCAATCGGTGCTT CCAC	59.9	594	INTERGENIC	--	--	--
Ca7_P2_12935715	Ca7	12935715	CACACTGACACTGACACTGACACTGAC ACTGACAC/CACACTGACACTGACACTG ACACTGACAC	GTGGAAGCACCGATTG ATTT	TCACAGCCTCAGCATT GAAC	60.0	560	CDS (large-effect mutations)	Ca_09227	--	--
Ca7_P2_12960708	Ca7	12960708	CTTATTATTATTATTATT/CTTATTAT TATTATT	AAAGCTCGACATTCCTG CAT	GCCATGCCAGGTCTAT GAAT	59.9	771	INTRON	Ca_09225	U	--
Ca7_P2_12965277	Ca7	12965277	TAAAAA/TAAAAAA	ACACTGCCAAACATCCA ACA	TGAAGCTTGACAGACCA TTTG	60.0	700	INTRON	Ca_09225	U	--
Ca7_P2_13019233	Ca7	13019233	CTATTATATTATTATA/CTATTATATTA TA	GAGGCTGAGACAAAAC TGCC	CTCACCGBAAGAATAG CAGC	60.0	540	INTRON	Ca_09225	U	--
Ca7_P2_13032221	Ca7	13032221	TG/T	GGCAGTACAAGCATCA AGCA	AACGCTATCACACACC ACGA	60.2	480	INTERGENIC	--	--	--
Ca7_P2_13032927	Ca7	13032927	GAAAAA/GAAAA	TTGAATGCAACCTTGGT GTC	GTTTGAGACCTGTGC CCTA	60.1	602	INTERGENIC	--	--	--
Ca7_P2_13033158	Ca7	13033158	AAAA/AAAAGAAA	TAGGGCACAGGTCTCC AAAC	GAATATGTCGAGTCGC GCTT	60.4	145	INTERGENIC	--	--	--
Ca7_P2_13033470	Ca7	13033470	ATTTT/ATTT	TAGGGCACAGGTCTCC AAAC	CTCTTGAGGGGTTTTG GGTT	60.3	794	INTERGENIC	--	--	--
Ca7_P2_13036285	Ca7	13036285	AAGATAGATAGATAG/AAGATAGATAGA TAGATAG	GTGCACACAAGTGACA ACCC	TTGTGAAAAGCGGAGA TCAA	59.4	691	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13037452	Ca7	13037452	GTTTTTTT/GTTTTTTT	AAATGTGCTGATCGGG TTTC	GACCCAATTTGATGAA GTGAGA	59.0	335	INTERGENIC	--	--	--
Ca7_P2_13037732	Ca7	13037732	TA/TAA	AAATGTGCTGATCGGG TTTC	GGCCGATACGATAATG GGTA	59.6	715	INTERGENIC	--	--	--
Ca7_P2_13038364	Ca7	13038364	ATTAAATTTAAATT/ATTAAATTTAAATT AAATT	AATTGTGATCCGTGGG AAAA	GGAAGGAACGAAATGG ACAA	59.9	406	INTERGENIC	--	--	--
Ca7_P2_13043685	Ca7	13043685	AG/A	ATTGCTCGCTCACTATG CCT	GGTTAATTCGCCGATT TGA	59.9	592	INTERGENIC	--	--	--
Ca7_P2_13044719	Ca7	13044719	CTACTCTT/CTACTCTTTTTACTCTT	AAAATTTTCGCTCCAACA TGG	AAAGCATCAAGCCACA AACC	60.1	884	INTRON	Ca_09223	T	bHLH
Ca7_P2_13044767	Ca7	13044767	ATT/AT	TCGAAGAGTGC GTGAA GATG	AAAGCATCAAGCCACA AACC	60.1	709	INTRON	Ca_09223	T	bHLH
Ca7_P2_13050620	Ca7	13050620	TAAAAA/TAAAA	CCGTTATTCCGGAATC TCA	ATGAGAATGAAGTGA CCGC	60.1	280	INTERGENIC	--	--	--
Ca7_P2_13056007	Ca7	13056007	CAAAAAAAAA/CAAAAAAAAAAAAA	TGTTTAGACACAATTCA AAATCAACA	AGGCATAAGCAGGACA TGGT	59.6	610	INTERGENIC	--	--	--
Ca7_P2_13056716	Ca7	13056716	ATTT/ATT	GGAAAAATCCGCATACCT CAA	ATTGCTTGCCAACCA TTTC	60.1	798	INTERGENIC	--	--	--
Ca7_P2_13060495	Ca7	13060495	AGCGC/AGC	CCCTTCACGTGAGGAT TGTT	CCAGTTTTGCCACCCT ACAT	59.9	767	DRR	Ca_09222	--	MYB_related
Ca7_P2_13060580	Ca7	13060580	TCGTGACC/TCGTGACCGTGACC	CCCTTCACGTGAGGAT TGTT	CCAGTTTTGCCACCCT ACAT	59.9	767	DRR	Ca_09222	--	MYB_related
Ca7_P2_13066626	Ca7	13066626	CAGTTAGTTAGTTAGTT/CAGTTAGTTA GTT	GGAAAGGTGCACACAA GTGA	GAGACCGAATCCGACT TGAA	60.2	442	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13069575	Ca7	13069575	T/TA	CCC GCAATGACATAGG AAAT	ATTCTGCCCATCGTC TAAC	60.1	361	INTERGENIC	--	--	--
Ca7_P2_13071654	Ca7	13071654	GAAGTAAG/GAAG	ACTCGCGATTCAAC CTT	TTTGTGGCTAGAGCT ATGACA	59.9	445	DRR	Ca_09221	--	--
Ca7_P2_13072460	Ca7	13072460	TTATACCTATACCTATA/TTATACCTATA	AGATTGGATGGAGATG CCTG	GGGCGGTTTACAATAC ACTCA	59.9	623	INTERGENIC	--	--	--
Ca7_P2_1307870	Ca7	1307870	CTTTGT/CT	TTTTTAAATAATGGGC ATGACA	TAGTTTGTAAACCCGT GCGT	60.4	758	INTERGENIC	--	--	--
Ca7_P2_1307924	Ca7	1307924	A/AGAT	CAAAATAAGGCATAGT GTTGGA	TAGTTTGTAAACCCGT GCGT	60.4	260	INTERGENIC	--	--	--
Ca7_P2_13091897	Ca7	13091897	CAAACTCAAAACAATGTGAAACCTCA AAACAATGTGAAACC/CAAACTCAAAA CAATGTGAAACC	AATAAGGGGACGGCT GACT	TAGCTGCTTTCACCAT GTCG	60.0	434	INTERGENIC	--	--	--
Ca7_P2_13102924	Ca7	13102924	CATTATTATTATTAT/CATTATTATTAT	TTCTTTCCCTTTTCCAA CCA	ACCCTCTAGCCGAGGA TGAT	60.1	722	INTERGENIC	--	--	--
Ca7_P2_13140570	Ca7	13140570	ACCC/ACCCC	ACACGAACCATCATCCC AAT	TGGTGATATTGTGCCT GGAA	59.9	527	INTERGENIC	--	--	--
Ca7_P2_13162454	Ca7	13162454	AACAGCTA/AA	TTGGCTTCCTCAACTGA TCC	ATGTACCTGGTCCCAT GCTC	59.8	719	INTERGENIC	--	--	--
Ca7_P2_13174523	Ca7	13174523	TATTGGATTAATTG/T	CTTGCCACATGGCATA CAAG	GTCGTTTCAATCCGAC AGTT	60.1	977	INTRON	Ca_16018	--	--
Ca7_P2_13178303	Ca7	13178303	TCAT/TCATATCAAACAT	GGATCTGCTGCTGTTT CACA	AAAACACTGGACCCAC CATC	59.7	338	INTRON	Ca_16019	--	--
Ca7_P2_13178362	Ca7	13178362	GTTTTT/GTTTT	GGATCTGCTGCTGTTT CACA	AAAACACTGGACCCAC CATC	59.7	338	INTRON	Ca_16019	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13185394	Ca7	13185394	AAT/AATTAT	AAACCTTTGGAGCTGG TGG	TGAACCCACAACCTAATC GGA	59.0	534	INTERGENIC	--	--	--
Ca7_P2_13187857	Ca7	13187857	AATATA/AATA	TTTTTCGTTAGCATGTC CTTG	AATAATTCGAACCC GATT	59.5	189	INTERGENIC	--	--	--
Ca7_P2_13188851	Ca7	13188851	TTAAATAAA/TTAAATAAATAAA	CTGCAGCAAAACAGG ACAA	TGCATCGTACCGTCGT GTAT	60.0	424	INTERGENIC	--	--	--
Ca7_P2_13193596	Ca7	13193596	ATTTTTTTT/ATTTTTTTTTTT	TGAGAGCCAGAGAGGA GATCA	TGTGAGGCTAATTTAGT ATGTCGAA	59.3	578	INTERGENIC	--	--	--
Ca7_P2_13193883	Ca7	13193883	CG/CGG	TTCGACATACTAAATTA GCCTCACA	TCTTAAACCGAGACGA ACAAAA	58.9	412	INTERGENIC	--	--	--
Ca7_P2_13195982	Ca7	13195982	AAAA/AAAACAAA	TCCTAAGAGAGTGTGC CGGT	CATCAACATCACAACCC CAA	60.2	540	INTERGENIC	--	--	--
Ca7_P2_13200731	Ca7	13200731	GTTTTTTT/GTTTTTT	GATTGATAGGCCAGCT CCTT	GGACATCGTTTGAAT TTGG	60.2	606	INTERGENIC	--	--	--
Ca7_P2_13203458	Ca7	13203458	CTTTT/CTTTTT	TGTTTTGAGGGTTCCG AGT	TGTATTTGCTTTTATG ATGCATTT	59.1	712	INTERGENIC	--	--	--
Ca7_P2_13204222	Ca7	13204222	ATTTTTTT/ATTTTTTTT	TCCCGTATCAATAAAC CCC	TTCAAAATTCATCAAA CAAGCA	59.6	345	INTERGENIC	--	--	--
Ca7_P2_13204719	Ca7	13204719	TATAAT/TATAATAAT	TGCTTGTGATTGAAT TTTGA	TGAATTTGAATCGACGT GTGA	60.1	568	INTERGENIC	--	--	--
Ca7_P2_13205514	Ca7	13205514	AATATAT/AATAT	TTCGAGGTATTCGAGG TATGC	CGTTGAAATCTTTCATC CGAA	60.1	716	INTERGENIC	--	--	--
Ca7_P2_13205660	Ca7	13205660	AT/ATT	TTCGAGGTATTCGAGG TATGC	CGTTGAAATCTTTCATC CGAA	60.1	716	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13206350	Ca7	13206350	TTC/T	TCAACGATCACTCGTGA TGAA	CACAGGCAGCTGAGTA GCAA	60.3	892	INTERGENIC	--	--	--
Ca7_P2_13207977	Ca7	13207977	T/TC	ATGACCGTCGTCAACT CACA	TTAGTAATGACACGCC CCGT	60.4	550	INTERGENIC	--	--	--
Ca7_P2_13208040	Ca7	13208040	ATT/ATTT	ATGACCGTCGTCAACT CACA	TTAGTAATGACACGCC CCGT	60.4	550	INTERGENIC	--	--	--
Ca7_P2_13223005	Ca7	13223005	CTTTTT/CTTTTTT	TTCCCTTTTGGCCTAAA CAA	TTTTTAATGACACGGGA GCC	59.9	309	INTERGENIC	--	--	--
Ca7_P2_13225532	Ca7	13225532	AAATTAATTAA/AAATTAA	TTGTCGTATTGACGTGT CCC	CAATCCCCTCACTTGG TACG	60.4	413	INTERGENIC	--	--	--
Ca7_P2_13225900	Ca7	13225900	TAAAAAAAA/TAAAAAAAAAAAA	GTTCTACCAAGTGAG GGGA	AAGAGTGCAATTGAAT CACAAAA	58.8	757	INTERGENIC	--	--	--
Ca7_P2_13226706	Ca7	13226706	ATTTT/ATTTTT	TTTTCACCGAAAGAGGA GTGA	TCGCATCAAGACGACA AATAA	59.3	190	INTERGENIC	--	--	--
Ca7_P2_13243078	Ca7	13243078	ATATTA/ATA	ATTTTCCGTCCTCGT TCT	TTTCCCTCAAACCTCA CAC	59.9	690	INTERGENIC	--	--	--
Ca7_P2_13248927	Ca7	13248927	CAA/CAAA	CTCGCGGATACGAGTT GATT	GGAACGTTGATTGCAT CATTT	59.8	421	INTERGENIC	--	--	--
Ca7_P2_13255011	Ca7	13255011	GTTTTT/GTTTT	TCCACTTCAGTCACCAT CCA	GGTAAGTAAATCGCAC CCCA	59.8	653	INTERGENIC	--	--	--
Ca7_P2_13256089	Ca7	13256089	GTC/GTCTC	GTTGGGAGGAGATGCA GAGA	TGTGTTGTGCCCCATG AAGAA	60.0	850	INTERGENIC	--	--	--
Ca7_P2_13278128	Ca7	13278128	TAAAA/TAAAAA	GACACGGTAGACCGAC AACA	AATGGAACAACCCATC ACCT	59.1	802	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13283430	Ca7	13283430	TAAAAAA/TAAAAAAA	ACATCAGGCTGTCTGG GAAT	CCATATTCATCCATCGC CAC	61.1	747	INTERGENIC	--	--	--
Ca7_P2_13285824	Ca7	13285824	AAAAACAAT/AAAAACAATTCTCAAAACA AT	AACGACGGTCTTGTAAG GCAA	CACAAGACCCGAAAAA GGAA	60.1	628	INTERGENIC	--	--	--
Ca7_P2_13286467	Ca7	13286467	GAAAAAAA/GAAAAAAA	TTCCTTTTTCGGGTCCTT GTG	ATCGACACGGTTGTGA AGCC	60.0	935	INTERGENIC	--	--	--
Ca7_P2_13299548	Ca7	13299548	TTCGG/T	TATGATCCCCATGTCCG TTT	CGCTGCTCAAAATCTTA GGG	60.0	845	INTERGENIC	--	--	--
Ca7_P2_13299994	Ca7	13299994	GC/G	CCCTAAGATTTTGAGCA GCG	GAAGTGGGCTTGACT ATGC	59.7	213	INTERGENIC	--	--	--
Ca7_P2_13303595	Ca7	13303595	TTGT/TT	GGGTAGAAAAATATGC CCCC	CGTGGTGTGAATTGTA TTCG	60.0	545	INTERGENIC	--	--	--
Ca7_P2_13304707	Ca7	13304707	ATTTTTTTTT/ATTTTTTTTT	AGAGTTATGCATCTTGG CCG	AAAACCTTGATTCCCATC CCC	60.0	337	INTERGENIC	--	--	--
Ca7_P2_13306728	Ca7	13306728	AAGAGAGA/AAGAGA	TGTGTTTGATAAGAG GGAAAA	TTTCTGACCATTGCA GTTATG	60.0	185	INTERGENIC	--	--	--
Ca7_P2_13311826	Ca7	13311826	TC/T	TGGAGCGCACATTTTGG TAG	CGCGAACTAAGTCGCT TTCT	59.8	407	DRR	Ca_16026	K	TALE
Ca7_P2_13313904	Ca7	13313904	TAAAA/TAAAAA	ACCCTGGCATTATGA CCA	TCGCATTTGATTCTTTT GGA	59.2	694	INTRON	Ca_16026	K	TALE
Ca7_P2_13319582	Ca7	13319582	TAGAGAGAGAGAGAGAGAGAGAGA/ TAGAGAGAGAGAGAGAGAGAGA	ATTGGGGAGGGAGTGT CTTC	CTTCCTTGCAACAACA GCAA	60.0	925	INTRON	Ca_16026	K	TALE
Ca7_P2_13321942	Ca7	13321942	TTT/TTTGTT	CTTTGCTCTTCAACACC TCC	GTTGGTTCCCAAAGGA CGTA	59.8	774	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13335801	Ca7	13335801	TA/TAA	CCACCACCTTTTATGAT GTAGCA	TAAATGCATTTTGGCC CTC	60.1	729	INTERGENIC	--	--	--
Ca7_P2_13339565	Ca7	13339565	TTCG/T	TGTCCTGCCACCATCTT ACA	TCGGATCTCGATAATT GATAACA	59.8	763	INTERGENIC	--	--	--
Ca7_P2_13340173	Ca7	13340173	ATTTTT/ATTTTTTT	ATGAGCCGTAAAGTTG CACA	ATTGCTCCCTTAGCTTT CCC	59.7	156	INTERGENIC	--	--	--
Ca7_P2_13344554	Ca7	13344554	AAATTAATA/AA	GATGGGTTGTTGTTCTT GGG	AAAAGGCTTCTCTCAA GCCC	60.0	641	INTERGENIC	--	--	--
Ca7_P2_13345085	Ca7	13345085	GAC/GACAC	GTGTTGGGCTTGAGAG AAGC	GCTTAGGCAGCCACAA AATC	59.9	701	INTERGENIC	--	--	--
Ca7_P2_13347514	Ca7	13347514	GTAT/GTATAT	GGAAAATCAACTTGTG CAATG	GGCCAAGCATGTCTTC AAAC	60.6	681	INTERGENIC	--	--	--
Ca7_P2_13348048	Ca7	13348048	TAA/TA	TGTGTTTGAAGACATGC TTGG	CATAAATCGAATCCAGT GGAAA	58.9	303	INTERGENIC	--	--	--
Ca7_P2_13361048	Ca7	13361048	GTTATTTATTTATTT/GTTATTTATTT	ATGGAGGAAGTGGATA GGGG	TAGGCGACCCACCAAG TAAA	60.5	567	INTERGENIC	--	--	--
Ca7_P2_13367462	Ca7	13367462	ACC/AC	TGAAGTCGCTGTATTG GCAG	ATTGCAACTTCAACCAA GGG	60.0	194	DRR	Ca_16027	TZ	--
Ca7_P2_13371863	Ca7	13371863	TATTTCA/TATTTCA	GGGACACTCCATCATTT GCT	CCGGAAAAAGTGTAC GAAT	60.0	244	INTERGENIC	--	--	--
Ca7_P2_13373713	Ca7	13373713	CTT/CTTT	CTTTGGCTTGAGGGAG AGTG	GTTGGAATGCCACATG TCTG	60.0	526	INTRON	Ca_16028	C	bHLH
Ca7_P2_13381675	Ca7	13381675	GTTTTT/GTTTTTT	AAGCCATCAAGCGAAC CTTA	CTCTAGACACGCGGTG AACA	60.0	310	DRR	Ca_16030	--	HD-ZIP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13381894	Ca7	13381894	TA/TATTATAA	GAGCTACCCAACGTGA AAGC	TCACAACCACACAGGG TCAT	59.8	641	DRR	Ca_16030	--	HD-ZIP
Ca7_P2_13389128	Ca7	13389128	TACACAAGAC/T	TCAAAGAAATCGATCCT CGG	TGGTTGTTTCCTTGT TCCA	60.4	167	INTERGENIC	--	--	--
Ca7_P2_13389252	Ca7	13389252	TATTTTAAATTTTAA/TATTTTAAATT TTAAATTTTAA	TCAAAGAAATCGATCCT CGG	GCAAGCTAATCCATC CTCC	58.7	565	INTERGENIC	--	--	--
Ca7_P2_13389797	Ca7	13389797	CTTCTAC/CTTCTACGTTCTAC	AAGCTTATTCATTGGGG TCG	CAGACCCCTCAACAAG TGGT	60.0	706	INTERGENIC	--	--	--
Ca7_P2_13390520	Ca7	13390520	A/ACC	ACCACTGTTGGAGGG TCTG	CGAAAAATGAAGCATG GGAT	59.9	369	INTERGENIC	--	--	--
Ca7_P2_13391015	Ca7	13391015	CAAA/CAA	TGTTCCATGCATCATCG ACT	ATGGTGGTCGGAGATG GTAA	60.2	713	INTERGENIC	--	--	--
Ca7_P2_1339137	Ca7	1339137	ATTTTTTTTT/ATTTTTTTTT	CTTCACAACCAGAGCA CCAA	TGCATTAAATTTTACGG AGAAACA	59.9	638	INTERGENIC	--	--	--
Ca7_P2_13392704	Ca7	13392704	TA/T	GTGAAGTTTCCCATGC CACT	CCTTGCCCCTACAAGT CAAA	60.1	876	DRR	Ca_16032	T	--
Ca7_P2_13395651	Ca7	13395651	ATCT/AT	CCACCCAAACTCGTTCT GAT	TTGACCTGGCCTAAGC TTGT	59.9	549	INTERGENIC	--	--	--
Ca7_P2_13396138	Ca7	13396138	TAAAAAA/TAAAAAAA	CCATACCCCGAACTC GTCT	GGCTTGTTACCTCTCA AAGGC	60.3	747	INTERGENIC	--	--	--
Ca7_P2_13398935	Ca7	13398935	AAACTATTTTATAACTATTTT/AAACTAT TTTATAACTATTTTATAACTATTTT	GGGCTTCGTCGTATCA AAAA	CACAACCAATCCTAGG TGAT	59.9	290	INTERGENIC	--	--	--
Ca7_P2_13399780	Ca7	13399780	AGACG/AG	TGAAAAGAGGCATTTGA AGTGT	TAAGGGCCATGAAC TGAC	59.9	413	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13407668	Ca7	13407668	AATTTTAAAT/AATTTTAAATTTTAAAT	TGATTCACGAAATTGAT CATCC	TTGCAATTTTGGTATCT CGATT	58.6	403	INTERGENIC	--	--	--
Ca7_P2_13408441	Ca7	13408441	AC/A	TGAAACATAAAATTAA CGGAGACA	CCCAAACAAGCCAAT ATAACA	60.1	621	INTERGENIC	--	--	--
Ca7_P2_13409430	Ca7	13409430	TTA/T	ATCGGTTTGATTTTGGC TTC	TATAAGTTGCTTTTGGG CGG	60.1	575	INTERGENIC	--	--	--
Ca7_P2_13410524	Ca7	13410524	TTTCA/TTTCATTCA	ACCTGGAAATTCCCAAA CAA	CACAACGTGTTAGGCC GAC	60.2	398	INTERGENIC	--	--	--
Ca7_P2_13439445	Ca7	13439445	CTTTTTTTTT/CTTTTTTTTTT	AATATGGCAACACATGC TCG	GGCAACAGTCGCCCTTT AGAT	59.3	840	INTERGENIC	--	--	--
Ca7_P2_13453929	Ca7	13453929	AT/ATT	TCCACCATCCCAATCAT TTT	AGCTAGACGGGCAGAT GAAA	60.0	835	INTERGENIC	--	--	--
Ca7_P2_13456910	Ca7	13456910	GA/G	ATTGGACAACCGCGTA AAAT	CCCATGAAATCACAATA AAATCC	59.5	630	INTERGENIC	--	--	--
Ca7_P2_13465466	Ca7	13465466	ATATTTTATTTTA/ATATTTTATTTATTT TA	AACGCTTGCCGTAATG TCC	GTTGCTGGTGTTTAG CCAT	60.0	431	INTERGENIC	--	--	--
Ca7_P2_13467576	Ca7	13467576	GTT/GTTAATT	GCGTCACGTACCCCTTC AACT	TCGGTGATTTTCCAAG TGC	58.6	516	DRR	Ca_16035	I	--
Ca7_P2_13467995	Ca7	13467995	TA/TAAA	TGCACTTGAAAAATACA CCG	TTCTTATTTCTCCACCG ACG	60.1	545	DRR	Ca_16035	I	--
Ca7_P2_13468281	Ca7	13468281	TA/TAATGA	AAACAAGCGCGATGTTT TTC	TTCTTATTTCTCCACCG ACG	60.1	268	DRR	Ca_16035	I	--
Ca7_P2_13478224	Ca7	13478224	ATTTTT/ATTTTT	TGACGATCCACCATAAA ATTG	AGCTAGACGGGCAGAT GAAA	60.0	521	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13479302	Ca7	13479302	AGA/AGAGGA	AATGCACATACCAGCAT CCA	TAGGGCCAATGAAAT GAGG	59.9	505	INTERGENIC	--	--	--
Ca7_P2_13485819	Ca7	13485819	TTTTTATTAT/TT	AGAAAGGGTTTGCAG ATCA	CCCATCCAGCTAAGAA CCAA	60.1	428	INTERGENIC	--	--	--
Ca7_P2_13495232	Ca7	13495232	TTA/TTATA	ATAAATTTTGCGCCGAC AAC	TCCCTTTTACGAAAATG TCCA	59.4	299	INTERGENIC	--	--	--
Ca7_P2_13495702	Ca7	13495702	ATAA/ATAAGTAA	TGGACATTTTCGTAAA GGGA	CTCACTGAGGTTGGGT TGGT	60.0	581	INTERGENIC	--	--	--
Ca7_P2_13496930	Ca7	13496930	CTAGTTAGTTAGTTAGTTA/CTAGTTAG TTAGTTA	TGAATTCATTTTGGTG GAAGA	AACCCAATCAACAATCT CGC	59.9	689	INTERGENIC	--	--	--
Ca7_P2_13497952	Ca7	13497952	CTATATA/CTATATATA	TTGGCATTTCGGGTTCT ATC	GCCTACTAGACGCCAC CATC	59.7	552	INTERGENIC	--	--	--
Ca7_P2_13499342	Ca7	13499342	TTATATATAT/TTATATATATAT	TGTGTTTTTATGCATCC GTGA	CACGACACTAATATTTG TCCCAGA	60.3	328	INTERGENIC	--	--	--
Ca7_P2_13499753	Ca7	13499753	TG/T	TGGGACAAATATTAGTG TCGTGA	AAAAGTGAGCAATGCT TGTC	59.4	429	INTERGENIC	--	--	--
Ca7_P2_13500441	Ca7	13500441	TAAAAAA/TAAAAAA	GGGACAAGCATTGCTC ACTT	TGTCATTTCTGGCGTA GTGTG	59.8	994	INTERGENIC	--	--	--
Ca7_P2_13505017	Ca7	13505017	GCC/GC	TCATCCAAAACATCAG CGT	TTTTTGCGTGTGTTTC TCA	57.9	216	INTERGENIC	--	--	--
Ca7_P2_13505400	Ca7	13505400	TTTTTT/TTTTTTTGT	TTTGCCAAGGGTTTAA GTG	CGTTATTGTGTTTGTTC GGG	58.9	853	INTERGENIC	--	--	--
Ca7_P2_13508896	Ca7	13508896	AA/AATA	TTAACCAGTAGCCAC CCAC	TAGCTCAGCAAGCCTG TCAA	59.9	734	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13516775	Ca7	13516775	ATTTT/ATTTTT	ACCGCGGTAAAAGTTG AATG	ACCACTTTTCTCGGG TCTT	60.0	267	INTERGENIC	--	--	--
Ca7_P2_13522224	Ca7	13522224	TTATATATATATATAT/TTATATATATA TATATATAT	AAGGGTTTGTGTTTTG CAG	ACCACCACACTCCCTC TCAC	60.0	314	INTERGENIC	--	--	--
Ca7_P2_13522997	Ca7	13522997	AT/A	GTGTCATTGTTTTGCG TGG	CAAATTGCCTCCCAAC AGAT	59.9	896	INTERGENIC	--	--	--
Ca7_P2_13523075	Ca7	13523075	TAAAAA/TAAAAAAA	GTGTCATTGTTTTGCG TGG	CAAATTGCCTCCCAAC AGAT	59.9	896	INTERGENIC	--	--	--
Ca7_P2_13523252	Ca7	13523252	GTT/GTTATAATTTATT	GATTTTGGCACCACATT CCT	CAAATTGCCTCCCAAC AGAT	59.9	598	INTERGENIC	--	--	--
Ca7_P2_13542875	Ca7	13542875	CTTTT/CTTT	GAACGGCTACCGAATA TGGA	AGCCCTCCAGACCTT TTTA	60.1	767	INTERGENIC	--	--	--
Ca7_P2_13543109	Ca7	13543109	ATTT/ATT	CCTAACGGACGTCCTA GCCT	AGCCCTCCAGACCTT TTTA	60.1	552	INTERGENIC	--	--	--
Ca7_P2_13545120	Ca7	13545120	TGGG/TGG	TGCAAAGCAAAATTTC ACG	GGCTCCAATAAACTGC CAAA	60.1	475	INTRON	Ca_16039	T	bZIP
Ca7_P2_13545246	Ca7	13545246	GTAAATAAA/GTAA	TGCAAAGCAAAATTTC ACG	GCAAGCCTCTCTGTTTT TGG	60.0	877	INTRON	Ca_16039	T	bZIP
Ca7_P2_13587403	Ca7	13587403	GTATATATATATATATATATATAT/AT GTATATATATATATATATATATATAT TAT	TTCTGTTTCTTGATGTT GCG	TGAATCCTTTGAATTG CATGA	60.4	508	INTERGENIC	--	--	--
Ca7_P2_1358977	Ca7	1358977	TAAAAA/TAAAAAAA	CTTTGAATGGGAAAA GCA	CCCCAAACCATTAAG GAAT	59.9	457	INTERGENIC	--	--	--
Ca7_P2_13592646	Ca7	13592646	TT/TTAT	TTCATCGTCCTTAACCG AAAA	TGACAGATGAAGAAGG GACG	58.8	344	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13597833	Ca7	13597833	A/AT	GGGGTTTTTGGAAACT CTT	TCAAACCCACACAACA GGA	60.0	595	INTERGENIC	--	--	--
Ca7_P2_13599607	Ca7	13599607	TCAATTAATA/T	TGTGGTGTATGGAGT TTTCC	ATGTGGTGCTGCGAAT AACA	60.1	127	INTERGENIC	--	--	--
Ca7_P2_13604163	Ca7	13604163	TAA/TAACAA	AAAGACCCCATGCGA AAAC	CCCAGCCTATTGTAG AGGA	60.0	163	DRR	Ca_16044	R	C2H2
Ca7_P2_13609768	Ca7	13609768	CTTATTATTATTATT/CTTATTATTAT TATT	AACGTGGCAAACCCCTA CTG	CGTCGAAGTTTCCTGA CCTC	59.8	346	INTERGENIC	--	--	--
Ca7_P2_13609805	Ca7	13609805	C/CTT	AACGTGGCAAACCCCTA CTG	CGTCGAAGTTTCCTGA CCTC	59.8	346	INTERGENIC	--	--	--
Ca7_P2_13618980	Ca7	13618980	GA/GTTAGAA	GGTATCCTAAACGCCT CAAA	TGGCTCAAACAAATC AACA	60.1	439	INTERGENIC	--	--	--
Ca7_P2_13622541	Ca7	13622541	GCCCC/GCCC	TTTCTTCATCCGCGTTA TCC	CCGGGATGTTTCTCTT GGTA	59.9	661	INTERGENIC	--	--	--
Ca7_P2_13647901	Ca7	13647901	AATTCAAAATT/A	TCGTCACGCGATTAGA ACTG	TTTCGTGAAATATATTG GAGAGTTTT	58.7	834	INTERGENIC	--	--	--
Ca7_P2_13648749	Ca7	13648749	CAAAA/CAAAAA	CTCATGAAATTTGTGG GCA	CCCAACCGTATGAGCT TGAT	60.0	665	INTERGENIC	--	--	--
Ca7_P2_13649252	Ca7	13649252	ATTTTTTTTTTTT/ATTTTTTTTTT	ATCAAGCTCATACGGTT GGG	GATTGCATCCTCGATC TGTG	59.2	289	INTERGENIC	--	--	--
Ca7_P2_13650116	Ca7	13650116	TAAAAA/TAAAAA	AGTGATTGAAATAATC TTGTCCT	TTTCGAGAAGGGCGTA AAGA	60.0	532	INTERGENIC	--	--	--
Ca7_P2_13654556	Ca7	13654556	TACACACA/TACACA	ATCCAACATCGCACTTC TCC	CCGTGTTACCTCAATG TCTCG	60.6	705	DRR	Ca_16047	DR	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13654889	Ca7	13654889	CTTTTTTTTTTT/CTTTTTTTTT	TTTTGTGCGAAGCATT GAC	GGGGAAATGATTGAG GTTG	58.3	985	DRR	Ca_16047	DR	--
Ca7_P2_13655144	Ca7	13655144	TAAAAAA/TAAAAA	CGAGACATTGAGGTAA CACGG	TTGGCATCGTTGTGT GATT	60.0	597	DRR	Ca_16047	DR	--
Ca7_P2_13656688	Ca7	13656688	GTAATACT/GTAATACTAATACT	GGAAGAGGTGGCAGAG ACAG	ATGATCCATCAGCGTC ATCA	60.0	688	INTERGENIC	--	--	--
Ca7_P2_13664369	Ca7	13664369	ATT/ATTT	AGGTTGGCCATTGTGA GCAC	CCTTGGCTTCCAAAC AAGA	60.2	235	INTERGENIC	--	--	--
Ca7_P2_13665975	Ca7	13665975	ATTT/ATT	TGTGGATTCGGTTTGAT TGA	AGCTTTGGTACGAGCC TGAA	60.0	878	INTERGENIC	--	--	--
Ca7_P2_13673408	Ca7	13673408	CA/CATA	CAACCACGAGTTCACC AATG	GTTCCGAACCCAAGT TTCA	59.9	421	INTERGENIC	--	--	--
Ca7_P2_13673538	Ca7	13673538	AT/A	CAACCACGAGTTCACC AATG	GCTCCATGACACTAGC CACA	59.9	701	INTERGENIC	--	--	--
Ca7_P2_13674863	Ca7	13674863	AG/A	GATCCATAGGCAGCCA AAAT	AGCATAGGCTGGAAGA GCAA	60.1	480	INTRON	Ca_16049	--	--
Ca7_P2_13676108	Ca7	13676108	ATTTT/ATTT	AACTTTCAGGAAGCAG CCAA	TTTTGCCGTACATTG TGA	60.0	651	INTRON	Ca_16049	--	--
Ca7_P2_13678406	Ca7	13678406	AATAT/AATATAT	TATCCTAACCGCTGGA CGAC	GGGATGTCTACGCTTT CTGC	59.8	732	DRR	Ca_16049	--	--
Ca7_P2_13678902	Ca7	13678902	AAAAAAGAAAAAGAAAA/AAAAAA GAAAAAGAAAAAGAAAAA	GCAGAAAGCGTAGACA TCCC	TCCATTCTGTTTCTG CAA	60.0	300	DRR	Ca_16049	--	--
Ca7_P2_13680010	Ca7	13680010	TTGTGTGTGTGTGT/TTGTGTGTGTG TGT	TGTGCTGGTGTAGAC TCCG	CACCATAGCATGGCAT TCAG	60.1	664	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13684363	Ca7	13684363	AAGA/AA	TAAGCATTTCCATTGG GCA	TGAGTTTGTGTTCTT CAAATTCT	58.5	485	INTERGENIC	--	--	--
Ca7_P2_13684569	Ca7	13684569	TA/T	AGGTTGGCAAACCTGA GGAT	CGAGGTGCCATAACAA ATGA	59.5	776	INTERGENIC	--	--	--
Ca7_P2_13684650	Ca7	13684650	ATTTT/ATTT	AGGTTGGCAAACCTGA GGAT	CGAGGTGCCATAACAA ATGA	59.5	776	INTERGENIC	--	--	--
Ca7_P2_13684715	Ca7	13684715	ATAATTTTAAT/ATTTTAATTTTAAT	AGGTTGGCAAACCTGA GGAT	CGAGGTGCCATAACAA ATGA	59.5	776	INTERGENIC	--	--	--
Ca7_P2_13686933	Ca7	13686933	ATTATTATTATTATTATTATTA/ATTA TTATTATTATTATTATTATTATTTA	CGAAGTTCGAACCTTG AAGC	TTAATCTGCGGGGATT TTTG	59.9	363	INTERGENIC	--	--	--
Ca7_P2_13689634	Ca7	13689634	ATTTTT/ATTTTTTT	AACATATCGCATCAGGC ACA	TTTGTTTTCAAGGGTTA TCATTGTT	60.0	234	INTERGENIC	--	--	--
Ca7_P2_13690235	Ca7	13690235	ATTTTT/ATTTTTT	GGCGGAGAGATGAGTT TTCA	ATAGCGCCTGTGACCA TTTT	59.6	116	INTERGENIC	--	--	--
Ca7_P2_13690315	Ca7	13690315	ATACCTA/ATACCTACCTA	AAAATGGTCACAGGCG CTAT	CTACGGTGCAGTGGAG TGAA	59.9	347	INTERGENIC	--	--	--
Ca7_P2_13690474	Ca7	13690474	T/TG	AAAATGGTCACAGGCG CTAT	CTACGGTGCAGTGGAG TGAA	59.9	347	INTERGENIC	--	--	--
Ca7_P2_13690598	Ca7	13690598	CT/CTGTATCGGAGTT	GGCGGAGAGATGAGTT TTCA	TGTGTATCGTTGTCCC TTCG	59.6	890	INTERGENIC	--	--	--
Ca7_P2_1369205	Ca7	1369205	ATT/A	AACGGTGAGTGACCT TATTT	TGTGCTTCAACCGAAT CTTG	59.8	702	INTERGENIC	--	--	--
Ca7_P2_13712605	Ca7	13712605	AAATAATAATAATAATAATAATAATA ATAATAA/AAATAATAATAATAATAATA TAATAATAATAATAATAA	TTGTCTCGAGTTTGAAC CCA	GGATGCCAATGGGTTA AGTG	60.2	476	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	Indels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13714398	Ca7	13714398	A/A	CAAATCTTTCCGGAGC AAG	TTGACAACATCGTGCA TTTT	59.1	332	INTERGENIC	--	--	--
Ca7_P2_13720731	Ca7	13720731	AC/ACC	TTTGTCGAATTTCCAA AGG	TGTAGGGACTGTCAAC AGCG	59.9	679	DRR	Ca_16050	QI	bHLH
Ca7_P2_13721170	Ca7	13721170	ATTAAACCATTCACTGCC/A	CGCTGTTGACAGTCCC TACA	TTGTTGCCCTATTTCT GGC	60.1	358	INTERGENIC	--	--	--
Ca7_P2_13724531	Ca7	13724531	ATT/AT	TTGAAATTTTCCAAATG CCC	GGTGGTTGATTAGGAA GGCA	59.9	516	INTERGENIC	--	--	--
Ca7_P2_13734638	Ca7	13734638	TCTGCTCCGCGCTGC/TCTGC	TGCAATGCTGCTTG GTAA	GAAGTTGCAAGTCTA CGACAA	59.4	394	INTERGENIC	--	--	--
Ca7_P2_13737165	Ca7	13737165	AAATTAA/AAA	TGCAATTAAGATGAAAG GGTAATTT	AACTTTTTCAGGCGAA GCAA	60.0	371	INTERGENIC	--	--	--
Ca7_P2_13740069	Ca7	13740069	CTT/CTTT	CTGGGCGTCGATTGAA GTAT	TGTGTTGCCAAGAGA AGGA	59.4	374	INTRON	Ca_16052	I	bHLH
Ca7_P2_13746372	Ca7	13746372	AAT/AATAT	TAGCACCATGGATTTC GCA	TGCAGTGCCTAGTGGT AACG	59.9	488	INTERGENIC	--	--	--
Ca7_P2_13763206	Ca7	13763206	CACTTA/CA	GGCGTTTAAAGTGTTC ATGC	ATTGGTAAGTTCACGC AGGC	60.1	965	INTERGENIC	--	--	--
Ca7_P2_13768647	Ca7	13768647	CG/CGTTG	TGGTCACTCAATGTTCC CAA	CGACCCATATTACGA CGCT	60.0	742	DRR	Ca_16055	H	--
Ca7_P2_13778077	Ca7	13778077	ATTTTTTTTT/ATTTTTTTTTT	TTGGTCCCAACAAAGT AACAA	CACCTGGTACCATTG ATCTTG	59.5	634	INTERGENIC	--	--	--
Ca7_P2_13800047	Ca7	13800047	TTATATATATATATATATATATATA TATA/TATATATATATATATATATATA TATA	ATGGTGAGGTGGATG GTAG	TTGACTCAATTTATTCG TTATGCAA	59.9	649	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_13839958	Ca7	13839958	GAAAAA/GAAAA	AGAACGGTTGCCAGAG AAGA	CTTGCATGGCCTTAA CCAT	60.0	908	INTERGENIC	--	--	--
Ca7_P2_1386790	Ca7	1386790	T/TGAA	TGGAGTCGACTGGTGT GTGT	GCTCAATCAACATGTC CGTG	60.1	611	INTERGENIC	--	--	--
Ca7_P2_13909902	Ca7	13909902	AATATATATATATATA/AATATATATAT ATATATATATA	TCGTCATTGAAACAGC GAC	GAAAACTTCGGCAATG TGGT	60.0	611	INTERGENIC	--	--	--
Ca7_P2_13958576	Ca7	13958576	GTTATTTATTTATTTATTTAT/GTTA TTTATTTATTTATTTAT	TACATTGGCAACTCATC CCA	TTTTTAATTTGGTGTGG CCT	57.2	668	DRR	Ca_16068	--	--
Ca7_P2_1399356	Ca7	1399356	AAATAATAATAATAATAATAATAATA ATA/AAATAATAATAATAATAATAAT AATAATAATA	TGTCAAGCCACCCATCA TTA	TTGAAAAACGAAAATAA GCCG	59.3	443	DRR	Ca_03328	--	--
Ca7_P2_14026857	Ca7	14026857	GAAAAA/GAAAA	TACAAATTGGATGCGGT TGA	TCTTCCACCCAGTTTTC ACC	59.9	233	INTERGENIC	--	--	--
Ca7_P2_14075293	Ca7	14075293	CATATATATATATATAT/CATATATATAT ATAT	TTTGTTTAGCCACAAC TTTGA	CGTGCTCGGGATTTAT TTGT	60.0	862	INTERGENIC	--	--	--
Ca7_P2_14083296	Ca7	14083296	TTTTTT/TTTACTTTTT	TCCCTACAAACCCGTC CTC	TTTACAGCGCTTTTGG ACA	59.5	291	INTERGENIC	--	--	--
Ca7_P2_14083388	Ca7	14083388	TAA/TAAAAAGCGCTGTAAAA	TCCCTACAAACCCGTC CTC	TTTACAGCGCTTTTGG ACA	59.5	291	INTERGENIC	--	--	--
Ca7_P2_14106257	Ca7	14106257	TGGGGGGG/TGGGGGGGGG	CGAAACTTCCAGATC CAA	TTCAACCAACACATAG GCCA	60.0	505	INTERGENIC	--	--	--
Ca7_P2_14157143	Ca7	14157143	T/TTCC	TGTTTAGATCAACAATT CCCCA	CAAAGGCAGCTGTCAA CAAA	60.0	522	INTERGENIC	--	--	--
Ca7_P2_14206904	Ca7	14206904	AATATATATATATATATATATATA/A ATATATATATATATATATATATA	AGAGAAACGAAGTGGA GGCA	CACACCCGCATAAAC AACA	59.0	819	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_14304242	Ca7	14304242	AATATATATATATATATATATAT/AATATA TATATATATATATATATAT	CACAACACTATTGGAAT GGAAAGA	TTGGTGAATGACTTCC ATGTG	59.4	879	INTERGENIC	--	--	--
Ca7_P2_14308732	Ca7	14308732	AG/A	TGATTTTGGACACGTT GAA	TGTGACGTTCCGTCAA ATGT	60.0	460	INTERGENIC	--	--	--
Ca7_P2_14311103	Ca7	14311103	AA/AACA	GAGGGCCAAATTCAC TCAA	CCAATTCCTCCCTGCA TTTA	59.9	541	INTERGENIC	--	--	--
Ca7_P2_14317932	Ca7	14317932	A/AT	CGAAAAGCGACAAAGA AAGG	GCTTCGGAGTAGTCAC TGCC	60.0	938	INTERGENIC	--	--	--
Ca7_P2_14350409	Ca7	14350409	CGA/CGAAGA	CGTCAAAAAGAGACGA CACAA	ATATATACGCTCCGCC CAAC	58.9	180	INTERGENIC	--	--	--
Ca7_P2_14352764	Ca7	14352764	CAATAAAATAAAATAAAATAAAATA AATAAAATAAA/CAATAAAATAAA ATAAAATAAAATAAAATAAA	GCCTCTTCCTTCTTTG CCT	TTTATTCATGCCCCGAA GAC	59.9	165	INTERGENIC	--	--	--
Ca7_P2_14379603	Ca7	14379603	ACC/AC	TTCCCCATTCTTAACGC TCA	GGTAAGGGCTCTTCC AAAC	59.9	452	INTERGENIC	--	--	--
Ca7_P2_14469399	Ca7	14469399	ACTCTCTCTCTCTCTCTCTCTCTCTC T/ACTCTCTCTCTCTCTCTCTCTCTCT	ATCGTTTACGCGAATAT GCC	CTCAGTGTGAAGCCTC CTCC	60.0	774	CDS (FRAME SHIFT)	Ca_09992	KT	DBB
Ca7_P2_14539376	Ca7	14539376	ATTTTTT/ATTTT	GTCACAGGTGAGGCCA TTTT	TGTTGGATTTGGATCC TTTGA	60.3	475	INTERGENIC	--	--	--
Ca7_P2_14593163	Ca7	14593163	TTTTATTATTATTATTATTATT/TTTT ATTATTATTATTATT	TCCGAATGTCAAATC AAT	GCCAAATGCATATGTG AGGTT	59.8	293	INTERGENIC	--	--	--
Ca7_P2_14669638	Ca7	14669638	AA/AAAGAGACACCTCTGA	CATCGAGCGTTGTCAA GGTA	AATCTTTCTCCAACAC GGC	59.2	114	INTERGENIC	--	--	--
Ca7_P2_14761486	Ca7	14761486	TC/T	GAAGCCGCAACACATG ACTA	TGTCTCACAGCTTGTC CGTC	60.0	678	DRR	Ca_09972	QR	B3

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_14780927	Ca7	14780927	ATTTT/ATTTT	AAATGAAATTTCCGGGA AGG	AGGGATGGAAACACA CGAC	59.8	473	DRR	Ca_09968	O	bHLH
Ca7_P2_14803293	Ca7	14803293	CTATTATTATTATTATTATTATT ATTATTATTATTAT/CTATTATTATTAT TTATTATTATTATTATTATTATT ATTAT	CGACAGTTGATTGCGT ATGG	ACGTAGGAGCAAGATC GCAT	59.9	196	INTERGENIC	--	--	--
Ca7_P2_14831868	Ca7	14831868	AATATATATATATATATATATAT ATATA/AATATATATATATATATATA TATATATATATATATATA	GGCCTATGGCCTGACC TACT	TGCAACAACCTTCCCAT AAA	59.0	796	INTERGENIC	--	--	--
Ca7_P2_14857992	Ca7	14857992	CATATATATATATATATATATAT AT/CATATATATATATATATATATAT AT	TCCACGTTGTTTTAGT GCG	TCCATACACATACAG AGGCA	59.1	864	INTERGENIC	--	--	--
Ca7_P2_14894607	Ca7	14894607	CTATATATATAT/CTATATATATATA T	ACTCAATTCGACAAACG GGT	TGGTAAATGCAAAAGG GCAT	60.3	719	INTRON	Ca_09961	P	--
Ca7_P2_14896597	Ca7	14896597	CTTTTTTT/CTTTTTTTTT	TCTTTTGAGGGGTAAC GGA	AAGCATCCGCTTTTAA CCA	59.7	351	DRR	Ca_09961	P	--
Ca7_P2_14992578	Ca7	14992578	TTATATATATATATATATAT/TTATA TATATATATATATAT	GACTTGACACGAAG CAAA	GCCCTATTATATGCAG GCAA	60.1	345	INTRON	Ca_09954	A	--
Ca7_P2_15094001	Ca7	15094001	AATATATATATATATAT/AATATATATA TATATAT	GGGACTGGGTCATT AGGT	AGCGACATCCAATGC GTAT	60.7	675	INTERGENIC	--	--	--
Ca7_P2_15136894	Ca7	15136894	GTATATATATATATA/GTATATATATA TATATATATATA	TGGAAAAACGGTCATG TGAA	CAAAGATTGGCCAGGA TGTT	59.9	576	DRR	Ca_09940	R	--
Ca7_P2_15202855	Ca7	15202855	ATTTTT/ATTTTTT	TCGTGATTCCCTAGTCC ACC	CAATCTCGCGCTCAAA TGTA	60.0	692	INTERGENIC	--	--	--
Ca7_P2_15255492	Ca7	15255492	ATTTTTTT/ATTTTTTT	ATTGTCGTGCTGTTGT TGC	TTTGCTCACCACCAAA AAA	60.1	901	DRR	Ca_09927	--	--
Ca7_P2_15268881	Ca7	15268881	AAATAATAATAATAATAATAATA ATAATAATAATAATAATAATA/AAAT AATAATAATAATAATAATAATAATA TAATAATAATAATAATAATA	CAAATCAGCAACACTT TACCC	TAGTGCCTGAAGCCTT GGTT	59.9	549	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_15278671	Ca7	15278671	GAAAAAAAAA/GAAAAAAAAA	CATTCAAGTTGGGCA AGTT	TGGATTGCGTAGATCG AACA	60.2	617	INTERGENIC	--	--	--
Ca7_P2_15345914	Ca7	15345914	AATTATTATTATTATTATTATTATT TTATTATT/AATTATTATTATTATTATT TATTATTATTATTATTATT	CAGTCTACGCATGCC TTTT	CTTATGGAAGGGAGGC ATCA	60.0	572	INTERGENIC	--	--	--
Ca7_P2_15389350	Ca7	15389350	GTATATATATATATATATATATATATA GTATATATATATATATATATATATATA TATATATATATA	ATGAGCCATCAATGTCA GCA	GCCGGCAGTGCAATAA ATAG	60.6	348	INTERGENIC	--	--	--
Ca7_P2_15392479	Ca7	15392479	AAATAATAATAATAATAATAATAATA ATAATAATAAT/AAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT	CTCGTGTCTCAAAATCC AAGG	TCACGTGAGGCAATAT CAAG	57.3	911	INTERGENIC	--	--	--
Ca7_P2_15394134	Ca7	15394134	ATATTATTATTATTATTATTATTATT ATTATTA/ATATTATTATTATTATTATT TATTATTATTATTATTA	GAGGGTTTGCAGCTCT TGTC	TTGCACTCCACTGTTTT TCG	59.9	341	INTERGENIC	--	--	--
Ca7_P2_15403078	Ca7	15403078	ATTTTTTTTTTT/ATTTTTTTTTT	TTTGTGTCATTGCAAC CAT	CTTTGTCCCTCTTGTC CCTC	59.8	463	INTERGENIC	--	--	--
Ca7_P2_15446103	Ca7	15446103	ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTAT	ACTTAATGAGAGCGCC CAAA	AAATAAAGGACCACCT CGGG	60.2	516	INTERGENIC	--	--	--
Ca7_P2_15467222	Ca7	15467222	TTTATTATTATTATTATTATTATTATT ATTATTATTATTAT/TTTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTAT	TGGGAAACGGTGCTAA ACTT	TCCATTACGGCAAATT CAA	59.0	716	INTERGENIC	--	--	--
Ca7_P2_15518207	Ca7	15518207	CATATATATATATATATATATATATAT ATAT/CATATATATATATATATATATAT ATATATATATAT	TTCTCATTGTGGCTGCT TTG	AAATCAATATGTTTTAC ATGTGTTTGA	58.0	581	DRR	Ca_09915	--	--
Ca7_P2_15547957	Ca7	15547957	TTATATATATATATATATATAT/TTATA TATATATATATATATAT	TTTAAATGAGTGCCCA GTCACA	GCCACATCATCAAGGT TTAACA	59.9	593	INTERGENIC	--	--	--
Ca7_P2_15617729	Ca7	15617729	TGGGG/TGGG	TGTACGTGAAGTAAAT TGCG	TACCCACACCCCTCAA ATGT	60.1	560	INTERGENIC	--	--	--
Ca7_P2_15626341	Ca7	15626341	TTATATATATATATATATATATAT/TTA TATATATATATATATATAT	ATGAGTGCCTTTGTTTC ACG	CATGATGCTCTCCACA TACCA	59.5	417	DRR	Ca_09907	OR	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_16001405	Ca7	16001405	AATTATTATTATTATTATTATT/AA TTATTATTATTATTATTATTATTAT	AAAACACAACGTGCAAA CGA	GGGTCACCAAGCACAG TTTT	60.0	679	INTERGENIC	--	--	--
Ca7_P2_16038352	Ca7	16038352	AATATATATATATATATATAT/AAATATA TATATATATATATAT	CACGCGGGATATTCTT CATT	AATGCTTTTTGCCTTGT TGG	60.1	612	INTERGENIC	--	--	--
Ca7_P2_16042027	Ca7	16042027	TA/TAGGTCTGTGATAGA	TGACCATGATGAGCCA TTGT	TCGTATACCAAGGAG TCGG	59.9	539	INTERGENIC	--	--	--
Ca7_P2_16122158	Ca7	16122158	AAATAATAATAATAATAATAATA/AA ATAATAATAATAATAATAATA	TCATTAGAAATTCGTT TGGTCA	GGGTGAAATTGGTTTA CAACG	59.2	620	INTERGENIC	--	--	--
Ca7_P2_16162490	Ca7	16162490	AAAG/A	CTCCAACGGTGAACCT AACA	TTGGAGTTGTGCCAAT GTGT	60.0	562	INTERGENIC	--	--	--
Ca7_P2_16173523	Ca7	16173523	GTTTTTTTT/GTTTTTTTT	CCTGGAACGAGGGTTT AACA	TGTTTGGGCTGAGTGA AAAA	59.3	455	DRR	Ca_09865	R	C2H2
Ca7_P2_16240640	Ca7	16240640	TCAACAACAA/TCAACAACAACAA	AACCCAAAGTTAGGGAT CCAA	CACCTCACGTAGAGGA CGCA	60.0	306	INTERGENIC	--	--	--
Ca7_P2_16259772	Ca7	16259772	AT/ATATT	GGAAAGCAACTGTTGG GGTA	AAGAAGACTTTGTTTT GCAAGG	59.0	391	INTERGENIC	--	--	--
Ca7_P2_16278965	Ca7	16278965	TGAGAGAGAGAGAGAGAGAGAGAGAG AGAGAGAGAGA/TGAGAGAGAGAGAGA GAGAGA	ACATCAAACAAGGCACC ACA	TGTTTGGGTTGTGGCA TTTA	59.8	379	INTERGENIC	--	--	--
Ca7_P2_16282303	Ca7	16282303	GATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAAT/GAT AATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT	TCCCTAAATTTGCTGA CCA	CATCAAAAAGCATCAAT CAAGG	59.6	799	INTERGENIC	--	--	--
Ca7_P2_16350982	Ca7	16350982	AATAT/AAT	ATTGATCGCGTAATCCG TCT	TTCGGTTGCATATCTTG CAC	59.7	391	INTERGENIC	--	--	--
Ca7_P2_16354455	Ca7	16354455	CTATATATATATATA/CTATATATATAT ATATATA	AATGCCAAATGTAGGG CAAC	GGGAAAGAGAACACGT GAAAA	59.2	660	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_16870995	Ca7	16870995	TCCCAA/TCCCAACCCAA	TGGATTGAGAATTTTC CGC	GTTGCGAAAAATGGT TTGT	59.8	846	INTRON	Ca_15888	--	Trihelix
Ca7_P2_16939988	Ca7	16939988	AC/ACATC	TTCTTTGGGTTTCCAA CAC	TCATGGCTCTTGTGC TCAC	60.0	130	INTERGENIC	--	--	--
Ca7_P2_16941588	Ca7	16941588	TAAA/TAAAA	TGCCGTAGTATTCACCA CCA	TGCCATGAAATTCTGC CATA	60.0	852	INTERGENIC	--	--	--
Ca7_P2_16970909	Ca7	16970909	ATTTTTTTTTTT/ATTTTTTTTTTT	CAAAGGAACATTGTGAT CGAA	CAAAGCCAAAACCAAC ATCA	59.6	742	INTERGENIC	--	--	--
Ca7_P2_17107044	Ca7	17107044	AATATATATATATATATA/AATATATAT ATATATATATATA	CGAACAATTTGGCCTG AAAT	TAGTGGATAGGTGCGT TCGG	59.9	478	INTERGENIC	--	--	--
Ca7_P2_17133790	Ca7	17133790	ATTTTTTT/ATTTTTTT	GACACTACCCGGCATC AAGT	CCAACCCAAATAATGA AAATCA	59.9	530	INTERGENIC	--	--	--
Ca7_P2_17139267	Ca7	17139267	GATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATTA TTATT	AAAAAGCGCTGTGTGT CCT	CCAAGTGAAACAGTACG TGCC	59.2	517	INTERGENIC	--	--	--
Ca7_P2_17172621	Ca7	17172621	AATCATAT/AATCATATCATAT	GGCTAAACCTTGCTTT GGC	AGACTCTGCTTGACCG GAAA	60.0	541	INTERGENIC	--	--	--
Ca7_P2_17213510	Ca7	17213510	AATATATATATATATATATA/AATATAT ATATATATATATATA	GACTGGACGTAACCCA CGTT	GTAATAAGAACGCTT TCGC	60.0	738	INTERGENIC	--	--	--
Ca7_P2_17269334	Ca7	17269334	TG/T	GATTCCCCATTCTTAAC GCC	GGTAAGGGCTCCTTCC AAAC	59.9	497	INTERGENIC	--	--	--
Ca7_P2_17352977	Ca7	17352977	AATATATATATA/AATATATATATATA	ATTGCGGTGGAACACA CATA	TCTCTCCGTTTCCACC ATC	60.1	508	INTERGENIC	--	--	--
Ca7_P2_17374590	Ca7	17374590	CTTTTTTTTTTT/CTTTTTTTTTTT	GCATCTGTAAACAAGA CCCG	ACATCGATAAGAGGCA GCGT	59.9	525	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_17576147	Ca7	17576147	AAAAATAAAATAAAAT/AAAAATAAAAT	CATCAAAATCATGCATG TCCA	CCTTCGCATTGGAAC GTTT	60.1	543	INTERGENIC	--	--	--
Ca7_P2_17618077	Ca7	17618077	TATTACATAAAATTAC/TATTAC	AAACAAATGGCAACTCA TTTCA	GCTAAGCAAAATCCTC ACGC	60.0	538	INTERGENIC	--	--	--
Ca7_P2_17685877	Ca7	17685877	TAAAA/TAAAAA	CTCATCCCCCTTCATC TCA	TGTTGAAGCAAAGTA AAACG	58.0	532	INTERGENIC	--	--	--
Ca7_P2_17736674	Ca7	17736674	ATTT/ATTTT	TGGACCAATGATTTTAA TCCG	GTAGGACACAGCCCAC ACCT	60.0	390	INTERGENIC	--	--	--
Ca7_P2_17869324	Ca7	17869324	TATAATAATAATAATAATAATAA TAATAATAATAATAAT/TATAATAATAA ATAATAATAATAATAATAATAATAAT AATAAT	GCGCAACTACATGCAG AGAC	TTTTTCAAGGCTTCAAG CAAA	60.0	632	DRR	Ca_15833	--	B3
Ca7_P2_17922655	Ca7	17922655	TGGGGG/TGGGGG	AAGTCGAGTGCTTGAG CCAT	TCTTTCGCTGCGTGCT ATAC	60.0	606	DRR	Ca_15831	--	bHLH
Ca7_P2_1792719	Ca7	1792719	GATAATAATAATAATAATAATAA TAATAATAATAATAA/GATAATAATA ATAATAATAATAATAATAATAATAAT AATAA	CGAAGACGCGACAGTA TCAA	CTTCGGATACCTGTTT CCA	59.9	385	INTERGENIC	--	--	--
Ca7_P2_18007228	Ca7	18007228	TTAATAATAATAATAATAA/TTAATAA TAATAATAATAATAATAA	GGCGACACTTCAATGG ACTT	TGCATTGCCATTTC GTTA	60.1	627	INTERGENIC	--	--	--
Ca7_P2_180428	Ca7	180428	T/TGAGGCAA	TCAACAGCAGCTTTGCA TTC	TTTCGCGCTGGTATG TGAG	60.0	280	INTERGENIC	--	--	--
Ca7_P2_1807047	Ca7	1807047	CAAAAAAAAA/CAAAAAAAAA	TGTTGTACACCAACT TTGC	GCTTGGTCCCATTGA GAGA	60.2	846	DRR	Ca_03288	--	--
Ca7_P2_18121209	Ca7	18121209	TAAAA/TAAAAA	TGAAAAGCAATCCCAA TGT	AATGGGCATTCTGTA TCGT	59.3	429	INTERGENIC	--	--	--
Ca7_P2_18132373	Ca7	18132373	T/TCTTATTACGGGA	TTAGGCGACTGTCTCG GATT	TTTCAGGTTCAAGGGA ATGC	60.1	369	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_18188062	Ca7	18188062	CAT/CATAT	TGTCTTGAGCATGCCTT GTC	CGTTCTCCATGCTGTT CTCA	60.0	370	INTERGENIC	--	--	--
Ca7_P2_18188416	Ca7	18188416	CTTT/CTTTT	TGTCTTGAGCATGCCTT GTC	AAATGCAAACCCAAATG CTC	59.9	525	INTERGENIC	--	--	--
Ca7_P2_18199412	Ca7	18199412	CAGA/CA	GCCCATTTGAGTGGAA GTGT	TCCACCTTGGCACCTT TAAT	59.4	355	DRR	Ca_22138	--	--
Ca7_P2_18260788	Ca7	18260788	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA A	CCCCCTTTTATCGGTCA TTT	GGAGCTGCAATTCGTC CTAT	59.3	622	INTERGENIC	--	--	--
Ca7_P2_18332960	Ca7	18332960	AATACTAATATA/AATA	TCACTGTGACCACCGTT CTC	GTGCCACAAACACACT TGCT	59.8	561	INTERGENIC	--	--	--
Ca7_P2_18333358	Ca7	18333358	A/ATGGGC	TGTGCATTGGAATTTTC AGC	CTTGAACCTCATGGTG ATGTGA	58.6	227	INTERGENIC	--	--	--
Ca7_P2_18383404	Ca7	18383404	TTATATATATATATATATATATATAT/T TATATATATATATATATATAT	ATGGGACCCAAAACTT CAA	AGCCTCGTGATGAAGG GTTA	59.7	471	INTERGENIC	--	--	--
Ca7_P2_18417161	Ca7	18417161	A/AG	TGGTGAAACTGCACCTC TGC	TCGGGGTGTTACACTT CACA	60.0	593	DRR	Ca_22130	--	--
Ca7_P2_18587623	Ca7	18587623	AAAGGCGGAAGGCGG/AAAGGCGG	CGATGATGACTGATTG GGGT	TGTTTGTGTTTGAGG CGTT	59.2	374	INTERGENIC	--	--	--
Ca7_P2_18587996	Ca7	18587996	CTTTTTTTTT/CTTTTTTTTT	GAGTGTACAAAGGCGG AAGG	GGGTGTTACAAGGAGT CTTGG	58.6	865	INTERGENIC	--	--	--
Ca7_P2_18588675	Ca7	18588675	TTATAT/TTATATAT	CCAAGACTCCTTGTAAC ACCC	GCACATATACACGTA AAATCGCA	60.2	299	INTERGENIC	--	--	--
Ca7_P2_18588937	Ca7	18588937	ACTATATAT/AATATAT	CCAAGACTCCTTGTAAC ACCC	TTCTCCGTTTTTCGTAAG ACCA	59.7	792	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_18679318	Ca7	18679318	C/CG	ACCCCGGTATAAGGTT CCAC	AACTCGAAATTTTAGGC CGC	60.6	343	INTERGENIC	--	--	--
Ca7_P2_18709870	Ca7	18709870	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	TTTTGCATTTTGGGTTG TGT	GCTCCAACCTCCAACA CTCC	59.7	594	INTERGENIC	--	--	--
Ca7_P2_18769932	Ca7	18769932	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTAT/TTTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTAT	AACAAAATCGGGAATAG GGTT	TGAAATTTGTGCAACTC GGA	60.2	773	INTERGENIC	--	--	--
Ca7_P2_18774607	Ca7	18774607	CTTTTTTTTT/CTTTTTTTTTT	CATGTTTCATTCTGCA CGG	CGACATTTAGTCCCT CTTTGG	59.1	429	INTERGENIC	--	--	--
Ca7_P2_18780178	Ca7	18780178	AATATATATATATATATATATATATAT ATATAT/AATATATATATATATATATAT ATAT	TCCAAATGAAAGGAC TTTGTT	CCCGTATATACAGTAA AATCGC	59.7	494	INTERGENIC	--	--	--
Ca7_P2_18786363	Ca7	18786363	TTTATTATTATTATTATTATTATTATT ATTATTGAAATTATTATTATTATTATT TATTATTATTGTTATTATTATTATTA TTATTATTAT/TTTATTATTATTATTATTA TTATTATTATTATTGAAATTATTATTATT AATATATATATATATATATATATATAT	TGGATCGGATTCAACTT TCC	TTTGAAATTTGTGCAAC TCCA	59.2	711	INTERGENIC	--	--	--
Ca7_P2_18823370	Ca7	18823370	TTATATATATATATATATATA/TTATAT ATATATATATATATATATA	TGTTGTCTTGAAATGT TGTGTTTT	GCACAATTTCCAAACA TGAAA	59.9	112	INTERGENIC	--	--	--
Ca7_P2_18852702	Ca7	18852702	CAATAAT/CAAT	TGAGTGGTCTCATTGG GGAT	TTCCACCATTTGGATGA TGA	59.7	793	INTERGENIC	--	--	--
Ca7_P2_18918117	Ca7	18918117	C/CG	TGAGTGATTGCGGTGGG TTTT	CAACAACCTCTCATGCT CGC	59.6	374	INTERGENIC	--	--	--
Ca7_P2_18918765	Ca7	18918765	TAAC/TAAAC	TGTTTGTGCAATTGAAT TATAGTTATG	CCCACATCAGCCAAAA AGAT	59.9	971	INTERGENIC	--	--	--
Ca7_P2_18928675	Ca7	18928675	TAAAAAAAAA/TAAAAAAAAA	AGCTCACAGAAAAACAC GGG	TGTCCTGTCGCAATTT TAAT	60.3	392	INTERGENIC	--	--	--
Ca7_P2_18934258	Ca7	18934258	AAGAGAGAGAGA/AAGAGAGAGAGAGA	TTGGCAGTAGTTTGTAT GCG	TCATCATCATCATCAGC CCT	60.0	336	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_19008569	Ca7	19008569	ATTTT/ATTTTCTTT	TTCTGGATCGGATCTTG GAC	TGAAAGTTCGATCTCAA TCATCA	59.7	432	INTERGENIC	--	--	--
Ca7_P2_19068339	Ca7	19068339	TAAAAAAAA/TAAAAAAAAA	TCTATGGATGACGAGG AGGG	TGGATGCATTGTTTCCT TCA	60.0	700	INTERGENIC	--	--	--
Ca7_P2_19150226	Ca7	19150226	CTCCAAAAGTCCAAAAGTCCAAA/CT CCAAAAGTCCAAAAGTCCAAAAGTTC CAAA	GGCTATCGATGTGATT GGCT	GATTTAAGTGCCGCTT CTGC	60.0	776	CDS (large-effect mutations)	Ca_12321	--	M-type
Ca7_P2_1919879	Ca7	1919879	TTATATATATATATATAT/TTATATATA TATATATATATAT	TGAATTTGGGGTCAAC CAT	ACACAGCCCCAAAAGT TGTC	60.0	435	DRR	Ca_03281	--	--
Ca7_P2_19247078	Ca7	19247078	GTATATATATATATATATATATAT/AT GTATATATATATATATATATATAT	GAGCAAAACAAATTTGA GAAACA	CTAATTTGCGCGGTCT TCAT	60.2	376	INTERGENIC	--	--	--
Ca7_P2_19290788	Ca7	19290788	TTATATATATATATA/TTATATATATAT ATATATA	CTGCCATGTTCAAGTTC CTA	TCAACTGGTGTGACG AGGA	60.3	475	INTERGENIC	--	--	--
Ca7_P2_19359942	Ca7	19359942	TA/TATGCCATTGA	ACGAGTGCGGGTATCA ATGT	GAGAAATGGAGGCAAT GGAA	60.0	456	INTERGENIC	--	--	--
Ca7_P2_19360213	Ca7	19360213	AATA/AA	TTCCATTGCCTCCATTT CTC	TGGTGAGGAAGGGACA ACTC	60.1	430	INTERGENIC	--	--	--
Ca7_P2_19393876	Ca7	19393876	CAAAAAAAAA/CAAAAAAAAA	TGGCGAAAGCCATCTT AACT	TTAGTGGCGCATTTTAT CCC	59.9	385	DRR	Ca_12340	--	bHLH
Ca7_P2_19443647	Ca7	19443647	TC/T	TGACTTAAGGCACGA CTTG	GCACAAGTTCATTTT GGG	59.0	483	INTERGENIC	--	--	--
Ca7_P2_19489978	Ca7	19489978	GATATATATATATATATATATATATAT ATATATATATATATATATATATATATAT ATATATATATATATATATATAT	AGATGAAGCAATTGATG GGC	TGGGACAATCCGTTAA ATAGAAA	59.7	834	INTERGENIC	--	--	--
Ca7_P2_1956959	Ca7	1956959	GATATATATATATATATATATAT	GGTGGAAGGTGACGAC TCAT	CGAAGCCTTGTGGAG TACC	59.7	330	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_19581964	Ca7	19581964	G/GCCTAGGGAAAGAAAAA	ACGTGCATACGATGCA GAAA	AAGTCGCCATTGGAA CTTG	60.1	341	INTERGENIC	--	--	--
Ca7_P2_19589014	Ca7	19589014	AATTTATCTATTTATCTATTTAT/AATTTA TCTATTTATCTATTTATCTATTTAT	GGTCGTCCAAATAGTA CCCG	CCGATTTCCCAAAGGT TTTT	60.2	358	INTERGENIC	--	--	--
Ca7_P2_19589201	Ca7	19589201	TTATATATATATATATATATAT/TTATA TATATATATATATATATATATAT	GGTCGTCCAAATAGTA CCCG	AGGAAGCCCAAGTTCC AAAT	59.9	828	INTERGENIC	--	--	--
Ca7_P2_1961188	Ca7	1961188	CATATATATATATATATAT/CATATATAT ATATATATATAT	TTAAGATGCCGTGTCAT GGA	AATACAAAGCAAAATGC CCG	60.0	593	INTERGENIC	--	--	--
Ca7_P2_19614333	Ca7	19614333	TTATATATATATATATA/TTATATATATAT ATATATA	TCTGCTAAAGAGCTGG AGGG	CCAATTTGATACGCAC CCTT	59.8	176	INTERGENIC	--	--	--
Ca7_P2_19618473	Ca7	19618473	CTTTTTTTTT/CTTTTTTTTT	CAAAGACAGTTACATT GCTCA	CAATTGAATCACACCA CCG	59.8	260	DRR	Ca_12352	--	bHLH
Ca7_P2_1963547	Ca7	1963547	CTTTTTTTTT/CTTTTTTTTT	GGCAAAGCTGGTGATA CACA	TTGTGCATGAACATC GAAT	59.9	719	DRR	Ca_03278	--	--
Ca7_P2_19644529	Ca7	19644529	AATATATATATATATAT/AATATATATA TATAT	ATGTTTTGGATTTTGGC TCG	AGGAAGAGTGGAGTTG CGAA	60.0	521	INTERGENIC	--	--	--
Ca7_P2_19718791	Ca7	19718791	GTAATAATAATAATAATAATAAAT AATAATAATAATAAA/GTAATAATAAT AATAATAATAATAATAATAATAAA TAATAATAA	TTAGGGAGCTTACATC GCGT	TAGCTGTGAGTTGACG ACGG	60.0	488	INTERGENIC	--	--	--
Ca7_P2_19731743	Ca7	19731743	ATTTTTTTT/ATTTTTTTTTT	TCAAACCTCCAAACGA ACC	TTTGCATAGGAGCAAA GCCT	60.0	628	INTERGENIC	--	--	--
Ca7_P2_19763944	Ca7	19763944	GA/GAA	TTCTTTTCGTTCTTTT CGG	AAGGATGCACAAAAG GGAA	59.5	527	INTERGENIC	--	--	--
Ca7_P2_19831369	Ca7	19831369	ACTCTCTCTCTCTCTCTCTCTCTCTC TCTCTC/ACTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTC	AACCCATTCCCTCCTT CAC	TCCTCATCATCAGGTC CTCC	60.0	351	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_19834478	Ca7	19834478	GTAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA TAA/GTAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATA ATAATAATAATAA	ATTTTCTCGTCGGTTT CCC	TTTTTCAGGCGGTGCA TATT	60.5	776	DRR	Ca_12361	--	HB-other
Ca7_P2_19857139	Ca7	19857139	AAATAATAATAATAATAATAATAATA ATAATAA/AAATAATAATAATAATAA TAATAATAATAATAATAA	CCATATGTCATAGTGG GTCA	AGAGGCAACAAGAAC CGAA	59.9	314	INTERGENIC	--	--	--
Ca7_P2_19860378	Ca7	19860378	GT/G	CCTCAATATGTTGGGAC ATGC	TGATTCTCAGGGAGGG TGTC	60.0	464	INTERGENIC	--	--	--
Ca7_P2_19965866	Ca7	19965866	A/AC	CTCACGGTTGTGAGGA CTGA	TTTGCTTTGATCTAGGC GGT	59.8	566	INTERGENIC	--	--	--
Ca7_P2_19968336	Ca7	19968336	TG/TGCGTAGGG	TCAAATTTGGAGTTCGG GAG	CCCAATACCCTAAACC CTAACC	59.8	405	INTERGENIC	--	--	--
Ca7_P2_19977838	Ca7	19977838	TG/TGG	ACCCAATTACTGGAGAT GCG	AGGAAGAGTGGAGTTG CGAA	60.0	693	INTERGENIC	--	--	--
Ca7_P2_20024093	Ca7	20024093	TAAAAAAAAA/TAAAAAAAAA	TCGTGAAAGAATAACT ACCGA	TTGTTCGCATCTTTGG TTC	58.7	843	INTERGENIC	--	--	--
Ca7_P2_20036621	Ca7	20036621	T/TTC	TTTGGAAAGAGGCAT TTTG	TTGTGTCCTTCCCTTC ATC	59.9	337	INTERGENIC	--	--	--
Ca7_P2_20058919	Ca7	20058919	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATA TA	CTCATTTGGTACGACTT GTGG	TAATACGGGATGACCC AACC	59.5	840	INTERGENIC	--	--	--
Ca7_P2_20059996	Ca7	20059996	T/TAC	TGATTGCGATCAAACCA ATAA	TCATCATTTGAGTCATC TTGCC	60.1	487	INTERGENIC	--	--	--
Ca7_P2_20060914	Ca7	20060914	AATATATATATATATATATATATAT TATATATATAT	ATATTGGCTCGGAGGC TTTT	GTTGTTCCCTAGCAC CGTA	60.0	640	INTERGENIC	--	--	--
Ca7_P2_20164032	Ca7	20164032	AATATATATATATATATATATATAT ATATATAT/AATATATATATATATAT ATATATATATATAT	CCTCGTCTCCAAATTC CAA	GAAGCCCACCCTGTAA ATGA	59.9	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_20217805	Ca7	20217805	TAT/TATATATTAAT	GCTTTGTGGAGGAAT GGAA	CGATGAGATCGACCG TACT	60.1	558	INTERGENIC	--	--	--
Ca7_P2_20237932	Ca7	20237932	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GCATATTGGAGATGTGT TTTGC	CACAACCGCCACTGTC TCTA	59.9	539	INTERGENIC	--	--	--
Ca7_P2_20238379	Ca7	20238379	AATATATATATATATATATATATATATATATATATAT/AATATATATATATATATATATATATATATATATATATAT	TAGAGACAGTGGCGGT TGTG	TCGATTTCCCAATCGAT TTTA	59.4	852	INTERGENIC	--	--	--
Ca7_P2_20252580	Ca7	20252580	GTAGAATA/GTAGAATAGAATA	ACCTGTCAGCTAAGAG CCCA	CACATGTGTGAACCTC CTGG	60.0	641	DRR	Ca_12383	--	--
Ca7_P2_20301138	Ca7	20301138	ATTTTTTTTTTT/ATTTTTTTTTTTTT	TGACGATGAATAGATG GAGGC	GCGAAAACATTGTATG AGTTGA	60.1	263	INTERGENIC	--	--	--
Ca7_P2_20390225	Ca7	20390225	C/CCAGAGATAAT	CCAAACATTGCAACCAC TTG	TTTGAGGGAAGTTTTC CACG	60.1	289	INTERGENIC	--	--	--
Ca7_P2_2040389	Ca7	2040389	TA/TAA	GCTTGAGGTCAATTAAG CGG	TTACAGGCCCATTTTG GTTC	59.8	401	DRR	Ca_03269	S	--
Ca7_P2_20452560	Ca7	20452560	TT/TTCTCTCTCTCT	CAAAGGGCAATCAAGG AAAA	TTTCTTTAAGAGTTGAT ATTGCGA	58.6	579	INTRON	Ca_12396	T	S1Fa-like
Ca7_P2_20461892	Ca7	20461892	ATTTTT/ATTTTT	AACTGGAAGTCAAGAG GTATGGA	TGCATTTTATGTTTGTG GATTTTT	59.8	673	INTERGENIC	--	--	--
Ca7_P2_20463929	Ca7	20463929	A/AGCTATAT	AGGCGGAAATGTGAAT TGTT	AACAACCCGGGAAGA AGGT	60.0	536	DRR	Ca_12397	R	--
Ca7_P2_2047396	Ca7	2047396	TTATATATATATATATATATATAT/TTATATATATATATATATATATATATATATATATATAT	ATGGGACTAGGCAACA CGTC	TTTCAACCGTAAATCAT ACTTGG	58.1	630	DRR	Ca_03268	GC	HSF
Ca7_P2_20480020	Ca7	20480020	AA/AAATTA	TTAAAAACAGACCCCGA ATG	TCATTACTCACCATAAG CGGAA	59.6	577	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_20480558	Ca7	20480558	GAAA/GAA	TTCCGCTTATGGTGAGT AATGA	TTGTTTGTGCAATTGT ATTGTAGTT	59.0	520	INTERGENIC	--	--	--
Ca7_P2_20493629	Ca7	20493629	TAAAAAAAAA/TAAAAAAAAA	ATGTTGGCACACGTTT GTTA	TGGACTTGATTGCACC ACAT	60.0	596	INTERGENIC	--	--	--
Ca7_P2_20494272	Ca7	20494272	CAA/CAAA	AGACGTGTCGATCGAG CTTT	AGCTGAATGCAAACCC TTGA	60.8	497	DRR	Ca_12400	--	AP2
Ca7_P2_20495725	Ca7	20495725	CACAACAACAAC/CACAACAAC	TCCCATTAATAATTGTAG CGTGTT	GTATGATTGCAATGCG GCTT	60.1	843	DRR	Ca_12400	--	AP2
Ca7_P2_20501449	Ca7	20501449	AA/AAATA	TAATGCACCTTCCGTGT CAA	GACTCCTTCGGTATCC TTGG	58.6	245	INTERGENIC	--	--	--
Ca7_P2_20501640	Ca7	20501640	TAAAAA/TAAAAA	TAATGCACCTTCCGTGT CAA	TTATAGGAAAAAGAAC GAAGGAAA	57.7	636	INTERGENIC	--	--	--
Ca7_P2_20501733	Ca7	20501733	TGTA/TGTAGTA	TAATGCACCTTCCGTGT CAA	TTATAGGAAAAAGAAC GAAGGAAA	57.7	636	INTERGENIC	--	--	--
Ca7_P2_20502385	Ca7	20502385	TAAA/TAAAA	TTCCGATTACTTCCTC TAAATGA	GCTTCCTCTATTCATG CGT	59.3	456	INTERGENIC	--	--	--
Ca7_P2_20502470	Ca7	20502470	CAAAAA/CAAAAAA	TTCCGATTACTTCCTC TAAATGA	GCTTCCTCTATTCATG CGT	59.3	456	INTERGENIC	--	--	--
Ca7_P2_20503526	Ca7	20503526	T/TCAC	TTGAAGGTTTTTGGGAA TATGG	ATGAAGGAGTGGAGCG AGAA	60.0	141	INTERGENIC	--	--	--
Ca7_P2_20503738	Ca7	20503738	GTTTTTTT/GTTTTTTT	TTCTCGTCCACTCCTT CAT	CGAAACTAAAAGAGGG AGGCT	59.0	571	INTERGENIC	--	--	--
Ca7_P2_20505830	Ca7	20505830	TAAAAA/TAAAAA	GGCATGGAAAATTCTG AAAAA	AAGAAGCGACGAAGAG AATTTG	60.0	732	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_20505889	Ca7	20505889	ATA/ATAGAAATTA	GGCATGGAATTCG AAAAA	TTCATTCTCGATTGAG GGC	60.2	803	INTERGENIC	--	--	--
Ca7_P2_20507859	Ca7	20507859	GAAAAA/GAAAAAA	TGCAAAATGAGTCCTT GAA	TTGTTCCAAGACGAC TGCTT	59.9	446	INTERGENIC	--	--	--
Ca7_P2_20508181	Ca7	20508181	TTATT/TTATTATATT	TCAAAGCAGTCGTTCT TGG	AAGTTGTCCCTCCAG CTTT	60.1	558	INTERGENIC	--	--	--
Ca7_P2_20508904	Ca7	20508904	GATAT/GAT	AAAGCTGGAGGGACAA CCTT	AAGTTTTGTTTGCTC GGAA	59.7	557	INTERGENIC	--	--	--
Ca7_P2_20510062	Ca7	20510062	ATAGTA/ATA	GAACAATGCAAGAGCC ACAA	AATGCACTGGCTTCTC GTTT	59.9	575	INTERGENIC	--	--	--
Ca7_P2_20510109	Ca7	20510109	ATTTT/ATTT	GAACAATGCAAGAGCC ACAA	AATGCACTGGCTTCTC GTTT	59.9	575	INTERGENIC	--	--	--
Ca7_P2_20510427	Ca7	20510427	TTT/TTTATTAGTGATTAAAT	TGCATTGCTCCCTAGAC ACA	GGCACTGCTTTATGCA CTCA	60.0	503	INTERGENIC	--	--	--
Ca7_P2_20517567	Ca7	20517567	GAAAAAAAA/GAAAAAAAAA	GAACTGACCAACAAC CGT	ACCACCTCGAAATGGA CATC	59.8	277	INTERGENIC	--	--	--
Ca7_P2_20518314	Ca7	20518314	TTATATATATATA/TTATATATATAT ATA	TGCAAGCAGCTCTGT ACG	CAGTTTACCCACCTAG CCCA	60.0	588	INTERGENIC	--	--	--
Ca7_P2_20519884	Ca7	20519884	ATTTT/ATTT	TGGGGATGTGGGAAA ATAA	ATCATGAAGCGAATGA AGGG	60.0	750	INTERGENIC	--	--	--
Ca7_P2_20528942	Ca7	20528942	TAAAAAAAA/TAAAAAAAAA	TCAAGCACCAAGTGT GACC	TTGAAGTATGTTTCGT TCAGTGAG	59.8	478	INTERGENIC	--	--	--
Ca7_P2_20530900	Ca7	20530900	AACG/AACGACG	GCAAACTCCTAGTTGCT GAGG	CGAGTGTCACATAGAT GGCAA	59.7	890	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_20537410	Ca7	20537410	TATTATAAAATAGATT/TATT	TGCGACAGGATGAGAA CTTG	ACTCCCTCATCCACA GTTG	60.0	791	INTERGENIC	--	--	--
Ca7_P2_20538907	Ca7	20538907	TAACCAAA/TAA	GGCCATTGGATCTAGC AAAA	GCCATTTCATCAAGGAA GGAA	60.0	635	DRR	Ca_12404	F	--
Ca7_P2_20545068	Ca7	20545068	TTAC/TTACTAC	TGGTTGTAGGACACCG AACA	ACTGTTGACCCAAAAG TGGC	60.0	744	CDS (large-effect mutations)	Ca_12404	F	--
Ca7_P2_20545202	Ca7	20545202	CTTGTTGTTGTTGTTGT/CTTGTTGTTG TTGTTGTTGT	CATCCACAGGTCCACT CCT	ACTGTTGACCCAAAAG TGGC	60.0	436	CDS (large-effect mutations)	Ca_12404	F	--
Ca7_P2_20549014	Ca7	20549014	CAA/CA	AGACGGCGAAATCACA AAAG	CCAAGCTAGAAAGCTG GCAC	60.2	679	INTERGENIC	--	--	--
Ca7_P2_20554410	Ca7	20554410	AA/AACCTA	CATCTGACCTGGACTTC GGT	TTTTCTGAAGGGTTGTT GCC	60.1	682	INTRON	Ca_12405	K	--
Ca7_P2_20556517	Ca7	20556517	ATA/ATATTGATTTTA	TGCAGTGGCATATTCCA AAA	ATAGCAGAGGCGGCAA AGTA	60.0	457	DRR	Ca_12405	K	--
Ca7_P2_20556895	Ca7	20556895	TCACAC/TCAC	TACTTTGCCGCTCTGC TAT	CAAACGCGCAGATCAG TAAA	60.0	589	DRR	Ca_12405	K	--
Ca7_P2_20558646	Ca7	20558646	CTT/CTTGTT	TGGTTCTGAAACAGA AAACG	AGCCAGAGTTGGGTGA ACAT	59.6	151	INTERGENIC	--	--	--
Ca7_P2_20560193	Ca7	20560193	CAAAAAAA/CAAAAAAA	TGCATTGAAATTTGCA GGA	TCAACCCCAATACACC CCTA	60.0	602	DRR	Ca_12406	--	M-type
Ca7_P2_20560943	Ca7	20560943	GATATATAT/GATATAT	TGTTATGGACCTCTTTC CCCT	CGGTCACAAATCCACA ACAT	59.3	297	DRR	Ca_12406	--	M-type
Ca7_P2_20565716	Ca7	20565716	AAT/AATTAATCAGACTAT	AATCCATGATGCAAAAG ACC	GAACAATCCCACCAGT CACC	60.2	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_20566359	Ca7	20566359	T/TA	GGTGACTGGTGGATT GTTC	TGAAAGTTCTTTAAT CTGTCACG	59.0	370	INTERGENIC	--	--	--
Ca7_P2_20566756	Ca7	20566756	TAAAAAAAAA/TAAAAAAAAA	TGTAAATGTTTAGGAG TTTTCAACG	CACCTTCCTTGTTCC GAT	60.0	509	INTERGENIC	--	--	--
Ca7_P2_20567011	Ca7	20567011	TAAAAA/TAAAAA	TGGAATTCATGTGCTT TGGA	CACCTTCCTTGTTCC GAT	60.0	281	INTERGENIC	--	--	--
Ca7_P2_20568046	Ca7	20568046	G/GA	CGGTGAGGACTATTTT AGAACG	TCCCCCTCAATTACA GCTT	60.8	778	INTERGENIC	--	--	--
Ca7_P2_20570000	Ca7	20570000	CT/CTT	CAGCCATGTCAGTATCA TTCAA	CATCCAAAGGGAAGAC GAAA	60.0	228	INTERGENIC	--	--	--
Ca7_P2_20571099	Ca7	20571099	AAAA/AAAATAAA	TCCCAAATAATGAGGG CAA	ACAGACGGCGAAAATT GTTT	59.6	381	DRR	Ca_12407	--	--
Ca7_P2_20573093	Ca7	20573093	GCAAGACAA/GCAAGACAAAGACAA	AATGCAAGCAACCAAA ACC	ATAGACCTGGCTGCAA GGAA	59.8	617	INTRON	Ca_12407	--	--
Ca7_P2_20574766	Ca7	20574766	GTTT/GTTTT	GGGAGATCGGAATGCA TAGA	ATGCGTGACGGTGCA AATA	60.0	276	INTERGENIC	--	--	--
Ca7_P2_20575471	Ca7	20575471	T/TA	AAATCCATTGGTTGAC ACG	ACCCACCTCCAGATTT TCC	60.2	743	INTERGENIC	--	--	--
Ca7_P2_20576017	Ca7	20576017	TC/TCC	GGAAAACTGGAGGT GGGT	TGCTCAAATTCAACAT GGA	60.0	489	INTERGENIC	--	--	--
Ca7_P2_20577208	Ca7	20577208	TG/T	AGGTCCGTTTAATGCAC ACG	GCGATGATGGCATGGT TATT	60.7	573	INTERGENIC	--	--	--
Ca7_P2_20594230	Ca7	20594230	ATTTTTTTTT/ATTTTTTTT	CTAACCCGGTCCAGTTT TCA	TAATTATTGACCCAGC CCA	60.1	851	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_20600846	Ca7	20600846	T/TC	CGTGAATGTTTATGGG GGAC	TTTTTCAGCAATTGGCA ACA	60.2	544	DRR	Ca_12410	--	bHLH
Ca7_P2_20602595	Ca7	20602595	ATTCTTTCCT/ATTCCT	CTACAGTGCTGGCAAG GTGA	ATTAATGGTCCAACACC CCA	59.9	196	CDS (FRAME SHIFT)	Ca_12411	--	--
Ca7_P2_20603478	Ca7	20603478	CTTTT/CTTTTT	GAATTGTGACGCACCC TCTT	AAATCGAAAGGGGAAA TGGT	59.6	693	DRR	Ca_12412	YU	--
Ca7_P2_20604250	Ca7	20604250	CTAATATAATATAATA/CTAATATAATAT AATATAATA	ACCATTTCCCTTTTCGA TTT	TGCTTTGTTCAATTGCT TGC	60.0	589	DRR	Ca_12412	YU	--
Ca7_P2_20614138	Ca7	20614138	CTA/CTATA	CTTTGCAACAGCAACTG CAT	CCGACATCACAGCTTT CTGA	60.0	389	INTRON	Ca_12414	--	MIKC
Ca7_P2_20615279	Ca7	20615279	ATTTTT/ATTTTTT	CACCCAACCAACCCCTAA ATG	GTTTGGGAAGTGAAA GCTC	60.0	435	INTRON	Ca_12414	--	MIKC
Ca7_P2_20615543	Ca7	20615543	TAAAAAAA/TAAAAAAA	GAGCTTTCACCTCCGCA AAC	TCATTGGAAGGGTCAA AAGG	59.9	347	INTRON	Ca_12414	--	MIKC
Ca7_P2_20617076	Ca7	20617076	A/AC	GCCACTCGATGTTTAG TGGT	CTAAAATTCCATCCCTC GCC	60.8	626	INTERGENIC	--	--	--
Ca7_P2_20617780	Ca7	20617780	C/CAAT	GGCGAGGGATGGAATT TTAG	GAATTGGGACTTCTGC CGTA	60.1	777	INTERGENIC	--	--	--
Ca7_P2_20626314	Ca7	20626314	AAAA/AAAATAAA	TCAGTTATCGTCGTTGG TCG	TTCATCGAACCACAT CATC	59.5	361	INTERGENIC	--	--	--
Ca7_P2_20630037	Ca7	20630037	CTTTTTTTTT/CTTTTTTTTTT	AAATATGAAGTTGCGCT CCG	GGTTGAGCTCTCACCC CAT	60.1	422	INTERGENIC	--	--	--
Ca7_P2_20630370	Ca7	20630370	TAAAAAA/TAAAAAA	ATCAGGCTGGTTTGATT TGG	CCAAAATGTGTGGTGT TCCA	60.3	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_21270334	Ca7	21270334	TTATATATATATATATAT/TTATATATA TATATATATATAT	ACAGCCAACAACCAT CAA	CAAAGTTCCAAATGCC GATT	59.9	589	INTERGENIC	--	--	--
Ca7_P2_2128379	Ca7	2128379	TTCTCTCTCTCT/TTCTCTCTCT	TGCTTCATGCGTTTCAA GAC	CTCGTGCACAAACCT TTGA	59.9	616	INTERGENIC	--	--	--
Ca7_P2_21329861	Ca7	21329861	TAAAA/TAAAA	AAAATTTTGTTCGACC CTTGA	CAACTGTCCAAATTC AAGC	59.6	326	INTERGENIC	--	--	--
Ca7_P2_21357810	Ca7	21357810	GTTTTTTTT/GTTTTTTTT	TGTGAATCCACTAATCA GCAAGA	TCTACTTCGCTCCTCGT CGT	60.2	692	INTERGENIC	--	--	--
Ca7_P2_21432549	Ca7	21432549	GAAAAAAAA/GAAAAAAAA	CGGAGATGGGGTTTA ATTT	CAGCCACACTTCAATG GCTA	59.9	797	INTRON	Ca_14504	L	C2H2
Ca7_P2_2143788	Ca7	2143788	GAAAAAAAA/GAAAAAAAA	TTATTTTGTGCACTTT GCG	TCCTCTCCTGCTCT GCTC	60.0	343	INTERGENIC	--	--	--
Ca7_P2_21598915	Ca7	21598915	TTATATATATATATAT/TTATATATATA TATAT	TTTCATGGTTCGATCA CAT	AACCCCATGTGTGAAA TGCT	60.2	242	INTERGENIC	--	--	--
Ca7_P2_21614803	Ca7	21614803	GATATATATATATATATATA/GATA TATATATATATATATATATA	AGGTGAAAGCGACTCA AGGA	TATCTCCACTCCCTCGT TCC	59.1	514	INTRON	Ca_14512	U	--
Ca7_P2_21670841	Ca7	21670841	A/AAGAT	TGACAAATCTTGCAAC CCA	ATTGCTCATTCATGCC CTC	60.0	217	INTERGENIC	--	--	--
Ca7_P2_21674751	Ca7	21674751	TGG/T	GGCCATGAGCTTCCAT TAGA	CTGTTTGTGTGCTTT GGCT	59.3	526	INTERGENIC	--	--	--
Ca7_P2_21675083	Ca7	21675083	TACAAA/TACAAACAAA	TTCCCTCTTGATCACA ACC	CAACCTCTTACGCAT CAAA	59.8	644	INTERGENIC	--	--	--
Ca7_P2_21675444	Ca7	21675444	AAAATA/AAA	TTTGATGCGTGAAGAG GTTG	TGGACTGTGACTGCAC CATT	60.2	510	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_2168224	Ca7	2168224	CATA/CATATA	TTCTGAGATTGGCAAA GGG	CGCGATCGTTCACGA TATG	60.2	820	INTRON	Ca_03253	P	--
Ca7_P2_2168577	Ca7	2168577	TT/TTAT	TTTATAAATTGGCCCC TCG	TAGGGGGACCAAGAAA CTGG	61.2	501	INTERGENIC	--	--	--
Ca7_P2_2169830	Ca7	2169830	AAT/A	CAGGGCCTTACTGCTA CAGG	CAACGGAAAACATCGT TCAA	59.6	397	CDS (FRAME SHIFT)	Ca_03253	P	--
Ca7_P2_2169903	Ca7	2169903	T/TA	CAGGGCCTTACTGCTA CAGG	CAACGGAAAACATCGT TCAA	59.6	397	INTRON	Ca_03253	P	--
Ca7_P2_21728387	Ca7	21728387	CAAAA/CAAA	ATCTCTGCGCAATATCG CTT	AGCCGACTTTTCCTAC CACA	59.7	674	INTERGENIC	--	--	--
Ca7_P2_21729097	Ca7	21729097	TAAAA/TAAAA	TGCTCAAAAGGGGAAG AAAA	GCCACGTGGTTGAAAG AAGT	60.2	240	INTERGENIC	--	--	--
Ca7_P2_21729303	Ca7	21729303	T/TC	TTGCTCAAAAGGGGAA GAAA	TTGTTATTTTCTTATG CCGTTG	58.3	426	INTERGENIC	--	--	--
Ca7_P2_21731326	Ca7	21731326	AGG/AG	TGGATACCTTTTGAAC GATT	ACCGCTCCAGCTGAGA ATAA	60.0	835	INTERGENIC	--	--	--
Ca7_P2_21743270	Ca7	21743270	CAA/CA	TTGCCCTCTAAATTCT TGG	TCCCTCGTATTTAGCC CTCA	59.7	686	DRR	Ca_14521	--	--
Ca7_P2_21743482	Ca7	21743482	TGGCTAAATATGAGGGCTAAATA/TGGC TAAATA	TCGAAGCATAAGGTTG ATCC	GGGATTGAGCGCCTAT ACAA	60.1	500	DRR	Ca_14521	--	--
Ca7_P2_21743627	Ca7	21743627	ATTTTTTT/ATTTTTTTT	TGAGGGCTAAATACGA GGGA	GGGATTGAGCGCCTAT ACAA	60.1	461	DRR	Ca_14521	--	--
Ca7_P2_21743781	Ca7	21743781	AAAGTAAG/AAAG	TGAGGGCTAAATACGA GGGA	GGGATTGAGCGCCTAT ACAA	60.1	461	DRR	Ca_14521	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_21743947	Ca7	21743947	AA/AAATA	CCTGGTGTGCATTGAA AAGA	AATTGCGGTTTTGGTT CAAG	60.0	410	DRR	Ca_14521	--	--
Ca7_P2_21745626	Ca7	21745626	TTTTATTTAT/TTTTAT	ATAGGGCCCATTTACA GCG	CCAGTTGCCCTGTCCA TACT	60.0	455	INTRON	Ca_14522	O	MYB
Ca7_P2_21750514	Ca7	21750514	C/CT	GTATACTGTGTGCAGC CCGA	GAACCAACTGCCCTTG TCAT	60.0	382	INTERGENIC	--	--	--
Ca7_P2_21786856	Ca7	21786856	CAAA/CAAAA	TGAAAAACGTGTTGCA GCTAA	TAGAAGGCTGCACAAC TCCA	59.6	648	INTERGENIC	--	--	--
Ca7_P2_21838175	Ca7	21838175	TAAT/TAATAAAT	CCCTGCCTCAATTGTTT TGT	AGCATATATTGTTCCCG CGT	59.5	300	INTERGENIC	--	--	--
Ca7_P2_21855310	Ca7	21855310	TA/TAAAA	TCTTTCGGGAGTTCATC CAG	TGGACTCACTGCTCAA GTGG	60.0	471	INTERGENIC	--	--	--
Ca7_P2_21897481	Ca7	21897481	CTCTCTATCTCTATCTCTAT/CTCTCTAT CTCTATCTCTATCTCTAT	CAGATTGGATGAGCCA GGAT	ACCAAACCCCTTTCTC CTA	59.8	383	INTERGENIC	--	--	--
Ca7_P2_22014557	Ca7	22014557	GTGT/GTGTTGT	AAC TTGCAGCAAAGAAC CGT	CACTACCCCGTACTTC GCAT	60.0	419	INTERGENIC	--	--	--
Ca7_P2_22028394	Ca7	22028394	G/GAA	TCATCAAATCCGTAACG CAA	TCCATGTTTTGCTCTAT TGCC	60.1	271	DRR	Ca_14536	R	MYB
Ca7_P2_22036269	Ca7	22036269	GCTC/G	GCTCAGCCTTGAAATC GAAC	TTCATCATCATCTTCAA ACAAAA	57.3	627	INTERGENIC	--	--	--
Ca7_P2_22038011	Ca7	22038011	C/CT	CTCCAAATTTCCAGCCA AAA	ACACGGACGGGTCTTG TATC	59.9	822	INTERGENIC	--	--	--
Ca7_P2_22043317	Ca7	22043317	T/TG	TGGTTCAAATGCTGTAA TCTTCTC	ATTCGCTCAATACACG GGTC	60.0	884	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_22045478	Ca7	22045478	ATTTTTTTT/ATTTTTTT	TGTGGTGTCCCAAA GACA	CAAAGCGAAGTGCAAA ATGA	60.0	246	INTERGENIC	--	--	--
Ca7_P2_22046891	Ca7	22046891	CATAATAATAATAATAATAATAA TAATAATAATAATAAT/CATAATAATAA AATAATAATAATAATAATAATAA TAATAATAATAA	ATAATTGCCTTTGCGG TTG	TTCTGTGAGCAAGGCT GATG	60.1	319	INTERGENIC	--	--	--
Ca7_P2_22046957	Ca7	22046957	CTATATATATATATATATATAT/CTA TATATATATATATATATAT	ATAATTGCCTTTGCGG TTG	TTCTGTGAGCAAGGCT GATG	60.1	319	INTERGENIC	--	--	--
Ca7_P2_22046996	Ca7	22046996	TGCGCGC/TGC	ATAATTGCCTTTGCGG TTG	ACCTGGTCGTAGATGC CACT	59.6	414	INTERGENIC	--	--	--
Ca7_P2_22049141	Ca7	22049141	TTATATATATATAT/TTATATATATA TATATATAT	ATTTTGGAAATCCCGG TCT	TTGGTTGAGGCTAAA TGGTG	60.0	521	INTERGENIC	--	--	--
Ca7_P2_22131065	Ca7	22131065	CTTTGAA/CTTTGAAATTTGAACTTTT GAA	TGTACCGTGCAACCT CATT	TACCATTGGGGTGAGAT GTGA	59.8	454	INTERGENIC	--	--	--
Ca7_P2_22220101	Ca7	22220101	ATTTT/ATTTT	ACAGGAGGATTCTTG GCCT	TTGCAACAACGTAGGA CTGC	59.9	386	INTERGENIC	--	--	--
Ca7_P2_22227265	Ca7	22227265	AG/A	GGAGAGGTGGTTGAGG ATGA	GCAGGTGAGTTGGTCG ATTT	60.1	663	INTERGENIC	--	--	--
Ca7_P2_22336659	Ca7	22336659	CGTGT/CGT	CCTGGAAATTCGTTGA TGG	TTAGTTGCAGCCGTCT TCG	60.1	592	INTRON	Ca_14549	K	--
Ca7_P2_22380060	Ca7	22380060	CATATATATATATATATATATA/CATA TATATATATATATATA	GCGAATTGCGATTAATG TGA	GCCACTGTTTGTGTG GATG	59.1	510	INTERGENIC	--	--	--
Ca7_P2_22440146	Ca7	22440146	TAATATA/TAATATAAAATATA	GAAGTTGTAATCGGAG GCCA	GGCAGAGATGGAGGTG ATGT	60.1	542	INTERGENIC	--	--	--
Ca7_P2_22519524	Ca7	22519524	TTAATAATAATAATAATAATAATAAT AATAA/TTAATAATAATAATAATAATAAT AATAATAA	ATGATCTTCCTCTCGG CCT	CCGTTTCTTCCTCTCC TCT	59.8	257	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_22523173	Ca7	22523173	ACGGGCGGGCGG/ACGGGCGGGCGG GCGG	ACCTTGTGGATGGCAG TTTC	TGGCATTGATGATGGC TTTA	60.0	328	INTERGENIC	--	--	--
Ca7_P2_22535914	Ca7	22535914	CGGGG/CGGG	TCATGATGGTAACCG ACCT	CATCAAACCCACACAC AACC	59.7	367	INTERGENIC	--	--	--
Ca7_P2_22587400	Ca7	22587400	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATATAT ATAT	AAGGAACAAAACGTCAT TTTCAA	AGTCAGACGCTACTCG GCAT	60.0	519	INTERGENIC	--	--	--
Ca7_P2_22658192	Ca7	22658192	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATATAT	TACACCTGAGTCCGCT ACCC	TCCCAAGTTTCAAATGC TGA	59.2	494	INTERGENIC	--	--	--
Ca7_P2_22678046	Ca7	22678046	AG/AGG	ACCAGTCAACAAATGCC CTC	CCACCAACTTTAGCTC CGAA	60.2	314	INTERGENIC	--	--	--
Ca7_P2_22689398	Ca7	22689398	ATTT/ATT	AAAGCATGTTCTCCTCAA TGC	CTGGCATGCTCAAGTT CTGA	60.1	457	INTRON	Ca_19533	--	NAC
Ca7_P2_22700858	Ca7	22700858	CTT/CTTT	CACGATCCTCACACAAC ACC	TTGTCTCTCCACCCCAT TTC	59.9	457	INTERGENIC	--	--	--
Ca7_P2_22745128	Ca7	22745128	G/GGTAGTTAGTGAT	GGAGTTGGTCGCTACA CCAT	CGAGGCATTCTTCAC AAAT	60.1	634	INTRON	Ca_19530	R	--
Ca7_P2_22756928	Ca7	22756928	CATAT/CAT	CATGCATGCCAAATAC TCG	TCGTTTTATTTCGGGAC TGG	59.9	188	INTERGENIC	--	--	--
Ca7_P2_22886024	Ca7	22886024	G/GCTAC	GCCCTTCTATGCTTGTG AGC	TTGGGAAGGTATGAAG GCAG	60.1	728	CDS (FRAME SHIFT)	Ca_19525	S	ARF
Ca7_P2_22890324	Ca7	22890324	A/AT	GTATCACACCCCTGCAC CCT	TGTGGTGTGGGTACT TCAGG	60.8	705	DRR	Ca_19524	S	--
Ca7_P2_22925559	Ca7	22925559	TTATATATATATATATATATATATATA TATATAT/TTATATATATATATATATAT ATATATATATATATATAT	CCTCCTCATGCTTTTAC CCA	GGCTTTTAGGTAGTGG GGGA	60.3	759	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_22950306	Ca7	22950306	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	ACCCAAGAGAGGTGGC ACTA	AATGGCGACTTACCA AGGA	59.6	832	INTERGENIC	--	--	--
Ca7_P2_23037904	Ca7	23037904	TAAA/TAAAA	GTAGTAAGGAGCCCA AGCC	GGGGAGAAGAACAGA TTGA	60.1	471	INTERGENIC	--	--	--
Ca7_P2_23038315	Ca7	23038315	TCCCCC/TCCCCCCCC	CTAATTTAGAGGGGA GCGG	TGATGTTGTTGCCTC CTGC	60.0	825	INTERGENIC	--	--	--
Ca7_P2_23091829	Ca7	23091829	CT/CTTCCTCATCAATATAT	TGCCAACTAAACCCACA ACA	TGAATAAGTGGCACA TGATGA	59.0	912	INTERGENIC	--	--	--
Ca7_P2_23195329	Ca7	23195329	GATATATATATATATATATA/GATA TATATATATATATATATATA	GCATGGCTTGATCTGAT TTG	TAAATCGCGGGTATGA GGAC	59.9	547	INTERGENIC	--	--	--
Ca7_P2_23197815	Ca7	23197815	ATTTTT/ATTTTT	AGACATCTGACATGCCA CCA	TTGTGTTCAAGTTAAG GCAAAA	59.7	624	INTERGENIC	--	--	--
Ca7_P2_23203392	Ca7	23203392	G/GAACACCAC	TTTTTGTCGAACACTT TTGAA	TTTGCATCCATCACCTT GAA	60.0	709	INTERGENIC	--	--	--
Ca7_P2_23204492	Ca7	23204492	A/ACAT	TTGGTGTAACCTCCCTC GAA	GCCGATAACCACTTCC AAAA	59.9	524	INTERGENIC	--	--	--
Ca7_P2_23215176	Ca7	23215176	GAGCGACCTAG/GAGCGACCTAGCGAC CTAG	GGGGAATTGTGAAAT GATG	TCGTTTGACTCGTGAG ATGC	60.0	694	INTERGENIC	--	--	--
Ca7_P2_23264424	Ca7	23264424	AATATATATATATATATAT/AAATA TATATATATATATAT	GCGACCACTTGAAAC AAAT	CCACCGATGCCTAACT CATT	60.0	169	INTERGENIC	--	--	--
Ca7_P2_23276021	Ca7	23276021	AATATATATATATATATAT/AAATA TATATATATATATATATATAT	TGGAGGCAACTTGGAT TTTC	CTTGTAAGAATCCAG CCCA	60.1	867	INTERGENIC	--	--	--
Ca7_P2_23384121	Ca7	23384121	GAAAA/GAAAAA	TGTGATCGCTGGTTGTT TCT	TGCGTTGAAAGTTGTG ATGA	58.8	349	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_23420517	Ca7	23420517	TTATATATATATATATATATATA/TTAT ATATATATATATATATA	TGACATGGCTTGTCTC TCA	ACCTTGCTCCCTTACC CACT	60.0	599	INTERGENIC	--	--	--
Ca7_P2_23424458	Ca7	23424458	ATTTTTTTT/ATTTTTTT	TGAATGAAATTCGAGG CAG	GTTAATATCCGTCGCT CCCC	60.7	432	INTERGENIC	--	--	--
Ca7_P2_2356235	Ca7	2356235	TGTGAATAATGAACCACG/T	CGACCATTGTGCAATTA TGC	CGGTGTTTGTCCATAT CGTG	60.0	294	INTERGENIC	--	--	--
Ca7_P2_23614249	Ca7	23614249	ATCTCTCTCTCTCTCTCTCTCTCT/ATCTCTCTCTCTCTCTCTCT	CATGGCATCGGATAAA CCTC	CTTGCCCTCTTTGTTGT GGT	60.1	167	INTRON	Ca_26014	R	--
Ca7_P2_23637926	Ca7	23637926	ATTTTTTTTTTTT/ATTTTTTTTTTT	GAGGGAATTCCTCGGA AAAA	ACCACGAGATTTTGAG GCAT	59.6	296	INTERGENIC	--	--	--
Ca7_P2_23667025	Ca7	23667025	AAATAATAATAATAATA/AAATAATA ATAATAATAATAATA	ACACTGATTTCCCAAAA CGC	TTTCCTTCCCTTCTCAT TGC	59.2	728	DRR	Ca_26877	G	FAR1
Ca7_P2_23679781	Ca7	23679781	AATATATATATATATATATAT/AAATA TATATATATATATAT	ACATCCACCCATACAG GCAT	GCCATTCTCATGAGGG AAAA	60.0	816	INTERGENIC	--	--	--
Ca7_P2_23688628	Ca7	23688628	TTAATAATAATAATAATAATA/TT AATAATAATAATAATAATAATAA TAATA	CCACAAAGACAATCGA GCAA	CGTGCAATCTGCTTGG AGTA	60.0	308	INTERGENIC	--	--	--
Ca7_P2_2370456	Ca7	2370456	GGT/GGTGT	ACAGCACACAACTCCC TCC	TCTTGGGCGGTAAAA GCTA	59.8	695	INTERGENIC	--	--	--
Ca7_P2_23780060	Ca7	23780060	TTATATATATATATAT/TTATATATATATA T	CGCTCGTCTATGCGATT GTA	TAAATCTCCGCTCGC AACT	60.0	946	INTERGENIC	--	--	--
Ca7_P2_23797195	Ca7	23797195	AATATATATATATATATATATATATA A/AAATATATATATATATATATATATA TATA	AAGAAATCGCGAGTCA CAGG	TTAATAGAACGCGCCA AAGG	60.2	652	INTERGENIC	--	--	--
Ca7_P2_2380600	Ca7	2380600	ATTTAATTTGTTTAA/ATTTAATTTGTTTA ATTTGTTTAA	CCACCATTTTGATGAC GTG	TGAAAAACCAAAATA TTACATTG	59.1	593	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_23807464	Ca7	23807464	AA/AATACTCTTA	TGGGTCCTGGAAGTT AGTG	TGTCCTCATGGCAAATA CCGA	60.1	482	INTERGENIC	--	--	--
Ca7_P2_23882859	Ca7	23882859	AATATATATATATATATA/AATATATAT ATATATATATATATA	TATTTTGGATTTTGGCT CGG	ATGGGTTTCGCGTAGA CAAC	60.0	400	INTERGENIC	--	--	--
Ca7_P2_23903739	Ca7	23903739	TAAATAA/TAAATAAAATAA	TGAGCATGGAATTTGGT TGT	TGAATTCATGGCTAAG AAGCCT	60.2	592	INTERGENIC	--	--	--
Ca7_P2_23907440	Ca7	23907440	AATATATATAT/AATATATATATAT	TTGGAGAATTCAAAAT AAGGCA	CGTGACAAAGCACGAA AGAA	60.0	513	INTERGENIC	--	--	--
Ca7_P2_23909711	Ca7	23909711	CTTTATTTATTTATTTATTT/CTTTA TTTATTTATTTATTTATTT	CATTCTTCTCTAAGCG GCG	GCATGTAGCACAAAGG AGCA	60.0	658	INTERGENIC	--	--	--
Ca7_P2_23984802	Ca7	23984802	AGTTGTTG/AGTTG	AAGCTGGCATGATGAG GACT	GGGGAATTGAGCCTAA AAGC	60.0	359	INTERGENIC	--	--	--
Ca7_P2_24037474	Ca7	24037474	ATT/ATTT	ATGTTGAAGTCGGGAA AACG	TCTTCTGTGGCCGAC TCTT	60.0	741	INTERGENIC	--	--	--
Ca7_P2_24096310	Ca7	24096310	TCCCC/TCCCCC	CTTGCCACCACTAATGC TCA	ACAACCGATTTCAAGC CATC	59.9	818	DRR	Ca_19914	--	--
Ca7_P2_24165192	Ca7	24165192	ATTTTTTT/ATTTTTTT	TGAAATATTTTGGTCC ATCCA	GAGCCCCACAATCAA AGAA	60.1	646	INTERGENIC	--	--	--
Ca7_P2_24209885	Ca7	24209885	AGAGT/AGAGTTTGTAGT	CTCGATGAGGGTGTGG AAAT	GGGTGACATCAAGCCT CATT	59.9	354	INTERGENIC	--	--	--
Ca7_P2_24211047	Ca7	24211047	C/CCTAAGGCCCTGTAGTTG	AGTGTCCATGCAGCAA GATG	TTGGACAACCTGCATA GGTG	59.6	481	INTERGENIC	--	--	--
Ca7_P2_24260186	Ca7	24260186	ATTTTT/ATTTTTTT	TCAGCTTTTGGCTGAT GTG	TTTCTTTCAATTTATGT CAACCCA	59.8	667	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_24260251	Ca7	24260251	CTTTTT/CTTTTTT	AGAATGAGGTGACATT CGGG	TCTCCTCAATCCTCT CTCA	59.0	978	INTERGENIC	--	--	--
Ca7_P2_24267624	Ca7	24267624	CTTTTTTTTT/CTTTTTTTTTT	TTCTCCTGAAGCTGTC GGT	AACCAATCCACATAAC CCA	59.9	639	INTERGENIC	--	--	--
Ca7_P2_2430437	Ca7	2430437	AATTATTATTATTATTATTATTATTA TTATTATTATTA/AATTATTATTATTATTA TTATTATTATTATTATTATTA	GCGGTTGCAATTTGT GAAG	GAAGATCGAATCCCAC GATG	60.4	571	INTERGENIC	--	--	--
Ca7_P2_2432614	Ca7	2432614	TTATATATATATATATATAT/TTATATA TATATATATATATAT	CAAATGGATTGGTGAG ACGA	GGCATGAGTGAGTATG GCCT	60.1	640	INTERGENIC	--	--	--
Ca7_P2_24347972	Ca7	24347972	TAAAA/TAAAAA	CTCTCATCTGAGGGCA AAGC	CGATTGAATTAAGCCC AGGA	60.0	356	INTERGENIC	--	--	--
Ca7_P2_24348355	Ca7	24348355	TAA/TAAA	TCCTGGGCTTAATTCAA TCG	CGTTCCTGAGGGAATT GTGT	60.0	378	INTERGENIC	--	--	--
Ca7_P2_24348526	Ca7	24348526	ACCC/ACC	TCCTGGGCTTAATTCAA TCG	CGTTCCTGAGGGAATT GTGT	60.0	378	INTERGENIC	--	--	--
Ca7_P2_2435974	Ca7	2435974	ATTTTTTTTT/ATTTTTTTTTT	ATCCCCACCTTTTCAG TTT	TCCAATCGGCTGAATT AAAA	58.2	715	INTERGENIC	--	--	--
Ca7_P2_24387210	Ca7	24387210	CG/C	CATCTCGAGAAGACG ATGA	AGGGACGATGAGGTTG AATG	59.9	810	INTERGENIC	--	--	--
Ca7_P2_24421160	Ca7	24421160	AATATATATATATATATATA/AATATAT ATATATATATA	AGGAAGCCCAAGTTCC AAAT	ACAGCCAACAACCACA TCAA	60.0	469	INTERGENIC	--	--	--
Ca7_P2_24450388	Ca7	24450388	TTATATATATATATATAT/TTATATATA TATATATATATAT	TTGTTAGTTTGACGAGG GCA	TGGTGCTATTGCAA TCAA	60.1	380	INTERGENIC	--	--	--
Ca7_P2_24485265	Ca7	24485265	C/CAACTTT	GTCCACCCCTAGGAGC TTTC	CGGACCAAAAATTAAA GCGA	60.1	986	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_25102211	Ca7	25102211	AATATATATATATATATATATATATATATATATATA/AATATATATATATATATATATATATATA	TGGGTTGGTATGGACTTCC	AGTGCCTTAGCACATTGCCT	59.9	926	INTERGENIC	--	--	--
Ca7_P2_25111194	Ca7	25111194	AATATATATATATATA/AATATATATATATATATA	GGGATTGAGAGGAGAGGGTC	ATTTAAATGTCGTGACCGC	59.8	489	INTERGENIC	--	--	--
Ca7_P2_25111361	Ca7	25111361	AGAGG/AG	AGATTGCGAGGCAGTTGAGT	ACGAGTCCTTTTAACCCGT	59.9	650	INTERGENIC	--	--	--
Ca7_P2_25133201	Ca7	25133201	ATATTATTATTATTATTATTATTATTAT/ATATTATTATTATTATTATTATTATTATTAT	CTCAATCGTGGGTGACCTTT	TCCTACGTATCCCCAAGTGC	60.0	381	INTERGENIC	--	--	--
Ca7_P2_25176739	Ca7	25176739	AATATATATATATATAT/AATATATATATATATATAT	TTTGGATTTTGACTCGGAGG	AGGAAGAGTGGAGTTGCGAA	60.0	511	INTERGENIC	--	--	--
Ca7_P2_25240070	Ca7	25240070	CTATATATATATATATAT/CTATATATATATATAT	GTTGTAGCCGGTCCAAAGTA	GTTTAAGCCCCTTGAGCCT	59.7	406	INTERGENIC	--	--	--
Ca7_P2_2525335	Ca7	2525335	CAATACAATTGATTAATA/CAATACAATTGATTAATACAATTGATTAATA	TGGTGGAAAAATAGCATTTGG	CCTCTCCCGAATGACTCAAG	59.8	868	INTERGENIC	--	--	--
Ca7_P2_25263798	Ca7	25263798	TATATATATATATTAATA	TCCACACATCTTTCCTTCC	TGCGTTACGGTGAAATGGTA	60.0	234	INTERGENIC	--	--	--
Ca7_P2_254281	Ca7	254281	AATATATATATATATATATATAT/ATAATATATATATATATATATAT	TTGGCGTGAGTTAGCCTCTT	GAGCATTTGAGTGTTGCGA	60.0	777	INTERGENIC	--	--	--
Ca7_P2_25474161	Ca7	25474161	ATTTTTTTTT/ATTTTTTTTTTT	CCAAAAGTGATTGATCCTCCA	GAGGATGCTCGTTTGTGGT	60.1	266	INTERGENIC	--	--	--
Ca7_P2_25540307	Ca7	25540307	CTTTT/CTTT	CCTCAGATGAGAGCCAGGAC	GAGCGCTATTACAGTTCGGC	60.0	472	INTERGENIC	--	--	--
Ca7_P2_25613830	Ca7	25613830	TAAAAAAA/TAAAAAAA	TCGATGGCTACCTCAATCC	GGTGGTCTCTGCTCTACG	59.9	512	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_25626892	Ca7	25626892	CGG/CGGG	TTGGCCAAGTCCCTGT TAC	CCCGTGATAGGCAGTA CGTT	60.0	420	INTERGENIC	--	--	--
Ca7_P2_25728381	Ca7	25728381	CA/CATTCTCCCTA	ACCCACCTCCTCATCCT CTT	AGGCCCGTCCTACTAG GTGT	60.0	380	INTRON	Ca_23630	--	--
Ca7_P2_25834002	Ca7	25834002	GTTTTTTTT/GTTTTTTTTT	TGCTCTTAGTGGTGAC CGTG	CATCGTCATCGTTGCA ATTG	60.1	461	INTERGENIC	--	--	--
Ca7_P2_25862302	Ca7	25862302	TA/TAAAAA	TTTCGTGGCTAATTTTC GTT	GTTTTGGCGTTGGTTT CACT	60.0	893	INTERGENIC	--	--	--
Ca7_P2_25875128	Ca7	25875128	TATGTTGTAA/T	TTGCAAAGGGAGCGTT ATTG	CCCAAGCGAGGATATG AAAA	60.0	925	INTERGENIC	--	--	--
Ca7_P2_26000334	Ca7	26000334	AAT/AATAAATAT	GAAATGAGGGTTCGCA GAAA	TCAGTCAAACGCACAC AAAA	58.9	547	INTERGENIC	--	--	--
Ca7_P2_26035041	Ca7	26035041	TAAAAAAA/TAAAAAAA	TAAAGAGATTCGACG GGTT	CATGTTTTCGAAGCTCA CCA	59.8	407	INTERGENIC	--	--	--
Ca7_P2_26056806	Ca7	26056806	CTTTTT/CTTTTTTTTT	GTTGCCACTTGGCGTA AAAT	GGCCGATTACTGCTC ACAT	60.1	393	INTERGENIC	--	--	--
Ca7_P2_26085992	Ca7	26085992	GATATATATATATATAT/GATATATAT ATATATAT	GATTCACGACCTCAAAA GTGC	GCAAAAGCCCTCACAA AATG	60.6	625	INTERGENIC	--	--	--
Ca7_P2_26118670	Ca7	26118670	TTATATATATATATATATA/TTATATAT ATATATATATA	CGGGACTAGAAAGCAA CGAG	TTTTATAGTGAGGCC AGGG	59.0	691	INTERGENIC	--	--	--
Ca7_P2_26158210	Ca7	26158210	GTATATATATATATATATATATATA T/GTATATATATATATATATAT	TTGTTGACACCGAGTTA GCG	TTTTCGAAAACTCAA AGGA	59.9	174	INTERGENIC	--	--	--
Ca7_P2_26160184	Ca7	26160184	AG/A	GTGGCTACCTTCTTGG GTGA	TTTCATCGCCGAAACC TATC	60.0	141	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_26179604	Ca7	26179604	AT/ATT	TCAGGGATGAGTTTCA CTTCG	TTGGGAAGTTGGGAGA CTTG	60.1	625	INTERGENIC	--	--	--
Ca7_P2_26221720	Ca7	26221720	AATATATATATATATATAT/AAATATA TATATATAT	CTTGGGAATTGGAGAG CAAG	GGGTTTCTTTCCTTGAA GCC	60.1	671	INTERGENIC	--	--	--
Ca7_P2_26228410	Ca7	26228410	GAAAAAAAA/GAAAAAAAAAAAA	ATGGTGCAAAATGGTG ACAA	GAAAGTCGGTGCATGG AAGT	60.1	304	INTERGENIC	--	--	--
Ca7_P2_26233274	Ca7	26233274	TAAAAAA/TAAAAAA	TACGCCATCCAAAATG TGA	CCCTCATCCGAAAAGA TGAA	60.0	945	INTERGENIC	--	--	--
Ca7_P2_26235537	Ca7	26235537	TTATATATATATA/TTATATATATATAT A	TGCGACCTCAGTTTCTC AAA	GGGGTCATAGCATCCC CTAT	60.0	157	INTERGENIC	--	--	--
Ca7_P2_26237740	Ca7	26237740	GTTTTTTTT/GTTTTTTTT	TGAATCCGTGCTAACG CATA	TTGGGAAGTTGTGTGC ATTT	59.0	660	INTERGENIC	--	--	--
Ca7_P2_26240583	Ca7	26240583	G/GTAACATATT	GTTTCCACATCCAGA GGAA	GAGATCAACGTGAATT GGTCA	58.6	330	INTRON	Ca_23643	--	HD-ZIP
Ca7_P2_26261503	Ca7	26261503	GAAAAAAAA/GAAAAAAAA	AGCCTCGTTGCTATTCC AGA	TGTTGGAATGAAATGC CTGA	60.0	655	INTERGENIC	--	--	--
Ca7_P2_26326487	Ca7	26326487	GTATATATATATATATATATATA/G TATATATATATATATATATATA	GGTGGTAGCTGGTAGG GTGA	TGACAACTACGAGGTT GCTTG	59.0	657	INTERGENIC	--	--	--
Ca7_P2_26337769	Ca7	26337769	GTTTTTTTT/GTTTTTTTT	TGTTTAGAGGGCTTC ATGTG	GACGCACTCCACAT ACCA	59.7	461	INTERGENIC	--	--	--
Ca7_P2_26348013	Ca7	26348013	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/AT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT	TTACCCCTCCCTGAAC TGGT	CCATGGGTGGTATTTA GCCT	58.8	812	INTERGENIC	--	--	--
Ca7_P2_2639799	Ca7	2639799	CTCATCATCATCATCATC/CTCATC ATCATCATCATCATCATC	TTCAAGACAAAGAGGG GGTG	CAATGCAGCAATGAGA GCAT	60.0	382	CDS (large-effect mutations)	Ca_03214	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_26662956	Ca7	26662956	CAA/CA	TCCAAGCTTCCTTCAAT GGT	CTCAAAAGCGCTCCAA TTTC	60.0	542	INTERGENIC	--	--	--
Ca7_P2_26694675	Ca7	26694675	ACC/ACCCCCC	CTCGGCCATCCGAGAT ATAA	GCTCACTAACTCTGCC TGGG	60.0	881	CDS (FRAME SHIFT)	Ca_16250	--	--
Ca7_P2_26696025	Ca7	26696025	C/CGATAAGGGGAG	CGTACACATTCGACG ATTG	CCGGCTTAGCTACGAT CTTG	60.0	635	INTERGENIC	--	--	--
Ca7_P2_26699922	Ca7	26699922	A/AACTAG	AAACTCCAGCCCGGTA AACT	AACCCATTGAGGTGA CTGC	60.0	465	DRR	Ca_16249	--	--
Ca7_P2_26700837	Ca7	26700837	C/CTT	ACTATCCGTTCTGTGGT GCC	CAGTGGCTTGGTTAAG GGAA	60.1	835	DRR	Ca_16249	--	--
Ca7_P2_26701106	Ca7	26701106	A/ACTAGGAATTACTCCC	CAATAGGGCGAGTCGA ATGT	AAGTCCAGTAGCCGAA AGCA	60.0	838	DRR	Ca_16249	--	--
Ca7_P2_26701534	Ca7	26701534	C/CG	AAGTTTCATCCTGGTCA TGG	AAGTCCAGTAGCCGAA AGCA	60.0	381	DRR	Ca_16249	--	--
Ca7_P2_26703044	Ca7	26703044	TGA/TGAACCAGAGA	CGACTCCAACACCGT CCAT	TTGGAGAGCGCAGTAC AATG	60.0	483	INTERGENIC	--	--	--
Ca7_P2_26703333	Ca7	26703333	T/TCTTTCGCGA	CTTTTCTTGCGTAGC TGG	CTTATCCACAGGGACC TGGA	59.9	418	INTERGENIC	--	--	--
Ca7_P2_26742206	Ca7	26742206	ATTTTTTTTTT/ATTTTTTTTTT	CAGTAGCAAGCAATGG GTGA	TGGAGAAACATGCATC AACAA	60.1	495	INTERGENIC	--	--	--
Ca7_P2_26754740	Ca7	26754740	TTATAT/TTAT	TTCTTCTCCTCCAATGT GGG	CTCTTTAAGACGTTTCG CGG	60.0	766	INTERGENIC	--	--	--
Ca7_P2_26801646	Ca7	26801646	CAAAAA/CAAAAA	TCATTCGTGGTCGTGT CAAT	AACGGTTGTGGGAAGA TGAG	60.0	935	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_26835948	Ca7	26835948	TAAA/TAAAA	ATGCGTTTCTGGTCTCC ATC	ATTGGTCTCTACCTGG CCCT	60.0	672	INTERGENIC	--	--	--
Ca7_P2_26850169	Ca7	26850169	GAAAAAAAAAAAAAAAA/GAAAAAAAAA AAA	TGCACCAACAATCCCTG TAA	ATGATTGGGGTGAAG CATA	60.2	363	INTERGENIC	--	--	--
Ca7_P2_26906603	Ca7	26906603	ATTTT/ATTTT	TGGAGTCCAACACGC ACTA	CAAGGTAATTTGCATTG AAGGA	59.1	112	INTERGENIC	--	--	--
Ca7_P2_26961028	Ca7	26961028	GTT/GT	CACTTTCTCTGGTGGT GCAA	TGCATTAGGGGAACAC AACA	60.0	686	DRR	Ca_16239	--	SAP
Ca7_P2_27036039	Ca7	27036039	AATATATATATATATATATATATATAT ATATATATA/AATATATATATATATATA TATATATATATATATATATATA	ATTTTGCAAACCAAGT TCG	CCCTCTGTGCATATCT GGGT	60.0	500	INTERGENIC	--	--	--
Ca7_P2_27081077	Ca7	27081077	TATTTT/TATTTTAAATTTAAATTTT	ACCATGACGTCTCCAAC ACA	ACCGCCACAAATGTTA AAGC	60.0	613	INTERGENIC	--	--	--
Ca7_P2_27115436	Ca7	27115436	GATATATATATATATAT/GATATATATAT ATATATAT	CAATTCCCAAGGTAC GCTT	CAAACCTAATTTTCA AACACG	59.8	347	INTERGENIC	--	--	--
Ca7_P2_27122535	Ca7	27122535	GTATATATATATATATATATAT/GTAT ATATATATATATATATATAT	ATCGCAGTACGATGAT GCAA	CGCACACGAAATATC ACCA	60.5	561	DRR	Ca_16232	R	MYB
Ca7_P2_27138661	Ca7	27138661	AATATATATATATATATA/AATATATAT ATATATATATATA	GGCCCTTATACAAGGA AAACCT	GGCGTTGGTTTCACTC AAAT	60.0	292	INTERGENIC	--	--	--
Ca7_P2_27272092	Ca7	27272092	CTTT/CTT	ATTTAGAGGCGAAGTT GCGA	GATTCCTTCTTAACT GCC	60.6	540	INTERGENIC	--	--	--
Ca7_P2_27346895	Ca7	27346895	TTATATATATATATATATAT/TTATA TATATATATATATATATATAT	TGCTTGATTGCTTGAGT TCC	CGCGCAGATTGTCAA TAGA	60.0	641	INTERGENIC	--	--	--
Ca7_P2_27357330	Ca7	27357330	C/CT	CGTTTTCCAGCTTCAA CAT	TGAATGGTCGTGTCCA AAAA	59.9	419	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_27397535	Ca7	27397535	ATTTTTTTTT/ATTTTTTTTT	ATACAGTAGCGTCGT TGGG	TGGACTCATTCAAAT TCCAA	59.4	409	INTERGENIC	--	--	--
Ca7_P2_27520803	Ca7	27520803	AATATATATATAT/AAATATATATATA TAT	GCCGCAAGGAATTTAA CTCA	GGAGAAAGAGGGAAT TGCC	60.0	618	INTERGENIC	--	--	--
Ca7_P2_27521328	Ca7	27521328	CAAA/CAA	GCCAAATTCCTCTTC TCC	CCTTCCACACAACCA CAGA	59.6	393	INTERGENIC	--	--	--
Ca7_P2_27521551	Ca7	27521551	TC/T	GGTAAGGCTCCTTCC AAAC	GATTCCCCCTCCTTAA CGTC	59.8	576	INTERGENIC	--	--	--
Ca7_P2_27588532	Ca7	27588532	CAA/CAA	TCATGTGCAAAACCTCC TCAA	ATGATTGGTCTTGAAG GCG	60.1	554	INTERGENIC	--	--	--
Ca7_P2_27641753	Ca7	27641753	TGACGAAGACGAAGACGAAGAC/TGAC GAAGACGAAGACGAAGACGAAGAC	AATGACGACGACGATG ATGA	TCCTCTGCAGATCCT CCTA	59.9	327	DRR	Ca_16215	--	--
Ca7_P2_27833544	Ca7	27833544	C/CCGATCCCTT	ATGACGGTGATTTCGG TTTC	GTTTGCTTCTCTTTGG TGC	59.7	706	INTERGENIC	--	--	--
Ca7_P2_27916365	Ca7	27916365	AATTATTATTATTATTATTATTATTA TTATTATT/AATTATTATTATTATTAT TATTATTATTATTATTATTATTATT	GGCGGCAGATAATAACA AAAG	TCCTCTCTAGAACAC CCCA	59.6	688	INTERGENIC	--	--	--
Ca7_P2_27935917	Ca7	27935917	AGGGG/AGG	GGCTGTTAGCCAGTT TTTG	GTTGGTTCCTAGCAC CGTA	60.0	664	INTERGENIC	--	--	--
Ca7_P2_27976361	Ca7	27976361	AATATATATATATATATATATATATAT ATATATATAT/AAATATATATATATATAT ATATATATATATATATATATATATAT	AAGTCGAGCTTGGGAG ATGA	TGGTTCCTAGCACCA TAGC	60.1	782	INTERGENIC	--	--	--
Ca7_P2_28056896	Ca7	28056896	TAAAAAA/TAAAAAA	TCCAAAAAGATATGGCC GAC	GTATTAGCTGGTGCGC TGGT	60.3	406	INTERGENIC	--	--	--
Ca7_P2_28190197	Ca7	28190197	AGTTTATTGG/AGTTTATTGGTTTATT TGG	TTGGTTTATTGGGTTG GGA	ACCAGGAAAAGAAGAA GGGC	59.7	519	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_2821957	Ca7	2821957	TACACACACACACACACACA/TACAC ACACACACACACACACACA	TCGTGACGTGGTTTCTT CTG	GTCGTGGAGACACCGA AAAT	60.0	649	DRR	Ca_03195	--	--
Ca7_P2_28335175	Ca7	28335175	AAAATATA/AA	GGTACTGTTCACTGCG CAAA	TCAACCAAAATCCCCA ATA	60.0	236	INTRON	Ca_18921	--	--
Ca7_P2_28353975	Ca7	28353975	AATATATATATATATAT/AATATATATA TATAT	ACGGAACAAATGGAC GATG	TGGTGTGGAGTCATG CTTT	59.1	215	INTERGENIC	--	--	--
Ca7_P2_28355456	Ca7	28355456	AATATATATATATATATA/AATATATAT ATATATATA	GCCAACTCATCAATCG TGA	ATGGAACAATCGGACA CCAT	60.1	521	INTERGENIC	--	--	--
Ca7_P2_28374590	Ca7	28374590	CATATATATATATATATATATATATAT ATATATATATATATATATATATA/CA TATATATATATATATATATATATATAT ATATATATATATA	GAAGCGTCGAACCAGG TAAG	CCGTTAGATGATGATG TGCC	59.0	809	INTERGENIC	--	--	--
Ca7_P2_2838254	Ca7	2838254	TATAAAA/TA	ATGGCCAAGGAGGCTA AAAT	AGCCTTTGATGAAAAG GGAA	58.8	357	INTERGENIC	--	--	--
Ca7_P2_28400317	Ca7	28400317	AATATATATAT/AATATATATATAT	CTGACCAAAATCCAAA AGACA	TCGGTTTTGAAACAAA ATG	58.5	637	INTERGENIC	--	--	--
Ca7_P2_28426123	Ca7	28426123	AAATAATAATAATAATAATAATAATA ATAATAAT/AAATAATAATAATAATA ATAATAATAATAAT	CATGATATGTGGCAAAA GCG	TCATAGACCCCTAACG GACG	59.9	411	INTERGENIC	--	--	--
Ca7_P2_28454557	Ca7	28454557	GTT/GTTACTT	TGTCCGTCAATCCACTT TTT	CCCAAACCATTCATTT TTG	60.0	411	INTERGENIC	--	--	--
Ca7_P2_28470573	Ca7	28470573	CTTT/CTT	CAGTGAGGGAAGGAG AGAG	TTGGACGAAGGGGTAA GTTG	60.0	494	DRR	Ca_18936	K	--
Ca7_P2_28515180	Ca7	28515180	AATATATATATAT/AATATATATATATA TAT	ACGTGAGCGTGATTTA CTGC	TTCATCAACGAAAAATA CATTG	59.0	281	INTERGENIC	--	--	--
Ca7_P2_28529637	Ca7	28529637	ATTTTTTT/ATTTTTTTTT	CAGACCAGACCGTGCT TTTT	ATGTGGCCTGTCATAG GCTT	59.6	498	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_28914738	Ca7	28914738	TAAAAA/TAAAAAA	TGAACCCAAACACAA CACA	AACATTTCTGCCTTT CGT	59.6	827	DRR	Ca_11811	QR	B3
Ca7_P2_28916057	Ca7	28916057	CCACACACAC/CCACACAC	TGACACAATGCATTT CCAC	TCGGTAGCTAGCAAA GCAA	58.9	839	DRR	Ca_11810	O	TCP
Ca7_P2_28918944	Ca7	28918944	GTGCT/GT	TGCCGTCAAATTGTAG CAG	TCCCCATCCATTTATT TGT	60.0	505	INTERGENIC	--	--	--
Ca7_P2_28922199	Ca7	28922199	CTATGGTAAAGT/C	GTAAGGCCATGCACCC TAAA	TGATCTGGATAGGACC GAGG	60.0	599	INTERGENIC	--	--	--
Ca7_P2_28923827	Ca7	28923827	TCACTTTCACCACTTTCAC/TCACTTTCA C	TGCTGTTTGAAGTGAAC GAA	CGGTGGCGAATACTCA TTTT	60.0	558	INTERGENIC	--	--	--
Ca7_P2_28925485	Ca7	28925485	AAGTAGTAG/AAGTAG	TCATCAAAAGACCGAA GCA	ACCACCACTTAGAGAG GCCA	59.7	410	INTERGENIC	--	--	--
Ca7_P2_28926347	Ca7	28926347	CTT/CTTT	TTGTGTGCCATAAATTG AAGGTT	CGAAGAATGGATTGAA GGGA	60.0	185	INTERGENIC	--	--	--
Ca7_P2_28927018	Ca7	28927018	TT/TTGTGTTGCT	CAACTCCCTTCCTCCAC AAA	CATGCCACCAATGTTTT CAG	60.0	678	INTRON	Ca_11809	O	--
Ca7_P2_28927427	Ca7	28927427	GC/G	CGTGATTTTGATGTGCC AAG	AGGCAACAAAATTCCA CCAG	60.0	594	INTRON	Ca_11809	O	--
Ca7_P2_28927840	Ca7	28927840	TTGTGT/TTGTGTGT	TTTGTGCGAGAAACTG CTG	TACGGAATCTCCAGCC TCAG	60.4	239	INTRON	Ca_11809	O	--
Ca7_P2_28933093	Ca7	28933093	C/CA	TTGGAATAACCAACGG CTC	TGTTCTGGTGACCTT TTTC	59.9	846	INTRON	Ca_11808	--	--
Ca7_P2_28935886	Ca7	28935886	GTTATATCA/G	TGGAACCACTCCCTTA GACG	TCCATCATGGCAAGTTT TTCT	59.6	797	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_28936338	Ca7	28936338	TAAAAAA/TAA	TTCGGAATTCACCGAT AAA	TAAAGAGGGTGCAAG GTCC	59.2	866	INTERGENIC	--	--	--
Ca7_P2_28936601	Ca7	28936601	GAAAAAA/GAAAAAAA	GAAAACTTGCCATGAT GGAT	TAAAGAGGGTGCAAG GTCC	59.2	635	INTERGENIC	--	--	--
Ca7_P2_28937372	Ca7	28937372	ATT/ATTTT	AACCTCATGTTCCCTT TCC	TGGGTCATGGCCATCT ATT	60.2	702	INTERGENIC	--	--	--
Ca7_P2_28937539	Ca7	28937539	AG/A	AACCTCATGTTCCCTT TCC	TGGGTCATGGCCATCT ATT	60.2	702	INTERGENIC	--	--	--
Ca7_P2_28941166	Ca7	28941166	TAT/TATATACAAT	TCAACCACATGTGAAGA TGA	TTGGCTCCCTACATTT TCTC	59.6	752	INTERGENIC	--	--	--
Ca7_P2_28942484	Ca7	28942484	AATTA/AA	AGCTTGTAAGGTTTG GTGG	CAAGAGCCGGTGAATG AAGT	60.3	559	INTERGENIC	--	--	--
Ca7_P2_28942990	Ca7	28942990	G/GA	ACTTCATTCACCGGCTC TTG	AAAATGGGTTGGATGT TTGC	59.7	440	INTERGENIC	--	--	--
Ca7_P2_28944240	Ca7	28944240	ATTTTTT/ATTTTTT	AAAAGGAAGAAATGATG CACAA	ATTATGGTCCCATGC CAGA	60.2	600	INTERGENIC	--	--	--
Ca7_P2_28945422	Ca7	28945422	AAGGAG/AAG	CACCTACTCTGTCAGC GCAC	TTACCTCTCCATGGGA ATCA	57.9	347	INTERGENIC	--	--	--
Ca7_P2_28949507	Ca7	28949507	TTATA/TTATATA	CCACCATTGGCATTCTT TCT	GCTGCTCAAATTCGAC AACA	60.0	599	INTERGENIC	--	--	--
Ca7_P2_28950063	Ca7	28950063	CAAAA/CAAAAAAAA	TCGTACGAAATGCAGAT TGG	TGCAATCGCACCCAA CTAT	61.4	820	INTERGENIC	--	--	--
Ca7_P2_28951345	Ca7	28951345	CTTTT/CTTTTTT	ACTCCAACCTCTTCCCA CCT	GGGCAATGTGTCCACT TTTT	59.8	445	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_28953426	Ca7	28953426	TGATACA/T	TGGTGGGGAAGCTCCTA AGTG	CAAAACGAAGCTTCTC CCAA	60.4	587	INTERGENIC	--	--	--
Ca7_P2_28953493	Ca7	28953493	TCACA/TCACACA	TGGTGGGGAAGCTCCTA AGTG	CAAAACGAAGCTTCTC CCAA	60.4	587	INTERGENIC	--	--	--
Ca7_P2_28953889	Ca7	28953889	GAA/GA	TTGGGAGAAGCTTCGT TTTG	TCCCTTTCCATGTTTT GATG	59.8	550	INTERGENIC	--	--	--
Ca7_P2_28956119	Ca7	28956119	TT/TTTTAAAT	AAAATACAGCGCCAACA ACC	AGTAACGTCGAGTCAG CGGT	59.9	517	INTERGENIC	--	--	--
Ca7_P2_28963361	Ca7	28963361	GTCT/GT	ATAAGCTCGAGGCACA TGCT	ATGACCATCTTCCACCT CCA	60.3	377	INTERGENIC	--	--	--
Ca7_P2_28966526	Ca7	28966526	TGTATTAGAGGC/TGTTATTAGAGGCG TTATTAGAGGC	TCAACTTTATTGGCAG GGAA	TGTGCAATGCAAAAAG ATGG	60.6	608	INTERGENIC	--	--	--
Ca7_P2_28966926	Ca7	28966926	TTAAGTA/TTAAGTATAAGTA	GCATTAATTTTGGCAG GTGA	TGTGCAATGCAAAAAG ATGG	60.6	138	INTERGENIC	--	--	--
Ca7_P2_28979318	Ca7	28979318	TA/TATATTCAACA	TTCTGGCCCGTTAGCAT TAC	CTCAGCCTTCCCACCA AATA	60.1	453	DRR	Ca_11805	C	--
Ca7_P2_28985807	Ca7	28985807	AT/ATT	AGCATTGTTACATTGC AGG	CCATGCTATTTCCCC TTT	60.1	418	INTRON	Ca_11805	C	--
Ca7_P2_28986713	Ca7	28986713	GAAAAA/GAAAAA	CAAAACGTGGGTCAT AACG	TGATTCAATGACAGCA CGGT	60.1	470	INTRON	Ca_11805	C	--
Ca7_P2_28998835	Ca7	28998835	TGTTG/T	CGTGGACAAAGATCGT GATG	ATTCCCCGTGGTCTTG AATA	59.2	447	INTERGENIC	--	--	--
Ca7_P2_28999036	Ca7	28999036	CAAAAAA/CAAAAAA	CGTGGACAAAGATCGT GATG	ATTCCCCGTGGTCTTG AATA	59.2	447	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_28999228	Ca7	28999228	TAAAAAAA/TAAAAAA	GTATTCAAGACCACGG GGAA	TGGATTCTAACTGAC CGCC	60.1	601	INTERGENIC	--	--	--
Ca7_P2_28999285	Ca7	28999285	TATAAAAAATA/TATAAAAAATAA AA	GTATTCAAGACCACGG GGAA	TGGATTCTAACTGAC CGCC	60.1	601	INTERGENIC	--	--	--
Ca7_P2_28999336	Ca7	28999336	ATTTTTTT/ATTTTTT	GTATTCAAGACCACGG GGAA	TGGATTCTAACTGAC CGCC	60.1	601	INTERGENIC	--	--	--
Ca7_P2_29000914	Ca7	29000914	GAAAAAA/GAAAAAAA	TTCCCTTCGAATACAA AATTAGTG	GACGATGGAATGCAAG TCAA	59.7	369	INTERGENIC	--	--	--
Ca7_P2_29001394	Ca7	29001394	TA/TATAAATATATTATGA	TTGACTTGCATTCATC GTC	ATGCTTCTCCGAAA ATCT	60.0	569	INTERGENIC	--	--	--
Ca7_P2_29001560	Ca7	29001560	ATTTTT/ATTTT	ACTTGCATTCATCGTC CAT	ATGCTTCTCCGAAA ATCT	60.0	566	INTERGENIC	--	--	--
Ca7_P2_29001818	Ca7	29001818	GAAAA/GAAAAA	AGATTTTCGGGAGGAA GCAT	AAAGGAAAGGCAGCCA AAAT	60.1	455	INTERGENIC	--	--	--
Ca7_P2_29002293	Ca7	29002293	GTTTTTTTT/GTTTTTTT	ATTTTGGCTGCCTTTC TTT	GAAACATTGATTGTTG GTGTTG	57.9	751	INTERGENIC	--	--	--
Ca7_P2_29002500	Ca7	29002500	ATTTT/ATTT	ATTTTGGCTGCCTTTC TTT	GGTGGAACATTGATT GTTGG	60.1	755	INTERGENIC	--	--	--
Ca7_P2_29003191	Ca7	29003191	CT/C	TTCATATTGGCGCAGA GTTG	AACGAAGGACCCAAG AGAT	59.9	254	INTERGENIC	--	--	--
Ca7_P2_29004077	Ca7	29004077	ATGA/ATGACACTGA	CGTCGGTGGTCAGGTA AAAT	TCACAATCCCTGCAATT CAA	60.0	681	INTRON	Ca_11804	UR	HB-other
Ca7_P2_29006131	Ca7	29006131	AATATA/AATA	TTTCCTCATCCTCTGG TTG	TGAGGGATCAACTTCC CTTG	60.0	752	INTRON	Ca_11804	UR	HB-other

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29008191	Ca7	29008191	TAAAAAAAA/TAAAAAAAA	CCTCACTTAATTGCCG AGA	ACCTGGCAATAAACCA CAGC	60.0	720	INTRON	Ca_11804	UR	HB-other
Ca7_P2_29010220	Ca7	29010220	TCTCCTC/TCTC	TTTTCATCGGGTCACAG TCA	TGCTTTTGCCTCACATT TTG	59.8	269	DRR	Ca_11803	F	--
Ca7_P2_29010477	Ca7	29010477	CAAAAA/CAAAAA	TTTTCATCGGGTCACAG TCA	TGGATATGACCCGTGC TTTT	60.3	738	DRR	Ca_11804	UR	HB-other
Ca7_P2_29012088	Ca7	29012088	TAA/TAAA	TTTGCCCTCAAGATTG TTC	ATTGGTGGCTCATGAC CTGT	60.4	102	INTRON	Ca_11803	F	--
Ca7_P2_29014917	Ca7	29014917	TCCC/T	TTTGGCATACTCCCC TTC	GGGAGCTGATGAGTGT GGTT	60.1	225	INTERGENIC	--	--	--
Ca7_P2_29020483	Ca7	29020483	TATAAA/TATAAATAA	TGGTATAAGCATTTCGGT AGACG	CAACGCTAAGTTTGTA GCAACA	59.5	982	INTERGENIC	--	--	--
Ca7_P2_29021071	Ca7	29021071	TTA/TTATA	TTAGCCAAATTGTGGT CCC	TCATGACGTAGTCATC GCGT	60.3	209	INTERGENIC	--	--	--
Ca7_P2_29021112	Ca7	29021112	TAAAAAAAAAAAA/TAAAAA	GTCCGCAACTGGAACC TTTA	TCATGACGTAGTCATC GCGT	60.3	148	INTERGENIC	--	--	--
Ca7_P2_29021275	Ca7	29021275	ATAATTAA/ATAA	GTCCGCAACTGGAACC TTTA	TGAAAATATTGCGATAG AGCG	58.1	620	INTERGENIC	--	--	--
Ca7_P2_29022459	Ca7	29022459	TAAAAAA/TAAAAAA	TTAGAACAATGCGACGT GAA	TCACCCGAAACATCTC CTTC	60.1	261	INTERGENIC	--	--	--
Ca7_P2_29022601	Ca7	29022601	AGG/AG	TTAGAACAATGCGACGT GAA	TCACCCGAAACATCTC CTTC	60.1	261	INTERGENIC	--	--	--
Ca7_P2_29023268	Ca7	29023268	TAAAAA/TAAAAAA	GGACCACGTGTGTATT AGCC	TCACCAGCAATGATCT GAGC	60.0	482	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29023514	Ca7	29023514	AAGA/AA	GGACCACGTGTGTTAT AGCC	TCACCAGCAATGATCT GAGC	60.0	482	INTERGENIC	--	--	--
Ca7_P2_29028815	Ca7	29028815	TTCTATATTTTCATCTATATTCATC/TTC TATATTTTCATC	TGGTAACAGATAGGCG GGAC	ACCAAATCTGCAACGA CCTC	60.1	712	INTRON	Ca_11802	S	--
Ca7_P2_29036387	Ca7	29036387	GTTTTTTTT/GTTTTTTT	GGAGTTAAATTTTGCTC ATACCTTG	GTTGTGAACCACAATG GCTG	60.0	367	INTERGENIC	--	--	--
Ca7_P2_29038487	Ca7	29038487	TAAAAAA/TAAAAA	TTCGAAATCTTAATGTG CTCAA	GGGTAATCGATTAGT CCGT	59.2	646	DRR	Ca_11800	--	--
Ca7_P2_29044697	Ca7	29044697	ATTTTAGTCTTTTA/ATTTTA	TCCTCACGAGATGATTC GTTT	AGTGATGCACGAAAT AGTCCT	57.9	672	INTERGENIC	--	--	--
Ca7_P2_29063078	Ca7	29063078	T/TA	AACGGTGTTCACAAAG TGG	TCCGGTATCGTTTCTT CCA	60.4	951	INTERGENIC	--	--	--
Ca7_P2_29063155	Ca7	29063155	TAAAAA/TAAAAA	CCCCTTGAGTACTTGAT GATCC	TCCGGTATCGTTTCTT CCA	60.4	454	INTERGENIC	--	--	--
Ca7_P2_29067406	Ca7	29067406	ATTAAATT/ATTAAATTAAATT	AGCTTTTGCTGACATT GTG	AAAATACTGCTGGCC TTTG	60.1	522	INTERGENIC	--	--	--
Ca7_P2_29067494	Ca7	29067494	ATTTTT/ATTTTT	TTCCTATGCAAGGGAC ATGTTA	ATGGAAGTTGTTGCCT CCAA	60.5	247	INTERGENIC	--	--	--
Ca7_P2_29069731	Ca7	29069731	AG/A	AGTCTTTCCCTCCCTC CAA	CATACACCACCAATCC ACG	59.7	369	DRR	Ca_11799	--	--
Ca7_P2_29069848	Ca7	29069848	AGG/AG	AGTCTTTCCCTCCCTC CAA	CAACATGGCTCCAAC CTCT	60.1	875	DRR	Ca_11799	--	--
Ca7_P2_29070132	Ca7	29070132	TTATATAT/TTATATATAT	CACGTGGATTGGTGG TGTA	TTGCCAAGGAGGTAA TGAG	60.1	651	DRR	Ca_11799	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29070532	Ca7	29070532	TATTAGATACCAT/TAT	TCATTACCCTCCTGGC AAC	AAACACCGCAAGGATT GTTC	60.0	265	INTRON	Ca_11799	--	--
Ca7_P2_29072107	Ca7	29072107	TC/T	AGAGGTTCTGAGACT TGCG	TGTGACAGCTTGGTCC ATGT	60.2	794	INTRON	Ca_11799	--	--
Ca7_P2_29076436	Ca7	29076436	GTTTTTTTTTTT/GTTTTTTTTT	CCGGAGAATTATTACCC ATACA	CCATTTTGTCTTTGGC GTAT	60.0	412	INTERGENIC	--	--	--
Ca7_P2_29079847	Ca7	29079847	A/AC	GCATTGTCCGTCAAAA CCT	TTGAGTCATTCGCTCA CTTCA	59.6	533	INTERGENIC	--	--	--
Ca7_P2_29083418	Ca7	29083418	TAAA/TAAAA	GGGTAGTGGTGCAATT CTGG	CTTGGGTCTTGCAGT GAAT	60.3	594	INTERGENIC	--	--	--
Ca7_P2_29084467	Ca7	29084467	ATCACGTTAAGTCAC/ATCAC	TTATGACGGACGTGGA ACAA	GTTGATGGACTTTGGC CACT	60.0	354	INTERGENIC	--	--	--
Ca7_P2_29085797	Ca7	29085797	TAAAAA/TAAAAAAA	CCAAATTATCCTCTCTT TTTCCC	GAATTGGACCGAATGC AAGT	59.9	656	INTERGENIC	--	--	--
Ca7_P2_29086932	Ca7	29086932	ATTT/ATTTT	TTTCACGCAAACTGTT TCC	GGTTGAGTTGGTGATG AGATGA	60.0	574	INTERGENIC	--	--	--
Ca7_P2_29090138	Ca7	29090138	GTATA/GTA	TGTCCTGTTGTGAAC TTGC	ATCAAGTCAAACTCACC ACAAA	57.2	745	INTERGENIC	--	--	--
Ca7_P2_29094357	Ca7	29094357	AATATAT/AATAT	TTGTCGCTCTCCGATTC TTT	TGGGGAATGAGATTGA TCCT	59.3	292	INTERGENIC	--	--	--
Ca7_P2_29094568	Ca7	29094568	ATTT/ATTTTTT	TTGTCGCTCTCCGATTC TTT	GTGTGTGAGGTGGTGA ATCG	60.0	843	INTERGENIC	--	--	--
Ca7_P2_29095794	Ca7	29095794	ATTTTTTTTTT/ATTTTTTTTT	CATTGAATCTATTTGTC CGCAA	CTTTGGTAGGACAGCA AAAGC	59.0	390	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29097263	Ca7	29097263	GAAAAAA/GAAAAAAA	GCAACTTGCAATGGTAT TCAGA	AAGGCCAGAAATGGAA AGGT	59.9	729	INTERGENIC	--	--	--
Ca7_P2_29102072	Ca7	29102072	ATTTTTT/ATTTTTT	GTTTCTTCCAGCAGCA GACC	CCTTCCATTTGCATCA CCT	59.9	374	INTRON	Ca_11798	Q	--
Ca7_P2_29104256	Ca7	29104256	AC/ACTC	TTTTGATTTGAGGCCTC CAC	TCGTATTGATGCAGCT CCTG	60.0	573	INTRON	Ca_11798	Q	--
Ca7_P2_29108458	Ca7	29108458	CTGT/CT	CTGCGAAAGTGTGACA AAGC	GGCAGAACACAGAGAG GGAG	60.0	293	DRR	Ca_11798	Q	--
Ca7_P2_29118994	Ca7	29118994	CATTTAATTTAATTTAATTT/CATTTAATTT TAATTTAATTTAATTT	TTTAACCTCTCCGCGGA TTC	CTCCCAAACGCTCTCG TAAG	60.0	490	INTRON	Ca_11796	FE	--
Ca7_P2_29121824	Ca7	29121824	GATAAATAAATAAATAA/GATAAATAAAT AAATAAATAA	TTAGTGCCAACAAATGC GAG	TTGCCACGTCATTGAA AGAG	59.8	492	INTRON	Ca_11795	S	--
Ca7_P2_29122529	Ca7	29122529	A/AGATC	ATGTTCTTCCACAGCC AAC	CAAGACCTGCTTTTT GCTC	60.0	132	INTRON	Ca_11795	S	--
Ca7_P2_29127420	Ca7	29127420	CT/CTTT	GCAGTGCCAGACCT CATT	CACAACCACAAAGATG GCAC	60.0	460	INTRON	Ca_11794	R	--
Ca7_P2_29128437	Ca7	29128437	TC/T	TCTATAATCCCGTGT GCG	ACCTGCAATTTGGAT GAGC	60.1	599	DRR	Ca_11794	R	--
Ca7_P2_29129041	Ca7	29129041	T/TG	AAAAGCAAATGCGTGG AAAC	ACCACCTTGCCTATGTT TGG	59.9	104	DRR	Ca_11794	R	--
Ca7_P2_29132969	Ca7	29132969	TA/TTCTAA	AGAGCAGCTTTTCCCC ATT	CAATCACCGATGATCTT TTACG	59.5	188	DRR	Ca_11793	--	--
Ca7_P2_29133168	Ca7	29133168	CAAA/CAAAAA	AGAGCAGCTTTTCCCC ATT	GAAGAAAAGTATTGCA CGTTTGAA	59.7	720	DRR	Ca_11793	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29135149	Ca7	29135149	TAAAAAA/TAAAAA	AATGAAATTGTGGCA TAACA	TTGTGAAATCGTCGA AGTG	59.8	279	INTERGENIC	--	--	--
Ca7_P2_29135633	Ca7	29135633	ATTAATTTAATTTTAATT/ATTAATTTTA ATTTTAATTTTAATT	CGACGATTTGACAAATC AAA	AAATGCAAAACCAACTC ACC	59.8	955	INTERGENIC	--	--	--
Ca7_P2_29135961	Ca7	29135961	AG/A	AGCGCAACATCTCACT GATT	AAATGCAAAACCAACTC ACC	59.8	395	INTERGENIC	--	--	--
Ca7_P2_29137942	Ca7	29137942	C/CGATTAATTATTGTTT	TCCGCCTTTATTCACCT TTG	TTTGCTGCCTTTTGACA CTG	60.0	773	INTERGENIC	--	--	--
Ca7_P2_29138715	Ca7	29138715	TGGG/TGG	AACAACGGAAACCA GTGC	CGATAGAATCCGGCCA GTAA	60.1	579	INTRON	Ca_11792	--	--
Ca7_P2_29140082	Ca7	29140082	AAATTAAAT/AAATTAAATCAATTAAAT	TGCCATATCCTCCATTG TGA	TCAGTTCAGTTCTAAAC GGTTCAA	60.2	584	DRR	Ca_11791	--	--
Ca7_P2_29140150	Ca7	29140150	A/AC	TGCCATATCCTCCATTG TGA	TCAGTTCAGTTCTAAAC GGTTCAA	60.2	584	DRR	Ca_11791	--	--
Ca7_P2_29140215	Ca7	29140215	CAAAAAAAAA/CAAAAAAAAA	TGCCATATCCTCCATTG TGA	TAAGATGTGTTCCCAT GCCA	59.9	739	DRR	Ca_11791	--	--
Ca7_P2_29140351	Ca7	29140351	TAA/TA	TGCCATATCCTCCATTG TGA	TAAGATGTGTTCCCAT GCCA	59.9	739	DRR	Ca_11791	--	--
Ca7_P2_29143053	Ca7	29143053	GAAAAAAAA/GAAAAAAAA	TGCTCAATAGGAGCCC ACTT	AAACCTTTGTGGCATT GGTC	59.8	539	INTRON	Ca_11791	--	--
Ca7_P2_29145410	Ca7	29145410	TT/TTATCTTAAAT	TTGGCATCAGGCACAA AATA	TTTGCCTAATGCACAA CCAT	60.0	652	INTRON	Ca_11791	--	--
Ca7_P2_29150774	Ca7	29150774	GAAAAAAAA/GAAAAAAAA	CAAGGCCATAATGCCA AAGT	CCCTTGTTGTGTGTGT TTGC	60.0	720	INTRON	Ca_11791	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29153060	Ca7	29153060	CTGCACACAT/CT	CTTTCTGCATCCGAAG CTC	TTTTTGACAGCTTTACG CCC	60.2	448	INTRON	Ca_11791	--	--
Ca7_P2_29155710	Ca7	29155710	ATAT/A	TGCACACACGTGCTATT TGA	GAAGGGGATAATGGTT TGGG	60.4	690	INTRON	Ca_11791	--	--
Ca7_P2_29155959	Ca7	29155959	ATTTTTTTTT/ATTTTTTTTT	TGCACACACGTGCTATT TGA	TAGAGGTGCAGCTGTT GTGG	60.0	929	INTRON	Ca_11791	--	--
Ca7_P2_29160732	Ca7	29160732	T/TG	CACCGTGCTCAAGGGT TAAT	GCGAATTTGTGATGGA AACC	60.3	315	INTERGENIC	--	--	--
Ca7_P2_29160942	Ca7	29160942	CTTTTATTTTTTATTTTTTA/CTTTTAT TTTTTATTTTTTATTTTTTA	CACCGTGCTCAAGGGT TAAT	AACCATTGCATAGGTTT GTTGA	59.4	837	INTERGENIC	--	--	--
Ca7_P2_29161101	Ca7	29161101	A/AC	GGTTTCCATCACA AAT CGC	TGGTGCCATTAATTG AACAT	60.1	658	INTERGENIC	--	--	--
Ca7_P2_29161313	Ca7	29161313	CAAA/CAA	TCCATCACA AATCACA GTTCA	AGAATTCACCA AATC CGC	59.9	960	INTERGENIC	--	--	--
Ca7_P2_29161427	Ca7	29161427	TG/T	TGTTTTTCATGCTAACT TCCG	AGAATTCACCA AATC CGC	59.9	552	INTERGENIC	--	--	--
Ca7_P2_29164762	Ca7	29164762	CAAT/CAATAAAAT	ATGGTCATGTCAAATGG ACG	GGAAAAAGTGGA TTG GGTT	60.0	610	INTERGENIC	--	--	--
Ca7_P2_29171901	Ca7	29171901	AATATATATATATATAT/AATATATATA TATATATATATATATATAT	CACCACCACTACCCCAT TTC	TGCTTGTCCTCACTTG TGC	60.0	628	INTERGENIC	--	--	--
Ca7_P2_29172192	Ca7	29172192	GAAAAA AAAA/GAAAAA AAAA	CACCACCACTACCCCAT TTC	TGCTTGTCCTCACTTG TGC	60.0	628	INTERGENIC	--	--	--
Ca7_P2_29172223	Ca7	29172223	CTAATTAA/CTAATTAATTAA	GGGGCAACCA AATAG TGAA	TGCTTGTCCTCACTTG TGC	60.0	396	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29172582	Ca7	29172582	ATTCTTGTTCTTGTTCTTGTT/ATTCTG TTCTTGTT	GCACAAGTGAGGAACA AGCA	TCGGTTTTCTCGAACC ATTC	60.1	362	INTRON	Ca_11789	R	--
Ca7_P2_29177568	Ca7	29177568	CAAAA/CAAA	GCTTATTCCTGGTCCCC ATT	TGATACAAAGCAACCC AGCA	60.3	381	INTRON	Ca_11788	--	--
Ca7_P2_29179462	Ca7	29179462	CTTT/CTT	CTGAAGGTGTCCCTGG TGTT	GCGGCTACCAAACTTG ACTC	59.9	489	DRR	Ca_11788	--	--
Ca7_P2_29179673	Ca7	29179673	AGCCGCC/AGCC	CTGAAGGTGTCCCTGG TGTT	CGCATTGAGACAAACA AATCA	59.7	978	DRR	Ca_11788	--	--
Ca7_P2_29181174	Ca7	29181174	AGG/AGGG	CCCTCGAAATCAAATC GAA	TCTATGCGTTTGGTGG ACAA	60.1	679	DRR	Ca_11788	--	--
Ca7_P2_29181377	Ca7	29181377	TAAA/TA	GGAACCACAAGCTTCA ATGC	TCTATGCGTTTGGTGG ACAA	60.1	461	INTERGENIC	--	--	--
Ca7_P2_29184902	Ca7	29184902	CTT/CTTT	CCAAAGGCCAAAACGA ACTA	GGTCACGACATTGTG ACTTG	59.0	582	INTERGENIC	--	--	--
Ca7_P2_29191236	Ca7	29191236	GAAA/GAA	TACCGGAAAACCTCAG GAC	GAACCAATGAGCATGA GCAA	59.8	611	DRR	Ca_11786	J	--
Ca7_P2_29192108	Ca7	29192108	A/AGGG	TTGGGAGACTGGACCA AAAC	ATGCAAGCTTCCTGT CACC	60.3	458	DRR	Ca_11786	J	--
Ca7_P2_29196375	Ca7	29196375	CTT/CTTT	CTTCTCGGAACTGACA GGG	CCACATGAGCGTGAAC AATC	60.1	359	DRR	Ca_11785	--	--
Ca7_P2_29200942	Ca7	29200942	ATTTTTTT/ATTTTT	TTCCAAAAGCCACGATT TTC	ATCGACTCCCGAACTC AAAA	59.7	720	INTERGENIC	--	--	--
Ca7_P2_29207954	Ca7	29207954	GAA/GA	TTTGGGTTGTGTGTTCT GGA	CAATTAGGGAGGGTCG TGAA	59.9	558	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29208189	Ca7	29208189	CTTT/CTT	AAACTTTCACGACCTC CCT	CACCGGTTACAAAT CTGC	60.4	307	INTERGENIC	--	--	--
Ca7_P2_29216628	Ca7	29216628	CGACAA/C	TGTTTATGCTATTTT CCCGA	GGGGATATGGTGAGA GGAT	60.0	606	DRR	Ca_11784	--	--
Ca7_P2_29219777	Ca7	29219777	CT/CTCACGAT	TGAAGTTGTAGGGCT GCCT	TGCTTAGAGCCTTTT GCAT	60.0	588	CDS (large-effect mutations)	Ca_11784	--	--
Ca7_P2_29220332	Ca7	29220332	GAAAAAA/GAAAAAAA	AAGACCTGAAGCAGG ACAA	GCAACTGGGACTGGT GTAT	60.0	762	INTRON	Ca_11784	--	--
Ca7_P2_29221906	Ca7	29221906	CTTTT/CTT	TATCGCCAATCTCCAT CTC	CTCGATGACAGTGGA AAAA	59.8	429	DRR	Ca_11783	C	--
Ca7_P2_29223450	Ca7	29223450	CA/CAA	AGGCCTCAAGAAGTT GTGA	ATTTTCATGGGTGGAA AACA	60.0	414	DRR	Ca_11783	C	--
Ca7_P2_29224709	Ca7	29224709	CGAAATGCG/C	TCACAAATCACAAAT CACACA	ACTCCATGACACGAA GAGG	60.1	876	INTRON	Ca_11783	C	--
Ca7_P2_29226958	Ca7	29226958	AATTGATA/AATTGATATTGATA	TTCCATCTGGAAGCAT CTC	TCCTGTTTGAGGGGT GTAA	60.3	577	INTRON	Ca_11783	C	--
Ca7_P2_29230678	Ca7	29230678	A/AG	TTCTCCATTGAGTGT GCG	AATTTTCATTGCCATC TGC	59.9	724	DRR	Ca_11781	R	--
Ca7_P2_29238733	Ca7	29238733	GTTTTTTT/GTTTTTTT	TGGTCGGTCATTCAAT TTGT	AAGTTAAGGACCGCA AGTG	59.2	385	INTERGENIC	--	--	--
Ca7_P2_29240073	Ca7	29240073	CAAA/CAAAAA	GCAGAGTCCGAGAGA AATG	GCATCCACTACCGTG AAAT	60.1	583	INTERGENIC	--	--	--
Ca7_P2_29243108	Ca7	29243108	CAAA/CAAAA	ACCTTTGGTGAGAACC GATG	TGGAAAACACATTGTC CGAA	59.9	897	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_29248393	Ca7	29248393	TG/TGG	GCACCTCATCAACGAA TCA	GTGGGATGGAATCAA GTGG	60.2	255	INTERGENIC	--	--	--
Ca7_P2_29248608	Ca7	29248608	TAAAAAAA/TAAAAAAA	CACTTTGATTCCATCCC ACC	CTCCATACGAACCCCTC TCCA	60.1	430	INTERGENIC	--	--	--
Ca7_P2_29251479	Ca7	29251479	TC/TCC	TGGCTCATTGAACCTTT TCAG	AGCTTGTCAAAACCTGG GTGG	60.1	467	INTERGENIC	--	--	--
Ca7_P2_29256749	Ca7	29256749	T/TCAATCATC	GCGAATTTCCCAACTT CAA	GGCAACTAGAAATCAA GGCG	59.8	348	INTERGENIC	--	--	--
Ca7_P2_29256949	Ca7	29256949	GCCCC/GCCC	GCGAATTTCCCAACTT CAA	AAAACCTGAAAGGGCA ACCT	60.0	784	INTERGENIC	--	--	--
Ca7_P2_29259869	Ca7	29259869	G/GC	CAAATTCGCATATTTGG TTCC	CAAACGCTGCTGACAC ATCT	60.1	912	INTERGENIC	--	--	--
Ca7_P2_29263287	Ca7	29263287	TA/TATATGA	TGATTGCAAGGCCACA AGTA	CCGTCGATTTTCCAGT GTT	60.0	805	INTRON	Ca_11779	--	C2H2
Ca7_P2_29265546	Ca7	29265546	T/TA	ATTGTACCTTCGCGAAC ACC	TAGCAATGTCACGAAAT GCC	59.7	707	INTRON	Ca_11779	--	C2H2
Ca7_P2_29280548	Ca7	29280548	ATATTATTATTATTATTATT ATT/ATATTATTATTATTATTATT ATT	TTGTTTAAAAACCAAT ATGACA	TTGCAACTACCAAAATA AACAATTC	59.8	875	INTERGENIC	--	--	--
Ca7_P2_29294457	Ca7	29294457	AATT/AT	TTATAAGTTAAGGGGCC GCA	AACCAATGGTGCAATG ATCT	60.2	589	INTERGENIC	--	--	--
Ca7_P2_29295702	Ca7	29295702	GATTAATTA/GATTA	GGTGTCAACATAGATTG GACG	TCCTGCTTATTTATAAT CGGGTTC	59.8	401	INTERGENIC	--	--	--
Ca7_P2_29296078	Ca7	29296078	ATTTTTT/ATTTTTTTT	AAGGGAATGATTGAAT AAAGGC	AAAACGAGTATTCTGG AGAGAGAAA	59.1	699	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29296655	Ca7	29296655	AATTATTATTATTAT/AATTATTATTATTA TTATTAT	TGCATGTCTTCTAAGGG TATTTTTC	AGGGAGCTGGTAGGG GATTA	59.9	837	INTERGENIC	--	--	--
Ca7_P2_29299515	Ca7	29299515	ACGC/AC	TGGTTGCAACAATGCAA AAT	AGCATCGATGAATGAG GAGC	60.3	567	INTRON	Ca_11777	--	C2H2
Ca7_P2_29306061	Ca7	29306061	CATTA/CATTATTA	CGGACCAGAAAATATCA CCA	TCACTAAGGGTCGAAG CACA	59.4	415	INTERGENIC	--	--	--
Ca7_P2_29315068	Ca7	29315068	TTTCTTC/TTTC	AGAAGTCGAACGATGA CGAAA	CCTCATTTCCCTCGTCA GAG	59.8	641	INTERGENIC	--	--	--
Ca7_P2_29317242	Ca7	29317242	TATCATTTTCAATCATTT/TATCATTT	TTGTCCATAACCGCAAG AGA	ATGCGACGTGCATTCA TTTA	60.1	181	INTERGENIC	--	--	--
Ca7_P2_29320707	Ca7	29320707	AATATATAT/AATATATATAT	CACCATTGACGGCAATA CAA	GAATGCAAAAAGGCTG CAAT	60.2	612	INTERGENIC	--	--	--
Ca7_P2_29321592	Ca7	29321592	AT/ATAAATTT	CAAAGCCATCAGTATTG GGG	CCTCCCAAAGTAGCAT GGAA	60.1	604	INTERGENIC	--	--	--
Ca7_P2_29322502	Ca7	29322502	TATTTTGAT/TATTTTGATTTTGAT	AAACGCTCTTAAAAACA TTCTTCC	CTCGTACAATGGCCCA GATT	60.0	852	INTERGENIC	--	--	--
Ca7_P2_29324634	Ca7	29324634	TTT/TTTATT	TGGCAAATGCCTACAAT TCA	TTTTTCCCATATTTTT CGTTG	60.1	865	INTERGENIC	--	--	--
Ca7_P2_29326465	Ca7	29326465	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	GAAGTCAACGGAATCT CATCC	TGAATAGAGGATGTCG TGTGAAA	59.6	392	INTERGENIC	--	--	--
Ca7_P2_29326662	Ca7	29326662	CAAAAA/CAAA	AAGTCAACGGAATCTCA TCCA	GCAAAGCGATTAAATGA CAGG	58.4	978	INTERGENIC	--	--	--
Ca7_P2_29326835	Ca7	29326835	TAAAAAAAAA/TAAAAAAAAA	CACACGACATCCTCTAT TCAACA	GCAAAGCGATTAAATGA CAGG	58.4	607	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29326965	Ca7	29326965	GCCA/G	CACACGACATCCTCTAT TCAACA	GCATCCTGATAATCCG ATGAA	59.9	929	INTERGENIC	--	--	--
Ca7_P2_29334299	Ca7	29334299	ACATCATCA/ACATCATCATCATCA	AATCCCCACCTGGATAC CTC	GCTCGCTACGTACGAC AACA	60.1	609	INTERGENIC	--	--	--
Ca7_P2_29336003	Ca7	29336003	ATTTTTT/ATTTTTTT	TGAGTCAAATAATGTTT TGCCA	ACCAAAATTCAGCACT GCAC	58.8	271	INTERGENIC	--	--	--
Ca7_P2_29341877	Ca7	29341877	TC/T	TGGTATAATTGCTCATG CGG	AGCTGAATCGCGAAAG TTGT	60.0	517	INTERGENIC	--	--	--
Ca7_P2_29344358	Ca7	29344358	TTA/TTAGAGTATTATA	TTATCATCATGTAACCA TGTGTCTT	CACGCTCCCACTAATC TTACA	57.9	227	INTERGENIC	--	--	--
Ca7_P2_29345782	Ca7	29345782	AATATATATATATATATA/AATATATAT ATATATATA	TGGATGACAAGTGTIT GGC	AAAATTGCATCTTCCCT TTTGA	60.0	946	INTERGENIC	--	--	--
Ca7_P2_29346274	Ca7	29346274	ATTTTTTTTTT/ATTTTTTTTTT	CAAAAGGGAAGATGCA ATTTTT	TTTGCGGGATGAATTC TTTT	59.5	206	INTERGENIC	--	--	--
Ca7_P2_29346372	Ca7	29346372	G/GC	CAAAAGGGAAGATGCA ATTTTT	TTTGCGGGATGAATTC TTTT	59.5	206	INTERGENIC	--	--	--
Ca7_P2_29347288	Ca7	29347288	CAAT/CAATTAAT	TTCAAATCCACGATTAG GGTG	CATCAGCTATGCCATC TCCA	59.8	829	INTERGENIC	--	--	--
Ca7_P2_29348745	Ca7	29348745	CATATATATATATAT/CATATATATATAT ATAT	CATTTTGTGAAGATG TCGGC	TTTTCCCTTCAAGCTGC AAT	59.8	219	INTERGENIC	--	--	--
Ca7_P2_29350116	Ca7	29350116	GAAAAAAAAA/GAAAAAAAAA	GTCCCAACACTGATGG CTTT	GGCTCCCAACACTGAA TGAT	59.9	560	INTERGENIC	--	--	--
Ca7_P2_29354288	Ca7	29354288	GTTTTTTTTTTTTT/GTTTTTTTTTTTT	TGAATAAAAGGGAAGT GAGCA	AAAGTCCGTCATTTTG GTGG	59.8	108	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29356844	Ca7	29356844	TAAAAAAAAA/TAAAAAAAAA	CGATTATGCGTAGGGA TGGT	CACCACGAGCACTATG TTGG	60.2	857	INTERGENIC	--	--	--
Ca7_P2_29356944	Ca7	29356944	ATTTTTTT/ATTTTTTT	CGATTATGCGTAGGGA TGGT	CACCACGAGCACTATG TTGG	60.2	857	INTERGENIC	--	--	--
Ca7_P2_29357883	Ca7	29357883	TTTATT/TTT	ATGAATGATTGCGTCCA TGA	GGGACCACCGGTGTTA TTTA	59.5	517	INTERGENIC	--	--	--
Ca7_P2_29385826	Ca7	29385826	CTTTTTTTTTTTTT/CTTTTTTTTTTT	AATTGCTCATGTGGTCC CTT	TCATCCTTTTACGCCGA ATC	60.0	443	INTERGENIC	--	--	--
Ca7_P2_29387695	Ca7	29387695	CACCTA/CACCTACTTA	TTTGTTTACAAAAATTC ATTCGTGA	TGCACTTCCACATATCC AACA	60.0	632	INTERGENIC	--	--	--
Ca7_P2_29388652	Ca7	29388652	GTTTTT/GTTTT	AATAATTCTTCGGCATG CAA	ACATCAGTCAAGCGCA CAAA	60.5	832	INTERGENIC	--	--	--
Ca7_P2_29391915	Ca7	29391915	GAAAAAAAAA/GAAAAAAAAA	TCAATTGAGGACATTCC TCG	GAGGGAAGATTCTCCA ACACA	59.1	421	INTERGENIC	--	--	--
Ca7_P2_29392132	Ca7	29392132	TAAAAAA/TAAAAAA	TCAATTGAGGACATTCC TCG	CGATTCTATAATTCCA CCCA	57.5	542	INTERGENIC	--	--	--
Ca7_P2_29392575	Ca7	29392575	TTTTTATT/TTT	TGTTGGAGAATCTTCCC TCTTT	GCGCCACAACCTTCTAC TCCT	59.5	816	INTERGENIC	--	--	--
Ca7_P2_29392908	Ca7	29392908	AT/A	AAGGAGTAGAAGTTGT GGCG	CGATGAGTGATCGGGA TAGC	60.6	149	INTERGENIC	--	--	--
Ca7_P2_29393145	Ca7	29393145	TTTATTATTATTATTATTATTATTAT ATTATTATTATTATTATTATTATTAT TAT/TTTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTAT	CCCGATCACTCATCGT CAAT	TGGAGCATTAAATTAT GAACGG	60.2	565	INTERGENIC	--	--	--
Ca7_P2_29397055	Ca7	29397055	GTT/GTTT	AAATTTGTTGAATGTTT GGTGA	CTTAACACCAGTCAAG CGCA	60.1	781	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29397412	Ca7	29397412	T/TA	GGGGAGAGTTGTAAT CCCCA	CTTAACACCAGTCAAG CGCA	60.1	327	INTERGENIC	--	--	--
Ca7_P2_29404646	Ca7	29404646	AG/A	AGTTTGGGAGAACTC CGCT	CGCTCGTTACCGTTTA GGTT	59.3	514	INTERGENIC	--	--	--
Ca7_P2_2940930	Ca7	2940930	AAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAA TAATAATA	TCTTCAGACCAAAAATG GGC	TGCAAGTTTTCTGTCC AAA	59.3	581	DRR	Ca_03181	--	FAR1
Ca7_P2_29410137	Ca7	29410137	GTCT/GT	TTGTAGGGCGGATCTG GTTA	GGGCATTCTCATGTC AGAT	59.9	541	INTERGENIC	--	--	--
Ca7_P2_29416537	Ca7	29416537	ATATAAATTATAAATTATAAATTAT/ATAT AAATTATAAATTATAAATTATAAATTATA AATTAT	AAAATCATTACTCACCA TAAGTGGAA	TGCTCTCCTCTTCAAC AACT	59.1	436	INTERGENIC	--	--	--
Ca7_P2_29418101	Ca7	29418101	C/CT	CATGTACAGTCACATC GGA	TTGTAGGCTGGACATC ATGC	59.7	329	INTERGENIC	--	--	--
Ca7_P2_29418151	Ca7	29418151	GT/G	CATGTACAGTCACATC GGA	TTGTAGGCTGGACATC ATGC	59.7	329	INTERGENIC	--	--	--
Ca7_P2_29433832	Ca7	29433832	GTTTTTTTTT/GTTTTTTTT	ACGAAATGGACCTTCAC CTG	GGCGATGAACCAAGGA GATA	60.0	545	DRR	Ca_11776	--	--
Ca7_P2_29443831	Ca7	29443831	TAAAAA/TAAAAA	TTGGAGTTTAGGGTGT CACAAA	TCAGAGTGGGAAAAAG TGGG	60.1	586	INTERGENIC	--	--	--
Ca7_P2_29445291	Ca7	29445291	ATTTTT/ATTTTTTT	ATCAGTGTGCGTAGGC TTGG	ACAAC TTGTCGAGGGT CCAC	60.0	807	INTERGENIC	--	--	--
Ca7_P2_29446046	Ca7	29446046	GTTT/GTTTT	GTCTCCGCTCAATCAG AAGG	TCATCCCCAACATTATT TCGTG	59.7	763	DRR	Ca_11775	R	--
Ca7_P2_29446111	Ca7	29446111	CATT/CATTGATT	GTCTCCGCTCAATCAG AAGG	TCATCCCCAACATTATT TCGTG	59.7	763	DRR	Ca_11775	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29446201	Ca7	29446201	ATTTTTTTTT/ATTTTTTTTT	CGTTGCGCATGTGAAT TTG	TCATTCCCAACATTATT TCGTG	59.7	639	DRR	Ca_11775	R	--
Ca7_P2_29446812	Ca7	29446812	GTTTT/GTTTT	CACGAAATAATGTTGG GAATGA	AATTGACAAATGGAGG CGAA	60.4	770	DRR	Ca_11775	R	--
Ca7_P2_29452272	Ca7	29452272	TGGG/TGG	TTTGTAATACTCCGGC GAC	TTGACCACTACCCAT CTCA	60.1	681	INTRON	Ca_11774	--	--
Ca7_P2_29456115	Ca7	29456115	CGAGA/CGA	GAGGTGGGTGTTTTG TGCT	GCCATAGGTGAAAAC GAAA	59.9	525	DRR	Ca_11773	S	--
Ca7_P2_29457062	Ca7	29457062	CAA/CA	TGATCTTGATTCGAAAG CCA	GGAAGGGATGTGTTTG CTGT	60.0	823	DRR	Ca_11773	S	--
Ca7_P2_29458658	Ca7	29458658	GCA/GCAATCA	CACTGTGGTATGACCG GAAG	GCCCTTTGATCATGCA ACTT	60.1	460	INTRON	Ca_11773	S	--
Ca7_P2_29460516	Ca7	29460516	TAAAA/TAAAA	GTGCTAAAGCCTGAAA CCCA	GATGAATTGGGGTTT CCCT	60.0	660	INTERGENIC	--	--	--
Ca7_P2_29460570	Ca7	29460570	G/GAA	GTGCTAAAGCCTGAAA CCCA	GATGAATTGGGGTTT CCCT	60.0	660	INTERGENIC	--	--	--
Ca7_P2_29465694	Ca7	29465694	GCTC/GCTCTC	AATCATTTTCACCCACC TGC	GGGATATGGTCTCGA GTCA	59.9	807	DRR	Ca_11772	--	ERF
Ca7_P2_29470593	Ca7	29470593	A/AC	CGCAGAAAAATTGTC CTA	AAAAATGCAGTGTGG GAAT	59.3	312	DRR	Ca_11771	--	ERF
Ca7_P2_29472838	Ca7	29472838	C/CAAG	TACCATGCCAAAACGCA ATA	TGTCGCCAAATCAGAC ACTC	59.8	122	INTRON	Ca_11771	--	ERF
Ca7_P2_29472867	Ca7	29472867	GCATAATA/GCATAATAACATAATAA	TACCATGCCAAAACGCA ATA	TTGGATGTGCAGGTGT GATT	60.0	533	INTRON	Ca_11771	--	ERF

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29475338	Ca7	29475338	ATTT/ATT	ACGGAAGGTAGCAAA TTGG	TTGTGGCTCACTTATG GTGAA	59.2	801	INTERGENIC	--	--	--
Ca7_P2_29475795	Ca7	29475795	T/TC	GGTTCACCATAAGTGA GCCA	CACACGATATCGCCAC AAAC	60.0	209	INTERGENIC	--	--	--
Ca7_P2_29476073	Ca7	29476073	CTTTTTTTTT/CTTTTTTTT	GTTTGTGGCGATATCG TGTG	AACAATCAAACAATTGA AAACACAA	59.7	627	INTERGENIC	--	--	--
Ca7_P2_29476354	Ca7	29476354	ATTTTTTTTT/ATTTTTTTT	TGTGAAAAGCTGACCA GCAC	TGATTCCCTAAAATCAC AGCG	60.1	918	INTERGENIC	--	--	--
Ca7_P2_29480489	Ca7	29480489	ATTTT/ATTTTT	TTTCCTTGTTTGACCCG TTC	TTCCATAGGTTATGCC CCAA	60.1	712	INTERGENIC	--	--	--
Ca7_P2_29480512	Ca7	29480512	CTTTTTTTTT/CTTTTTTTTT	TTTCCTTGTTTGACCCG TTC	TTCCATAGGTTATGCC CCAA	60.1	712	INTERGENIC	--	--	--
Ca7_P2_29488584	Ca7	29488584	AATTATTATTATTATTATTATTA/AAT TATTATTATTATTATTATTATTA	CTCCAACCCCTTCCATCC TTT	TCCGATTATGGACGGA TACA	58.8	539	INTERGENIC	--	--	--
Ca7_P2_29489393	Ca7	29489393	C/CT	TCGACCGGTACTGATT CAAA	AAATGATAAGCCTCGTT GCG	60.2	280	INTERGENIC	--	--	--
Ca7_P2_29490811	Ca7	29490811	TA/TAA	TTCTCGCACATTGAA AGG	GATGATTTCCGGCAT CCAC	60.2	809	INTERGENIC	--	--	--
Ca7_P2_29492763	Ca7	29492763	ATT/AT	TTGCTCGTTTCTATT TTGC	CTCGAAAATCTGCAATC ACG	59.4	267	INTERGENIC	--	--	--
Ca7_P2_29493076	Ca7	29493076	GTAA/GTAACTAA	CGTGATTGCAGATTTTC GAG	TGTTAAAATTCACCTCG GATGG	59.0	572	INTERGENIC	--	--	--
Ca7_P2_29493926	Ca7	29493926	A/AT	AAATTGTATCCGCAGTC CCTT	AAAGTGTATTCGCGGT CCTT	58.7	556	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29495371	Ca7	29495371	CAAA/CAAAA	CTCCTGGTTGATCGTT TTGT	TTTGGGTTGTCCCTCG TAAA	60.3	463	INTERGENIC	--	--	--
Ca7_P2_29495998	Ca7	29495998	AATAT/AATATAT	TTTACGAGGGACAACC CAAA	TCTGAGCTTCATGGTG CAAG	60.1	708	INTERGENIC	--	--	--
Ca7_P2_29496139	Ca7	29496139	TAAAA/TAAAAA	TTTTCTTTCAAATGCA AGCC	TGTGCTTCTGAGCTTC ATGG	60.1	300	INTERGENIC	--	--	--
Ca7_P2_29496210	Ca7	29496210	TG/T	TTTTCTTTCAAATGCA AGCC	TGTGCTTCTGAGCTTC ATGG	60.1	300	INTERGENIC	--	--	--
Ca7_P2_29501958	Ca7	29501958	A/ATAAAAT	TGTTTGGTGAGGATGA GGAA	GGAACGGGTCAAACAA GAAA	59.9	601	INTERGENIC	--	--	--
Ca7_P2_29502114	Ca7	29502114	AAATTCCA/AAATTCCAATTCCA	TGAGTTTTCTTGTTGA CCCG	TACCCACCTGGGATTT TAGC	58.9	245	INTERGENIC	--	--	--
Ca7_P2_29502300	Ca7	29502300	ATTGAGTTG/ATTG	TTTCTTGTTGACCCGT TCC	AATCCTTGTTAGTCG GGGA	60.7	623	INTERGENIC	--	--	--
Ca7_P2_29526742	Ca7	29526742	AT/A	TTGTTTTCGGGAAGTG GTC	TGAAACACAATGTGGT CGAGA	60.1	551	INTERGENIC	--	--	--
Ca7_P2_29528620	Ca7	29528620	TTTAATTAA/TTTAA	TCGGAATCAGTTCAAG GGTAA	TGATGCTTCTGTGCTT CGTC	60.1	359	INTERGENIC	--	--	--
Ca7_P2_29528965	Ca7	29528965	GACAAAA/GACAAAACAAAA	GACGAAGCACAGAAGC ATCA	GCAATGTTTCCTCCTC GAA	60.2	715	INTERGENIC	--	--	--
Ca7_P2_29530405	Ca7	29530405	AC/A	TCACGTTTCTCAGGTT CATT	TCCAAAAATTCACCAC TTGC	60.0	462	INTERGENIC	--	--	--
Ca7_P2_29535944	Ca7	29535944	CTT/CT	AGGTTGATCTGGACTG GTGG	TGGTTCACCCAATTCA GGTT	60.2	109	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29536907	Ca7	29536907	GC/G	CGACATGATCTGAATCC GAA	TAACCAAGGTGTGGTG CAAA	60.0	552	INTERGENIC	--	--	--
Ca7_P2_29537020	Ca7	29537020	A/AT	TCTTCTTTTCCGTGCC TTC	TAACCAAGGTGTGGTG CAAA	60.0	107	INTERGENIC	--	--	--
Ca7_P2_29537259	Ca7	29537259	T/TG	TTTGACCACACCTTGG TTA	GAACAAAAGGAAAGG GGAA	59.4	528	INTERGENIC	--	--	--
Ca7_P2_29539727	Ca7	29539727	GTTTTTTTTTTT/GTTTTTTTTTTTTT	AAAATATGAGCCGCCAT TTG	AGTGTTCACGACGAGG GGGT	60.8	490	INTERGENIC	--	--	--
Ca7_P2_29543795	Ca7	29543795	GTTTTATTTTTAT/GTTTTATTTTTA TTTTTAT	TTTCCGTGCCCTCAAAA ATC	TTTTGATGGGATTGG GTAG	59.6	657	INTERGENIC	--	--	--
Ca7_P2_29550695	Ca7	29550695	AT/A	AAGCATCCCAATTCGT CTG	AGAACTTGAGGCGACC AGAA	60.0	466	DRR	Ca_11767	--	SBP
Ca7_P2_29552593	Ca7	29552593	TATTAATTA/TATTA	TTTGACCACACCTTGG TTA	GCTTTTGAAGGGGATT ATGTAGG	60.2	586	INTERGENIC	--	--	--
Ca7_P2_29558536	Ca7	29558536	TACA/TAACA	AGCACCTAAACAATGG CACC	GTGGAAGCATGATCCT CAGC	60.8	615	INTERGENIC	--	--	--
Ca7_P2_29564950	Ca7	29564950	TC/TCC	TGTGTGACCATTTGATG TTGAA	GAACGACGAGGAAGAA GCAC	60.0	634	INTERGENIC	--	--	--
Ca7_P2_29566210	Ca7	29566210	GAAAAAAAA/GAAAAAAAAA	TGGCACATGTTCAATC TTTA	GGCACCCTAATTGCA CCTT	60.0	336	INTERGENIC	--	--	--
Ca7_P2_29567252	Ca7	29567252	T/TC	CTGGAGGCAAAAGATC CAAA	TCTCCAGTGTGATGG AGAA	59.2	810	INTERGENIC	--	--	--
Ca7_P2_29568674	Ca7	29568674	AT/A	GAAACGACAATCCAAT GCT	TTTGACACCAACTTCCC ACA	60.0	717	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29572407	Ca7	29572407	GT/GTTT	CGTCCAAGACCATTCAA CCT	CGCTCCATTGCTTTCT TAC	60.0	324	INTERGENIC	--	--	--
Ca7_P2_29576344	Ca7	29576344	TC/T	TTCCTCGAGAAGGAA CCAA	CAAAGAGGTTGGCGAA ACAT	60.1	508	INTERGENIC	--	--	--
Ca7_P2_29580185	Ca7	29580185	TAAAAA/TAAAAAA	GTTACACACGTAGGC CAAA	TCATGTGCGTTTGACT GATG	59.2	537	INTERGENIC	--	--	--
Ca7_P2_29581138	Ca7	29581138	AAAGATAAAGA/AA	AATTAGGTCATCCTGAT GGA	TTGATTGCGAACAAAG TTGG	59.7	714	INTERGENIC	--	--	--
Ca7_P2_29582004	Ca7	29582004	AA/AATAATA	GCAATGTGATTTTCATTC GTGA	AGCCCAATCTTTTGGTT TCA	59.5	297	INTERGENIC	--	--	--
Ca7_P2_29582896	Ca7	29582896	ATTTTTTT/ATTTTTTTT	ATGGCTAAATAACACCC GCA	TAACCAAGGTGTGGTG CAAA	60.0	377	INTERGENIC	--	--	--
Ca7_P2_29583319	Ca7	29583319	A/AC	TTTGCACCACCTTGG TTA	AAGCTTTTGATGAGAAT TGGG	58.3	582	INTERGENIC	--	--	--
Ca7_P2_29584335	Ca7	29584335	AA/AAATATA	GGTATGAAGGTGCAAT GGCT	TGAGTCGAATGTGTTT CCGA	60.2	411	INTERGENIC	--	--	--
Ca7_P2_29584512	Ca7	29584512	ATTTTTT/ATTTTTTTT	GGTATGAAGGTGCAAT GGCT	TGAAGCTCAATTCATT GGAGA	59.8	771	INTERGENIC	--	--	--
Ca7_P2_29584932	Ca7	29584932	TA/TAA	TCGGAACACATTCGAC TCA	CCGAAAAGCTTTGTTC GTGT	60.3	914	INTERGENIC	--	--	--
Ca7_P2_29585306	Ca7	29585306	T/TTTTGAACACTAC	TATTGTGCGCAAATGT TCC	CCGAAAAGCTTTGTTC GTGT	60.3	279	INTERGENIC	--	--	--
Ca7_P2_29595027	Ca7	29595027	AAAGAAGAAGAAGAAGAAGAA/AAA GAAGAAGAAGAAGAAGAA	TCCAAGTGGTAAAAT GTGTG	CAAACCTTGGCAAAGG AGAA	60.2	254	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29595302	Ca7	29595302	ATTTTT/ATTTTT	CTCCTTTGCCAAGGTT GAA	TGACTTCCATCAAGTT TCG	58.7	507	INTERGENIC	--	--	--
Ca7_P2_29596865	Ca7	29596865	ATTTTTTTTT/ATTTTTTTTT	TTTCTTTTGGTTCGGT TGG	CCTCTCCATTGCAGA GAAA	59.4	859	INTERGENIC	--	--	--
Ca7_P2_29603440	Ca7	29603440	GAA/GAAAAA	GCCGCGTACTTACAA TCAT	TGGCACAGGTGTATT GTGG	60.4	638	INTERGENIC	--	--	--
Ca7_P2_29609973	Ca7	29609973	TAAAAAAAAA/TAAAAAAAAA	AATCACATTCAACTGCC GTG	TGAGTTAAGCCCCGCT AGAA	60.0	702	DRR	Ca_11764	--	--
Ca7_P2_29610103	Ca7	29610103	ATTTTT/ATTTTTTTT	AACAGAAAGAAGGCCG TTTG	TGAGTTAAGCCCCGCT AGAA	60.0	134	DRR	Ca_11764	--	--
Ca7_P2_29615212	Ca7	29615212	ATTTT/ATTTTT	TGCCAATTCACAATGA AAA	AGTGAAACCAACGCCA AAAC	60.0	474	INTERGENIC	--	--	--
Ca7_P2_29615433	Ca7	29615433	AA/AATCGATCTAACTCGA	TGCCAATTCACAATGA AAA	AGTGAAACCAACGCCA AAAC	60.0	474	INTERGENIC	--	--	--
Ca7_P2_29615700	Ca7	29615700	TA/TAA	GGCGTTGGTTTCACTC AAAT	ATGAAGCTTACGGCCA TCAC	60.1	277	INTERGENIC	--	--	--
Ca7_P2_29616903	Ca7	29616903	ATTTTTTTTT/ATTTTTTTTTT	GGGGTGTACACTTGA GGCA	TCGGAGAAAAATAGGA GCAAA	59.0	551	INTERGENIC	--	--	--
Ca7_P2_29617184	Ca7	29617184	TTTTTTATTTTTATTT/TTTTTTATTT TTTATTTTTATTT	TTTGCTCCTATTTTCT CCGA	GTAAGTCATGCCATAG GCCC	59.4	378	INTERGENIC	--	--	--
Ca7_P2_29617445	Ca7	29617445	AGGGGG/AGGGG	TTTGCTCCTATTTTCT CCGA	CAGACCATAAGTAAGT CATGCCA	59.2	388	INTERGENIC	--	--	--
Ca7_P2_29617882	Ca7	29617882	GAAAAAAA/GAAAAAAA	AGAATAGGCCGTCTGT CAGG	TTGCCTGACCTGACCT TTTT	59.7	622	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29618431	Ca7	29618431	TAAAA/TAAAA	AAAAGGTCAGGTCAG GCAA	CACAGTCCACTTCTT TCG	58.6	633	INTERGENIC	--	--	--
Ca7_P2_29638770	Ca7	29638770	A/AG	TCCAAAAGATACCGCAA AGG	GCAAAATGTGAGGAAT GCAG	59.3	431	INTRON	Ca_11761	--	NAC
Ca7_P2_29639329	Ca7	29639329	GTATATATATATATATATATATATAT TA/GTATATATATATATATATATATATA TA	TGCATTCTCACATTT GCT	ACCGGACGCTATATGT GCTT	59.6	518	INTRON	Ca_11761	--	NAC
Ca7_P2_29645650	Ca7	29645650	ATA/ATATAAATCTTA	GCCTCATCTACGATTAC GTCG	CTTGCAAAGCATTGG ATCA	59.8	693	INTERGENIC	--	--	--
Ca7_P2_29645681	Ca7	29645681	GAAAAAA/GAAAAAA	GCCTCATCTACGATTAC GTCG	CTTGCAAAGCATTGG ATCA	59.8	693	INTERGENIC	--	--	--
Ca7_P2_29645749	Ca7	29645749	TA/TCAA	GAAAGCGAGAAAGAGG GAAAA	CTTGCAAAGCATTGG ATCA	59.8	483	INTERGENIC	--	--	--
Ca7_P2_29645891	Ca7	29645891	CAA/CAAA	GAAAGCGAGAAAGAGG GAAAA	CTTGCAAAGCATTGG ATCA	59.8	483	INTERGENIC	--	--	--
Ca7_P2_29647717	Ca7	29647717	A/AG	TTTTTCTTTGTGTCG CATT	TTCAGTGAATTTGAGA GGAGATAA	57.2	636	INTERGENIC	--	--	--
Ca7_P2_29649369	Ca7	29649369	ATTTTTT/ATTTTTT	GGAACCCAATTGGAA GATT	CCCCTTTCTAAGAAC CGC	60.2	664	INTRON	Ca_11760	B	--
Ca7_P2_29649390	Ca7	29649390	ATTTTTTT/ATTTTTTT	GGAACCCAATTGGAA GATT	CCCCTTTCTAAGAAC CGC	60.2	664	INTRON	Ca_11760	B	--
Ca7_P2_29663483	Ca7	29663483	CAAAAAAAAA/CAAAAAAAAA	ATTGGCAGACATCCATT TCC	CGAAGCGCATTACGCT ATTA	59.9	639	DRR	Ca_11758	--	NF-YC
Ca7_P2_29667259	Ca7	29667259	TAAAAAAAA/TAAAAAAAA	GCAGAATCTTTGCCAAA ACC	TTAATTCAGGGCAAG GTGC	60.1	463	INTRON	Ca_11758	--	NF-YC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_29667832	Ca7	29667832	T/TC	CACCTTGCCCTGAAATT AACA	GTTTCGGCACTACTA GGCG	59.9	679	INTRON	Ca_11758	--	NF-YC
Ca7_P2_29669343	Ca7	29669343	TAA/TAAGAA	CTCCACCACCACTCATG TTG	TCAACGCCCTCACCTAT CATT	59.6	546	INTERGENIC	--	--	--
Ca7_P2_29671005	Ca7	29671005	ATTTTTTTTT/ATTTTTTTTT	TTAATGTGTGGCATTGT GTCA	CCGTGTCAGTTTTGTTT TTGG	60.4	922	INTERGENIC	--	--	--
Ca7_P2_29672845	Ca7	29672845	AA/AATA	TTTCTCAATTACGGGAG CATC	TCATCAAATTCGTAACG CAAA	59.2	834	DRR	Ca_11757	P	MIKC
Ca7_P2_29672926	Ca7	29672926	CATTTTTATTTTATTT/CATTTTTATTT	TTTCTCAATTACGGGAG CATC	TCATCAAATTCGTAACG CAAA	59.2	834	DRR	Ca_11757	P	MIKC
Ca7_P2_29672983	Ca7	29672983	A/AG	TTTCTCAATTACGGGAG CATC	TTTTTCCGACTTGTGCC TTT	58.7	995	DRR	Ca_11757	P	MIKC
Ca7_P2_29673235	Ca7	29673235	T/TTC	TGAATGTGGGTTGATT TGAA	ATGCCCCACAACTTTT AGC	59.1	831	DRR	Ca_11757	P	MIKC
Ca7_P2_29673545	Ca7	29673545	TTA/TTAAATA	AAAGGACCAAGTCGGA AAAA	GGCAATAAGGGCAAAG AAGA	59.3	341	DRR	Ca_11757	P	MIKC
Ca7_P2_29700418	Ca7	29700418	TTACT/TTACTACT	TGGCACTTTGCTCCTTT TCT	CATTGCAGGCATGATA TTGG	59.9	763	DRR	Ca_11752	--	--
Ca7_P2_29713610	Ca7	29713610	ATTTT/ATTTT	TTACAATCAATATGCGG CCA	CCATAATTTGATCCCC ACAA	59.5	627	INTERGENIC	--	--	--
Ca7_P2_29713878	Ca7	29713878	CATGGAATGGAA/CATGGAATGGAATG GAATGGAA	AGTTGGACCTCTTGAA CCA	CCATAATTTGATCCCC ACAA	59.5	361	INTERGENIC	--	--	--
Ca7_P2_29714388	Ca7	29714388	GTTAATACTTAATA/GTTAATA	TGAGTGAAATGAGCAAA ACCA	CCATTTTGTCCCTTCC CTT	60.2	424	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29718733	Ca7	29718733	TAAAAAAAAA/TAAAAAAAAA	CTAGGTAGTAGCGGG CATC	GCGGGGTGTAAGACGG AATA	60.0	505	DRR	Ca_11751	--	--
Ca7_P2_29724796	Ca7	29724796	C/CT	AAGGCCAATGTCACAA CACA	TGGTGCTGGTAAAAAG TCCC	60.0	386	CDS (FRAME SHIFT)	Ca_11751	--	--
Ca7_P2_29736728	Ca7	29736728	ATTT/ATT	ATGCGGCCAACTTGTTA AAG	TGAATCATCGAATCCAA ATCA	58.9	209	INTERGENIC	--	--	--
Ca7_P2_29736819	Ca7	29736819	CATCAAAATATCAAATATCAAATA/CATCA AATATCAAATA	ATGCGGCCAACTTGTTA AAG	TCACAAAGTAACATCCC ACGTT	59.4	425	INTERGENIC	--	--	--
Ca7_P2_29737028	Ca7	29737028	TAAAAAAAAA/TAAAAAAAAA	ATGCGGCCAACTTGTTA AAG	CAAATGCTTTGAAAGTT GTTGTT	58.4	473	INTERGENIC	--	--	--
Ca7_P2_2974132	Ca7	2974132	CTATA/CTA	ATTACCTCCCCTCTCCT CCA	AAACAGTGAACGGAAC CAGG	60.0	465	DRR	Ca_03176	R	--
Ca7_P2_29745369	Ca7	29745369	CTTTTT/CTTTTTT	CGTGGGAGTAAACATT GTGC	TGGCAAAGATACTCTT GTAAACAAAT	59.6	409	INTERGENIC	--	--	--
Ca7_P2_29745710	Ca7	29745710	A/AG	TTTGTTTACAAGATAT CTTTGCCA	TTACACCCACAAGCA ACAA	60.0	632	INTERGENIC	--	--	--
Ca7_P2_29751519	Ca7	29751519	TTAATTGAATAATTGAAT/TTAATTGAAT	GAGTATTTGCGGTTCT TGC	AATTGGCCAGACACAC CTTC	60.0	641	INTRON	Ca_11749	U	--
Ca7_P2_29755622	Ca7	29755622	GAAAAGAGAAAAAGAGAAAAAGA/GAAA AGAGAAAAAGA	TGGATTATTGACCCGAT TGC	TCCAGAAACTTTGGTTT GGG	59.9	760	INTRON	Ca_11749	U	--
Ca7_P2_29761637	Ca7	29761637	A/AC	ATGGTGCAAAACATTG GGAT	GGATCCACTTCTGTGC CACT	60.1	702	DRR	Ca_11749	U	--
Ca7_P2_29762280	Ca7	29762280	TGGGG/TGGG	CCATCTGCCAGTCAATT GTG	TGGTGATTTTCTTGCT CCC	60.1	328	DRR	Ca_11749	U	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29763921	Ca7	29763921	AG/A	GAGAGAAGGCCACAAG CAAC	TGTTCTGCAAGCATT GTC	59.8	661	INTRON	Ca_11748	--	ERF
Ca7_P2_29770911	Ca7	29770911	ACCC/ACCCC	GCAACAGAGCCGTCCT AAAG	GGGGGAGACAGAGAAA CCTC	60.1	732	INTRON	Ca_11747	OE	WRKY
Ca7_P2_29772929	Ca7	29772929	A/AT	GCGTGTGTATCAGACG CAGT	CGGCAATTGAGTATGC CTTT	60.1	357	INTRON	Ca_11747	OE	WRKY
Ca7_P2_29773203	Ca7	29773203	TAAAAAAAAA/TAAAAA	GCGTGTGTATCAGACG CAGT	TTGTGTTTTGGGGTA GGAA	60.2	870	INTRON	Ca_11747	OE	WRKY
Ca7_P2_29773663	Ca7	29773663	CTTTT/CTTT	TTCCTACCCCAAAACA CAA	TAATGGTGGACCTGGA TGCT	60.3	293	INTRON	Ca_11747	OE	WRKY
Ca7_P2_29774929	Ca7	29774929	ATTTTTTT/ATTTTTTT	TGATGGGTCCAAAGATT GTG	TCCCCTCATTATCTTC CAG	60.0	855	INTERGENIC	--	--	--
Ca7_P2_29774994	Ca7	29774994	GTT/GT	TGTCCATTCATTACCC AAAAA	TCCCCTCATTATCTTC CAG	60.0	732	INTERGENIC	--	--	--
Ca7_P2_29775143	Ca7	29775143	C/CGG	CGCACCATCTTCTGTG GAC	TCCCCTCATTATCTTC CAG	60.0	198	INTERGENIC	--	--	--
Ca7_P2_29775231	Ca7	29775231	CTTTTTTT/CTTTTTTT	CGCACCATCTTCTGTG GAC	TCCCCTCATTATCTTC CAG	60.0	198	INTERGENIC	--	--	--
Ca7_P2_29775755	Ca7	29775755	ACCC/ACCCC	CTGGAAGATGAATGAG GGGA	TTGCCACGAAGTGTA CCAA	60.1	536	INTERGENIC	--	--	--
Ca7_P2_29776236	Ca7	29776236	A/AT	TGGTTACACTTCGTGG CAAA	CATGGGCACTACATCG TCAC	60.0	679	INTERGENIC	--	--	--
Ca7_P2_29776294	Ca7	29776294	TAAAAAAA/TAAAAAA	TGGTTACACTTCGTGG CAAA	CATGGGCACTACATCG TCAC	60.0	679	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29815328	Ca7	29815328	AT/ATTT	TTCAGGTGATGTGGAA GCAA	AAAGCTAATGTGCCCC AAAA	59.6	451	INTRON	Ca_11744	--	--
Ca7_P2_29819219	Ca7	29819219	CTTTTTTT/CTTTTTTTTT	AGTCGGGGCATTACAC AGTC	GCTTCGAGGCATTGGT ATGT	60.1	346	INTRON	Ca_11744	--	--
Ca7_P2_29822435	Ca7	29822435	AT/ATT	CCCAAATTAACTTTTG CTCCA	TGGTCGCACCTTTTGT ATTTC	60.0	926	INTERGENIC	--	--	--
Ca7_P2_29833410	Ca7	29833410	AATATATA/AATATATATA	CAGCAAGGCAAAAGT AGGC	TCAATGGTGCATGGTT GAAT	59.8	503	INTERGENIC	--	--	--
Ca7_P2_29833777	Ca7	29833777	GAATAATAATAATA/GAATAATA	ACAACATTCAACCATGC ACC	AGAATCATTGGAAAG GCCA	59.5	189	INTERGENIC	--	--	--
Ca7_P2_29834480	Ca7	29834480	CT/CAAAAACCTCAAT	CCAGATTCATGGGTGA TGTG	CATGCAGCATTGCTAC CCTA	59.9	614	DRR	Ca_11740	J	--
Ca7_P2_29838596	Ca7	29838596	T/TG	CCTAATATACGGGCCAA GCA	AACGACCATCAACAGA AGGG	60.0	721	INTRON	Ca_11740	J	--
Ca7_P2_29839351	Ca7	29839351	CGG/CG	CCCTTCTGTTGATGGTC GTT	TCTCGATTCTTTGAT TCG	60.1	844	INTRON	Ca_11740	J	--
Ca7_P2_29843656	Ca7	29843656	AT/ATCTT	GAGTGTTCGACCTTTT GGC	GTTGGCTTATGTGCAG GGAT	60.0	575	INTRON	Ca_11739	--	--
Ca7_P2_29849990	Ca7	29849990	GCAAAACAAAACAAAACAAA/GC AAAACAAAACAAAACAAAACAAA	GATTCTCAGCTGCATC CTC	GGAGATTTCAGGGCTA AGGG	60.0	826	INTRON	Ca_11739	--	--
Ca7_P2_29852283	Ca7	29852283	TA/TATTATGA	GTCCTGCAATCGGAG AGAG	ATTCCGCATCAAATACA GGG	59.8	606	INTERGENIC	--	--	--
Ca7_P2_29852418	Ca7	29852418	CTGT/CTGTCTGT	GTCCTGCAATCGGAG AGAG	TTGCATACGCCATCGT AAAA	60.1	900	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29852813	Ca7	29852813	TTA/T	AATCCCTGTATTTGATG CGG	TTGCATACGCCATCGT AAAA	60.1	317	INTERGENIC	--	--	--
Ca7_P2_29852863	Ca7	29852863	AAGA/AAGAGA	GGAGGAGCCAGTTCTT TTCC	TCTTCATTTTGGGTTTT GGG	59.8	969	INTERGENIC	--	--	--
Ca7_P2_29856343	Ca7	29856343	TT/TTATAGT	CTTTGGAACATGTTAGT GGCA	TTCACAAACGACCGTT GAAA	60.1	249	DRR	Ca_11738	T	--
Ca7_P2_29860096	Ca7	29860096	TAAAAAA/TAAAAAAA	GTCCGCATCCACCTCTT TTA	TTGTGTTTGTGACCTTC CCA	60.0	568	INTERGENIC	--	--	--
Ca7_P2_29860362	Ca7	29860362	TCC/TC	GTCCGCATCCACCTCTT TTA	TTGTGTTTGTGACCTTC CCA	60.0	568	INTERGENIC	--	--	--
Ca7_P2_29863247	Ca7	29863247	GTTTATTTATTT/GTTTATTT	GCATGCCATTTCAAAG GAAG	CAAGCATGGACACAAA AAGG	59.2	518	INTERGENIC	--	--	--
Ca7_P2_29865664	Ca7	29865664	CATATA/CATA	ATTTTTCATCATGCTTTT GTCA	TGCAGTCTGTTTGGGA TTGC	59.8	629	INTERGENIC	--	--	--
Ca7_P2_29866869	Ca7	29866869	TAAAAAAA/TAAAAA	AGGTGAACTTCCGAAA TGC	AAAATAGGCCTCACC TGCT	60.1	548	DRR	Ca_11737	R	--
Ca7_P2_29867763	Ca7	29867763	ATTTTTTTT/ATTTTTTT	TTTTGATTGCTTCCTAG CCG	TGAGTTTTGCGGCTAG CTTT	60.2	568	DRR	Ca_11737	R	--
Ca7_P2_29867885	Ca7	29867885	AAGA/AAGAGA	AATAGGGATTTTGGCC CAT	TGAGTTTTGCGGCTAG CTTT	60.2	257	DRR	Ca_11737	R	--
Ca7_P2_29868224	Ca7	29868224	ATTTTTTTTTT/ATTTTTTTTTT	AAAGCTAGCCGCAAAA CTCA	GGAGCCACGTAGAAGG ATGT	59.2	552	DRR	Ca_11737	R	--
Ca7_P2_29868870	Ca7	29868870	TAAAAAA/TAAAAAAA	GCTCCGTCCCAGACTT GTAT	CCTCCTCCGATTGAAA TTGA	60.0	631	INTRON	Ca_11737	R	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29890757	Ca7	29890757	TA/TAA	GCCTCACATGTTGTTT TGG	GAAAGCTGGCCATTGA AGAG	60.0	778	DRR	Ca_11735	K	--
Ca7_P2_29904668	Ca7	29904668	A/AT	TCCAATAGGAAGTCGT GGC	TCAGGATGAACCGAA GAAC	60.1	584	INTERGENIC	--	--	--
Ca7_P2_29924240	Ca7	29924240	CTTTT/CTTTTT	AACATGGTGGTGCAA GTGA	TTGGCACGTGTGAACA GAGT	60.4	593	INTERGENIC	--	--	--
Ca7_P2_29925416	Ca7	29925416	TGG/TGGG	GTTGAAGCTGTTTCGA TGA	CCCAAGTGATTGTGCT GCTA	59.9	932	INTRON	Ca_11732	T	Trihelix
Ca7_P2_29936088	Ca7	29936088	GAAAAA/GAAAAAAA	AGCTGCCTGCGAATCT AAAA	GGGATTGAGAGGAGAG GGTC	60.0	431	INTERGENIC	--	--	--
Ca7_P2_29941065	Ca7	29941065	CAAAA/CAA	AGGAAGGTCATGCAA ATGG	TGTTCCGTTGAAAGCT GAAA	59.4	577	INTERGENIC	--	--	--
Ca7_P2_29947755	Ca7	29947755	AG/A	CGTCATCACCTTTATC GGT	GCCAAATACGATCAAC AATCG	60.3	600	INTERGENIC	--	--	--
Ca7_P2_29950051	Ca7	29950051	TAATGT/TAATGTATGTCAATGT	AAGGTTGCAGGCGATA TTTG	CGTATTGAATTACCCC GGTTT	60.0	221	INTERGENIC	--	--	--
Ca7_P2_29951293	Ca7	29951293	TAAAAAAAAA/TAAAAAAAAA	TTCTCGAGTGCCTGTTC CTT	AAAATTTGGTGCAAAAT CGG	59.8	352	INTERGENIC	--	--	--
Ca7_P2_29952503	Ca7	29952503	CAAAAAAAAA/CAAAAAAAAA	GCATGGTCCTTGCAAT CTCT	TGCATGGCTATGGCAT AAAA	60.1	501	INTERGENIC	--	--	--
Ca7_P2_29960477	Ca7	29960477	GTTTTTT/GTTTTTTT	AACACAGGTTGAAGAT GGGG	TTGATTGGGGGTATTT GGA	60.0	436	INTERGENIC	--	--	--
Ca7_P2_29965742	Ca7	29965742	GA/GAGAAAAA	GGCAGTTTCGAAAAGT CAGG	GCAGGGAACAGAAACC GTAG	59.7	464	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_29979336	Ca7	29979336	GTT/GTTT	ATTACGCAACGAGGGA CAAC	TGGAATGTCTCTTCTT TCATTG	59.6	516	INTERGENIC	--	--	--
Ca7_P2_29979856	Ca7	29979856	TTT/TTTTATT	CAATGAAAAGAAGAGA CATTCCA	TTGAGAACCAACAAC TTCCTT	59.2	888	INTERGENIC	--	--	--
Ca7_P2_29980723	Ca7	29980723	CAAAA/CAAAA	CACATTTTGTGTCCAAT CTGTTG	ATCCTGTCCATCAAC GAGC	60.1	756	INTERGENIC	--	--	--
Ca7_P2_29980870	Ca7	29980870	T/TC	CAACGCAATCTTAACA AAAA	ATCCTGTCCATCAAC GAGC	60.1	402	INTERGENIC	--	--	--
Ca7_P2_29982388	Ca7	29982388	ATTT/ATT	TCTCCACCAATTTTTC GAC	GTGCGAATTCAGGTT GATT	60.1	397	DRR	Ca_11729	--	--
Ca7_P2_29983649	Ca7	29983649	TAAAAAAA/TAAAAAA	TCAATGGAGCTCAATCT TCAAA	TTGATTGGGTCGATT TTGT	60.2	619	DRR	Ca_11729	--	--
Ca7_P2_29986212	Ca7	29986212	CAA/CAAAA	AAATGAACGGCACCAA CATT	CCAATTCCAAATGCCAA ATC	60.1	536	INTERGENIC	--	--	--
Ca7_P2_29986240	Ca7	29986240	A/AT	AAATGAACGGCACCAA CATT	CCAATTCCAAATGCCAA ATC	60.1	536	INTERGENIC	--	--	--
Ca7_P2_29989626	Ca7	29989626	TATAATAAT/TATAAT	GTGCTTGAAGACATGC CAAA	GCAGCTCCAATTTTCT TGG	59.8	432	INTERGENIC	--	--	--
Ca7_P2_29989944	Ca7	29989944	TAAAAAAA/TAAAAAAA	TGCATATGCTTGCTGTG TGA	TCGTTGCGACGTTTTTA TTAGA	59.8	592	INTERGENIC	--	--	--
Ca7_P2_29991958	Ca7	29991958	TAAAAAAA/TAAAAAAA	GTTGTCAGTTGTGGGT CGTG	CATGATGGATGTTTCG TTCTG	59.0	597	INTERGENIC	--	--	--
Ca7_P2_29993927	Ca7	29993927	C/CAAA	GATTCTGAGGCCAAAT TTGAT	CATCTCGTTGACCAAC ACATCT	60.0	487	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_29994584	Ca7	29994584	TTATA/TTA	CTCCGCAATTGTATGCA GAA	CGTCGGTGCTGTAATG TGTC	60.2	315	INTERGENIC	--	--	--
Ca7_P2_30002970	Ca7	30002970	ATTTTTTT/ATTTTTTT	CGAAATTACCGGTTTGC CTA	CGTTGTCGGGTTTACA TAGA	59.6	495	INTERGENIC	--	--	--
Ca7_P2_30007344	Ca7	30007344	AAACAAC/AAACAACAAC	CCTTTTCTTGAACATCC CTCC	TTGATCCGTTGACTTTT CCC	59.9	385	INTERGENIC	--	--	--
Ca7_P2_30007406	Ca7	30007406	GAAAAA/GAAAA	CCTTTTCTTGAACATCC CTCC	TTGATCCGTTGACTTTT CCC	59.9	385	INTERGENIC	--	--	--
Ca7_P2_30008223	Ca7	30008223	ATTTTTTT/ATTTTTTTTT	GGCTGCAAAGTTTCTT GCT	TCCCTCATCATAAAAC CCA	60.1	619	INTRON	Ca_11728	--	bHLH
Ca7_P2_30008433	Ca7	30008433	GTTTTTTTTTCTTTTTTTT/GTTTTTTTTT	TGGGTTTTATGATGAG GGGA	ATTTGACCGAACACACA ACC	59.7	385	INTRON	Ca_11728	--	bHLH
Ca7_P2_30009196	Ca7	30009196	A/AC	AATTGTGGTTGTGGTTC GGT	GATGGTGCTGGGGAAT CTAA	59.9	881	INTRON	Ca_11728	--	bHLH
Ca7_P2_30009218	Ca7	30009218	ATTATTTAT/ATTATTTATTTAT	AATTGTGGTTGTGGTTC GGT	GATGGTGCTGGGGAAT CTAA	59.9	881	INTRON	Ca_11728	--	bHLH
Ca7_P2_30009540	Ca7	30009540	T/TTTG	ACGGAGGGAGAAATC AGTG	GATGGTGCTGGGGAAT CTAA	59.9	580	INTRON	Ca_11728	--	bHLH
Ca7_P2_30011389	Ca7	30011389	TC/T	AGAAATTTCTGGGTCT TCG	CCACTGCCAACCTGGT ATTC	60.4	898	DRR	Ca_11728	--	bHLH
Ca7_P2_30012332	Ca7	30012332	GTT/GTTT	GGGGTTGTTAGGAAAA ATCCA	CGTCGTTCTATGATTG GTCG	59.1	482	DRR	Ca_11728	--	bHLH
Ca7_P2_30015362	Ca7	30015362	CTTTTTT/CTTTTTTTTT	CCAAAATTAGAAAAGCT TTGAACG	CCCCAAGCAAAAGAAA CAAA	60.1	562	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30020338	Ca7	30020338	TG/T	AGATCAATGCAGAAGG GTCG	GAGCTTGCAAATGCCA TAAA	58.9	324	INTERGENIC	--	--	--
Ca7_P2_30021477	Ca7	30021477	CTATA/CTATATA	AAGCGAAACTTATTTTC CCGA	TTGGAGTTGAGGGAG TTTG	60.1	343	INTERGENIC	--	--	--
Ca7_P2_30023702	Ca7	30023702	CTATATATA/CTATA	CTGTCTCAAACCTCTTG GGG	CAAGCATTCTCTCCTTT GGC	60.0	509	INTRON	Ca_11727	--	--
Ca7_P2_30024153	Ca7	30024153	A/AT	GCCAAAGGAGAGAATG CTTG	GTGGGGATATAGGGTT GGCT	60.0	823	INTRON	Ca_11727	--	--
Ca7_P2_30026336	Ca7	30026336	AATGATG/AATG	GAGCTGAGGAAGGGTT GATG	TCTTTGCCCACTAACC TGG	60.1	507	INTRON	Ca_11727	--	--
Ca7_P2_30027727	Ca7	30027727	CAAAA/CAAA	TGACACTGGAGAAAA GGGG	TACCAGGACACAAGTG GCAA	60.2	762	DRR	Ca_11726	J	--
Ca7_P2_30028126	Ca7	30028126	C/CCACTAAT	CAAATCTGGCTCCTCCA TGT	ACTTCTCCACCAACAT CGC	60.1	548	DRR	Ca_11727	--	--
Ca7_P2_30028388	Ca7	30028388	T/TCA	CAAATCTGGCTCCTCCA TGT	ACTTCTCCACCAACAT CGC	60.1	548	DRR	Ca_11727	--	--
Ca7_P2_30033073	Ca7	30033073	ATTTTT/ATTTTTT	CACCCAACACATCCACT CAC	TTTTCTTCCGATTATG TCCG	59.1	628	INTERGENIC	--	--	--
Ca7_P2_30034360	Ca7	30034360	ATTTTTTTTT/ATTTTTTTT	AAGGTTCTGTGCAACCT CAAC	TTTTTGACGCAATATTT ATGAGTT	57.1	664	DRR	Ca_11725	--	--
Ca7_P2_30035346	Ca7	30035346	GA/GATA	GCAATTTGCAAGTCACC CTT	TTGCTTGGTTTTGTG TTGA	60.1	488	DRR	Ca_11724	O	--
Ca7_P2_30039331	Ca7	30039331	CAAA/CA	AACAGGTCGGCTTCAT CATC	GGAAGGATATGAGCGT CCAA	60.0	223	INTRON	Ca_11724	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30041435	Ca7	30041435	ACTTTTACTTTT/ACTTTTACTTTCTT TTACTTTTC	CTTGAACTTCATCGCCA ACA	AATCGGACAAGGGACA CAAA	60.4	683	INTERGENIC	--	--	--
Ca7_P2_30041482	Ca7	30041482	ATTTTTTTTTTTTT/ATTTTTTTTTTT	CTTGAACTTCATCGCCA ACA	AATCGGACAAGGGACA CAAA	60.4	683	INTERGENIC	--	--	--
Ca7_P2_30041534	Ca7	30041534	TC/T	CTTGAACTTCATCGCCA ACA	AATCGGACAAGGGACA CAAA	60.4	683	INTERGENIC	--	--	--
Ca7_P2_30041676	Ca7	30041676	CA/C	ATGCGTGAAGAAGAGG GATG	AATCGGACAAGGGACA CAAA	60.4	428	INTERGENIC	--	--	--
Ca7_P2_30041793	Ca7	30041793	AAAAATAAAA/AAAAA	ATGCGTGAAGAAGAGG GATG	TCATTTCACTAACCTTC GCAGA	59.9	688	INTERGENIC	--	--	--
Ca7_P2_30042433	Ca7	30042433	TTTTTA/T	TCTGCGAAGGTTAGTG AAATGA	ACGGATGAAACTGCCG TAAC	60.0	843	INTERGENIC	--	--	--
Ca7_P2_30042793	Ca7	30042793	TTTC/TTTCCTCCGTTC	TCATCACAGTACATGCG GGT	CAAGGTTGAAATGTGA ATTGG	59.4	624	INTERGENIC	--	--	--
Ca7_P2_30044159	Ca7	30044159	GTTTTTTTT/GTTTTTTTTTT	GTTGCGACCGTATTTTG TGA	CATGATGATGGTGAGA TGGG	59.7	511	INTERGENIC	--	--	--
Ca7_P2_30048460	Ca7	30048460	GAAAAAAAAAAAAAAAAA/GAAAAAAAAAA A	TGTGTGTGTGTGTAAT GGCA	AAGAGCGGGGACGTAT TTTT	60.0	585	DRR	Ca_11723	O	GeBP
Ca7_P2_30052687	Ca7	30052687	CT/CTT	AAATGGCTTCATCGAAT TGC	TGGATTATGTCCGTCT CTCTTT	59.1	386	INTERGENIC	--	--	--
Ca7_P2_30052802	Ca7	30052802	AT/A	AAATGGCTTCATCGAAT TGC	TGGATTATGTCCGTCT CTCTTT	59.1	386	INTERGENIC	--	--	--
Ca7_P2_30053126	Ca7	30053126	TAA/TA	AAAGAGAGACGGACA TAATCCA	TCCGATATTTTCTTTT CAGTCC	59.6	550	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30053648	Ca7	30053648	CAAAGT/C	GGAAGTAAAAGAAAAAT ATGCGA	GTGCTCTCTTTTGCCG ATTC	60.0	774	INTERGENIC	--	--	--
Ca7_P2_30059090	Ca7	30059090	GTTTT/GTTT	GTGCAGTCTGTTTTCT GGA	CAAATTGGCAACCTGG TTCT	60.0	481	INTRON	Ca_11722	P	NF-YB
Ca7_P2_30059154	Ca7	30059154	AGG/AGGG	GTGCAGTCTGTTTTCT GGA	CAAATTGGCAACCTGG TTCT	60.0	481	INTRON	Ca_11722	P	NF-YB
Ca7_P2_30059488	Ca7	30059488	CTT/CTTT	ACCAGGTTGCCAATTG TTC	CTTAGCTAACGGGTG CTCG	60.0	160	INTRON	Ca_11722	P	NF-YB
Ca7_P2_30062783	Ca7	30062783	CTTTT/CTTT	AATAACCCGCAATGCTT GAC	TAGTTCACCTCTGGTT GCCC	60.1	433	INTERGENIC	--	--	--
Ca7_P2_30071493	Ca7	30071493	TAAAAAA/TAAAAAAA	TGGCTGTGAACCAAC AAAA	ATATTAGAGCTCGCTC GGGG	60.7	290	INTERGENIC	--	--	--
Ca7_P2_30072638	Ca7	30072638	GATAATTACAAA/GATAATTACAAATAAT TACAAA	TGAGATTGGAACTAAC GGTGA	AAAGGATCAAATCGGA GAAAA	57.8	349	INTERGENIC	--	--	--
Ca7_P2_30073585	Ca7	30073585	TAA/T	TGCTTGAAAATTTTGAT GGATT	GCATTTGTCCAACCTCT GTTTTG	59.7	835	INTERGENIC	--	--	--
Ca7_P2_30073810	Ca7	30073810	CTTTTT/CTTTTTT	CGGACAACGAGTGTTA TTTAGC	GGATGAGAGAGCGATT AGCAA	59.6	761	DRR	Ca_11719	--	NAC
Ca7_P2_30073842	Ca7	30073842	AGTGT/AGTGTGT	CGGACAACGAGTGTTA TTTAGC	GCCAAATGGGTCTGAT TATT	59.8	944	DRR	Ca_11719	--	NAC
Ca7_P2_30076248	Ca7	30076248	T/TA	CTTCACATTCTCTGCGC ACA	GCCTTCTGCTGATGTG GATT	60.2	776	INTRON	Ca_11719	--	NAC
Ca7_P2_30091306	Ca7	30091306	ATTTT/ATTT	ACATTCCACGGTCTAG CTGC	GATGAATTTCCAGGCC TCAC	59.5	888	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30091343	Ca7	30091343	GAAAAAAAA/GAAAAAAAAA	ACATTCCACGGTCTAG CTGC	GATGAATTCAGGCC TCAC	59.5	888	INTERGENIC	--	--	--
Ca7_P2_30092023	Ca7	30092023	T/TC	GAGGCCTGGAAATTC TCAG	AGCAGAGACAAAACC CCCT	60.1	346	INTERGENIC	--	--	--
Ca7_P2_30092143	Ca7	30092143	GTTATT/GTT	AGGGGGTTTTGTTCTCT GCT	TAACGAGATGCGAGTG ATGG	59.8	483	INTERGENIC	--	--	--
Ca7_P2_30098086	Ca7	30098086	AGGG/AGG	TGAGAATGAAGGGGAT ACGC	ACGACCTTCGACGAAA ACAT	59.6	340	INTERGENIC	--	--	--
Ca7_P2_30099390	Ca7	30099390	TA/TAA	TGGGCACATGTCACAA AACT	TGAGGTATGGGAAGGG TGAG	59.9	840	INTERGENIC	--	--	--
Ca7_P2_30100156	Ca7	30100156	ATT/AT	GCAAAACCTATCCTGT CCA	CTCTGTTGCCACTGCA CCTA	60.0	795	INTERGENIC	--	--	--
Ca7_P2_30104011	Ca7	30104011	TAAA/TAA	GCAAAAGCCAAAATC CAA	CCCCCTTTTAAAGAATG AGGTT	59.7	770	DRR	Ca_11717	--	bZIP
Ca7_P2_30106261	Ca7	30106261	ATTTTT/ATTTTTT	CCCTCTCGCCTCTCTT TCT	TCAAGCTGATTGGAG TTTTC	60.4	276	INTERGENIC	--	--	--
Ca7_P2_30107818	Ca7	30107818	TA/TAACCAGTTTATAA	GAAGGCTGCAACTCCT TGAC	AACGTGAAACCCACCA AAAC	59.7	764	INTRON	Ca_11716	T	WRKY
Ca7_P2_30107844	Ca7	30107844	TCCC/TCCCC	GAGCTCGAGATGGTT CTTG	CCACCAGTAAACTCTG CCGT	60.2	680	INTRON	Ca_11716	T	WRKY
Ca7_P2_30111796	Ca7	30111796	CTTTT/CTT	TTTCTCGAGGCTGTT CTA	CGAGACAGCACATTG GAGA	60.0	629	INTRON	Ca_11716	T	WRKY
Ca7_P2_30129775	Ca7	30129775	AATGAT/AATGATGATGAT	CCACGTGAGTTACCAT GCTG	AATGCATTCAATTCGGA ACC	59.8	203	INTRON	Ca_11715	U	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30130628	Ca7	30130628	T/TA	GGTACGGTACGGTGGC TAAA	GTTGATCATTACAGTAA ACTCAATAC	57.6	719	INTRON	Ca_11715	U	--
Ca7_P2_30130938	Ca7	30130938	T/TA	GGTCAATTATTATGGAT CGGAGA	TTGAGTAACCAACTTG GGGG	59.8	854	INTRON	Ca_11715	U	--
Ca7_P2_30131200	Ca7	30131200	TTAT/TTATAT	GCCACCAAATTAAATTG AAATGA	TTGAGTAACCAACTTG GGGG	59.8	293	INTRON	Ca_11715	U	--
Ca7_P2_30131457	Ca7	30131457	TAATCAA/TAA	TGGTGCCACTTTTGAAG ACA	TTGATGTGTAGCCG AAAA	59.3	221	INTRON	Ca_11715	U	--
Ca7_P2_30136697	Ca7	30136697	GAA/GAAAAA	GTTATTGCACAGCTGG GGTT	GTGTCCGAGCTTGAA ATGT	60.1	512	INTRON	Ca_11715	U	--
Ca7_P2_30137991	Ca7	30137991	AAAAGC/AAAAGCTCTTAATTAAAGC	TGGCTATTTTGTGTGG CCA	TTCCCTCTGCCAACAAT TTC	60.1	424	DRR	Ca_11715	U	--
Ca7_P2_30140331	Ca7	30140331	TAAA/TAA	CTTTGGCCAGAAGGGA CATA	TTTATGCTGGTGGGAT GGAT	60.2	522	INTRON	Ca_11714	H	--
Ca7_P2_30146024	Ca7	30146024	G/GA	TGATTTTGAATGCCCTC CTC	TGCAATTGGTTCATATG GGA	59.7	185	INTERGENIC	--	--	--
Ca7_P2_30152098	Ca7	30152098	TAAAAAAAAA/TAAAAAAAAA	TTATGGCGTTGTAGC ACTG	TTTCCACCACTCATAT CCA	58.8	596	DRR	Ca_11713	--	--
Ca7_P2_30154601	Ca7	30154601	ATCTTCTC/ATCTTC	TGGGTTGTTAACATAAT TTTGAATG	CTTAACCCACCAACCA CCAG	60.3	293	INTERGENIC	--	--	--
Ca7_P2_30154729	Ca7	30154729	GTCTCTCT/GTCTCT	TGCTTGATACCAATCTT CAACTTC	CTTAACCCACCAACCA CCAG	60.3	220	INTERGENIC	--	--	--
Ca7_P2_30156325	Ca7	30156325	CAAAAAAAAA/CAAAAAAAAA	TGCCAGTCGATTATGC GTAG	TTCACTTGACGTTAAGC ACCA	59.4	843	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_30157489	Ca7	30157489	ATTTTTTTTTTT/ATTTTTTTTT	TCACATTCTTGTACG CCA	TTTCTTCCCATTCACT CGG	60.0	499	INTERGENIC	--	--	--
Ca7_P2_30157722	Ca7	30157722	CG/C	CCGAGATGAATGGGA GAAA	AACACCTAGGAGGAG AGAAAACA	59.7	354	INTERGENIC	--	--	--
Ca7_P2_30157868	Ca7	30157868	GA/GAA	CCGAGATGAATGGGA GAAA	GCTCCTGTTCAATAGA GTGCAT	58.5	716	INTERGENIC	--	--	--
Ca7_P2_30160324	Ca7	30160324	TG/T	CAAGGCCACGTAGGT TCAT	TTCGTCGATTACGCT TTG	59.8	588	INTRON	Ca_11712	Q	B3
Ca7_P2_30162325	Ca7	30162325	ATAAATTTAAATTTAAATT/ATAAATTT TAAATT	TTTTTACAAAACCTTGA ACCTCCT	TGTTGTCCAGCTCTTG TTGG	59.9	617	INTRON	Ca_11712	Q	B3
Ca7_P2_30166073	Ca7	30166073	CCACA/CCACACA	TGTTATTTTGACCCAC GGT	CTTTTGAAAGGGCAT CAGC	59.8	848	DRR	Ca_11711	Q	B3
Ca7_P2_30166196	Ca7	30166196	CAA/CTTAAA	TGAGCCCATATGTGC AGAA	CTTTTGAAAGGGCAT CAGC	59.8	520	DRR	Ca_11711	Q	B3
Ca7_P2_30166634	Ca7	30166634	CTT/CTTTT	CACCGGCCAATAATAAT GCT	TCTTCGGCCATGGCTA TTTA	60.5	513	DRR	Ca_11710	U	--
Ca7_P2_30171081	Ca7	30171081	GTTTTTTTTTT/GTTTTTTTTT	GAACCCCTCTTTGATCC CAT	GACCTTCTTTCCATGAA AATCG	59.9	538	INTERGENIC	--	--	--
Ca7_P2_30171396	Ca7	30171396	TAAAAA/TAAAAA	TCGATTTTCATGGAAG AAGG	CCATCTCTAAATTCCT CCGA	58.3	446	INTERGENIC	--	--	--
Ca7_P2_30173118	Ca7	30173118	GTTTTTTTT/GTTTTTTTT	TCTCGTGCTCCACATT GTC	TGCAGGAGGTCCAAGT TCAT	60.7	487	INTERGENIC	--	--	--
Ca7_P2_30173268	Ca7	30173268	CAAAAA/CAAAAA	TGAACCTGGACCTCCT GCAT	TCCACTCTTGATGGTT CAGG	60.1	459	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30173426	Ca7	30173426	GA/GAA	TGGTCAATTCACCTGCA AAA	TTCTTGTGAACCAATT CGC	61.0	542	INTERGENIC	--	--	--
Ca7_P2_30173467	Ca7	30173467	ATTTTTTTTT/ATTTTTTTTTT	TGGTCAATTCACCTGCA AAA	TTCTTGTGAACCAATT CGC	61.0	542	INTERGENIC	--	--	--
Ca7_P2_30184920	Ca7	30184920	GAA/GA	TGCACTAAGCATTCAAT CAACA	CCACTCCCCCTTTACC ATT	60.0	582	INTERGENIC	--	--	--
Ca7_P2_30185202	Ca7	30185202	CAAAAAA/CAAAAAAA	GCCATGGCTACTTTTG GATG	CCACTCCCCCTTTACC ATT	60.0	243	INTERGENIC	--	--	--
Ca7_P2_30186574	Ca7	30186574	T/TTGAG	TTGGAGTTTCCAATTGA GTGAA	TTATTGGACTAAACCG CCG	60.0	928	INTERGENIC	--	--	--
Ca7_P2_30190089	Ca7	30190089	CAAA/CAAAA	CGGTTTTAGAGTCAATG TGGTTT	GCAAGCACTAACCCCA AAAA	60.1	310	INTERGENIC	--	--	--
Ca7_P2_30190105	Ca7	30190105	AATA/AA	CGGTTTTAGAGTCAATG TGGTTT	GCAAGCACTAACCCCA AAAA	60.1	310	INTERGENIC	--	--	--
Ca7_P2_30190618	Ca7	30190618	TGA/T	GTCCACATTGCTGGCC TTAT	GACAATGTCCAACCAC GAGA	59.5	424	INTRON	Ca_11709	U	--
Ca7_P2_30192100	Ca7	30192100	A/ATT	CATCGTTGGTTGTTGG TTG	TGCAAAAATGACTCGG ACAA	60.2	279	INTRON	Ca_11709	U	--
Ca7_P2_30192551	Ca7	30192551	TT/TTCAT	CCTTCAGCAATTTGGC AGT	TCCCCATGGTTCAAAG TTGT	60.2	594	INTRON	Ca_11709	U	--
Ca7_P2_30192636	Ca7	30192636	ATAAGCATT/AT	CCTTCAGCAATTTGGC AGT	TCCCCATGGTTCAAAG TTGT	60.2	594	INTRON	Ca_11709	U	--
Ca7_P2_30194598	Ca7	30194598	TC/T	TGATCCAACACCAGCA CATT	GGATGGAGTGGGAGG GTAAT	60.0	888	DRR	Ca_11709	U	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30195185	Ca7	30195185	ACCCC/ACCCC	ACTCAACCCACGCAAA TAG	CCGAACCCGAACTAA ACAA	60.0	692	DRR	Ca_11709	U	--
Ca7_P2_30200863	Ca7	30200863	TTCTCTCTCTCTCTCTC/TTCTCTCTC TCTCTCTC	TACAATTCAGCGGCA CAA	TGCCTCATGAACCAAC AAAA	60.1	372	INTERGENIC	--	--	--
Ca7_P2_30207547	Ca7	30207547	CCTTCTTCTCT/CCTTCTTCTTCTTCT CT	TTTTGCAAGGAAATGG GTTT	TTTCAATCCACATCGTC CAA	59.9	380	CDS (large-effect mutations)	Ca_11706	--	--
Ca7_P2_30208302	Ca7	30208302	CGA/C	TTGGACGATGTGGATT GAAA	CCATCTCAGCATGTGT TTGG	60.1	642	INTRON	Ca_11706	--	--
Ca7_P2_30208770	Ca7	30208770	ATTT/ATT	CCAAACACATGCTGAG ATGG	CTTCCTTTGCACGACC GTAT	60.1	707	INTRON	Ca_11706	--	--
Ca7_P2_30218751	Ca7	30218751	GAA/GAAA	CTTCACACTCACGTGTT GCC	AAATTGACCTGCAAAAT CGG	59.9	173	DRR	Ca_11706	--	--
Ca7_P2_30221695	Ca7	30221695	T/TGAA	CTTGTGTATGCAATGTT GGC	TTTGGCCACACAAAA CAAA	60.0	538	INTERGENIC	--	--	--
Ca7_P2_30225148	Ca7	30225148	GGTGTGTG/GGTGTG	ATGGTGGATCGTATGG CATT	TTTCATAAATAGTGGCC GCA	59.2	420	INTERGENIC	--	--	--
Ca7_P2_30225407	Ca7	30225407	ATTTT/ATTTT	CAGGGTGAGGTGTGTG ATTG	ACAGGCTGACAGCGTA AAGA	58.7	550	INTERGENIC	--	--	--
Ca7_P2_30227105	Ca7	30227105	G/GTGAT	TTTGGGGTCTACTTG CTTG	GTAATTCCAAACGGGG GAAG	60.5	637	INTERGENIC	--	--	--
Ca7_P2_30227383	Ca7	30227383	CTTTTT/CTTTTTT	CCCGTGATTGACCTTA GCG	TGGAAGGTAAAAATGT TGAAGGA	59.9	772	INTERGENIC	--	--	--
Ca7_P2_30228676	Ca7	30228676	TTTAA/TTTAACTTTAA	AGACATGTCGATCAT GGAA	TGCTTTGAACTTTGAA ACG	58.9	408	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30235069	Ca7	30235069	TTTCTTCTTCTTCT/TTTCTTCTCT TCT	TGCGTGTCGAGTTGT AAGG	AACGTGCCAAAACCA CTTC	60.0	606	INTERGENIC	--	--	--
Ca7_P2_30240282	Ca7	30240282	ACGT/ACGTGATCGT	TAAATGCGGCAATGTCA AAA	TCCATTTCGTGAGTAA ACATCA	59.5	219	INTERGENIC	--	--	--
Ca7_P2_30246254	Ca7	30246254	A/ATGTTGT	TACTTTTGGGGCTTGTC ACC	GCTTTCATTGCCAAA CAT	59.9	732	DRR	Ca_11702	--	--
Ca7_P2_30251129	Ca7	30251129	TG/TGCTCGTGG	ATCATTCAATGTCGAC GCA	AAGTCGTTTCAAATCGT GCC	60.1	419	INTERGENIC	--	--	--
Ca7_P2_30261950	Ca7	30261950	AAAAATAA/AAAA	GGAACCATGAGTTAGC CCAA	TGACGTAGTTTTGAAT TGCG	58.9	443	INTERGENIC	--	--	--
Ca7_P2_30263083	Ca7	30263083	GA/G	TTTATTGATGGGATGG GGTG	TGGGATTGGGAATGTG ATT	60.0	705	INTERGENIC	--	--	--
Ca7_P2_30263460	Ca7	30263460	TTCCCAATCCCA/TTCCCAA	TGAACAATGTTGGCCC ATTA	TATGGGCCTTGGTGTT TGTT	60.2	660	INTERGENIC	--	--	--
Ca7_P2_30263911	Ca7	30263911	CAAG/CAAGAAAG	AATCACATTCCCAATCC CAA	CCACAACCTCAAATCCA TCC	60.2	752	INTERGENIC	--	--	--
Ca7_P2_30267277	Ca7	30267277	AATATATATA/AATATATATATA	TGTGCTTCTATGGAT GCTT	TGCCATTGCCCTATTT GAT	60.3	401	INTERGENIC	--	--	--
Ca7_P2_30269288	Ca7	30269288	AAAT/A	ATTTAATTCGGCTTTC GTG	AAAACGGTGGCACAA TAGA	60.4	620	INTERGENIC	--	--	--
Ca7_P2_30275120	Ca7	30275120	TTAT/TTATAT	GGTGCTTCTCTTCTCC CTT	CTCCGAATCATGATGG GTCT	59.9	665	INTERGENIC	--	--	--
Ca7_P2_30276513	Ca7	30276513	AAAT/AAATAAT	TTTCCATCATCAATTCC TTTTG	GAGGTATGGTGCAACC TGCT	60.1	686	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30278067	Ca7	30278067	CTTTT/CTTT	TGCATAATTGCTTAGGA GCTGA	GAAATGCAATAACCA GGG	60.2	587	DRR	Ca_11700	C	--
Ca7_P2_30278535	Ca7	30278535	TCACACA/TCACA	CCCGTGGTTATTGCATT TTC	AGGCATTAACCTGGAA GGCA	59.7	505	DRR	Ca_11700	C	--
Ca7_P2_30278558	Ca7	30278558	ATT/ATTT	CCCGTGGTTATTGCATT TTC	AATACCAGATTGGGC GTTG	59.8	529	DRR	Ca_11700	C	--
Ca7_P2_30279217	Ca7	30279217	T/TCTAGGCC	CAACGCCAAATCTGG TATT	TGCTAATCAGCATTTTC CCC	60.0	517	INTRON	Ca_11700	C	--
Ca7_P2_30280166	Ca7	30280166	GAAA/GAAAA	GATGTCCTCTCCATGC CATT	ATGTGAAGCATAGGCT TGGG	60.1	300	INTERGENIC	--	--	--
Ca7_P2_30282297	Ca7	30282297	ATAATAAAAAATTA/ATAATAAAAAATTAAT AAAAATTA	TGATTTATTTTATTCCAA GTCCCAA	AACATAAACGGAGTGT GGCG	60.2	202	DRR	Ca_11699	--	--
Ca7_P2_30286934	Ca7	30286934	GAAA/GAAAA	GCACCCAGAAATTA AGCA	AGTCAAACATTACCGG TGCC	59.9	199	INTERGENIC	--	--	--
Ca7_P2_30288006	Ca7	30288006	TATATATAA/T	TTAATTTTGCATCCCC TCG	GCTCATTGGTTCGAAG TTCA	58.9	118	INTERGENIC	--	--	--
Ca7_P2_30290868	Ca7	30290868	GTTCAATTCAATTCA/GTTCAATTCAATT CAATTCA	CCCCTCATCAGCTAAA TCA	ACGTTGTGGCATACCA CTTG	59.5	290	INTERGENIC	--	--	--
Ca7_P2_30291926	Ca7	30291926	TAAACTTAAACTTAAA/TAAACTTAAA	TTTTTCATTGCACCTTC GTTACA	GTCAACCAAGAAATCC CCAA	59.8	371	INTERGENIC	--	--	--
Ca7_P2_30292918	Ca7	30292918	CTTTTT/CTTTT	TGACACTCTGTGTCTC TCCT	TGGACCATTACATTCT TCACG	59.9	565	DRR	Ca_11698	QI	bHLH
Ca7_P2_30294894	Ca7	30294894	A/AT	GTCGTGGTCCTACTCC GAAA	AAAGTCGCATCCTCTC AAAAA	59.0	320	INTRON	Ca_11698	QI	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_30295351	Ca7	30295351	TAA/TA	CAAAGTTTTTGAGAGGA TGCG	GTGATAGTTTGGCCGA GAGC	59.8	537	INTRON	Ca_11698	QI	bHLH
Ca7_P2_30298307	Ca7	30298307	GATATATATA/GATATATA	GCTTGGTGCCCAAC AAGT	TGGGACCAAAACAGAA GAGAA	59.7	583	INTRON	Ca_11698	QI	bHLH
Ca7_P2_30298620	Ca7	30298620	CTATATATATA/CTATATATATA	GCTTGGTGCCCAAC AAGT	CTTTCATGCATGCCGA TTTA	59.7	923	INTRON	Ca_11698	QI	bHLH
Ca7_P2_30300121	Ca7	30300121	TT/TTAAT	CGACGGTTTCACATGG AGTA	AATCAACAAGCTCGG CAGT	59.9	705	INTERGENIC	--	--	--
Ca7_P2_30300371	Ca7	30300371	AAT/AATTAT	TTTTTGACCTGGAAC AGT	AATCAACAAGCTCGG CAGT	59.9	112	INTERGENIC	--	--	--
Ca7_P2_30303300	Ca7	30303300	AACACACACACA/AACACACACA	GAACCGATGGTTACAC TCCAA	CGTCATCGGATTGAAG GAAT	59.9	666	INTERGENIC	--	--	--
Ca7_P2_30308260	Ca7	30308260	GAAAAAAAA/GAAAAAAAA	ACCCATGTCGTCATCCA TTT	ATCATGGCTCCTATGG TTGG	59.8	602	INTRON	Ca_11697	QI	B3
Ca7_P2_30309875	Ca7	30309875	GTTACTTACTT/GTTACTT	CAAAAAGACAAGGGAG AAAATGA	TGGGATGGCCTATTAT TGGA	60.1	125	CDS (FRAME SHIFT)	Ca_11697	QI	B3
Ca7_P2_30311673	Ca7	30311673	ATTTTTT/ATTTTTTT	TGGAGATCTCGAATGAT TTGC	AAACATGCAGCTTTGT GGTG	59.8	548	INTERGENIC	--	--	--
Ca7_P2_30311917	Ca7	30311917	TAGTGAG/TAG	TGGAGATCTCGAATGAT TTGC	AAACATGCAGCTTTGT GGTG	59.8	548	INTERGENIC	--	--	--
Ca7_P2_30316637	Ca7	30316637	CTTTTTT/CTTTTTTT	ACGGAGTGGACAAAT AGGG	ACCTGGGCTTTTGATG TTTG	60.0	757	DRR	Ca_11696	QI	B3
Ca7_P2_30317892	Ca7	30317892	T/TTG	CATTGCACGAAATGTG GTC	TTGCCTTTTCAATTTTT CGG	60.0	633	INTRON	Ca_11696	QI	B3

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_30322224	Ca7	30322224	AA/AAGA	CCCATAGTCAGGGGT TTTG	ACACAAAGTCGATGCT CGTG	59.9	856	INTERGENIC	--	--	--
Ca7_P2_30326576	Ca7	30326576	AATATATATATA/AATATATA	GTCCCTGCTTTGGGAG TGTA	AGGACAAGACCAACCT CCCT	60.0	642	INTERGENIC	--	--	--
Ca7_P2_30330383	Ca7	30330383	TTTTA/T	AGCTAGGGGTGTTGGC ACTA	TCATTACGGCACGTCACAT	60.0	646	DRR	Ca_11695	A	bHLH
Ca7_P2_30330813	Ca7	30330813	TAAA/TAAA	ATGTTGACGTGCCGTA ATGA	TGGCATCACATGAAGC ATCT	60.2	615	DRR	Ca_11695	A	bHLH
Ca7_P2_30346474	Ca7	30346474	A/AGTCTTAAG	GCACGACACAATTCTTG CAT	TCGGTTGTGGACAAAT CAAA	59.9	258	INTERGENIC	--	--	--
Ca7_P2_30354410	Ca7	30354410	TT/TTGT	GAAGGAACGCTCTGAT GGGA	GTTTAAGAAGGAGGCC CTGG	60.1	423	INTRON	Ca_11694	A	B3
Ca7_P2_30359172	Ca7	30359172	CT/CTTT	CGGATAAGCACGCTCT TAGG	GAGATTGAAGGTTTT GCCA	60.1	349	DRR	Ca_11693	O	C2H2
Ca7_P2_30360198	Ca7	30360198	ATTT/ATTTT	AACAAAAGCAACGAAG GTCAA	GTTGCATAAGGCAAAG GCAT	60.1	164	DRR	Ca_11693	O	C2H2
Ca7_P2_30365181	Ca7	30365181	CAAAA/CAA	TTTTCTTCTGCGATTG CTT	CGGTACATTGGAACA CAAG	60.0	610	INTRON	Ca_11693	O	C2H2
Ca7_P2_30365537	Ca7	30365537	GAAAAAA/GAAAAAAA	CTTGTTGTTCAATGTGA CCG	GCAATACCAGCTTAGA GGAAGC	59.5	299	INTRON	Ca_11693	O	C2H2
Ca7_P2_30365893	Ca7	30365893	CAAAA/CAAA	GCGAATCGAAATTCAAA ATCA	ACATGCAAGGGCAACA AGAG	61.2	701	INTRON	Ca_11693	O	C2H2
Ca7_P2_30366631	Ca7	30366631	CTCTTCT/CTCTTCTCT	TCACTTTTGGAACAGCC ATTT	AAAAATCCTGTGCGATT CCA	60.4	867	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30392963	Ca7	30392963	TT/TTATTATTATTAT	TGGTAACAAAATGATTATTCGA	AGGTGCGACCAGCTAAAGA	60.0	411	DRR	Ca_11690	--	MYB_related
Ca7_P2_30394183	Ca7	30394183	TTATATATAT/TTATATAT	TGCCCAAAAATTCAAATCC	TGGATTGCATCGAAGATGA	60.2	579	INTRON	Ca_11690	--	MYB_related
Ca7_P2_30394719	Ca7	30394719	TATA/T	TCATCTTCGATGCAAAATCCA	TGTCGTCGGATTAAATGTTTT	59.8	375	INTRON	Ca_11690	--	MYB_related
Ca7_P2_30394911	Ca7	30394911	TAAAAAA/TAAAAAA	TCATCTTCGATGCAAAATCCA	TTTTCTCACCAATCAAGCTGTC	59.4	783	INTRON	Ca_11690	--	MYB_related
Ca7_P2_30395077	Ca7	30395077	AAGAGTTT/AA	AAAGTGCTCGCATCTATGTA	TTTTCTCACCAATCAAGCTGTC	59.4	540	INTRON	Ca_11690	--	MYB_related
Ca7_P2_30395813	Ca7	30395813	CTATATATATAT/CTATATATATATAT	TCGATTCTCTCCCATGAATC	AGGGAACGAAATCTGCTCA	59.8	556	INTRON	Ca_11690	--	MYB_related
Ca7_P2_30405093	Ca7	30405093	C/CA	TCACAAAGCATGTCCCAAAA	GGCAATATCCCATTAAGGT	59.9	549	INTERGENIC	--	--	--
Ca7_P2_30408190	Ca7	30408190	TAATCTA/TAATCTAAATCTA	GCAAGCAATTGAACAAAGCA	GAAACCTGAAGCTCGCAAC	60.0	761	INTERGENIC	--	--	--
Ca7_P2_30412540	Ca7	30412540	ATTTTTTTTTTT/ATTTTTTTTT	AGGAGGCAAAATTGGAGGTTT	CGCGTATTCGTGGAAGATT	60.1	484	INTERGENIC	--	--	--
Ca7_P2_30414991	Ca7	30414991	A/AAGAT	CAATTCAAAAGAAACCCAGA	GGGAGAGAATGACTCCATT	58.0	269	INTERGENIC	--	--	--
Ca7_P2_30415200	Ca7	30415200	C/CG	CAATTCAAAAGAAACCCAGA	GTAAATCGCCTTTTTCACG	59.6	750	INTERGENIC	--	--	--
Ca7_P2_30415401	Ca7	30415401	ATG/A	GGAGTCATTCTCTCCCATGAA	GTCCTCGTCCCTCATGTTGT	60.0	683	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30420041	Ca7	30420041	AATGTATCTA/AA	ATGCAGGGATTAGGCA GTTG	CCGATTCTATCATCGG CAAT	59.9	667	INTERGENIC	--	--	--
Ca7_P2_30426411	Ca7	30426411	ATTTTTTTTT/ATTTTTTTT	TCATCTTCGATGCAAA CCA	GGTTTTACGAAGCATA AGTCGG	60.0	743	INTERGENIC	--	--	--
Ca7_P2_3050532	Ca7	3050532	CGTTAAAGAG/CGTTAAAGAGTTAAAGA G	GCCATTTGCTTTGGAAA CAT	ATGGCAAAGAGGGTAC TCCA	59.6	537	INTERGENIC	--	--	--
Ca7_P2_3053020	Ca7	3053020	ATTTT/ATT	TATCCCCCTCAAACCTG ACG	AACAACAAATTGCATG GGCT	60.4	219	INTERGENIC	--	--	--
Ca7_P2_30661788	Ca7	30661788	GTTTTTTTTT/GTTTTTTT	CACACGACTACGATTCC ACG	GGACAAATGGACTTGA CCCA	60.8	519	INTERGENIC	--	--	--
Ca7_P2_30661963	Ca7	30661963	TC/T	TGTTGTGGTTTCCCTT GGT	TTTTGTGTGCGTTTGAC TGA	58.9	650	INTERGENIC	--	--	--
Ca7_P2_30662891	Ca7	30662891	TAAAAAAA/TAAAAAAA	TTGGGGTAGTAAACCT CAAGAGT	GGTCTGGGTGTCAAAC CTGT	59.9	275	INTERGENIC	--	--	--
Ca7_P2_30668720	Ca7	30668720	ATTTTAATTATAATAATTTTAATTATAA T/ATTTTAATTATAATAATTTTAATTATA ATAATTTTAATTATAAT	TTGACACCAACGGAAC GTAA	CAAGGTAGCATCCCC ACTA	59.9	905	INTERGENIC	--	--	--
Ca7_P2_30674488	Ca7	30674488	AAAG/AAAGGACCAAG	GGCTAAATTACATTGT GGTCCC	CACCAACCATATACACC CCTC	59.0	430	INTERGENIC	--	--	--
Ca7_P2_30678515	Ca7	30678515	AATATATATATATATATA/AATATATAT ATATATATATATATATA	TAGGCTCCCTTGTT GTTG	GATCTTCTTGCCCCCT CTTT	59.7	672	INTERGENIC	--	--	--
Ca7_P2_30692499	Ca7	30692499	A/AT	CAAGTTGATGAAACGTC AGACA	TCACCGGTTTCAAATCA TCA	59.9	347	DRR	Ca_23327	--	ERF
Ca7_P2_30692625	Ca7	30692625	TAAAAA/TAAAAAAA	CAAGTTGATGAAACGTC AGACA	TCACCGGTTTCAAATCA TCA	59.9	347	DRR	Ca_23327	--	ERF

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30693871	Ca7	30693871	ATTTTTTTT/ATTTTTTTT	TGTACACGTTTAGAG GCTTG	ACCTTTTGCTTTTGG CTTT	60.1	580	INTERGENIC	--	--	--
Ca7_P2_30697642	Ca7	30697642	ATTTTTTTT/ATTTTTTTT	AGAGGAAGCAAGGCC TAAT	GATGGTTGAGGGTCCA CAATA	59.7	394	INTERGENIC	--	--	--
Ca7_P2_30702189	Ca7	30702189	TA/TCTAA	CCTTCAAATTGGTGTGG TCA	CACCAAAGGCTATGAA CCGT	60.0	600	DRR	Ca_23326	--	--
Ca7_P2_30702305	Ca7	30702305	GAAAAAAAAA/GAAAAAAAAA	CCTTCAAATTGGTGTGG TCA	CACCAAAGGCTATGAA CCGT	60.0	600	DRR	Ca_23326	--	--
Ca7_P2_30703159	Ca7	30703159	TA/T	CATTGCCCAACCCAATA ATC	TGCTAGTCGGATTTTC CACA	59.3	435	DRR	Ca_23326	--	--
Ca7_P2_30703483	Ca7	30703483	TG/T	CATTGCCCAACCCAATA ATC	ATGGCTCTCCCAACAC TGAG	60.3	874	DRR	Ca_23326	--	--
Ca7_P2_30705173	Ca7	30705173	AATA/AA	GCCCCCACTTTTACAC TCA	GCCTTGACGCTTATTCT TCG	60.1	702	INTRON	Ca_23326	--	--
Ca7_P2_30708679	Ca7	30708679	ATT/ATTTT	TGGATGCATAATTCCCT TCA	ACCATGGCTTACGAA ATTG	59.8	689	INTERGENIC	--	--	--
Ca7_P2_30709199	Ca7	30709199	T/TA	GCTGCAATTCGTAAGC CAT	TTTGGAGGCTCAATTT GCT	59.8	724	INTERGENIC	--	--	--
Ca7_P2_30710178	Ca7	30710178	TTAT/TTATAT	TGTGGCCATAATCAAG CAA	TAATTCAATACCGCGCA CAA	60.1	466	INTERGENIC	--	--	--
Ca7_P2_30710485	Ca7	30710485	T/TG	GTGGCTCAATTTAGG CAAA	GCACTCTCATTGGCT GCTT	60.5	515	INTERGENIC	--	--	--
Ca7_P2_30723330	Ca7	30723330	TT/TTTTTCATGT	TCACGTGGAAACCTAC GACA	AAAGACATGGAAATCG GTGC	59.9	202	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30737201	Ca7	30737201	TATATATATA/T	TCCGCTTTTATTTGTG GTCA	AATCTGAACAAGGGCC AATTA	58.6	717	INTERGENIC	--	--	--
Ca7_P2_30744719	Ca7	30744719	GAAAATTAAAAAA/GAAAATTAAAAAA ATTAAAAAA	ACTCCATGAATCACGAA GGC	CCCACACTCATATCCC ACTC	59.3	668	INTERGENIC	--	--	--
Ca7_P2_30746519	Ca7	30746519	CATATATATATATA/CATATATATATA	TTGCCTCCACGTTCAAT TATC	TTGTGTTGCAGCTTTGT TGA	59.0	214	INTERGENIC	--	--	--
Ca7_P2_30746774	Ca7	30746774	TAAAAA/TAAAAA	GTTTTCACCCAATCAA ACA	ATCGTGTTCGTAGGGG AGTT	58.5	588	INTERGENIC	--	--	--
Ca7_P2_30747164	Ca7	30747164	TAAAAAA/TAAAAAA	AACTCCCCTACGAACAC GAT	GAATATGTGCATTGTTG GCG	60.0	581	INTERGENIC	--	--	--
Ca7_P2_30750014	Ca7	30750014	AGGGGGG/AGGGGGG	GTTCAGATTTAGCAAA TCCC	CACGAGGGCCAAGATT ATGT	60.0	260	INTERGENIC	--	--	--
Ca7_P2_30750243	Ca7	30750243	TG/TGCTTCAG	TAGCTGCTTCCCACACA CAC	GAAATTGGGATCTTGG GGTT	60.0	452	INTERGENIC	--	--	--
Ca7_P2_30751521	Ca7	30751521	T/TTTAAA	AAATTGCGATCGCTGAA TAAA	GTGTCATTCCCCTGCA CTTT	60.0	610	INTERGENIC	--	--	--
Ca7_P2_30751960	Ca7	30751960	GTTTTTTTTTTT/GTTTTTTTTTTTTT	AAAGTGCAGGGGAATG ACAC	AACAATCGATGTGCTT GCAT	59.2	513	INTERGENIC	--	--	--
Ca7_P2_30753046	Ca7	30753046	GAAATAAAATTAAAATA/GAAATAAAATT AAAAATAAAATTAAAATA	ATAACAATGGCACCAAA GCC	AACATTGGCACAACC ATCT	60.2	747	INTERGENIC	--	--	--
Ca7_P2_30760339	Ca7	30760339	AA/AACA	TCAGCCAGAATTCCATT TCC	CGCGTATGAGTTGTTG TCGT	59.8	399	INTERGENIC	--	--	--
Ca7_P2_30763146	Ca7	30763146	C/CAG	CTTAGCCAGAGATTGA GCCG	CCATTGCCAAAGGACA GATT	59.9	237	INTRON	Ca_23324	--	HD-ZIP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30765788	Ca7	30765788	TTTAGTTT/TTTT	TATCATGCCGAGGTGT TGA	CCACGCCACCAATTC TACT	60.0	683	INTRON	Ca_23324	--	HD-ZIP
Ca7_P2_30766108	Ca7	30766108	GT/GTCT	TTGCTCAAGTGCCCTC CTT	CCCTGCCTGATTGAG AAAG	59.8	786	INTRON	Ca_23324	--	HD-ZIP
Ca7_P2_30769724	Ca7	30769724	CTTTT/CTTTTT	GGTAAGTGACCCATCC GAAA	TCGAACAATTGCTGA CACA	58.8	492	INTERGENIC	--	--	--
Ca7_P2_30769983	Ca7	30769983	TAAA/TAAAA	AAGAAAGACGAGGCAA CCAA	TATGTCGGCCCAACT TTTC	59.9	775	INTERGENIC	--	--	--
Ca7_P2_30770470	Ca7	30770470	GAA/GAAA	GAAAAAGTTGGCCGA CATA	CCATGGCTGATAATGG TGTG	59.8	488	INTERGENIC	--	--	--
Ca7_P2_30770563	Ca7	30770563	TTAGCTAG/TTAG	GAAAAAGTTGGCCGA CATA	CCATGGCTGATAATGG TGTG	59.8	488	INTERGENIC	--	--	--
Ca7_P2_30770929	Ca7	30770929	C/CAA	CATGCATGTCGATGAA CCAT	GTTGAAGATGGTGGTC GGAT	59.8	552	INTERGENIC	--	--	--
Ca7_P2_30777346	Ca7	30777346	CAA/CA	GCAATGCATGTGATTCA AGG	GGAGCAATGCTGGGAA CTTA	60.2	199	INTERGENIC	--	--	--
Ca7_P2_30778209	Ca7	30778209	CTATAAATAGAAT/CTATAAATAGAATTA TAAATAGAAT	CAACATCAATTCACATC TCTTCG	CAACCAAGTCTTACGAT GCAAA	60.2	178	INTERGENIC	--	--	--
Ca7_P2_30779535	Ca7	30779535	TAAAAAA/TAAAAAA	TCCCTCCAATTGTATC TCCC	ACATGCCATTACCTCA TCA	59.9	431	INTERGENIC	--	--	--
Ca7_P2_30789572	Ca7	30789572	GAAAAAA/GAAAAAA	TGCCATAGATCGTGTG GAAG	AACATGCAAATTGCGT CAAC	59.6	569	INTERGENIC	--	--	--
Ca7_P2_30795636	Ca7	30795636	A/AAAC	AAAGCTGAGAAGCAAT CCAAA	CATGGCGTCTCACCTA CCTT	60.1	354	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30795939	Ca7	30795939	CTAATTAATT/CTAATT	TAGGTGAGACGCCATG ACTG	TGAGCGAATATGCTTT CGTTG	60.3	517	INTERGENIC	--	--	--
Ca7_P2_30795994	Ca7	30795994	ATTTTT/ATTTTTTT	TAGGTGAGACGCCATG ACTG	TGAGCGAATATGCTTT CGTTG	60.3	517	INTERGENIC	--	--	--
Ca7_P2_30797568	Ca7	30797568	TAGAATGATTGTGTGCGAGAATG/TAGA ATG	TCGTTGAGGCACAATAA CCA	GGTTGAAGATTCGCTT TGGA	60.2	749	INTERGENIC	--	--	--
Ca7_P2_30800238	Ca7	30800238	AAAAGAAA/AAAA	CTCGAGCTGAAACACG TGAC	AGAAGCGTTTTGTCGC TGAT	60.0	383	INTERGENIC	--	--	--
Ca7_P2_30805803	Ca7	30805803	AAGAAATAGAAATAGAAATAGAAA/AAG AAATAGAAATAGAAA	CCTCGCTTTGCTACTCT GGT	CTGCGGCAGACTGTAA ACAA	60.1	771	INTRON	Ca_23321	O	--
Ca7_P2_30806501	Ca7	30806501	TG/T	GCTCGTCATGGGGAGT AAAA	GAAATACCCGCCAGT GTTA	59.8	673	INTRON	Ca_23321	O	--
Ca7_P2_30807281	Ca7	30807281	CAA/CAAA	TAACACTGGCGGGGTA TTTC	CTCGTCAAGACGGACA TGAA	59.8	720	INTRON	Ca_23321	O	--
Ca7_P2_30807395	Ca7	30807395	T/TA	TAACACTGGCGGGGTA TTTC	CTCGTCAAGACGGACA TGAA	59.8	720	INTRON	Ca_23321	O	--
Ca7_P2_30810096	Ca7	30810096	TTGCTGCT/TTGCT	GTTGAAGGGCGCATGT TACT	CCACGATTCAAATTTG GGAG	60.3	786	INTRON	Ca_23321	O	--
Ca7_P2_30812471	Ca7	30812471	C/CAG	GACGATCTGTTGCTTGA CGA	CGAAGGAGATGGTGAT GGTT	59.9	502	INTRON	Ca_23321	O	--
Ca7_P2_30822742	Ca7	30822742	TA/T	CGACTTTGCCCTTTGGA TAA	TGTTCAATCTCCACCCC CTA	60.3	230	INTRON	Ca_23321	O	--
Ca7_P2_30824955	Ca7	30824955	TTTGGGT/TT	CCAAATTTAAGCGCCA AAC	TGACTCGGATTCTTTTC CAGA	59.8	577	INTRON	Ca_23321	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30825226	Ca7	30825226	TTAT/TT	TTCTCCAATTGTCATCT TGTGG	TGACTCGGATTCTTTTC CAGA	59.8	370	INTRON	Ca_23321	O	--
Ca7_P2_30827837	Ca7	30827837	TACACACA/TACACACACA	AAATCACAACCTTCATCG TTACTTCA	AAAGGTGGCTCTTGCT TTGA	60.0	556	INTRON	Ca_23321	O	--
Ca7_P2_30828271	Ca7	30828271	AAGAT/A	GGGTGATTTACACCA CAGG	AAAGGTGGCTCTTGCT TTGA	60.0	150	INTRON	Ca_23321	O	--
Ca7_P2_30834433	Ca7	30834433	TAAAAAAAA/TAAAAAAAAA	CCTCTTAATTTGATTC GGTCA	TGGTTGACCTTTACTGA TTTTGC	60.4	704	INTRON	Ca_23321	O	--
Ca7_P2_30834850	Ca7	30834850	AAAAA/AA	GCAAAATCAGTAAAGGT CAACCA	GGAGGTCGAACCTCGAG AATG	59.8	659	INTRON	Ca_23321	O	--
Ca7_P2_30840351	Ca7	30840351	TAAAAAAAA/TAAAAAAAAA	TTCAGACGCTAACAATT ATATGCAA	CAAATTTGGGTCACCA ATCA	59.2	554	DRR	Ca_23320	--	--
Ca7_P2_30840900	Ca7	30840900	TA/T	AAAATTTCCACGCCTAC ACG	TTTGCATCGCATGGGT ATAA	59.9	578	DRR	Ca_23320	--	--
Ca7_P2_30840969	Ca7	30840969	GTTTTTTTTT/GTTTTTTTTT	AAAATTTCCACGCCTAC ACG	TTTGCATCGCATGGGT ATAA	59.9	578	DRR	Ca_23320	--	--
Ca7_P2_30841941	Ca7	30841941	AA/AAATTTTA	TGGGCCTTAGAATGAC CATAA	TCGTCACTTTCATTGG TTGA	59.2	401	INTERGENIC	--	--	--
Ca7_P2_30841959	Ca7	30841959	ATTTTT/ATTTTT	TGGGCCTTAGAATGAC CATAA	TCGTCACTTTCATTGG TTGA	59.2	401	INTERGENIC	--	--	--
Ca7_P2_30848270	Ca7	30848270	ATTTTT/ATTTTTTT	TTAGACACAGCTTCCTC CCC	GGAAGGGGAGTTTTC AACCA	60.2	866	INTERGENIC	--	--	--
Ca7_P2_30858070	Ca7	30858070	GTTTTTTT/GTTTTTTTTT	CCCAATTTCCATTCTG GTC	TTTTCAATTTGCACC CAA	59.0	591	DRR	Ca_23319	T	HB-other

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_30858655	Ca7	30858655	TCATAACATA/T	TTGGGTGCAAAATTGAA AAA	CGTTGTTCCAACATACA GGTTA	57.6	860	DRR	Ca_23319	T	HB-other
Ca7_P2_30868089	Ca7	30868089	CTTTTTTT/CTTTTTTTATAGTTTTT TTTT	GGTTGCTCGAAACCTG TGTT	AGTGTAACCATGTGCAC CCCT	60.3	444	INTERGENIC	--	--	--
Ca7_P2_30869621	Ca7	30869621	CA/CAA	CAAACCGATGTGTCATT CCA	CCAATTCTCACCGGAT TTGT	59.8	492	INTERGENIC	--	--	--
Ca7_P2_30870269	Ca7	30870269	GTTGAATACACTTGAATACACTTGAATA CACTTGAA/GTTGAATACACTTGAATAC ACTTGAA	TTAAGATTTGGTTGGGC TGC	GAACCAGACCCAGCAG TTGT	60.2	307	INTERGENIC	--	--	--
Ca7_P2_30871383	Ca7	30871383	TAAAAAAAAAAAAAAAA/TAAAAAAAAAA AA	AGGGCGTTTGTGTATG TTTC	CAGATGTTCTCGGCA TCAG	59.4	542	INTERGENIC	--	--	--
Ca7_P2_30874290	Ca7	30874290	TAA/TAAA	TTGTCTCACAATCTCC CCC	ACCACCTCACTGCCCT ACAC	60.0	734	DRR	Ca_23317	--	--
Ca7_P2_30896789	Ca7	30896789	GGTGT/GGT	CCCAAATCAGAAACGAC CAT	GTGAGTGTGAGGGTCA GGGT	60.0	765	DRR	Ca_23316	AJ	--
Ca7_P2_30911371	Ca7	30911371	ATTTTTTTTT/ATTTTTTTT	TTTGAACTCCACCTTG TTCG	ATCTTCCCTCCCTCCAA GAA	60.0	495	INTERGENIC	--	--	--
Ca7_P2_30911496	Ca7	30911496	AGTATTATCCTG/A	GACAATGCATTCTCC ACG	ATCTTCCCTCCCTCCAA GAA	60.0	257	INTERGENIC	--	--	--
Ca7_P2_30913633	Ca7	30913633	TGGG/TGG	TCTATTGCTTTCACCCA CGA	TGGAATCTAGGAGACG ACGG	60.2	948	INTERGENIC	--	--	--
Ca7_P2_30930614	Ca7	30930614	TCC/TC	CCACTCAAGGCCAGTG ATTT	ATGAGCAGCACCAACA TCAA	60.3	222	DRR	Ca_23314	--	--
Ca7_P2_30946498	Ca7	30946498	CTTTTTTTTT/CTTTTTTTTT	TGTACCTGCTTTGGTTT TTGG	TACACATGCAATTTGC GTCA	59.7	559	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_3094976	Ca7	3094976	CA/C	TGCAAATTGAGAAGCG TTTG	AGAAAGGGTGGTGAGT GGAA	59.5	940	INTRON	Ca_03163	Z	NAC
Ca7_P2_30958809	Ca7	30958809	G/GC	TCACAGATCTGGGCCA TACA	AGCTCGATGGCTGCA GTTT	60.0	122	INTERGENIC	--	--	--
Ca7_P2_30961854	Ca7	30961854	GTGTTGTTGTTGTTGT/GTGTTGT GTTGTTGTTGTTGTTGT	CCTCCTTCTCGTGT TGC	GGGACTAGGGAGCGA CAAGT	60.6	479	DRR	Ca_23313	--	WRKY
Ca7_P2_30962618	Ca7	30962618	ATTTTT/ATTTTT	ATTGGCACGCAATTGT GTA	ATGTTCCCGACCATAC TTGG	59.7	771	DRR	Ca_23313	--	WRKY
Ca7_P2_30967683	Ca7	30967683	ATTTT/ATTTTT	CCCCATGATCTCCCTT TTT	GCAACAACTATGGC AGGT	60.0	355	DRR	Ca_23312	--	--
Ca7_P2_30981750	Ca7	30981750	TG/TGG	GGTAAGGGCTCCTCC AAAC	GGGTCTGCACGATTTA CAAAA	60.0	967	INTERGENIC	--	--	--
Ca7_P2_30990597	Ca7	30990597	AA/AAAATATATATA	TGCGACAAGAAATGTC GAAG	GCACGATCCATTAAGC CATT	59.9	350	INTERGENIC	--	--	--
Ca7_P2_30992546	Ca7	30992546	AATAT/AAT	CCTGTGATTGACCATG TAGGA	GGGTGTTACGATTCTA CCCC	58.2	471	INTERGENIC	--	--	--
Ca7_P2_31087270	Ca7	31087270	TAAAAAA/TAAAAAAA	ACAGGGAGCTCCATT CCTT	TGCAATGCAATGTCCA TTTT	59.9	190	INTERGENIC	--	--	--
Ca7_P2_31087789	Ca7	31087789	GAAAAAAAA/GAAAAAAAAA	ATTGACACAATCTGGG GGA	TCAAAGCACATCGTGA AAGC	60.0	400	INTERGENIC	--	--	--
Ca7_P2_31112471	Ca7	31112471	TGG/TG	GCAAAGGCACTCATTC CATT	GCAAAAACACGAGAAG GAGG	59.9	493	INTERGENIC	--	--	--
Ca7_P2_31120099	Ca7	31120099	TC/T	CCCTTAGGAGTTATTCG CCC	AGGCATGTTGTCATTT GTGTT	59.4	616	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_31133335	Ca7	31133335	GTTTT/GTTTTT	TTCTCAATCATTACTCC GACCA	TCACCGATCACTTACG TTGC	59.7	562	INTERGENIC	--	--	--
Ca7_P2_31139527	Ca7	31139527	GTTTTGTTTT/GTTTTGTTTTTGT TTT	GTTGCAATGGGGCTTA GGTA	TTGGTCGTTTGAGCCT TTCT	59.9	446	INTERGENIC	--	--	--
Ca7_P2_31146131	Ca7	31146131	TAAAAAAA/TAAAAAAA	CATGTTGATCAAGGTT GTGG	CCATTGTGGTCATTG CAGT	59.4	793	INTERGENIC	--	--	--
Ca7_P2_31146442	Ca7	31146442	TTATATATAT/TTATAT	TAGGGATTGAGCTGGC TCTG	TAGAAGACCTTGACCG TGCC	60.3	765	INTERGENIC	--	--	--
Ca7_P2_31150996	Ca7	31150996	GA/G	TGGTTATTCCGTTCTTC TTCG	CCAAATATGATGTCGG GACC	60.0	454	INTERGENIC	--	--	--
Ca7_P2_31152594	Ca7	31152594	CA/CAAA	TGAACACTTAGACCGT GTTTGG	CAGCGTAATGCCGACC TATT	60.1	540	INTERGENIC	--	--	--
Ca7_P2_3115319	Ca7	3115319	C/CT	TCAACCAAGAGTTTGG CCTC	TGTTTGCAATTGGCAT GAAT	59.9	723	INTRON	Ca_03160	I	--
Ca7_P2_31154823	Ca7	31154823	GATATATATATATATATATATAT/GAT ATATATATATATATATAT	CTGCGATAATGACGAT GACG	TGTAACCTCTTGACTTT GTCCTTTTG	60.1	627	INTERGENIC	--	--	--
Ca7_P2_31154886	Ca7	31154886	ATTTTTTT/ATTTTTTTT	CTGCGATAATGACGAT GACG	TGTAACCTCTTGACTTT GTCCTTTTG	60.1	627	INTERGENIC	--	--	--
Ca7_P2_31154913	Ca7	31154913	CTTTTTTT/CTTTTTTT	CTGCGATAATGACGAT GACG	TGTAACCTCTTGACTTT GTCCTTTTG	60.1	627	INTERGENIC	--	--	--
Ca7_P2_31155467	Ca7	31155467	T/TA	AACCTTGCAATTGTGTA AGGAGA	CTGTTGCTTGTGTTGA ATGC	57.9	524	INTERGENIC	--	--	--
Ca7_P2_31157699	Ca7	31157699	CAA/CA	ATTCAGACCGCGTCAAA TCT	GGCAAAGCTCTGTCTAC CAAC	60.0	870	INTRON	Ca_10142	Q	E2F/DP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_31167770	Ca7	31167770	TATAGA/TA	TCGAGATGTCATCGCA AATAA	TTTGTCTCCCTCACT CCG	60.2	316	DRR	Ca_10142	Q	E2F/DP
Ca7_P2_31169770	Ca7	31169770	CTTT/CT	CAAATTTTCATGGTCAGC CAA	TCAATGCCCAGATGAA CAAA	60.0	723	INTERGENIC	--	--	--
Ca7_P2_31175781	Ca7	31175781	ATT/ATTT	TTGCACCATAAAAGTGC AGC	CTCACCCACCATAGC ATTT	59.8	592	DRR	Ca_10141	C	--
Ca7_P2_31177110	Ca7	31177110	TA/T	TGTCGATCGTCATCAA AGT	ATATTTGCAGGGGAAC CAAA	59.3	414	INTERGENIC	--	--	--
Ca7_P2_31181804	Ca7	31181804	T/TCAAAAA	TCACACACAAAATTGAA GATGGA	CCATTGCTTGCATTGAT TTG	60.1	600	INTERGENIC	--	--	--
Ca7_P2_31183517	Ca7	31183517	AATTTTTTATTTTTTATT/AATTTTTT ATT	TTACGCGCTTATCTCAA GCA	CTTTTGGCTCCTATGC TGC	60.0	561	INTRON	Ca_10140	T	--
Ca7_P2_31183978	Ca7	31183978	ATTTTTTT/ATTTTTTTT	GCAGCATAGGAGCCAA AAAG	TTTCGGCATTTTACCAA ACA	59.1	533	INTRON	Ca_10140	T	--
Ca7_P2_31184251	Ca7	31184251	G/GC	TGTTTGGTAAAATGCCG AAA	ATTGGATCGAATCCGA GTGT	59.4	371	INTRON	Ca_10140	T	--
Ca7_P2_31188755	Ca7	31188755	TAAAAA/TAAAA	TTAACCAATGACACTGG AAGG	CCCTCAATCATCTTCA AATCA	59.0	848	INTERGENIC	--	--	--
Ca7_P2_31188947	Ca7	31188947	ATTTT/ATTTT	TTGCACGTTGAATTAA AACTCTT	TCACGCTTTCTTTCGT CCT	60.0	501	INTERGENIC	--	--	--
Ca7_P2_31189819	Ca7	31189819	TCATCAACATCA/TCATCAACATCAACAT CA	AGAGGGAATAATTGGG GTGG	TAATTCGAAGTGGTG GAGG	59.9	152	CDS (large-effect mutations)	Ca_10139	K	NAC
Ca7_P2_31191740	Ca7	31191740	GAA/GA	AGTGATCTGTTTTGGG GGTG	GTTTGGTCGATTCCAT GCTT	59.9	680	INTRON	Ca_10139	K	NAC

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_31192458	Ca7	31192458	GT/GTATAT	ATGCCATTCTTGCCTGA TTT	CGAACAGATTGCCCCA ACTT	60.1	323	INTRON	Ca_10139	K	NAC
Ca7_P2_31195513	Ca7	31195513	CTTTTTTTTTTT/CTTTTTTTTT	GGACCAGGTCTATACG GCAA	TTTTGAATCTCAATTCT CGCAA	59.8	275	DRR	Ca_10139	K	NAC
Ca7_P2_31195909	Ca7	31195909	ATA/ATACGTA	CAACCAAGATTTTGATG AGTCG	TTGTTACAGGTGGTAA TTTTT	57.1	287	DRR	Ca_10139	K	NAC
Ca7_P2_31196149	Ca7	31196149	ATTTT/ATTT	CAACCAAGATTTTGATG AGTCG	CACGAGGGTAGTTTGT TCTTTC	57.9	622	DRR	Ca_10138	--	--
Ca7_P2_31196916	Ca7	31196916	ATTT/ATT	CGACCCCTTAGGTTTG TTTT	TGTTCTTAACCTAGCTG GCGA	60.0	168	DRR	Ca_10138	--	--
Ca7_P2_31197079	Ca7	31197079	GTTTT/GTTT	TCGCCAGCTAGGTAA GAACA	TGTCACAAGTTTAAACG AAGGG	59.2	214	DRR	Ca_10138	--	--
Ca7_P2_31199747	Ca7	31199747	TGG/TG	TCAAGCGATTTACGAC AAG	TGGTCGTGTTGCGTTT AAGA	60.3	406	DRR	Ca_10137	--	bHLH
Ca7_P2_31200183	Ca7	31200183	TC/TCC	TCTTAAACGCAACACGA CCA	CCATTGCGGTAATTATT GGAT	58.7	576	DRR	Ca_10137	--	bHLH
Ca7_P2_31201476	Ca7	31201476	AC/A	TGTTTCATGTCGGGTC GTAA	CTCACGTATTCCATG AGCA	59.8	595	INTRON	Ca_10137	--	bHLH
Ca7_P2_31202147	Ca7	31202147	TA/TAA	CATGCTCATGGAATCA GGTG	ATTTGGCGTTGTCCTT TTG	60.0	370	INTRON	Ca_10137	--	bHLH
Ca7_P2_31204267	Ca7	31204267	TAAATTAAACAAAT/TAAAT	TCCTAAGCCACCAATGA TCC	CTGGTGATCCTTTTCT CCA	60.0	267	INTRON	Ca_10137	--	bHLH
Ca7_P2_31205728	Ca7	31205728	AGAAGCAACTGAAGCAACT/AGAAGCAA CT	ACCTGGCAACACATCAA ACA	TCCAAGTGGTTCCATT GACA	59.9	283	CDS (large-effect mutations)	Ca_10137	--	bHLH

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_31205971	Ca7	31205971	CAAAAAAAAAAAAA/CAAAAAAAAAA	ACCTGGCAACACATCAA ACA	TGCAAGTCGCTTTCTC CTTT	60.1	785	INTERGENIC	--	--	--
Ca7_P2_31206515	Ca7	31206515	TAAAA/TAAAA	TGGAGTGATGAAATG GGGT	AAGCCCCAATGGAGAA AAGT	59.9	741	INTERGENIC	--	--	--
Ca7_P2_31210392	Ca7	31210392	CTAATT/CTAATTATTTTAATT	TAAACGAACACGCAC CAA	TGGATATGGGCTGAGA AAGG	60.0	602	DRR	Ca_10136	--	ARF
Ca7_P2_31210939	Ca7	31210939	CTC/CTCAATC	CCTTTCTCAGCCCATAT CCA	TCAACAATGCAAACGAA GGA	60.2	306	DRR	Ca_10136	--	ARF
Ca7_P2_31213191	Ca7	31213191	AATATATATATATATA/AATATATATATA	CGGTTGGCGACTTAGA AGAG	ATTGTGGTGCATGCAA ACTT	59.1	423	INTRON	Ca_10136	--	ARF
Ca7_P2_31213637	Ca7	31213637	TAAAAAA/TAAAAA	GTTTGCATGCACCACAA TTC	AAAGAAGCCACGAAAA GGGT	60.1	356	INTRON	Ca_10136	--	ARF
Ca7_P2_31214090	Ca7	31214090	TA/T	ACCCTTTTCGTGGCTTC TTT	TTCAACAACCTGCGTG CATT	60.3	360	INTERGENIC	--	--	--
Ca7_P2_31215378	Ca7	31215378	GAAAAAAAA/GAAAAAAAAA	GTTGTGCCGCTTAAGTT GGT	ATGGGACCACTTGGTG GTAA	60.1	854	DRR	Ca_10135	G	--
Ca7_P2_31215551	Ca7	31215551	AT/ATT	GCACTGGATTGGAAT TGG	ATGGGACCACTTGGTG GTAA	60.1	496	DRR	Ca_10135	G	--
Ca7_P2_31216552	Ca7	31216552	AG/AGG	GCCGCTACTGACCGTA TCTT	AACACGTGACATGTCT GCCA	60.2	464	INTRON	Ca_10135	G	--
Ca7_P2_31217521	Ca7	31217521	GATACAT/GATACATCATACAT	GACCAAGTCAAAGGGA TGTT	CCCTGGTGAACAGGTG TCTT	60.0	460	INTRON	Ca_10135	G	--
Ca7_P2_31221334	Ca7	31221334	TCACAC/TCACACAC	CAATAAATTGTCCGCAC ACG	CCGGCTTCAACAATTA CCAT	59.8	715	DRR	Ca_10134	A	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_31228820	Ca7	31228820	ATTTT/ATTT	CATTGTAATACCCCAAT AACTCAGG	GCACGTACATCCGTTT TCCT	60.0	592	INTERGENIC	--	--	--
Ca7_P2_31230604	Ca7	31230604	GAAAAAAAAAAAAA/GAAAAAAAAA	TGGGATGAGTGTGCAT TTTC	TCAAAATTTAGCGCCTA CACAA	59.8	647	INTERGENIC	--	--	--
Ca7_P2_31231997	Ca7	31231997	CATATATATATATATATAT/CATATAT ATAT	TCGTTGAAACCATACGA CCA	TCCTTGTAATTTGATT ACCCCA	59.6	909	INTERGENIC	--	--	--
Ca7_P2_31234572	Ca7	31234572	AAGA/AA	GGCGGAAACAATGAAA GTGT	TTGAGATGGTTGCTTT GCAG	60.0	226	INTERGENIC	--	--	--
Ca7_P2_31247213	Ca7	31247213	AGTTTCAAATGTT/AGTTTCAAATGTTTC AAATGTT	CACCTCTCACGTTGCG ATTA	CCTCACACCCCATCCT ATTG	60.2	559	INTERGENIC	--	--	--
Ca7_P2_31249817	Ca7	31249817	T/TA	CTCGATCGATGTTTGCT TGA	ATGGCTGGTTGGTATT GGAA	60.2	375	INTERGENIC	--	--	--
Ca7_P2_31252462	Ca7	31252462	TA/TAAAA	GCCCACGCATAAGTCA AAAT	AAAAGGAGCAGTCAAT GGGA	59.7	660	INTERGENIC	--	--	--
Ca7_P2_31252713	Ca7	31252713	AAA/AAATAA	TCCCATTGACTGCTCCT TTT	TTGCAACACTTTCTGGA GCA	60.6	567	INTERGENIC	--	--	--
Ca7_P2_31252768	Ca7	31252768	GTTTTTTT/GTTTTTTTTT	TCCCATTGACTGCTCCT TTT	TTGCAACACTTTCTGGA GCA	60.6	567	INTERGENIC	--	--	--
Ca7_P2_31252978	Ca7	31252978	GTTATTTATTTATTTA/GTTATTTATTTAT TTATTTA	TCCCATTGACTGCTCCT TTT	TTGCAACACTTTCTGGA GCA	60.6	567	INTERGENIC	--	--	--
Ca7_P2_31256293	Ca7	31256293	TAAA/TA	AACGTGCATCCAACAA ACA	GCAAAGTGTTCAGTGG CAGA	60.0	370	DRR	Ca_10132	--	--
Ca7_P2_31257051	Ca7	31257051	TAAAA/TAAAAA	ACAATGAGGCTGAGGG AGAG	GCCTTCACAAAGTAGC TGGC	60.0	178	DRR	Ca_10132	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_31262186	Ca7	31262186	TA/TACA	TTTGGTTGCCATCAAGT GAC	ATGGGTATATGCCGTT TCCA	60.0	733	INTERGENIC	--	--	--
Ca7_P2_31277211	Ca7	31277211	TAAAAAA/TAAAAAAA	GGTGCATTTGAGTTTG CTGA	CCACAAGTTTCTGGGG AAAA	59.9	336	INTERGENIC	--	--	--
Ca7_P2_31283813	Ca7	31283813	CTTTTTTTT/CTTTTTTTT	CTCGTGATCCATGCTTT CAA	CGCTCGATGGTTCAAT TTTT	59.9	589	DRR	Ca_10131	--	MYB
Ca7_P2_3128484	Ca7	3128484	ATTTTTTTTT/ATTTTTTTTTT	ACTGGTAGGCAACGAA CACC	GCTACCGAAAAATTCA GAAAAA	57.7	315	INTERGENIC	--	--	--
Ca7_P2_31285648	Ca7	31285648	GATAA/GATAATGAGATATTATAA	GCCACACATCATATTTCA TTCCA	CAGCACCAGCACTACC AGAA	60.0	617	INTRON	Ca_10131	--	MYB
Ca7_P2_31287319	Ca7	31287319	TC/T	CGGGAATGTAATGACC ACCT	TCATCAAATTCGTAACG CAAA	59.2	460	INTERGENIC	--	--	--
Ca7_P2_31294686	Ca7	31294686	AA/AAACA	ACGAAACCAATCCAAT CCA	TGAATCTGTGAACCGC ATGT	60.1	753	DRR	Ca_10130	O	--
Ca7_P2_31299081	Ca7	31299081	TAAAAAA/TAAAAA	GTGTAACCCATTGTTC CCG	TTTAGCTGGCTTACCG GAGA	60.0	503	DRR	Ca_10129	--	C2H2
Ca7_P2_31299703	Ca7	31299703	TTTGTT/TTT	TCTCCGGTAAGCCAGC TAAA	TCTCTCGCTTGTGTTT CCT	60.0	631	DRR	Ca_10129	--	C2H2
Ca7_P2_31300294	Ca7	31300294	T/TG	GGGAAACACAAGCGAG AGAG	CAACATTTAATGGATG GGGG	59.9	697	DRR	Ca_10129	--	C2H2
Ca7_P2_31300454	Ca7	31300454	TTAAA/TTAAATAAA	CAGGCCATAAATCGAT GGT	CAACATTTAATGGATG GGGG	59.9	592	DRR	Ca_10129	--	C2H2
Ca7_P2_31302590	Ca7	31302590	CAATGTCAGA/CAATGTCAGAGTAGAAA AATGTCAGA	CATGTTCTTGAGACG CAGA	GCTGTTTCAATGCCA GTGA	59.8	691	INTRON	Ca_10129	--	C2H2

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_31310788	Ca7	31310788	TAAAAAA/TAAAAA	TTCAAAGCACCGAGG AAGT	GAAGGCCTCCATTGCA CTAA	60.2	689	INTERGENIC	--	--	--
Ca7_P2_31310992	Ca7	31310992	TC/T	TACGCTATCGTGCCAA TGC	GAAGGCCTCCATTGCA CTAA	60.2	503	INTERGENIC	--	--	--
Ca7_P2_31311060	Ca7	31311060	CAAAAT/CAAAATGTAAAT	TGTTTGGGTTAGTGCAA TGG	GCCATGATCAAATTTG GGTT	59.6	485	INTERGENIC	--	--	--
Ca7_P2_31313382	Ca7	31313382	GTTT/GTT	ATTCCTTTGAAGCACA CGG	ACCTCTGTAGCACCC ACAC	60.0	799	INTRON	Ca_10128	--	--
Ca7_P2_31316427	Ca7	31316427	TCTAGAAATCCATGTACT/TCT	CCCTGGACCAGATTCT TTG	TTGCATAAGGAATTGG ACTCG	60.1	873	DRR	Ca_10127	--	FAR1
Ca7_P2_31320252	Ca7	31320252	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA	ATCCTTTGCCAAATCA TGC	ACCGCAATAACTCATG CACA	60.1	456	INTERGENIC	--	--	--
Ca7_P2_31321232	Ca7	31321232	AAA/AAATAA	TGTTTGGACCGACATAC GAA	TGAGTTGTGCAAAAC CTCAAT	60.6	674	INTERGENIC	--	--	--
Ca7_P2_31322419	Ca7	31322419	CT/CTT	TGGTAGCAACACTAGT GCAACA	TGCAATGGAGTGCAAT TTGT	60.1	501	INTERGENIC	--	--	--
Ca7_P2_31328939	Ca7	31328939	TTTATT/TTT	TTGAGGGGGAGTGCA AAAC	CTTTTGGTGCAAGTTC GCC	60.7	845	DRR	Ca_10126	R	--
Ca7_P2_31329695	Ca7	31329695	TTAA/T	AATGGGGACCATTTGT TACA	GCAGTACTTCCCTGCA AAGC	60.0	591	DRR	Ca_10126	R	--
Ca7_P2_31330956	Ca7	31330956	AT/ATT	TTGTTCTCCTTTGCCAC CTT	TGTGATGATGTCATGG GGAC	60.2	156	INTRON	Ca_10126	R	--
Ca7_P2_31332920	Ca7	31332920	CA/C	CACTCCTTCTCGCCTTT CAC	TATTTTATCAATCCGGC CCA	60.1	526	INTRON	Ca_10126	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_31335294	Ca7	31335294	CAA/CAAAGGAA	TTTCTTCCGTTTCCAA TGC	ACAGCCTGTGCACTGT TTTG	59.9	605	INTERGENIC	--	--	--
Ca7_P2_31339236	Ca7	31339236	GTATATATA/GTATATA	CACATGTGACATTTTC CGC	GCTTGCTCTGAAAGTG ACTGC	60.3	316	DRR	Ca_10125	K	--
Ca7_P2_31343394	Ca7	31343394	ATT/ATTT	GTTGTGCCGTTGGTAC TCCT	CGTGGTCGTTTTGGAG TTTT	60.0	502	INTERGENIC	--	--	--
Ca7_P2_31351207	Ca7	31351207	CAAA/CAAAA	GCCATGCCAAATTCGTG TGA	ACCGGACTGGAATCGT GATA	60.3	713	DRR	Ca_10122	U	--
Ca7_P2_31352192	Ca7	31352192	CAAAA/CAA	GCGAGCAAATTCGAA CCAT	TGTTAGGGTCAGTTCT GCCA	59.3	245	DRR	Ca_10122	U	--
Ca7_P2_31353533	Ca7	31353533	TATAAATAAATAAGTTGAT/TATAAATAA ATAAGTTGATAAATAAATAAGTTGAT	GTTTCCGTCTCAACATG GGT	GGCAGGTATGTGCACC AAAT	60.8	286	INTRON	Ca_10122	U	--
Ca7_P2_31353992	Ca7	31353992	GAAAA/GAAA	TGGTGACATACCTGC CTAA	AAAACACGATAATGGC CCTG	59.8	482	INTRON	Ca_10122	U	--
Ca7_P2_31357954	Ca7	31357954	CCTACTA/CCTA	TTAAAGGACTGCCGGA GAAA	ATGGAATCTGATGGAA AGCG	60.0	183	INTERGENIC	--	--	--
Ca7_P2_31361688	Ca7	31361688	ATTTTTTT/ATTTTTT	TTAACGAGGGGAAAC ATTGA	TGAAGATCCCCTTCGA TCCT	60.9	767	INTERGENIC	--	--	--
Ca7_P2_31361859	Ca7	31361859	TA/TAGTTCAA	TGGTTAATCAAAATC GGTGG	TCTTCCTTAATTCGCGT CGT	59.8	426	INTERGENIC	--	--	--
Ca7_P2_31363909	Ca7	31363909	T/TAAGG	TGTTTAATCCCCATT CCA	CACTTGGACCGACATT GTTTT	59.9	289	DRR	Ca_10121	--	bHLH
Ca7_P2_31366465	Ca7	31366465	TAGAGAGAGAGAGA/TAGAGAGAGAGA GAGAGAGAGA	TTCCAAGAGGCAAAAG GATG	ACATCAAACACACAG GCAT	59.9	325	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_31368329	Ca7	31368329	AT/ATAACTTCATTT	ACGTTCTGGCTTTTCAC ACC	TGGAGGTAAATGATTG CTTGG	59.9	745	INTERGENIC	--	--	--
Ca7_P2_31372068	Ca7	31372068	AT/A	GCATGGCTCCGTTATT GATT	CCATCGCCAAATAAGTT TGA	58.6	299	INTERGENIC	--	--	--
Ca7_P2_31372436	Ca7	31372436	ATATATATTTATATAT/ATATATAT	GCATGGCTCCGTTATT GATT	TTCCAATTTATTTCCCG GTT	60.4	680	INTERGENIC	--	--	--
Ca7_P2_31373080	Ca7	31373080	ATTTTTTT/ATTTTTTT	ACCCGGGAATAAATTG GAAA	CTGCGCACATGTGTTC TCTT	60.1	783	INTERGENIC	--	--	--
Ca7_P2_31374467	Ca7	31374467	CAAAA/CAAAAGAAAA	TTTGGACTCGCTCTACA TGG	GCTGATGACCCAAAAC CATT	59.8	524	INTERGENIC	--	--	--
Ca7_P2_31374852	Ca7	31374852	ATTTTTTTT/ATTTTTTTTTT	AATGGTTTTGGGTCATC AGC	AGATGATTATGTGGGC CTCG	59.9	359	INTERGENIC	--	--	--
Ca7_P2_31384238	Ca7	31384238	AAA/AAATAA	GAAAAAGCGCTGTAAT GGC	ATCACCCCATTTTTTCAC CAA	60.0	457	INTERGENIC	--	--	--
Ca7_P2_31384635	Ca7	31384635	TAA/TAAA	GATTGGTGAAAAATGG GGTG	TGGCAATATCAATCCAC CTAGT	58.5	629	INTERGENIC	--	--	--
Ca7_P2_31385029	Ca7	31385029	CATTATTATTATTATTAT/CATTATTATTA TTAT	GGGTGGAATAAGTAA CACTGTTTG	TGGGTAGAAACAAAT GGGG	59.7	516	INTERGENIC	--	--	--
Ca7_P2_31391302	Ca7	31391302	CAA/CA	ACAGTGGTGATCTTG CACA	TCACAACTCAAATCGT AATCA	58.4	637	INTERGENIC	--	--	--
Ca7_P2_31393273	Ca7	31393273	TAAAAAAAAA/TAAAAAAAAA	CATGGTGAGGGTGATT TGTG	TTTGAGTTGCAATTTGA TGACA	59.2	717	INTERGENIC	--	--	--
Ca7_P2_31463762	Ca7	31463762	CTAAGTAAGTA/CTAAGTA	TGAAGGATCATCTTCCC CAG	TGTTGTGCCTTTGGGT GTAA	60.0	729	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_31491336	Ca7	31491336	TATCTTTGA/TA	TCCAACACCATGCCTA TTTT	TCGTAAATAGCTGTTG CCGTC	59.3	810	INTERGENIC	--	--	--
Ca7_P2_3152848	Ca7	3152848	AATATATATATATATAT/AATATATATATA TATATAT	TTTCGTTTTGGGCTATT TGG	CTCCAACGGGCTCTAC ACTT	60.2	528	INTERGENIC	--	--	--
Ca7_P2_3152887	Ca7	3152887	AATATATATATATATATAT/AATATATA TATATATATATATATATAT	TTTCGTTTTGGGCTATT TGG	CTCCAACGGGCTCTAC ACTT	60.2	528	INTERGENIC	--	--	--
Ca7_P2_31542273	Ca7	31542273	TTCTCTCTCTCTCTCTCTCTCTCTCT C/TTCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTC	TGGATTTTGAAGATGTG GCA	CCAATACAACACGAGT CGCC	61.5	714	INTERGENIC	--	--	--
Ca7_P2_31630725	Ca7	31630725	ATTTTTTTTTT/ATTTTTTTTTTTTT	GGCTAAATTACTTGTGG TCCCTT	TTTTATGGGTTTTGGTT GAAAA	58.4	193	INTERGENIC	--	--	--
Ca7_P2_31745904	Ca7	31745904	TCCCC/TCCC	TGCATGGAATGGTGAG TGAT	ATTGATGGGTTTACTTG GCG	59.8	219	INTERGENIC	--	--	--
Ca7_P2_31746962	Ca7	31746962	ATTTTTTTTTT/ATTTTTTTTTTT	TGTTGTTGTTGTTGGAG ATGAA	TCTGTGATTTGGGATG GGAT	60.1	739	INTERGENIC	--	--	--
Ca7_P2_31808923	Ca7	31808923	TTCTCTCTCTCTCTCT/TTCTCTCTCTCT CTCTCT	AACGTACCCGAGTGA TGCC	GATACAAGGGTTTCT GCCA	59.9	304	INTRON	Ca_10083	R	G2-like
Ca7_P2_31862312	Ca7	31862312	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TA/ATATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTA	CAAATACAATAACACCT GTCTCCG	ACTTTTCCCACCAACT TCA	59.4	498	INTERGENIC	--	--	--
Ca7_P2_31895626	Ca7	31895626	AAAGAAGAAGAAGAAGAA/AAAGAAGAA GAAGAAGAAGAA	TGAGTTTGTGGTGGA CCAA	TGCAACGTCAGTGT AGCC	59.9	816	INTERGENIC	--	--	--
Ca7_P2_32016780	Ca7	32016780	TA/TAATAATAA	TGTCAAAAACAACGTC CCA	CTATCCATTTGTGACG GCCT	60.0	487	INTERGENIC	--	--	--
Ca7_P2_32114393	Ca7	32114393	A/AAC	ATATTCAAGGCAAGGT GCG	CGAGACTACTCGTGG CTTC	60.0	505	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_32355125	Ca7	32355125	AA/AATGCTTTCTGCCAGA	AACGTGGGTTACGTCC AGTC	ATCCAGGTTGTTCAAA CGG	59.8	373	INTERGENIC	--	--	--
Ca7_P2_3243289	Ca7	3243289	AGTTATTTTGATTTTGTTATTTGATTT GT/AGTTATTTTGATTTGT	TGAGTTTGGATATCGTT TTTACAC	CATTTTGTCTAGCCAC GCA	59.9	350	INTERGENIC	--	--	--
Ca7_P2_32441906	Ca7	32441906	AATATATATATATATATA/AATATATATAT ATATATATA	TTATTCGCGATGCAACT TTTT	TCTTCTTCGTCTACCTC CCTCTT	59.9	389	INTERGENIC	--	--	--
Ca7_P2_3247094	Ca7	3247094	TAAAAAAAA/TAAAAAAAAA	GATGAGGGAGAACGTG GAAA	ACCCAAATCAAGTGGG ATCA	60.2	597	INTERGENIC	--	--	--
Ca7_P2_32479028	Ca7	32479028	AATATATATATATATATATAT/AATA TATATATATATATATATATATAT	AGGGAGTTTAGTGGT GGCT	CGGATGCATGAAAGTG AAAA	59.7	636	INTERGENIC	--	--	--
Ca7_P2_32487675	Ca7	32487675	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA AAAAA	GACCAAAATGTTGTGGT GGA	CCTGCAGTCAACAAGC TCAA	60.2	659	INTERGENIC	--	--	--
Ca7_P2_32563277	Ca7	32563277	ATTTTTTTTT/ATTTTTTTTT	TGGGACTGAGGGAGAG AGAA	AGGAGGTCAATGTCGT CAAA	58.1	953	DRR	Ca_10026	TU	--
Ca7_P2_3259173	Ca7	3259173	TCCC/TCCCC	TAGAAAGGAATTGGCG GTGA	TCATTTTCATTTAGAAG CATGAGC	59.8	767	INTERGENIC	--	--	--
Ca7_P2_32596847	Ca7	32596847	TTT/TTTTTTCCTCCTT	CGTTGGACCAATCTCTA ATTCTA	GAAAGGAAGGGAAGA GGGA	59.6	319	INTERGENIC	--	--	--
Ca7_P2_32601479	Ca7	32601479	A/AGGAATGCT	CAGCAACAGCGCAAAG ATTA	GGATGACAAAGAAAG CCAA	60.1	543	INTRON	Ca_10025	TU	--
Ca7_P2_32601813	Ca7	32601813	T/TG	CAGCAACAGCGCAAAG ATTA	GCAAGTGATTGCAAAG CAAA	60.0	652	INTRON	Ca_10025	TU	--
Ca7_P2_32613866	Ca7	32613866	AT/ATT	AAAAGGTGGTTAGCTCT TTGACA	GGGGGCGAAAGATTTT ATTT	59.3	377	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_32614218	Ca7	32614218	AAAAAATTATAA/AAAA	AAATAAAATCTTCGCC CCC	GGAGGGATTGCAGTGA CAGT	60.1	525	INTERGENIC	--	--	--
Ca7_P2_32649545	Ca7	32649545	T/TC	TTGCAGGATGCACAGA AAAG	AGGTGCATCCCCTGTA ACTG	60.0	415	INTERGENIC	--	--	--
Ca7_P2_32650059	Ca7	32650059	TAATAATGTAAAAA/T	ATGGGACTGTGGGAGA GAGA	GAAAAAGGCTTCAAC ATCAAA	58.4	398	INTERGENIC	--	--	--
Ca7_P2_32653182	Ca7	32653182	G/GA	TTTCAAATTTCCGGTT TGC	CCAATTCCTGTGGAAA TGCT	59.9	582	INTERGENIC	--	--	--
Ca7_P2_32654894	Ca7	32654894	AAATAATAATAATAAT/AAATAATAA TAATAATAATAATAAT	AACGAAGTGAGACGTG AGCA	TGATGGCTATGGTGGA ACAA	59.9	618	INTERGENIC	--	--	--
Ca7_P2_32655163	Ca7	32655163	TTAATA/TTA	AACGAAGTGAGACGTG AGCA	TGATGGCTATGGTGGA ACAA	59.9	618	INTERGENIC	--	--	--
Ca7_P2_32655249	Ca7	32655249	TATTAATTAA/TATTAA	TGTTGTTCCAAATTTTA CCTGAA	TACAGACCGGGCTCAA AATC	60.1	935	INTERGENIC	--	--	--
Ca7_P2_3276292	Ca7	3276292	AAATAATAATAATAATAATAAT/ AAATAATAATAATAATAATAAT	TCTTTTATCACTCCCGT GTGC	TTGGCTTGATTAATGT TGGG	59.8	556	INTERGENIC	--	--	--
Ca7_P2_3277491	Ca7	3277491	TC/T	CAGTTTCGAGGACAC ACAT	AGAGCGATTTTGCAG AGAA	60.2	848	INTERGENIC	--	--	--
Ca7_P2_32778038	Ca7	32778038	CATTTATTTATTTATTT/CATTTAT TATTTATTTATTTATTT	TTTTGACTCAATCAACA TTGACA	AAATTGCTTTGATTCA GCTCATTT	59.6	560	DRR	Ca_10016	L	--
Ca7_P2_32820886	Ca7	32820886	TAAAAA/TAAAAA	CCCAACATGCTTCTTGC TCT	TCATAAGAAAGTGGCT TCCCA	59.7	789	INTERGENIC	--	--	--
Ca7_P2_32839132	Ca7	32839132	GCCTCCTCCTCC/GCCTCCTCCTC C	GGTTTTCAATCACCACC ACC	GCGATCTTATCGTGT GGGT	60.0	199	CDS (large-effect mutations)	Ca_10013	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_32860360	Ca7	32860360	ATT/ATTTTT	TTTGTCTGATTGGATT CCC	AGGTCTTGAACTCGC AAGC	59.6	463	INTERGENIC	--	--	--
Ca7_P2_32917679	Ca7	32917679	GTATATATATATATATATAT/ATATAT ATATATATATATAT	TTCAAATGGGTAAATT TCAACG	TTTTGATCTCACACACA CACACA	60.1	548	DRR	Ca_10008	--	bZIP
Ca7_P2_32929529	Ca7	32929529	T/TCAATG	TCCCGAAATAGGGAAA CTCC	GAAGAGAGGGAAAGG GAAGG	59.3	665	DRR	Ca_10005	--	--
Ca7_P2_33051432	Ca7	33051432	TAAAAA/TAAAAAA	TCAAATTTTTTAACAAA ACCCA	CCTTGCCTCATGTTATG TGC	59.2	671	INTERGENIC	--	--	--
Ca7_P2_33051459	Ca7	33051459	ATTTTTTT/ATTTTTTTT	TCAAATTTTTTAACAAA ACCCA	CCTTGCCTCATGTTATG TGC	59.2	671	INTERGENIC	--	--	--
Ca7_P2_33054452	Ca7	33054452	AT/A	TAACAACCATGGTCCAG CCT	CGTTATGGATCAAAGT CGATG	58.1	589	INTERGENIC	--	--	--
Ca7_P2_33055618	Ca7	33055618	CTGTG/CTG	TCCTCAAGGTGAATCTG ACAAA	TTATCATGCGCTGAAAA ACG	59.8	345	INTERGENIC	--	--	--
Ca7_P2_33055960	Ca7	33055960	CAATAATTATAATAATTA/CAATAATTA	AGACCGATGAGGCGAA GTAA	CATTGCAAAATTCGCA GAGA	60.0	629	INTERGENIC	--	--	--
Ca7_P2_33057877	Ca7	33057877	CTTTTTTT/CTTTTTT	GTTTTTAATGGATGCGG GTG	GGTGCAAAAGGAGGA CAAT	60.0	345	INTERGENIC	--	--	--
Ca7_P2_33058287	Ca7	33058287	GT/GTCTTTT	TCATGTGCCGTTTGTGA TTT	TGAGTGACAAATTAATG AACAATGC	60.3	432	INTERGENIC	--	--	--
Ca7_P2_33059513	Ca7	33059513	CTTTTTTTT/CTTTTTTT	GGGCTCTAGCCCCAAA CTTA	TAGGCCCTTCAACAA TTCA	60.4	714	DRR	Ca_09996	--	--
Ca7_P2_33059981	Ca7	33059981	TAAAAAA/TAAAAAA	TGAATTGTTGAAGGGG CCTA	CGCTTAAGCTTTGTTAC ACCC	59.0	199	DRR	Ca_09996	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33060011	Ca7	33060011	CAAAA/CAAA	TGAATTGTTGAAGGG CCTA	CGCTTAAGCTTTGTAC ACCC	59.0	199	DRR	Ca_09996	--	--
Ca7_P2_33060172	Ca7	33060172	GTTTTTTTT/GTTTTTTTTTTT	TGAATTGTTGAAGGG CCTA	TGGGAATTGGATCTTT TTGTC	60.2	635	DRR	Ca_09996	--	--
Ca7_P2_33061943	Ca7	33061943	TA/T	CGATCAATGACTGTCCA ACG	TCCCTTTAGAATTGACG CTTTT	59.3	252	INTERGENIC	--	--	--
Ca7_P2_33062204	Ca7	33062204	AT/ATT	CGATCAATGACTGTCCA ACG	GGGCCCTCTACTTGAA CTAAAA	58.8	670	INTERGENIC	--	--	--
Ca7_P2_33065138	Ca7	33065138	CAA/CAAA	TGTTTCCCCCACTAACA TGC	CAGCATGCACCAATTTT GTC	60.1	606	INTERGENIC	--	--	--
Ca7_P2_33068212	Ca7	33068212	ATTT/ATT	CTTCTTCGTCATCCATT GGC	AAGCCTATCACTCATCC AATCAA	60.0	624	INTERGENIC	--	--	--
Ca7_P2_33069098	Ca7	33069098	TCAACACTG/T	TGACATGCATGATTCAA CTGG	TTTGAATTGGTCCTGA TTTT	58.4	617	INTERGENIC	--	--	--
Ca7_P2_33069173	Ca7	33069173	ATTTT/ATTTT	TGACATGCATGATTCAA CTGG	TTTGAATTGGTCCTGA TTTT	58.4	617	INTERGENIC	--	--	--
Ca7_P2_33070699	Ca7	33070699	TTAATAATAATAAA/TTAATAATAAA TAATAATAA	TCACAAGACATAAGCC ATAAATCA	GGGTTTACCGTCATC ACTC	60.4	456	INTERGENIC	--	--	--
Ca7_P2_33102620	Ca7	33102620	ATTTTTTT/ATTTTTTTTTTT	GGGGCTGCTTCTTATG GAAT	CTATCCAATGCGGGAC TGTT	60.0	436	INTERGENIC	--	--	--
Ca7_P2_33102819	Ca7	33102819	ATT/AT	AACAGTCCCGCATTGG ATAG	CAGCACTGTCCAAATT GTGC	60.3	447	INTERGENIC	--	--	--
Ca7_P2_33107365	Ca7	33107365	ATTTTTTT/ATTTTTTTTT	TTGTGCTGTTTGGAGGA TGC	TAGGTTATTGGGCGCA ACTT	59.6	694	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33129086	Ca7	33129086	CTTTT/CTT	TAAGTTCTCTTCGGCT GCT	ACTTGAGTCTGGCGCC TTAG	59.6	916	INTERGENIC	--	--	--
Ca7_P2_33134360	Ca7	33134360	TTTATT/TTTA	CGAACAACTCAATTTA TGCGA	TCAAGGAATTGAACAC ACGA	59.2	533	DRR	Ca_16144	--	--
Ca7_P2_33135897	Ca7	33135897	CATAT/CAT	AACGTGTGCTTTCCTCT GCT	TTTTGATGTGATTGGT GGT	59.8	415	INTRON	Ca_16144	--	--
Ca7_P2_33157600	Ca7	33157600	CTTTTATTTTATTT/CTTTTATTTTATTT TATTTT	TGACAAGTGAAGAAAT GGAGA	AAATTTTCATCATGCAAA CTGCTT	60.0	977	INTERGENIC	--	--	--
Ca7_P2_33159162	Ca7	33159162	CT/C	TGTTCCAACCTCCAACC TCC	GACAAATGATGCTTCT GGCA	59.8	207	DRR	Ca_16147	--	--
Ca7_P2_33162055	Ca7	33162055	CTCTTACTCTTATTTCTTAT/CTCTTA T	TGAGGCTTTAAGGAGG TGGA	TTCGAGTGCACACAA TTCG	58.2	972	INTERGENIC	--	--	--
Ca7_P2_33173125	Ca7	33173125	ACCTCATTTGTCC/ACC	AATTTTGCGGTGCTTT TGG	GGGAGTCCTAGCCATG TGAA	60.1	687	INTERGENIC	--	--	--
Ca7_P2_3317609	Ca7	3317609	GTTT/GTTTT	CCACGGTTCTGAAGT TGTT	TGGGAAGTTGGTCTGT GTGA	60.1	599	INTERGENIC	--	--	--
Ca7_P2_33181251	Ca7	33181251	CTT/CTTTT	AGCATGGACTTTTGACC GAC	GGAAAAATCCAATTCT GGCT	59.4	783	DRR	Ca_16149	IOT	--
Ca7_P2_33189130	Ca7	33189130	TG/TGCAG	AGACATTTTGTCAATG GATCTG	AGGAGAAATGCGAGGA AACA	59.8	462	INTERGENIC	--	--	--
Ca7_P2_33210847	Ca7	33210847	A/AGACAGTCAC	TCTAAAACGGACGTGG GAAC	ATGCTCAAAAGATGCG AGGT	59.7	616	INTERGENIC	--	--	--
Ca7_P2_33211070	Ca7	33211070	TAA/TAAA	ACCTGCCATCTTTTGAG CAT	AATTCGCTCGGGTCT TTTT	59.8	622	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33216732	Ca7	33216732	AC/A	CAAGGTCTATGCCCC CAAA	ATGTGCTTGTGGCCT TTTC	60.1	636	INTERGENIC	--	--	--
Ca7_P2_33218377	Ca7	33218377	TTCTCTCTCTCTCTCT/TTCTCTCTCTCTCT	TTTGGCACTGGTGA CATT	TAGGTGTAACCTCGGC GACC	60.1	457	INTERGENIC	--	--	--
Ca7_P2_33219414	Ca7	33219414	GT/GTT	GGGAAAGTTGTCGTT TTCA	AAGACCCAAAACAAG AGCTAAA	59.7	246	INTRON	Ca_16150	--	--
Ca7_P2_33225343	Ca7	33225343	AG/A	TCGATGCAGCCTAAACT GTG	TGCTTCTTTTGTGCTG GTG	60.0	340	INTRON	Ca_16150	--	--
Ca7_P2_33237542	Ca7	33237542	CAT/CATGTTTAT	ACGTTGCTCTTTCGCT GTC	TTGGGTGATAAGGCCA AAAC	59.8	433	INTERGENIC	--	--	--
Ca7_P2_33237657	Ca7	33237657	GATATAT/GATATATATAT	TTTGGCCTTATACCCA AAC	CAACTGGTTCAACGC AAAA	59.7	171	INTERGENIC	--	--	--
Ca7_P2_33245900	Ca7	33245900	AC/A	TCATCAACTTCTCCAT TTGC	ATCGCAGCGAAAAGTT GAGT	60.0	513	INTERGENIC	--	--	--
Ca7_P2_33247703	Ca7	33247703	ATCTCT/ATCTCTCT	TGTAACGCGTAGGGTA AGGG	TAAGCATCCGCTTCTTC AGG	60.5	136	INTERGENIC	--	--	--
Ca7_P2_33251332	Ca7	33251332	AAATAAT/AAAT	TGTTGATAAATGATAAT TGTTGTGTG	GACTATCGCTCCCTA AGCC	60.2	836	DRR	Ca_16152	A	--
Ca7_P2_33267226	Ca7	33267226	CGG/CG	CTCACTCTCTCCGCAA ATC	TCAACAAATGCAAGG TGGA	60.1	818	INTERGENIC	--	--	--
Ca7_P2_33274954	Ca7	33274954	TAAAAAAA/TAAAAAAA	TAGAGTTGCACGAGTG GTGG	TTGGAGGAGTGATCCA ATACA	58.0	651	INTERGENIC	--	--	--
Ca7_P2_33275253	Ca7	33275253	TAAAA/TAAAAA	TTTAATGATTGGATCA CTCCTCC	CTGGCTCTCTCACAT GACA	60.0	393	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33275426	Ca7	33275426	CAAAAA/CAAAAA	TTGGATCACTCTCCAA TTT	CTGGCTCTCCTCACAT GACA	60.0	384	INTERGENIC	--	--	--
Ca7_P2_33288649	Ca7	33288649	ATTT/ATTTT	TCCCTTCTCGTATTTG CAC	TTTTGGACCGAATATGA TTATGC	60.1	442	INTERGENIC	--	--	--
Ca7_P2_33289748	Ca7	33289748	TTTTATTT/TTTT	GAATGAAATGGGAGGG CTTT	TTTTGTTTGCACCGTTA GTTATTT	59.1	790	INTERGENIC	--	--	--
Ca7_P2_33290416	Ca7	33290416	ATTTTTT/ATTTTTTT	TGACTCACGAAATTTGGT TACCT	TGGGAGTTCTGGGAAA GATG	60.0	452	INTERGENIC	--	--	--
Ca7_P2_33294521	Ca7	33294521	GAAAAAAAAA/GAAAAAAAAA	AAAAACTTGGACACAG TTCA	TTCAATTCCTCTCCCA ACC	59.7	480	INTERGENIC	--	--	--
Ca7_P2_33295187	Ca7	33295187	TAAAAAAAA/TAAAAAAAAAAAAA	TGAGGGGTGAAAGGA TAAG	TTGATTAACCTCGTG GTCG	58.8	462	INTERGENIC	--	--	--
Ca7_P2_33295433	Ca7	33295433	GTTAATTA/GTTA	CGACCACGAGTTTAATC GAA	AAAAGGAACAACCGTC GTCA	60.5	510	INTERGENIC	--	--	--
Ca7_P2_33296176	Ca7	33296176	GAAAAATAAAAAATAAAAAATAA/GAA AAATAAAAAATAA	TGACGACGGTTGTTCC TTTT	AATTTAGTGTCTCAA AGATTTGC	57.3	731	INTERGENIC	--	--	--
Ca7_P2_33298775	Ca7	33298775	AAG/AAGAG	TGGAAAACCCCTGCATT AAG	CACCCAACCATTTGATG TTCA	60.2	571	INTRON	Ca_16157	--	--
Ca7_P2_33299627	Ca7	33299627	ATTT/ATTTTT	TGAAATTGAAATGAAAT GCCG	TTGTTGGATTTCTCTC CTG	59.9	536	INTRON	Ca_16157	--	--
Ca7_P2_33324654	Ca7	33324654	AATATATATATATATATATATATAT A/AATATATATATATATATATATATATA	CTGAGATCAAATTTGCG ACC	TTGAGACATCTTTTGT GGTTCA	59.6	632	INTERGENIC	--	--	--
Ca7_P2_33327439	Ca7	33327439	AT/ATT	TGCACATAACTTGTGCG ACC	TTCCATTTCCCTTAGT GCG	60.1	658	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33329178	Ca7	33329178	GTTTTTT/GTTTTTTT	TCACCTTCTGACCTGA ATGAA	TGGTGGGCTATGAACA AACA	60.0	619	INTERGENIC	--	--	--
Ca7_P2_33331664	Ca7	33331664	ATTTTTTT/ATTTTTTTTTT	TATGAATAGTCGGCAA GGGG	ACAACCGTGATTGATG CAAA	60.0	607	INTRON	Ca_16158	R	G2-like
Ca7_P2_33334558	Ca7	33334558	AGTGTTCAAAAGTTGTTCATAAAG/ AGTGTTCAAAAG	CTTTCAGGAAAGTGGC TTGG	ACCAAAAGGCACCCAGA GATG	60.1	682	INTRON	Ca_16158	R	G2-like
Ca7_P2_33336629	Ca7	33336629	CATATA/CATA	CCCATTGGGTGCTAG TGTT	TGAGGTGTCCTTTGAA ACCC	59.9	699	DRR	Ca_16158	R	G2-like
Ca7_P2_33343840	Ca7	33343840	TA/T	TGGTGACTGGTGAGTT CCAA	CGTCGATTTCAAGCAC TCAA	60.0	519	DRR	Ca_16160	--	--
Ca7_P2_33346875	Ca7	33346875	CAAAAA/CAAAAAA	TAAGCTTCTCGTGTCTG CCC	GCCATTCTTCGTCCAT TGT	59.9	682	INTERGENIC	--	--	--
Ca7_P2_33350171	Ca7	33350171	TG/T	TGTGGCTGAAGTCAAT GAGC	AATTGTCTCTCAACAAC CCG	59.8	547	INTRON	Ca_16161	YU	--
Ca7_P2_33350530	Ca7	33350530	T/TG	ATCGGGTTGTTGAGGA CAAA	GGAGAGTTTGTGGGCA CATT	60.0	664	INTRON	Ca_16161	YU	--
Ca7_P2_33350771	Ca7	33350771	TTTTTTTAAAACTATTTT/TTTTT	GCCCATCTTCCCATACT TCA	GGAGAGTTTGTGGGCA CATT	60.0	180	INTRON	Ca_16161	YU	--
Ca7_P2_33358250	Ca7	33358250	C/CA	ACCTCACC GTGCATA GACC	CAAACCAACTGCCCTT GTT	60.0	314	INTRON	Ca_16161	YU	--
Ca7_P2_33358560	Ca7	33358560	CTTGT/CTTGTGT	AACAAGGGCAAGTTGG TTTG	GGGTTTTTCCCCTTCA CAAT	60.0	397	INTRON	Ca_16161	YU	--
Ca7_P2_33361891	Ca7	33361891	TAAT/TAATAAAT	GAGCAAGTGCTTGTT GTGA	TAGAGGGTGACAGGGC AAAC	60.1	591	INTRON	Ca_16162	YU	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_33368154	Ca7	33368154	CA/CAA	AAGTTTCGTTGGTCTCC GTG	AGGCCATGAATACAAC TCGG	60.0	644	DRR	Ca_16162	YU	--
Ca7_P2_33370763	Ca7	33370763	CTTTT/CTTT	GCCAAAATTGGTTCTTC CAA	GGAGCCATGGAAAGTT TGAG	59.7	411	INTERGENIC	--	--	--
Ca7_P2_33375549	Ca7	33375549	T/TC	GCTGTTGGGTTGAGCA ATTT	AACCTCGATAATCAG CACC	60.0	659	INTRON	Ca_16163	--	--
Ca7_P2_33384735	Ca7	33384735	GATTGAA/GA	TGCCTCAAAGTTTGT TCAA	GTTCCGGAAAACGATG AAGA	60.1	242	INTERGENIC	--	--	--
Ca7_P2_33385149	Ca7	33385149	AAATAATAATAATAATAATAATA ATAATAATAATA/AAATAATAATAATA TAATAATAATAATAATAATAATA	TTCATCGTTTTCCCGAA CTC	GCAACAAGAACCGAA AACA	58.8	420	INTERGENIC	--	--	--
Ca7_P2_33385317	Ca7	33385317	AT/A	TTCATCGTTTTCCCGAA CTC	CCTCTTGTCTTCTTGT GGCA	60.4	723	INTERGENIC	--	--	--
Ca7_P2_33412535	Ca7	33412535	TCTCA/TCTCAAACCTCA	TTGAGTGAGCACCAAC CAAG	TGCGAGTTGAAAGCAA GAAA	59.7	320	INTRON	Ca_16164	--	C3H
Ca7_P2_33412820	Ca7	33412820	ACATATCGAATT/ACATATCGAATTTC TATCGAATT	TTTCTTGCTTTCAACTC GCA	CCAGTTTCTCAATCCCT TGG	59.5	548	INTRON	Ca_16164	--	C3H
Ca7_P2_33413011	Ca7	33413011	TTGTGTGTGT/TTGTGTGTGTGT	AATTGACAACCTTGGC ACC	ATGGTGGAGGGGAGAA AAAG	60.3	508	INTRON	Ca_16164	--	C3H
Ca7_P2_33413065	Ca7	33413065	CA/CAAA	AATTGACAACCTTGGC ACC	ATGGTGGAGGGGAGAA AAAG	60.3	508	INTRON	Ca_16164	--	C3H
Ca7_P2_33416427	Ca7	33416427	TAATTGGTTTAAAT/TAAT	CAATTAGCCTATTAGTT TGCCCA	GACTGGATCCGATTTT CTGG	59.5	627	DRR	Ca_16165	U	Dof
Ca7_P2_33420924	Ca7	33420924	TC/TCC	ACCTAATCAGGGCCGA TTCT	TTGGTGTGTTGTTTCC CTGA	60.0	292	INTRON	Ca_16165	U	Dof

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33486622	Ca7	33486622	TAAAAAA/TAAAAAA	GCTTCTTTATTTGCAG CCG	GACGGCGAGTGTACAA TTTA	59.7	439	INTERGENIC	--	--	--
Ca7_P2_33490380	Ca7	33490380	TT/TTTTGT	CACGAAATCTCATCCCA CCT	TTTCGGGCCAAGACAA TTAG	60.1	427	INTERGENIC	--	--	--
Ca7_P2_33490449	Ca7	33490449	GAT/GATCAT	CACGAAATCTCATCCCA CCT	TTTCGGGCCAAGACAA TTAG	60.1	427	INTERGENIC	--	--	--
Ca7_P2_33519406	Ca7	33519406	ATTTTTTTT/ATTTTTTTT	CGCCGCCATTTATTAT CAC	TTTGCTTTTGTATGGA ACA	59.1	802	INTERGENIC	--	--	--
Ca7_P2_33520060	Ca7	33520060	TA/TAA	TGTTCCATCAAAAAGGC AAA	TTTGAACGTGGACTTG AGCA	60.4	387	INTERGENIC	--	--	--
Ca7_P2_33521232	Ca7	33521232	ATTTTTTTTTT/ATTTTTTTTTT	TCAAATTTTCAACCAA AAGCC	ATGAATCAACGATACG GCTG	58.6	548	INTERGENIC	--	--	--
Ca7_P2_33521411	Ca7	33521411	ATT/ATTT	TGTTGAACATTGTAACA GCCG	GACGAAAAATGATTTAG ACGTTCA	59.6	364	INTERGENIC	--	--	--
Ca7_P2_33524828	Ca7	33524828	A/AAATGTC	CCGAGAACACGAGATG GATT	ACCAGGTCTTGCTGAG CACT	60.1	316	INTRON	Ca_16172	S	M-type
Ca7_P2_33526924	Ca7	33526924	A/ACGTAG	TGGCATTGGAAGAAA AGG	GATGCCACCACTGAA AGAT	59.9	721	INTRON	Ca_16172	S	M-type
Ca7_P2_33528371	Ca7	33528371	ATTTTTTT/ATTTTTTT	GAATATTTGGTGAGAT CGCA	AATGGAGCGGAATTT CCTT	59.9	482	INTERGENIC	--	--	--
Ca7_P2_33528499	Ca7	33528499	CAAAAA/CAAAAA	GAATATTTGGTGAGAT CGCA	AATGGAGCGGAATTT CCTT	59.9	482	INTERGENIC	--	--	--
Ca7_P2_33529266	Ca7	33529266	GATATATA/GATATATATA	TCCCGTCTTTGCCAAC TAT	CTTTGCCTCGATGTT GGAT	60.1	315	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33532784	Ca7	33532784	T/TG	GCCTAGCTCAGAAGAC AAGTCC	CGATGCTTCATTATAA TCAACTCTT	59.2	534	INTERGENIC	--	--	--
Ca7_P2_33533613	Ca7	33533613	TAAAAAAAAA/TAAAAAAAAA	CCAAATTGGGAAGAC TGAA	ATGCCGTGAAGATTCC ATTC	59.9	546	INTERGENIC	--	--	--
Ca7_P2_33534220	Ca7	33534220	GATAACAATT/G	GAATGGAATCTTCACG GCAT	TGAGGTTCAAAAGAGA AAATGTCA	60.1	737	INTERGENIC	--	--	--
Ca7_P2_33534297	Ca7	33534297	GC/GCC	GAATGGAATCTTCACG GCAT	TGAGGTTCAAAAGAGA AAATGTCA	60.1	737	INTERGENIC	--	--	--
Ca7_P2_33538151	Ca7	33538151	AAAAA/AAAAAAGAAAAA	TTAGCTGGATTGGCCA AAAT	GGTCCATGGATGAGCT TGTT	59.9	396	DRR	Ca_16173	--	--
Ca7_P2_33539042	Ca7	33539042	TA/TAA	GGTAAATATGTGCATG GCCC	GGATTAGCACCGTCCA ATTT	58.9	722	INTERGENIC	--	--	--
Ca7_P2_33539096	Ca7	33539096	AA/AATA	GGTAAATATGTGCATG GCCC	GGATTAGCACCGTCCA ATTT	58.9	722	INTERGENIC	--	--	--
Ca7_P2_33539636	Ca7	33539636	GTTTT/GTTT	AAATTGGACGGTGCTA ATCC	CACGAAAGGTTTCATC ACAAA	58.7	243	INTERGENIC	--	--	--
Ca7_P2_33542905	Ca7	33542905	CAAAAAAAAA/CAAAAAAAAA	TTGTGCATGCGTGATT CAA	TAGCGACAACTCATC CCGT	60.7	514	INTERGENIC	--	--	--
Ca7_P2_33555347	Ca7	33555347	A/AAC	TCATGGGATCAAACCA TATC	TAATGATTTTGGACGT GCG	59.6	632	INTERGENIC	--	--	--
Ca7_P2_33555677	Ca7	33555677	GC/G	ATTTTCGCACGTCCAAA ATC	CCAGAAGGTAAGAACA CGGG	59.6	347	INTERGENIC	--	--	--
Ca7_P2_33557490	Ca7	33557490	AATAT/AAT	AAATTTTCAAGCGCCA ATG	AACCACCACAACAAGC ATGA	60.0	711	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33557776	Ca7	33557776	CA/CAA	TCATGCTTGTGTGGT GTT	GGTGACACTGAGTTGT CCTTCA	60.2	304	INTERGENIC	--	--	--
Ca7_P2_33558611	Ca7	33558611	TTTG/TTTGTTAGTTTTTG	TTCAAGGACATTGCCAA TTTAT	TGCATTTTCTCTTCTC CACTT	60.1	492	INTERGENIC	--	--	--
Ca7_P2_33559679	Ca7	33559679	CTTTTT/CTTTTTT	GCTCATTGCAAGAAGA GGATG	TCTCAAAGTGACAATG GTGTGA	59.2	417	DRR	Ca_16175	QI	B3
Ca7_P2_33561063	Ca7	33561063	GTAATTATCATAC/GTAATTATCATACTA TTCATAC	CGTGTACTCCCCTTTCC CTT	GGCCATTTTGTGCAGA TTTT	59.9	431	DRR	Ca_16175	QI	B3
Ca7_P2_33561157	Ca7	33561157	TATCATCATCAT/TATCATCAT	CGTGTACTCCCCTTTCC CTT	GGCCATTTTGTGCAGA TTTT	59.9	431	DRR	Ca_16175	QI	B3
Ca7_P2_33566953	Ca7	33566953	CAAAAA/CAAAAAAAA	GCACACTCCACCTCCA AAAT	AAAAGTGGTGGCAAAA GTGG	60.0	671	DRR	Ca_16177	JK	--
Ca7_P2_33569731	Ca7	33569731	CAAA/CAAAA	CTTCATCACTCGGACAA AAA	ACCAAAAAGTGGCAAAA CGTC	60.0	501	INTRON	Ca_16177	JK	--
Ca7_P2_33574239	Ca7	33574239	TGAAGGAAGGAAGGAAGGA/TGAAGGA AGGAAGGA	CTCCACTTTCTTCCCTT CCC	GGGCCTAAGTAAACG GACC	59.8	590	DRR	Ca_16178	I	--
Ca7_P2_33574500	Ca7	33574500	T/TG	GGAGGTTGAAGGAAGG AAGG	CCTACATTCTCACAAT CGTGG	59.5	602	DRR	Ca_16178	I	--
Ca7_P2_33575097	Ca7	33575097	CTTA/CTTATTA	CAAATTGCATTTTCCTC CCT	TTCATGGTTGATGGTG TTGG	60.2	630	DRR	Ca_16178	I	--
Ca7_P2_33576122	Ca7	33576122	GTTTTTTTTT/GTTTTTTTTT	TAATTTAACGAACGGCC GAG	TTGGGTGACTCATGGT GAGA	60.1	410	DRR	Ca_16178	I	--
Ca7_P2_33578672	Ca7	33578672	TAAA/TAA	AATCCTTTCCACGCTC TTT	GTTTTTCTCGCTTTGA CGC	60.0	376	INTRON	Ca_16178	I	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33585598	Ca7	33585598	TAAA/TAA	CTGCCCTTGTGTGCA GATA	TAAATCCAAATGCCCTC TGC	60.0	511	INTERGENIC	--	--	--
Ca7_P2_33587973	Ca7	33587973	A/AT	GTGTTTGGTTTTGGGG AATG	TGATGCCAGGTAGAGT GTGG	59.7	638	INTERGENIC	--	--	--
Ca7_P2_33597364	Ca7	33597364	CTAATTAATT/CTAATT	GATGTTAACGCACCTC CACC	CACACTTCGATCTCCG ATCA	59.8	483	INTERGENIC	--	--	--
Ca7_P2_33597576	Ca7	33597576	CAAA/CAA	GATGTTAACGCACCTC CACC	TGACGGTAGGTGCTAT TGTTTG	60.1	532	INTERGENIC	--	--	--
Ca7_P2_33602282	Ca7	33602282	CAAAA/CAAAAAA	TTTCGATTTGTTCTTGT TCATCA	TGCCTTCCTTTGGATTT GTC	60.1	521	INTERGENIC	--	--	--
Ca7_P2_33603982	Ca7	33603982	TCAC/T	TGAAGTTGAAAGGGAC CTTGA	TGGGTGCAACTGCATT CTTA	60.3	506	INTERGENIC	--	--	--
Ca7_P2_33605853	Ca7	33605853	TATAATTAAATAATAAT/TATAATTAAATA ATAATTAAATAATAAT	CCACACCCCTCATAG CCTT	TTTAAACCCCGTCAACA CCT	59.3	665	INTERGENIC	--	--	--
Ca7_P2_33606263	Ca7	33606263	TT/TTCT	TTCGAAGACAGGTGTT GACG	AAGTGTTCATTTGTTT GTGATTTTT	59.3	529	INTERGENIC	--	--	--
Ca7_P2_33606387	Ca7	33606387	TAA/TAAA	TTCGAAGACAGGTGTT GACG	AATTTCTTGCAATTCGC TGG	60.2	885	INTERGENIC	--	--	--
Ca7_P2_33608445	Ca7	33608445	TTCTCTC/TTCTC	GGATGCGACCAGCTAA AAGA	CCTCAACTCATTGAGA GGGC	59.8	483	INTERGENIC	--	--	--
Ca7_P2_33612773	Ca7	33612773	TTCGAA/TTCGAATATGGTAACGAA	CCACAACCCTCACACAC ATC	CACCATATGCCCAACA TTGA	60.3	292	INTERGENIC	--	--	--
Ca7_P2_33619410	Ca7	33619410	TTTCCTTCCTT/TTTCCTT	TCGTGGCTCATTCACAC TTA	GGGTTGTGTCCCAAAA GCTA	60.0	431	DRR	Ca_16179	J	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33619514	Ca7	33619514	ATTTT/ATTTT	CCTCCACACCCATAAG CTGT	GGGTTGTGTCCCAAA GCTA	60.0	312	DRR	Ca_16179	J	--
Ca7_P2_33625254	Ca7	33625254	TA/TAA	GAGACTCTCGGAAAC GTGG	GAGCATCTTTGGGGC ATAA	60.0	236	INTERGENIC	--	--	--
Ca7_P2_33630653	Ca7	33630653	AG/A	CAAGGAAGCACTTGCA GTCA	CGGTTCCCATAGATCA GCAT	59.9	832	INTERGENIC	--	--	--
Ca7_P2_33637035	Ca7	33637035	TA/TAA	CCCCGGTATTCTGACTT TTC	TTGGGCTATCGCCTAA GTTG	60.2	538	INTERGENIC	--	--	--
Ca7_P2_33637269	Ca7	33637269	A/AG	TCAGCCCAAACTTAAGT GCC	TGACCAAGTCCAACCG TGTA	60.0	389	INTERGENIC	--	--	--
Ca7_P2_33638562	Ca7	33638562	AATGAAT/AATGAATATGAAT	TCGCAAGAGTTTGGAC CITT	TTCTAAAAACGGAAAG CTATTTTGA	59.7	643	INTERGENIC	--	--	--
Ca7_P2_33638744	Ca7	33638744	A/AC	TCGCAAGAGTTTGGAC CITT	GCACATGGTTTCGAAT GTTG	60.0	882	INTERGENIC	--	--	--
Ca7_P2_33639029	Ca7	33639029	TAAAAAAAA/TAAAAAAAAA	TCAGAGCTTGCAGTTA TGTGA	GCACATGGTTTCGAAT GTTG	60.0	555	DRR	Ca_16180	--	ERF
Ca7_P2_33639903	Ca7	33639903	TAAAA/TAAAA	TTTCACCGGAAAAACA ACA	TATTCACCCGACGATT TGG	59.4	467	DRR	Ca_16180	--	ERF
Ca7_P2_33640029	Ca7	33640029	TTA/T	CCAAATCGTCGGTGTG AATA	TTTTGGAGGAGATGTT TGGG	59.9	526	DRR	Ca_16180	--	ERF
Ca7_P2_33640082	Ca7	33640082	TAA/TAA	CCAAATCGTCGGTGTG AATA	CCTTTGTTGCTGGGA TCAT	59.9	614	DRR	Ca_16180	--	ERF
Ca7_P2_33640133	Ca7	33640133	CAAA/CAAAAATAAAA	CCAAATCGTCGGTGTG AATA	CCTTTGTTGCTGGGA TCAT	59.9	614	DRR	Ca_16180	--	ERF

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33644014	Ca7	33644014	TTTT/TTTTCTTT	GTGCCCCACAACCTCT GTTT	TGTTTTATCCAATCCA ACATCA	59.2	489	INTERGENIC	--	--	--
Ca7_P2_33644686	Ca7	33644686	TTTA/TTTATTA	TTTTCTCAATCAAGAGG CCA	CAATATGACATGACGG CTGG	59.9	581	INTERGENIC	--	--	--
Ca7_P2_33645082	Ca7	33645082	CTT/CTTT	TTGACATTGCGCTTCTG AAG	CAATATGACATGACGG CTGG	59.9	202	INTERGENIC	--	--	--
Ca7_P2_33648106	Ca7	33648106	GTAAT/GTAATTAAT	CAACTAAACAGGGGG ACCA	TTCATCCTAATGCTTAT TTGGGA	59.8	701	INTERGENIC	--	--	--
Ca7_P2_33648269	Ca7	33648269	AGANNNNNN/A	TGGGGTTTAAGCCCTC AAT	TTCATCCTAATGCTTAT TTGGGA	59.8	464	INTERGENIC	--	--	--
Ca7_P2_33648564	Ca7	33648564	A/AT	TCCCAAATAAGCATTAG GATGAA	GGGGGATATATTGAAT GAAGAAA	58.3	317	INTERGENIC	--	--	--
Ca7_P2_33649854	Ca7	33649854	GTTTT/GTTTT	CGTAGCATCCAGCGAT GTAA	GCATGCTGCAAGGGAT AGTT	60.2	548	INTERGENIC	--	--	--
Ca7_P2_33649877	Ca7	33649877	AGG/AG	CGTAGCATCCAGCGAT GTAA	GCATGCTGCAAGGGAT AGTT	60.2	548	INTERGENIC	--	--	--
Ca7_P2_33653219	Ca7	33653219	TAAAAAA/TAAAAAAA	TGCCACATCACCTAA TCA	TTGGAGTTGTGCCAAT GTGT	60.0	517	INTERGENIC	--	--	--
Ca7_P2_33655325	Ca7	33655325	GAAAAAAAAA/GAAAAAAAAA	GGCCTATGGCCTGACC TACT	CACCGAATACGGAACG ACTAA	60.0	724	INTERGENIC	--	--	--
Ca7_P2_33656965	Ca7	33656965	ATTTTTTTT/ATTTTTTTT	TATTGCGTGAGCAGCA AGAT	TCAAACCCCTAAACCC AAA	59.3	519	INTERGENIC	--	--	--
Ca7_P2_33660912	Ca7	33660912	ATATATAAGT/A	TCACCGATCAAACCGT GTA	TTGACACAATACGTGG CGTT	60.0	721	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33661063	Ca7	33661063	CAATGATT/CAATGATTAATGATT	TCACCGATCAAACCGTT GTA	TTGACACAATACGTGG CGTT	60.0	721	INTERGENIC	--	--	--
Ca7_P2_33662614	Ca7	33662614	ATTTTTTT/ATTTTTTTTT	AAGGCACTCAAACAAAT GGG	GGGAACATAATTAATGT GAACATTGTC	59.2	528	INTERGENIC	--	--	--
Ca7_P2_33662685	Ca7	33662685	TTATATATAT/TTATATAT	AAGGCACTCAAACAAAT GGG	TGAATTTGGATTTGTCA ATGATG	59.7	662	INTERGENIC	--	--	--
Ca7_P2_33662861	Ca7	33662861	CAAAAAA/CAAAAAAA	AAGGCACTCAAACAAAT GGG	TGAATTTGGATTTGTCA ATGATG	59.7	662	INTERGENIC	--	--	--
Ca7_P2_33662912	Ca7	33662912	ATTTTTTTTT/ATTTTTTTTT	AAGGCACTCAAACAAAT GGG	TGAATTTGGATTTGTCA ATGATG	59.7	662	INTERGENIC	--	--	--
Ca7_P2_33663454	Ca7	33663454	TA/TAA	GGTCCAACAAGTCACT CATGC	AGTCAACTCAACAGCT CATGGA	59.9	137	INTERGENIC	--	--	--
Ca7_P2_33664040	Ca7	33664040	AATAT/AATATATAT	TTGACCTTTTCCTTTC TTGA	TGTTGCATCACCACCTC TCC	59.7	530	INTERGENIC	--	--	--
Ca7_P2_33665039	Ca7	33665039	GT/GTT	TCCAATAGTTGATCCT GGTC	TTTTCCGCTCTGTTGCA GTG	59.9	736	INTERGENIC	--	--	--
Ca7_P2_33670297	Ca7	33670297	ATTTTTTTTTTT/ATTTTTTT	CCTAAAATTGCCATTC GGA	TTGAACGGTCGAGTTC TAACA	58.4	979	INTERGENIC	--	--	--
Ca7_P2_33671286	Ca7	33671286	CTTTT/CTTTTT	CCATTGGACCCACTCAT CTT	GTGTTATCCCCACGC TAGT	60.0	308	INTERGENIC	--	--	--
Ca7_P2_33671331	Ca7	33671331	ATTTTTTTTT/ATTTTTTTTT	CCATTGGACCCACTCAT CTT	GTGTTATCCCCACGC TAGT	60.0	308	INTERGENIC	--	--	--
Ca7_P2_33672380	Ca7	33672380	CATTA/CATTAATTA	CTCTGTGTTGGGCCAA GATT	TCACAGGAGACACGTA GATGAAA	59.8	347	DRR	Ca_16181	--	G2-like

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33673116	Ca7	33673116	TAA/TA	TGCCAATGTTGTTTTG CAT	TGCTGTGTTTGATTT GGA	60.1	349	DRR	Ca_16181	--	G2-like
Ca7_P2_33683185	Ca7	33683185	GCAAGTCA/GCA	GGGCATTTCAGGAATAT TGTTT	GATTGAGCCGAAAGTG AAGC	60.0	919	INTERGENIC	--	--	--
Ca7_P2_33683250	Ca7	33683250	CAA/CA	AAAAACGCAAGTCATCA TCCT	GATTGAGCCGAAAGTG AAGC	60.0	427	INTERGENIC	--	--	--
Ca7_P2_33684223	Ca7	33684223	TA/T	TTTTGATGGCCTTGATT GTG	GAAGGCCACACCAAAC TGAT	60.0	520	INTERGENIC	--	--	--
Ca7_P2_33699757	Ca7	33699757	GTTTTTTTTTT/GTTTTTTTTT	TTCATCCATGCTTTTTG GAA	GAAGGCCACAACCCAT AAAA	59.8	337	INTERGENIC	--	--	--
Ca7_P2_33706376	Ca7	33706376	TAAA/TAAA	GAAAATTCCAAAGGTGT AATTGCT	GAGTGCCGGAACAGAC AAAT	60.1	395	INTERGENIC	--	--	--
Ca7_P2_33707751	Ca7	33707751	GTGAATAGAGAATATTT/GT	TCTTTGTGAGGGCTGA GCTT	GATGGCAGCATTCCT AAAA	60.0	726	INTERGENIC	--	--	--
Ca7_P2_33707930	Ca7	33707930	AT/A	TCAAAATGAACTGGACC GAA	GATGGCAGCATTCCT AAAA	60.0	245	INTERGENIC	--	--	--
Ca7_P2_33708376	Ca7	33708376	ATTTTTTTTTTT/ATTTTTTTT	TTTTAGGGAATGCTGCC ATC	TGATGGTTGTCATGAA AATGG	59.2	638	INTERGENIC	--	--	--
Ca7_P2_33712983	Ca7	33712983	TGG/TG	TCCCATGGTCAATGACA AAA	TTCCACAAGTTCTACGT GCG	59.9	157	INTERGENIC	--	--	--
Ca7_P2_33713974	Ca7	33713974	ATTTTT/ATTTT	CTATGGGCCGACCTTG ATTA	CCAATTGGTCCCTCAG AAAA	59.9	699	INTERGENIC	--	--	--
Ca7_P2_33714022	Ca7	33714022	TAAAAAAA/TAAAAAAA	CTATGGGCCGACCTTG ATTA	CCAATTGGTCCCTCAG AAAA	59.9	699	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33714061	Ca7	33714061	ATTT/ATT	CTATGGGCCGACCTTG ATTA	CCAATTGGTCCCTCAG AAAA	59.9	699	INTERGENIC	--	--	--
Ca7_P2_33714298	Ca7	33714298	GTAT/GTATATAT	TGTTGCTCGAATGCTAA AGAAA	TTTTCTCATTCGGAGCT GTG	59.0	676	INTERGENIC	--	--	--
Ca7_P2_33716471	Ca7	33716471	ATTTTTTTT/ATTTTTTTTT	AAAAAGGTTATCGCGG TCATT	TGCGTAGAGCATCGTG TAAA	58.1	434	INTERGENIC	--	--	--
Ca7_P2_33717302	Ca7	33717302	GTTTTTTT/GTTTTTTT	GGCCAACGTGAAAGAG AAAA	TTCGGATTGAAATCTTG TTTGA	59.6	375	INTERGENIC	--	--	--
Ca7_P2_33719377	Ca7	33719377	CAAAAA/CAAAAAA	CGAGCTCGTATACACA GGACA	AGAGCGAGTTGTGGCT TGAC	60.6	640	INTERGENIC	--	--	--
Ca7_P2_33721387	Ca7	33721387	CTAGTAGTAGTA/CTAGTAGTAGTAGTA GTA	TTGCCACAACCAAGTTA CCA	TTGAATTCTCCATCGCA CTG	59.8	758	INTERGENIC	--	--	--
Ca7_P2_33725440	Ca7	33725440	CAAAAAAA/CAAAAAAAA	TGGAAGGAGGCAAAAA TCAC	CCAATTTATCGCTTCG GAAA	60.0	652	INTERGENIC	--	--	--
Ca7_P2_33726416	Ca7	33726416	T/TC	TAAAATTGCCGTGACGA TGA	TCGATTGAGATTGAAG GCTTTT	60.2	366	INTERGENIC	--	--	--
Ca7_P2_33736659	Ca7	33736659	TATTATTATAATTATTATA/TATTATTATA	ACGGCGTTTACCATCAA GAA	AAGTGAAACCCCTAAC GCGA	59.7	611	INTERGENIC	--	--	--
Ca7_P2_33737015	Ca7	33737015	GAAAAA/GAAAAAA	TCCGAACAACATCAACA TGAA	GCACAACGTGTTGCAG AAGT	60.0	470	INTERGENIC	--	--	--
Ca7_P2_33740406	Ca7	33740406	ACT/ACTCT	TTGGAGGATGGACTCA GAGC	ATGGTGCAACTGAGA ATCC	59.9	470	INTRON	Ca_16182	--	--
Ca7_P2_33745626	Ca7	33745626	CAAAAA/CAAAAAA	CTTGCCTCAACCTCTTC CAC	CCGTTTCATTCAACGG AGAG	60.6	750	DRR	Ca_16182	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33747403	Ca7	33747403	T/TG	GCGCGAAAAACAAATAA ATGTC	CCATGGGAAGTGGCAT TATC	60.2	202	INTERGENIC	--	--	--
Ca7_P2_33758707	Ca7	33758707	ACC/AC	CGAATTCAAACTCGG TCAT	ACAATTTGGCGGTGAG AAAC	60.0	452	DRR	Ca_16184	--	B3
Ca7_P2_33766122	Ca7	33766122	ATTT/ATTTT	AATATTTGGCTCCACCA CCA	GGGTTACAACTTCCT GCCA	60.0	564	INTRON	Ca_16185	--	--
Ca7_P2_33768087	Ca7	33768087	TAAAAAA/TAAAAAAA	TCAAATTAGGCTAGTTC ACCCC	AAAGGATGCACCAATG AAGC	60.1	431	INTERGENIC	--	--	--
Ca7_P2_33768316	Ca7	33768316	CTA/CTATA	GCTTCATTGGTGCATCC TTT	TCAGGCTAAAAGTGAA AACTCG	58.7	303	INTERGENIC	--	--	--
Ca7_P2_33768691	Ca7	33768691	TAAA/TAAAA	TCATGTGGGAAGAAA TTCA	AAAAAGACAAAACACC CTTGTA	58.4	577	INTERGENIC	--	--	--
Ca7_P2_33770305	Ca7	33770305	AA/AATA	CTGAAAATCGGTTTCGG TTTG	TTTTCATGCCCTAAATG CAA	59.1	433	INTERGENIC	--	--	--
Ca7_P2_33770529	Ca7	33770529	TAT/TATGAATATTAAT	CTGAAAATCGGTTTCGG TTTG	GGAATAATCGGGAAG AAAGAAA	60.0	795	INTERGENIC	--	--	--
Ca7_P2_33770972	Ca7	33770972	ATTTTTTTTT/ATTTTTTTTTT	TTTCTTTCTCCCGATT TAGTCC	TGGCTCGTTGGGCTAG ATTA	60.7	639	INTERGENIC	--	--	--
Ca7_P2_33771073	Ca7	33771073	GA/G	TTTCTTTCTCCCGATT TAGTCC	TGGCTCGTTGGGCTAG ATTA	60.7	639	INTERGENIC	--	--	--
Ca7_P2_33772575	Ca7	33772575	ATTTTTTTTT/ATTTTTTTTTT	TGGATTTTGTGGATG CAG	TTCCCAACTTTTCAAAA TATCCA	59.7	512	INTERGENIC	--	--	--
Ca7_P2_33774070	Ca7	33774070	CAAA/CA	TTATGGCCCGCTAAAT GAC	TGCTTGACAGAGTTTG GATA	60.4	776	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_33775388	Ca7	33775388	TAAAAAAA/TAAAAAA	TTTTGACGGAACG ACC	TCGTGCATCCTCACTC TCAC	60.0	368	INTERGENIC	--	--	--
Ca7_P2_33779864	Ca7	33779864	CA/CAA	AAATCGAGTTTGAGCG GAA	GCCAAAAGATTGTGG ATCA	58.5	614	INTERGENIC	--	--	--
Ca7_P2_33781250	Ca7	33781250	AA/AATA	TTGAGGTGACTAAAGCT CCGA	TCGAACCACACAGAAT TCCA	60.1	379	INTERGENIC	--	--	--
Ca7_P2_33781676	Ca7	33781676	ATT/ATTATTT	ATGGAATTCTGTGTGGT TCG	TCGTAATACCAGCATC ATCAA	58.2	508	INTERGENIC	--	--	--
Ca7_P2_33782058	Ca7	33782058	ATTTTT/ATTTTTTT	CGTAGACATGTTTTGTC ATTTCA	TTTGGAAAAGCATGGA TCATT	59.4	656	INTERGENIC	--	--	--
Ca7_P2_33782406	Ca7	33782406	CAAAAAAAAA/CAAAAAAAAA	CAGGTGTCTGTATGAG AAAACGA	CAAACGGAGAGGGATG AAGA	60.2	366	INTERGENIC	--	--	--
Ca7_P2_33786874	Ca7	33786874	CTTTT/CTTT	TGAGTTTACCACCTCG TCC	AATATCTCAACATGCC CCG	59.8	121	INTRON	Ca_16186	T	bHLH
Ca7_P2_3379457	Ca7	3379457	AATATATATATATATATATATATAT AT/AATATATATATATATATATATATAT	AAAAACCATCTTGATC CTTT	TCCTTGGCCTTGACT TCTA	59.8	330	INTRON	Ca_03127	T	C3H
Ca7_P2_33795076	Ca7	33795076	TAAAAAAAA/TAAAAAAAA	GGTGTACAAAAGGCC CAAA	AAGGATATGATGAAG GCCA	59.3	408	INTRON	Ca_16187	--	--
Ca7_P2_33795392	Ca7	33795392	GAAAAAAAA/GAAAAAAAA	TGGCCCTTCATCATC CTT	TAAACGAAGCTATGCC CCAC	60.1	441	INTRON	Ca_16187	--	--
Ca7_P2_33795500	Ca7	33795500	CTTTTTT/CTTTTTTT	TGGCCCTTCATCATC CTT	TAAACGAAGCTATGCC CCAC	60.1	441	INTRON	Ca_16187	--	--
Ca7_P2_33795817	Ca7	33795817	AAATGAAATGAAATG/AAATGAAATG AAATGAAATG	GTGGGGCATAGCTTCG TTTA	TTCCCGGGTAACACA ATAA	60.0	359	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_33798020	Ca7	33798020	TTT/TTTACATT	TTCTGCGCAGGATACC TTTT	GCACAGTCAGATGCAA TGCT	60.0	741	INTERGENIC	--	--	--
Ca7_P2_33798138	Ca7	33798138	GAAAAAAAA/GAAAAAAAA	TCGCAGTTGGATATTCG AGA	GCACAGTCAGATGCAA TGCT	60.0	552	INTERGENIC	--	--	--
Ca7_P2_33803283	Ca7	33803283	TTTA/T	TGAGGATGGAATGGGT TTTG	CTTTGGTTTCACATTGG GCT	60.0	555	DRR	Ca_16188	P	GRAS
Ca7_P2_33806939	Ca7	33806939	AAAAAATTAATAATAATAATAATA AAAAATTAATAATAATA	AGGCATAGGCACAGGA AAGA	TTCGATAGTCGCACAA CCAC	59.7	842	INTERGENIC	--	--	--
Ca7_P2_33806992	Ca7	33806992	CTTTTTTTTT/CTTTTTTTTT	TCCAATCCAAGAGCTAA ACCA	TTCGATAGTCGCACAA CCAC	59.7	465	INTERGENIC	--	--	--
Ca7_P2_33810205	Ca7	33810205	TAAAAAAAA/TAAAAAAAA	AACTCAACGCCAAACCA GAC	CCATGCTTGGATTTTTG CTT	60.1	232	INTRON	Ca_16189	--	C3H
Ca7_P2_33810289	Ca7	33810289	ATT/ATTT	AACTCAACGCCAAACCA GAC	CCATGCTTGGATTTTTG CTT	60.1	232	INTRON	Ca_16189	--	C3H
Ca7_P2_33812293	Ca7	33812293	TCACA/TCACACA	TTGGATGAAAGAGACAA GCAAA	GTATCCATGAATTGGG GGTG	59.9	687	DRR	Ca_16189	--	C3H
Ca7_P2_33813164	Ca7	33813164	TAA/TA	TAAAAGAATTGCATTGG CCC	GGAAGAGTGATCCTCA AACCC	59.9	471	INTERGENIC	--	--	--
Ca7_P2_33813410	Ca7	33813410	TGGG/TGGGG	TAAAAGAATTGCATTGG CCC	GGAAGAGTGATCCTCA AACCC	59.9	471	INTERGENIC	--	--	--
Ca7_P2_33813643	Ca7	33813643	TAAA/TAAAA	CAGCTGGATATTGGAT GGAGA	GAAGGGCTAGTGCCAA GTGA	60.4	567	INTERGENIC	--	--	--
Ca7_P2_33814827	Ca7	33814827	TAT/TATTATAGTTTTTAACCAT	TGTTTGATGGCGTTAAT GTGA	TCTTTAATCTTTGCAAA TCAATGG	59.5	422	DRR	Ca_16190	E	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33815491	Ca7	33815491	GT/GTT	TTTGTTTTCATGCATGT GTCC	TCTGCATGGCAGTGAA TAGC	60.0	162	DRR	Ca_16190	E	--
Ca7_P2_33815769	Ca7	33815769	TAAA/TA	ATGGCTATTCACTGCCA TGC	ATCATCCTTGGTCCCG AATA	59.2	434	DRR	Ca_16190	E	--
Ca7_P2_33816137	Ca7	33816137	ATTT/ATT	ATATTCGGGACCAAGG ATGA	TGCACAATTTGCCTCA AGA	60.4	426	DRR	Ca_16190	E	--
Ca7_P2_33820036	Ca7	33820036	GA/GATA	AGGGTATTGAGGATG GGAC	ATAGAGCGAGCATGGC AGAT	60.0	452	INTRON	Ca_16190	E	--
Ca7_P2_33821080	Ca7	33821080	AAAAACAAAACAAA/AAAAACAAA	TGGCCAAGAGACTGAG GATT	AATCATGTTGGAAATG GGGA	60.0	169	INTRON	Ca_16190	E	--
Ca7_P2_33821649	Ca7	33821649	CTATATAT/CTATAT	ATTCCCCATTCCAACA TGA	AAACACATGCCTTATTG CCC	59.8	553	INTRON	Ca_16190	E	--
Ca7_P2_33823403	Ca7	33823403	ATTTTTTTT/ATTTTTTTTTT	GGGAATCAGAAGCCAT TGAA	CGAAACGCGACTAGTA ACCA	59.0	552	INTERGENIC	--	--	--
Ca7_P2_33823687	Ca7	33823687	AAATTTTTTTTT/A	CTAGAGGTTGCCCCAC GTTA	TGGGAAATGATGCATG GTAA	59.7	857	INTERGENIC	--	--	--
Ca7_P2_33826671	Ca7	33826671	C/CTGAA	TCAGACCATGCTAACCC ACA	CCTGTGCGAAAACACG AATA	59.7	602	INTERGENIC	--	--	--
Ca7_P2_33829323	Ca7	33829323	ATTTTTTT/ATTTTTTTTT	TGTTGACCATGACCCCT ACA	TGCAAAATTCATCAAA CCA	57.5	915	INTERGENIC	--	--	--
Ca7_P2_33829588	Ca7	33829588	CTTTTTTT/CTTTTTTTTTT	CAAAGAAGCATCTCAAG AAAGAA	TGCAAAATTCATCAAA CCA	57.5	708	INTERGENIC	--	--	--
Ca7_P2_33830731	Ca7	33830731	T/TC	GGGGAGAAACGAATAA TCCC	GGTAACTTCCATTGCC GAAA	59.9	259	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33843751	Ca7	33843751	TTTCTATTTTCTCCTCT/TT	TAGAGCATGGCATTCCA	GGCCTTTAAATTGGGCTTC	59.9	229	DRR	Ca_16192	--	NAC
Ca7_P2_33844899	Ca7	33844899	TCATGCATG/TCATG	AATTTCTCCCACTACGCT	TGGGGAACAAAGAATCC	59.8	216	INTRON	Ca_16192	--	NAC
Ca7_P2_33846722	Ca7	33846722	T/TA	GCTGTGCTCCAACCTCTTTC	CAGCGTGCACATGGATTAGT	59.7	544	INTRON	Ca_16192	--	NAC
Ca7_P2_33846814	Ca7	33846814	A/AG	GCTGTGCTCCAACCTCTTTC	CAGCGTGCACATGGATTAGT	59.7	544	INTRON	Ca_16192	--	NAC
Ca7_P2_33847996	Ca7	33847996	ATAAAT/A	ATCCATTTCGAAGGACACCA	AAAATGTGGAGGTGCCAAAG	60.0	597	INTRON	Ca_16192	--	NAC
Ca7_P2_33855265	Ca7	33855265	GTTTTT/GTTTT	TCCAGAAGATGGTGAGAGTGG	ACTTGATTGCACATGGATCG	59.5	578	INTERGENIC	--	--	--
Ca7_P2_33855439	Ca7	33855439	CAA/CA	TCCAGAAGATGGTGAGAGTGG	ACTTGATTGCACATGGATCG	59.5	578	INTERGENIC	--	--	--
Ca7_P2_33855544	Ca7	33855544	CT/C	TGCAACATTTTACTCAATCCG	ACTTGATTGCACATGGATCG	59.5	137	INTERGENIC	--	--	--
Ca7_P2_33855578	Ca7	33855578	ATTTTTTT/ATTTTTTT	CGATCCATGTGCAATCAAGT	TCCAACAAGCGATTCTT	59.7	497	INTERGENIC	--	--	--
Ca7_P2_33856959	Ca7	33856959	GAAAAAAA/GAAAAAA	TCCATCATAAATCTGTGCC	ACTTTTGCTCTGGCTTCAA	60.0	161	INTERGENIC	--	--	--
Ca7_P2_33857578	Ca7	33857578	TAA/T	GGCATGACATTCAAGAGCATT	GCCTCGTTTCATTTAATCTGC	58.8	333	INTERGENIC	--	--	--
Ca7_P2_33859459	Ca7	33859459	AAG/A	AAAATGCGAAGATGTTTACGG	CTTCACCCTCTCGTAGCACC	59.9	768	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33859544	Ca7	33859544	ATTTTTTTTT/ATTTTTTTTTTTTT	AAAATGCGAAGATGTT ACGG	CTTCACCCTCTCGTAG CACC	59.9	768	DRR	Ca_16193	U	--
Ca7_P2_33862970	Ca7	33862970	GAAAAAA/GAAAAAAA	TTGGACACCAGACCCA AAAT	GGGGAGGGGTCTTAC TGAG	59.9	887	INTRON	Ca_16193	U	--
Ca7_P2_33871498	Ca7	33871498	CAAAAAAAAA/CAAAAAAAAA	CTTTGGTTGTGCTGTG TGG	CCCCAATTCAGTTTATA ACCCA	59.9	628	INTERGENIC	--	--	--
Ca7_P2_33872304	Ca7	33872304	T/TG	TCATGCCACTTTAATGC CTG	TGCCAACCTTAAACCA CAGA	59.2	507	INTERGENIC	--	--	--
Ca7_P2_33873263	Ca7	33873263	TAAAAAAAA/TAAAAAAAA	AACCACGATTGGACCA GAAG	CGTTTGATTCACTCAG GCAA	59.8	301	INTERGENIC	--	--	--
Ca7_P2_33873981	Ca7	33873981	ACTCT/ACT	TTTTTGCGAAATCAGAA CGG	TCGAGAGATACTAGGA TGTCGT	60.3	659	INTERGENIC	--	--	--
Ca7_P2_33877621	Ca7	33877621	TACAATG/TACAATGTGTACTACAACA TG	TTGTGCATGTATTGG CTTG	CGGGGGTATTCTGTG AAGA	59.9	544	INTRON	Ca_16194	O	--
Ca7_P2_33878007	Ca7	33878007	GCTCTCTCTCTCTCTCTCTCTCT/CT GCTCTCTCTCTCTCT	CCATATTGTGGCTCGT CTT	AAAAAGGTGTTCCCTC GCTT	60.1	660	INTRON	Ca_16194	O	--
Ca7_P2_33880924	Ca7	33880924	TAAAAAA/TAAAAAAA	TTTTTGAATGATTGCT TGAATTT	CCGTTTCACTTTACCTT CGC	59.7	711	DRR	Ca_16194	O	--
Ca7_P2_33881967	Ca7	33881967	TG/TGG	TCCGACAAAAGCTTCAC ACA	AGTTGGTGTGGAGATG GAGG	60.0	502	INTERGENIC	--	--	--
Ca7_P2_33893049	Ca7	33893049	GTTTTTTTTT/GTTTTTTTTT	ACATATCAATCGAAAAG GCG	ATGTACCAATGCGTCG TCAA	60.0	442	INTERGENIC	--	--	--
Ca7_P2_33894476	Ca7	33894476	CAA/CA	ATGCATCAAGGTGTCG TCAA	CCCGTGAAATGTCTTG GAGT	60.0	907	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_33895177	Ca7	33895177	CTTTT/CTTTT	ACTCCAAGACATTTAC GGG	GCATGCAATTCACGCA TTAT	59.6	340	INTERGENIC	--	--	--
Ca7_P2_33895271	Ca7	33895271	TGG/TG	ACTCCAAGACATTTAC GGG	AAAATCATATTCTCTAA CCGCCTC	59.1	675	INTERGENIC	--	--	--
Ca7_P2_33910425	Ca7	33910425	ACC/ACCGCAGGAAATCC	CAGTTGTAATCCGCA GCAA	TGGTATTATCTGCGGA AGCC	60.1	419	INTERGENIC	--	--	--
Ca7_P2_34017707	Ca7	34017707	TAAAAAAAA/TAAAAAAAAA	TGCATTTTGGTTTGTG AGT	CCCACCAAGTAGGAAC GAAA	60.0	731	INTERGENIC	--	--	--
Ca7_P2_34080547	Ca7	34080547	AT/A	AGGCAGGGGCAACTAA AGAT	TTTGTGGGGTGCTTA GTTC	60.0	446	INTRON	Ca_16200	--	--
Ca7_P2_34087820	Ca7	34087820	GAAAAAA/GAAAAAA	AAGTGGAGCAACCCCT TTTT	AGGTTTCAACCTAGC GGGT	60.0	448	INTRON	Ca_16200	--	--
Ca7_P2_34108186	Ca7	34108186	AT/ATTT	CGCAGGAAAAACGTCA ATTT	CGAAAAATGCGACGCA ACAA	59.6	643	INTERGENIC	--	--	--
Ca7_P2_34108298	Ca7	34108298	AT/ATTT	CAAAGGGTGTGCTGAG AGAA	CGAAAAATGCGACGCA ACAA	59.6	479	INTERGENIC	--	--	--
Ca7_P2_34108455	Ca7	34108455	TAAAAAAAA/TAAAAA	TTGTTGCGTCCATATT TCG	TCTTTTGGCCCTCTT GTA	59.7	497	INTERGENIC	--	--	--
Ca7_P2_34109983	Ca7	34109983	GAA/GAAAA	TCGGGACCCACTTATT GAC	AAAATTGTGTGGTGGT GGGT	60.0	497	INTERGENIC	--	--	--
Ca7_P2_34116846	Ca7	34116846	ATTTTTT/ATTTTTTT	GATTTGACGTCTGTCT CGG	AGAATTGGCAGATTCTG ATGG	60.0	571	INTERGENIC	--	--	--
Ca7_P2_34117104	Ca7	34117104	CTC/CTCTTATC	GATTTGACGTCTGTCT CGG	AGAATTGGCAGATTCTG ATGG	60.0	571	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_34136390	Ca7	34136390	T/TA	TGCCATTAAATCTTGC CTC	AGGCTGATTCTCCCTT GGAT	60.0	458	INTRON	Ca_21006	K	ERF
Ca7_P2_34138307	Ca7	34138307	GTTTTTTTTT/GTTTTTTTTT	CAAGATGCACAGGAGT GGAA	GGACAAAGCATTCCCC ACTA	59.9	451	INTRON	Ca_21006	K	ERF
Ca7_P2_34143500	Ca7	34143500	CA/CAA	AATGAGATGCCGATTTT TGC	AATGTTACCTTGCAGG ACCG	60.0	615	INTRON	Ca_21006	K	ERF
Ca7_P2_34150274	Ca7	34150274	GAAA/GAAAA	TGTCATTGCTGACAAG GGAA	CAGGGCATTGTTTTCC TCAT	59.9	220	INTRON	Ca_21006	K	ERF
Ca7_P2_34150943	Ca7	34150943	ATTTTTT/ATTTTTTT	GGTGTTCATTTCCAC CTG	AACCCCTCAAAATCAC ACG	59.8	683	INTRON	Ca_21006	K	ERF
Ca7_P2_34156629	Ca7	34156629	CAAAA/CAAA	TGCAGAAATTGGAATAG GGC	CCAGTCGACAACGAAG CATA	60.0	763	INTRON	Ca_21006	K	ERF
Ca7_P2_34157789	Ca7	34157789	TGT/TGTTTAAGT	TCCTCTTCTGGGATTC CTT	TGAACACCGTCAAGGT GAAA	60.1	623	INTRON	Ca_21006	K	ERF
Ca7_P2_34158247	Ca7	34158247	ATTTTT/ATTTTTT	AGTGAACCTCCCAATG ACG	GAGATTGACCGCCATT TCAT	59.9	590	INTRON	Ca_21006	K	ERF
Ca7_P2_34167836	Ca7	34167836	CATTATTA/CATTA	CATGCAGCTGTCGAGT GAAT	CCTCCAGTCAAGAAA CCGA	60.2	709	DRR	Ca_21006	K	ERF
Ca7_P2_34173121	Ca7	34173121	TAAAAAAA/TAAAAAA	TCGGCAACCTAATTCAA ACC	AATGCGTAACATTGAC CCC	59.7	609	INTERGENIC	--	--	--
Ca7_P2_34173546	Ca7	34173546	GT/GTATCT	TGGGGTCAAATGTTAC GCAT	TTTGATCTTCTCGGTC GCT	60.0	499	INTERGENIC	--	--	--
Ca7_P2_34173682	Ca7	34173682	A/AT	TGGGGTCAAATGTTAC GCAT	TTTGATCTTCTCGGTC GCT	60.0	499	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_34174102	Ca7	34174102	CTTTTTTT/CTTTTTTTTT	AGCGACCGAAGAAGAT CAAA	GCTTGCATTTGGGTG AGAT	60.1	509	INTERGENIC	--	--	--
Ca7_P2_34174405	Ca7	34174405	ATT/AT	TGGATTTGTGATGCTCT GGA	GAGGAGCTCTTCTTCT TGGCT	59.4	241	INTERGENIC	--	--	--
Ca7_P2_34174998	Ca7	34174998	TA/TAA	CACACAATTGACGTAGT GCG	TTTAATTCCACAACGAG GGG	59.8	113	INTERGENIC	--	--	--
Ca7_P2_34175111	Ca7	34175111	T/TATTATA	CCCCTCGTTGTGGAATT AAA	TCATTGGCAACAACAA CACA	59.6	536	INTERGENIC	--	--	--
Ca7_P2_34176709	Ca7	34176709	TTTTATTT/TTTT	AGCGTTGAAATTATGGA CCG	TCGTTTGTGTGCAATT GTTTC	59.6	682	INTERGENIC	--	--	--
Ca7_P2_34186205	Ca7	34186205	TTC/TTCGTC	TATTAGGATCCGTAAAC CGC	CAGAGCCGGAAGAGA AATG	59.9	369	INTERGENIC	--	--	--
Ca7_P2_34187425	Ca7	34187425	GAA/GAAA	AGGTCTGGATTCTGTGG TTTG	ACATCCGTGCAAGGAA AAAG	60.1	646	INTRON	Ca_21004	S	--
Ca7_P2_34189529	Ca7	34189529	CTTT/CTTCTTTATTTT	TGTGCATCGTATTCACC TCG	GGGAAACAAATGCCTG AATG	60.3	511	DRR	Ca_21004	S	--
Ca7_P2_34189544	Ca7	34189544	T/TATTTTAA	TGTGCATCGTATTCACC TCG	GGGAAACAAATGCCTG AATG	60.3	511	DRR	Ca_21004	S	--
Ca7_P2_34189872	Ca7	34189872	AATAT/AAT	CATTCAGGCATTGTGTT CCC	AAAAACTAGGGCTATT GGAGC	58.1	594	DRR	Ca_21004	S	--
Ca7_P2_34189939	Ca7	34189939	ATTTTTTT/ATTTTTT	CATTCAGGCATTGTGTT CCC	TTGGTTCTTTTGCATCT TCG	58.9	700	DRR	Ca_21004	S	--
Ca7_P2_34190282	Ca7	34190282	GTTTTTTTT/GTTTTTTTTT	AACAATCGAACTACTTG CGTGA	TTGGTTCTTTTGCATCT TCG	58.9	564	DRR	Ca_21004	S	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_34190333	Ca7	34190333	AAG/AAGAG	TCGAAGTACTTGCCTGA GAA	TTGGTTCTTTTGCATCT TCG	58.9	559	DRR	Ca_21004	S	--
Ca7_P2_34190508	Ca7	34190508	AT/A	TCGAAGATGCAAAAGAA CCA	AAAGGTGACACATCCT TTGCTT	60.0	189	DRR	Ca_21004	S	--
Ca7_P2_34191630	Ca7	34191630	TAAA/TAAAA	TGGTTCAAAATTCGGAC TCAA	GTTTCATCGCCATTGA AGTT	60.1	795	INTERGENIC	--	--	--
Ca7_P2_34195712	Ca7	34195712	AT/ATTT	GAGGCTCCATATTGCG AAAA	AGGCTAACACCATTCG CAAC	60.0	189	DRR	Ca_21002	--	WRKY
Ca7_P2_34195793	Ca7	34195793	TAAAAAAAAA/TAAAAAAAAA	GAGGCTCCATATTGCG AAAA	AGGCTAACACCATTCG CAAC	60.0	189	DRR	Ca_21003	O	FAR1
Ca7_P2_34196242	Ca7	34196242	GTTT/GTT	GTTGGCAATGGTGTTA GCCT	TTGAGGGTTGCTTTTG TTGTT	59.6	771	DRR	Ca_21002	--	WRKY
Ca7_P2_34203381	Ca7	34203381	A/AATATATAGGTAG	GTAAGCTGGCAAGCA CGAT	CCCAGAACAAAAGTTG GTGAA	60.0	725	INTERGENIC	--	--	--
Ca7_P2_34204538	Ca7	34204538	CATTTCAATTTCAATTTCAATTTCA/CAT TTCAATTTCAATTTCA	AGCATTGCGCGTAAAG AGAT	AAACCGGAGAAAAATG GTGA	59.4	126	INTERGENIC	--	--	--
Ca7_P2_34204877	Ca7	34204877	TA/TAAA	AGCATTGCGCGTAAAG AGAT	TGATGTTACATGACGT GTTTGG	59.4	665	INTERGENIC	--	--	--
Ca7_P2_34213991	Ca7	34213991	TCAGAATTACAGAATTACAG/TCAGAAT TACAG	TGCGCGATCTCTAATCA ATG	CGGCAACCTTACCTCA ACTC	59.7	763	INTERGENIC	--	--	--
Ca7_P2_34218591	Ca7	34218591	AC/A	AGGAGGGCAAGAAGGG TAAA	TCAACCTTCCAAATGC TTC	60.1	598	INTRON	Ca_20999	L	--
Ca7_P2_34226505	Ca7	34226505	AAATA/AA	AACACCAATCGCTCTTC CAC	GAGGGAACCACTCACT CAAA	59.9	889	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_34226865	Ca7	34226865	TTCTCTCTCTCTCTCTCTCT/TTCTCTCTCTCTCTCTCTCTCT	GCGAATCAATGTTCA AGC	GAGGGAACACCACTC CAAA	59.9	196	INTERGENIC	--	--	--
Ca7_P2_34229450	Ca7	34229450	GATAT/GAT	GCATTGGAAGCGAATG GTAT	AGCCAGCCAGCTAAAA TTCA	60.0	435	INTRON	Ca_20998	--	--
Ca7_P2_34231302	Ca7	34231302	CTTTTTTTTT/CTTTTTTTTT	CGGTGATGACGATACT GGTG	GCATCCCAGAAATGCA TAAAA	59.9	167	DRR	Ca_20998	--	--
Ca7_P2_34237601	Ca7	34237601	TTG/TTGGTTTTGGTTATG	TGGGAGGATGAGATGA GACC	CAAGGAACCATCCATT GCT	59.9	590	INTERGENIC	--	--	--
Ca7_P2_34238466	Ca7	34238466	TAAA/TAA	AGCAAATGGATGGTTC CTTG	AATGCAGCTCCACACG TTTA	59.3	915	INTERGENIC	--	--	--
Ca7_P2_34238786	Ca7	34238786	TAAA/TAA	ACACAAATTTAATATGG ATTGAGTACA	CAAAGCAAAACAAAGT GCCA	59.9	426	INTERGENIC	--	--	--
Ca7_P2_34240747	Ca7	34240747	ATTT/ATTTTT	ATCCTCCAATGTCATGC CTC	CAACCAAGTCCACATG ATGC	60.0	676	INTERGENIC	--	--	--
Ca7_P2_34241176	Ca7	34241176	TAA/TA	GCATCATGTGGACTTG GTTG	CAAAGCTACCACACCT TACTTGC	60.2	550	INTERGENIC	--	--	--
Ca7_P2_34241485	Ca7	34241485	CTTTT/CTT	TGGTTGTTCCATCACAT GTCT	CAAAGCTACCACACCT TACTTGC	60.2	536	INTERGENIC	--	--	--
Ca7_P2_34241943	Ca7	34241943	CTTT/CTTTTT	GCAAGTAAGGTGTGGT AGCTTTG	CCTTTCGTTAACTTTCG TCCC	60.0	920	INTERGENIC	--	--	--
Ca7_P2_34246463	Ca7	34246463	TCC/TC	GTTGGCGGTCAATAGT CGAT	ACACGATCCATTGCAA GATG	59.5	417	INTERGENIC	--	--	--
Ca7_P2_34247804	Ca7	34247804	TTA/TTATA	CAAGACATGTTCATCCC CCT	TGGAGAAGTTGGCTTT GGTC	60.2	496	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_34248331	Ca7	34248331	GAA/GA	GACCAAAGCCAATTCT CCA	CGGAAGAAGGCGAATT TTCT	60.7	394	INTERGENIC	--	--	--
Ca7_P2_34251183	Ca7	34251183	AAT/A	AACCATGGGAACCAATT GAA	TGGCCCAATGGATCAT TTAT	60.0	748	INTERGENIC	--	--	--
Ca7_P2_34252286	Ca7	34252286	ATTTT/ATTT	AAGCTGTGGATCGGTT ATGG	TTCAATGAGGATGTCC CCTC	59.9	691	INTRON	Ca_20996	S	--
Ca7_P2_34256619	Ca7	34256619	TCA/TCACA	CGGAGTGGACTCTAAC CCAA	TTAGGTGATTCTATGC GCCC	60.1	532	DRR	Ca_20996	S	--
Ca7_P2_34274334	Ca7	34274334	AAATTATTTTCAA/AAA	AAAACCAACCGAGTCATC AGC	AGCCCGTTTGCTACCT TTTT	60.1	555	DRR	Ca_20991	--	M-type
Ca7_P2_34274392	Ca7	34274392	TAAA/TAAA	ACCACCGAGTCATCAG CTCT	AGCCCGTTTGCTACCT TTTT	60.1	552	DRR	Ca_20991	--	M-type
Ca7_P2_34276112	Ca7	34276112	TG/TGG	ACCTAACATTGCCATC TGC	CTGCTGCCACAACAAA GTGT	59.9	738	INTRON	Ca_20991	--	M-type
Ca7_P2_34276465	Ca7	34276465	ATTCAC/A	ACACTTTGTTGTGGCAG CAG	CGTTGCCACAGTGATT TTGT	59.6	493	INTRON	Ca_20991	--	M-type
Ca7_P2_34277307	Ca7	34277307	T/TG	CAATGGCAGAAGAAGC ACAA	TTTGTGGTGCCAGTGT GAAT	60.0	335	INTERGENIC	--	--	--
Ca7_P2_34278471	Ca7	34278471	T/TAAATAC	TTTGACCCATCAAAATCA TCAAA	CCTTCGCCATTTAATT TGG	59.4	102	INTERGENIC	--	--	--
Ca7_P2_34282554	Ca7	34282554	ATT/A	AAACAATTGCCGTCCTT CAG	CCTCCGACTTGTGTCC ATTT	60.0	560	INTRON	Ca_20990	A	--
Ca7_P2_34282882	Ca7	34282882	TAAA/TAAAA	TGCAGCATGGAACATT GAT	CCTCCGACTTGTGTCC ATTT	60.0	199	INTRON	Ca_20990	A	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_34283590	Ca7	34283590	ATTT/ATTTTT	TTTGTGCACTGATGCT TCA	TTGCTCGCATATGGT TATG	59.5	355	DRR	Ca_20990	A	--
Ca7_P2_34283928	Ca7	34283928	C/CAT	CATAACCCATATGCGAG CAA	TCCATGAATTTGTCAAC CGA	59.9	662	DRR	Ca_20990	A	--
Ca7_P2_34283992	Ca7	34283992	GAAAAAAAA/GAAAAAAAA	CATAACCCATATGCGAG CAA	TCCATGAATTTGTCAAC CGA	59.9	662	DRR	Ca_20990	A	--
Ca7_P2_34286263	Ca7	34286263	TAAAAAAA/TAAAAA	ACGTCAGACATTGGAT GTGC	TTGTTTTCAAGGAGTTG CGA	59.4	666	INTERGENIC	--	--	--
Ca7_P2_34286325	Ca7	34286325	A/AAATAT	ACGTCAGACATTGGAT GTGC	TTGTTTTCAAGGAGTTG CGA	59.4	666	INTERGENIC	--	--	--
Ca7_P2_34286533	Ca7	34286533	AAG/AAGAG	CCTCTAAAAATGGAAA TGACCA	GTCTCTGCCGCTGAAC TCTT	59.8	793	INTERGENIC	--	--	--
Ca7_P2_34290113	Ca7	34290113	T/TAG	TTTTGAACAGAACCAAG GGC	GAAGAGAAAAGCCGGT GTTG	59.9	362	INTRON	Ca_20989	K	NAC
Ca7_P2_34295146	Ca7	34295146	AATTTGT/AATTTGTTATCTATTTGT	CCAACTGGCCTAGGAT GAAA	TGGGAGAAAAACAAGC AAGG	60.2	579	INTERGENIC	--	--	--
Ca7_P2_34297810	Ca7	34297810	CAAAAA/CAAAAAA	CCTGTTGGTTTCAGATT CCG	CGAGCACACAAGAAAA ACCA	59.9	273	INTRON	Ca_20988	--	NAC
Ca7_P2_34298583	Ca7	34298583	CTT/CT	CATGCTGTCACCTTTGA GGA	TTGTTTCTCTGTAGCA CCG	60.1	590	INTRON	Ca_20988	--	NAC
Ca7_P2_34305236	Ca7	34305236	AATCATAACCATCATAACCATCATA/AAT CATAACCATCATA	ACCGATGCATTGATGAA GGT	CAATGGTGTGCTTGTA ACCG	60.0	806	INTERGENIC	--	--	--
Ca7_P2_34305420	Ca7	34305420	CT/CTT	TGCAACTCTAGATGTGA GCCA	CAATGGTGTGCTTGTA ACCG	60.0	727	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_34308816	Ca7	34308816	CATATATATA/CATATATATATATATA	TCCTCAAACGCAATCA CCA	CACGCACATGTAGCTG CTTT	60.1	484	INTERGENIC	--	--	--
Ca7_P2_34312118	Ca7	34312118	AAATTAAT/AAAT	TTGCTAATTGCTAATTG CTTTG	TGGAGTGAGTGTGAGA AAGGAG	59.5	388	INTERGENIC	--	--	--
Ca7_P2_34312433	Ca7	34312433	GATAAATA/GATA	CTCCTTTCTCACACTCA CTCCA	TTGGTGGACTTCCCAA CTTC	59.9	515	INTERGENIC	--	--	--
Ca7_P2_34312582	Ca7	34312582	TAA/TAAA	CTCCTTTCTCACACTCA CTCCA	TTGGTGGACTTCCCAA CTTC	59.9	515	INTERGENIC	--	--	--
Ca7_P2_34312678	Ca7	34312678	ATTTTTTTTT/ATTTTTTTTT	CTCCTTTCTCACACTCA CTCCA	TTGGTGGACTTCCCAA CTTC	59.9	515	INTERGENIC	--	--	--
Ca7_P2_34314534	Ca7	34314534	ATTTTTTT/ATTTTTTT	AAGATGGCCTCAACCT ATTCA	TTGACAATTGTTAGAAG TGATTCCA	59.9	453	INTERGENIC	--	--	--
Ca7_P2_34314899	Ca7	34314899	TAAA/TAAAAA	GCCTTAAGCATACTTTT GGTCA	TTGCACCCGTAGTATT GTGG	59.5	708	INTERGENIC	--	--	--
Ca7_P2_34315993	Ca7	34315993	GT/GTATTTA	AACAAAAGATTGAATTG AAAGACA	TCTTCTAGGGGTGAGA CCCA	59.6	555	INTERGENIC	--	--	--
Ca7_P2_34317231	Ca7	34317231	TT/TTAT	TGGAATTTGTATGCGAG ACG	TCAAATGCTTTGCAACT TGG	59.8	633	INTERGENIC	--	--	--
Ca7_P2_34317406	Ca7	34317406	ATATA/ATATAGTATA	TGGAATTTGTATGCGAG ACG	GCAGGGTTTTTGTTTTT GGA	60.0	896	INTERGENIC	--	--	--
Ca7_P2_34318595	Ca7	34318595	CATTATTACAGATT/CATTATTACAGAT TTATTATTACAGATT	TCAATGACTGTGACAAA ATCCA	GCTAGCAGCCACCTTC TTTG	60.2	503	INTERGENIC	--	--	--
Ca7_P2_34319877	Ca7	34319877	CTTGTTGTTGTTGTTGTTGTTGT/C TTGTTGTTGTTGTTGTTGTTGT	CCACACTCCATGTTAC ACC	AGCACCACCATCAATG TCAA	60.0	246	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_34321055	Ca7	34321055	AA/AATA	CTCCAAGCCATGTTGG ATTT	CATTTTCCCTCCCAA TTT	60.0	382	INTERGENIC	--	--	--
Ca7_P2_34321138	Ca7	34321138	GAAAAAA/GAAAAA	AAATTGGGGAGGGAAA AATG	TGAAGGCACCGACTCT TACA	59.4	247	INTERGENIC	--	--	--
Ca7_P2_34323694	Ca7	34323694	TAAA/TAAA	TATGAGCGGGTTGGAT TTGT	ATGGGTACGGGTAATC CACA	59.9	402	INTERGENIC	--	--	--
Ca7_P2_34328524	Ca7	34328524	TCC/TCCC	AGGGAGGCACTTCGGA GTAT	TCAATTGTCACAAACAT CCTGA	59.0	433	INTERGENIC	--	--	--
Ca7_P2_34331091	Ca7	34331091	AAGCAG/AAG	CTCCTTTGGCCATAAAA CCA	ATTGCGTTCGAATCTTG GAG	60.2	368	INTERGENIC	--	--	--
Ca7_P2_34331157	Ca7	34331157	GAAAA/GAAAA	CTCCTTTGGCCATAAAA CCA	ATTGCGTTCGAATCTTG GAG	60.2	368	INTERGENIC	--	--	--
Ca7_P2_34331566	Ca7	34331566	ATG/ATGCCTG	CCAATGCAAGAATCACT CCA	CATTTGGTCGTTGGA ATTG	58.9	342	INTERGENIC	--	--	--
Ca7_P2_34336122	Ca7	34336122	T/TTTA	TATTTGACCGTGAGAC GTG	CAACCACAATTCAATTT ATGCAA	59.8	539	INTERGENIC	--	--	--
Ca7_P2_34336700	Ca7	34336700	GTTATTAT/GTTAT	TGCATTAGAAAGCGATT GAAA	AAAAGAAGGCTAAGGA CGGC	59.9	392	INTERGENIC	--	--	--
Ca7_P2_34337758	Ca7	34337758	TAAA/TAAA	TGCAACACAACAGCAA AAAG	TGCAACATCCATTGAT GACC	60.3	755	INTERGENIC	--	--	--
Ca7_P2_34339805	Ca7	34339805	A/AGTAG	CATACCCCATAAAAAT CCTTG	GAGGCCACCTCATAAA GCTG	59.8	592	INTERGENIC	--	--	--
Ca7_P2_34340398	Ca7	34340398	GAAA/GAAAA	CCCTTCTCTTCGGCCT TAC	TGTGGGAATATCAAAC CCGT	60.1	573	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_34341200	Ca7	34341200	ATT/ATTT	ACGGGTTTGATATTC ACA	TTAATACCAATCCGC CCA	60.0	734	INTERGENIC	--	--	--
Ca7_P2_34342061	Ca7	34342061	ATTTTT/ATTTTT	GATAGGTGGACGTTC AATTTTC	GCCCATACGGGATTAT TTTTG	60.4	520	INTERGENIC	--	--	--
Ca7_P2_34342253	Ca7	34342253	TTTT/TTTTATTTT	AATGATAGGTGGACGT TCAAA	GGGTAACCTCGCCACA ACTA	60.0	725	INTERGENIC	--	--	--
Ca7_P2_34349210	Ca7	34349210	CTT/CTTT	TTGGGATTTAAGCCGA CAAG	AATGAATTTTGCCACC AGC	59.9	663	DRR	Ca_20986	C	--
Ca7_P2_34350011	Ca7	34350011	AC/ACC	TTGAGTGTGGATGGC TTCA	GGAGATTCGTCGCTTC TTTG	60.0	439	INTRON	Ca_20986	C	--
Ca7_P2_34352497	Ca7	34352497	ATTTTTTT/ATTTTTTTT	CCTATGTCCTCTCTCCA AAATGA	CCGATTCAAACAAAAG TCCA	60.0	814	INTERGENIC	--	--	--
Ca7_P2_34370833	Ca7	34370833	AAT/AATATTTAT	GGTCGTGGAATAGTTT CGG	CCCAATTAAACACCACT GCC	60.2	493	INTERGENIC	--	--	--
Ca7_P2_34382063	Ca7	34382063	TAAAAAA/TAAAAAA	TTCTTTTAGGGCCTGA GCA	TCATTTCTTGCAATTA TGGG	59.8	553	DRR	Ca_20982	OUT	YABBY
Ca7_P2_34383642	Ca7	34383642	TTCT/TT	TTAATTCAGTCGATGCC ACG	TCTGGAAAATACACGTT GAATACAT	58.9	841	INTERGENIC	--	--	--
Ca7_P2_34384212	Ca7	34384212	TAAAAAA/TAAAAAAA	TGTATTCAACGTGTATT TTCCAGA	TTTGAAGGTGGCGTGT GATA	60.1	368	INTERGENIC	--	--	--
Ca7_P2_34391793	Ca7	34391793	CTTTTTTTTT/CTTTTTTTTTT	GGCGAGCATGAAATAC CAAT	CAATTGATGCAGGCAC ACTAA	59.7	256	INTERGENIC	--	--	--
Ca7_P2_34396076	Ca7	34396076	TAAAAAAA/TAAAAAAA	GTGCCAGAGGAGGTGG TAGA	AAGAACTTGCAAGCCA GGAA	60.0	988	INTRON	Ca_20981	QR	B3

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_34405159	Ca7	34405159	AATTATATTTTGGATTATATTTTGG/AA TTATATTTTGA	ATGTGGCGCCAATACA CTTA	GAAAGCATAAACCGGC AAAA	60.1	503	INTERGENIC	--	--	--
Ca7_P2_34405422	Ca7	34405422	ATTTTTT/ATTTTTT	ATGTGGCGCCAATACA CTTA	TCCTTCAAGGCATTGT GTGT	59.1	559	INTERGENIC	--	--	--
Ca7_P2_34405465	Ca7	34405465	CTGTTGTTG/CTGTTG	TTTTGTGGCCATTTC GAAG	TCCTTCAAGGCATTGT GTGT	59.1	173	INTERGENIC	--	--	--
Ca7_P2_34408063	Ca7	34408063	CTTTTTT/CTTTTTT	TTCCCCGGTGACATAA CAGT	TTCAAGTGTGCTGCA TGGC	60.0	575	INTERGENIC	--	--	--
Ca7_P2_34408093	Ca7	34408093	TTCTCTCTCT/TTCTCTCTCTCT	TTCCCCGGTGACATAA CAGT	TTCAAGTGTGCTGCA TGGC	60.0	575	INTERGENIC	--	--	--
Ca7_P2_34408338	Ca7	34408338	GTTTT/GTTT	TTCCCCGGTGACATAA CAGT	CACTGCATAAGCCTGC AAAA	60.0	758	INTERGENIC	--	--	--
Ca7_P2_34408732	Ca7	34408732	CTTT/CTTTTT	TTTTCAGGCTTATGCA GTG	GCCTAAGTATCCTCT AGTCGG	58.5	536	INTERGENIC	--	--	--
Ca7_P2_34412369	Ca7	34412369	TACGCTA/TACGCTAACGCTA	ATTGTTGCTTCCCAAT TCG	GCTCAGCTGGTTTCAT AGGC	60.0	741	INTRON	Ca_20980	PT	FAR1
Ca7_P2_34509865	Ca7	34509865	AGAGAGAGAGAGAG/AGAGAGAGAGAG AGGGAGAGAGAGAGAG	TTTGTGGTCTTCCTCG ACC	GGGTGGATATCAATG ACCAA	59.5	173	INTERGENIC	--	--	--
Ca7_P2_34619249	Ca7	34619249	GTTTTTTTT/GTTTTTTTTT	CCCCCTTGAAGAGT GAAA	TTTGCAACAATTTAAGC ACACA	59.3	615	INTERGENIC	--	--	--
Ca7_P2_34650181	Ca7	34650181	GAAAAAAAAA/GAAAAAAAAA	CGACTAATCTTGACAAC ACGGA	TGGAACTCGGTTACAT TTTGAA	59.5	505	INTERGENIC	--	--	--
Ca7_P2_34663141	Ca7	34663141	TAAAA/TAAAAA	AAATTTTGGTTGCGATT CCA	ACCGGGTATAAGGTT CCAC	59.9	385	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_34669493	Ca7	34669493	AATATATATATATATA/AATATATAT ATATATATATATA	AAGGCTACCACAACGC AATC	CGACTCCGAACCA AATC	59.7	458	INTERGENIC	--	--	--
Ca7_P2_34822727	Ca7	34822727	ATTTTTTTTT/ATTTTTTTTT	CCGTTTGTAATGCATG GGT	GTCGACATGAGGTGTG AACG	60.2	625	INTERGENIC	--	--	--
Ca7_P2_34902553	Ca7	34902553	GATATATATATATATATATATATAT ATATATATATATAT/GATATATATATAT ATATATATATATATATATATATATA TAT	ATATATCGGATCCAACG GCA	CTCGAGCCTTTAATCC CAA	59.3	339	DRR	Ca_17624	--	ARF
Ca7_P2_34903171	Ca7	34903171	AATATATATATATATATATA/AATAT ATATATATATATATATATA	AAAGGCTCGAGGCATT TTTA	TGCTGTCATTTAAGCA ACGA	59.5	790	DRR	Ca_17624	--	ARF
Ca7_P2_35003606	Ca7	35003606	AT/ATT	GCCATATTTTGTAGGG CGA	CTAACGCGAGGTAAGC CGTG	59.8	428	INTERGENIC	--	--	--
Ca7_P2_35020588	Ca7	35020588	GATATATATATATATATATATATA/ GATATATATATATATATATATATAT ATATATATA	ATACTCGCGTTTGCTT TTG	TACATGCATTGCTGGC ATTA	58.7	476	INTERGENIC	--	--	--
Ca7_P2_3505469	Ca7	3505469	TC/T	AAATCAAGAGAGGCCT GCAA	GGGAGAGCTAGGGAG GAAGA	59.9	507	INTRON	Ca_03117	Z	MYB_related
Ca7_P2_3505728	Ca7	3505728	GTCTCTCTCTCTCTCT/GTCTCTCTC TCTCTCTCTCT	TGCATGCTCAACTCAA AGG	GTTGGTGGCACAAATC TGAA	59.5	472	INTRON	Ca_03117	Z	MYB_related
Ca7_P2_35063119	Ca7	35063119	CAAA/CA	ATGGTTCGGCCTTGTT AGA	TCACCTCTGTTGCTGC CATC	60.0	414	INTERGENIC	--	--	--
Ca7_P2_35079525	Ca7	35079525	TAAAAAA/TAAAAAA	CCCTAACTCTCCCTT TTT	TTCCAATGCAATGACCT CAA	60.0	323	INTERGENIC	--	--	--
Ca7_P2_35085603	Ca7	35085603	TAAAAAA/TAAAAAA	CGGTGATGGTTGAAGT AGTGAA	TGGCCTATTGGAAAT CGT	59.4	275	DRR	Ca_17636	--	ARF
Ca7_P2_35090292	Ca7	35090292	GAAAAAGAAAAAGAAAAAGAAAA GAAAAAGAAAAAGAAAAAGAAAA GAAAAAGAAAAAGAAAAAGAAAA	TTTGCTGCATAAAACCA CCA	CTTGTTGCTTTGCTT CCA	60.0	211	INTRON	Ca_17636	--	ARF

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_35101283	Ca7	35101283	GAAAAA/GAAAAA	TGATTTCTTTACTCG GCA	TTATGGTGACGACGGA CAAA	60.0	914	INTERGENIC	--	--	--
Ca7_P2_35106990	Ca7	35106990	CA/CATA	CATGGGTGGGTATAAG TGGG	AAATGCTGATGTGACTT ACCACA	59.6	722	INTERGENIC	--	--	--
Ca7_P2_35108399	Ca7	35108399	ATT/AT	TCATTCGTGAGCATCTT TCG	ACTCTCATCACCATCCC AGG	59.9	477	INTERGENIC	--	--	--
Ca7_P2_35109351	Ca7	35109351	TAAAAAA/TAAAAA	TGTTTTAACGTTTGCCT TGC	TCCAATGAATCCCTTG CTTC	60.0	674	INTERGENIC	--	--	--
Ca7_P2_35110110	Ca7	35110110	AC/ACC	GAAGCAAGGGATTTCAT TGGA	CATCAGAGGCATGAGA AGCA	60.1	717	INTERGENIC	--	--	--
Ca7_P2_35119830	Ca7	35119830	CAA/CAAA	ATGTCACCACGAGCTG TTCA	GCTAAATGCCAATGAG GCTT	59.3	351	INTERGENIC	--	--	--
Ca7_P2_3512039	Ca7	3512039	TAAAAAAA/TAAAAAA	TGACAGGCAGCTCTTT CAT	TGCGCAAAACCTACT TAGC	60.4	924	INTRON	Ca_03117	Z	MYB_related
Ca7_P2_35121887	Ca7	35121887	GAAAAAAA/GAAAAAAA	AAAAATAATTGGCACAA ACCAA	GGGCAATTTTCTGTCT CCAA	60.1	851	INTERGENIC	--	--	--
Ca7_P2_35122692	Ca7	35122692	ATTTTT/ATTTTTTTTT	TTGGAGACAGAAATTG CCC	ACCTGAATGTGCGAAC AAGA	59.3	735	INTERGENIC	--	--	--
Ca7_P2_3512361	Ca7	3512361	AG/A	AATTCGCATGCATATTC AACA	GCAGAGATTGATTG AGGC	59.9	677	INTRON	Ca_03117	Z	MYB_related
Ca7_P2_35126211	Ca7	35126211	T/TA	CCGATTGCATAACTGCA AAA	CGTTCTTTGTGAGGCT CTCC	60.0	837	INTERGENIC	--	--	--
Ca7_P2_35131007	Ca7	35131007	CTTTTTTT/CTTTTTTTTTT	TGTGGGAGGCAATAGA AGTG	TAAGTTCAATGCGACC ACGA	60.3	571	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35131412	Ca7	35131412	TAAAAAA/TAAAAAAA	TCGTGGTCGCATTGAA CTTA	GAATCAAAATGGAGCG GAAA	60.0	376	INTERGENIC	--	--	--
Ca7_P2_35131579	Ca7	35131579	T/TA	TCGTGGTCGCATTGAA CTTA	GAATCAAAATGGAGCG GAAA	60.0	376	INTERGENIC	--	--	--
Ca7_P2_35134144	Ca7	35134144	TAAA/TAAAA	ACCATTCCATTTCCTC TGC	CCTTCAATTTGCCGTC AGT	60.1	494	DRR	Ca_17638	--	ERF
Ca7_P2_35136799	Ca7	35136799	TAAAAAAAAA/TAAAAAAA	GGCACCTGAAAAGTGT GAAA	TCCATTCCGATTGT TCC	59.7	844	INTERGENIC	--	--	--
Ca7_P2_35138981	Ca7	35138981	ATTTTTTTT/ATTTTTTTT	ATGGGTGCGTTTCTTT CAG	TCGCTCTCATCAATCAC ATCA	60.4	171	INTERGENIC	--	--	--
Ca7_P2_35140653	Ca7	35140653	ACT/ACTCT	TTTAAAGCCACATCATG CCA	GTTCTCCCTCCATCC CTAA	60.3	585	INTERGENIC	--	--	--
Ca7_P2_35146679	Ca7	35146679	CTTTTTT/CTTTTTTT	ATCGTGAGTTTGAGGG GAGA	AGGCCAACATCCTTTT CCT	59.9	572	INTERGENIC	--	--	--
Ca7_P2_35148239	Ca7	35148239	CAAAAAA/CAAAAAA	TCAAATTTGCCCTGAC TTT	AACGGCTAACATTGG CAAC	60.0	570	INTERGENIC	--	--	--
Ca7_P2_35148641	Ca7	35148641	ATCTCT/ATCT	GTTGCCAAATGTTAGCC GTT	GTCTTTGTCAGGGGAG TGGA	60.1	221	INTERGENIC	--	--	--
Ca7_P2_35148676	Ca7	35148676	TAGGAA/TAGGAAGGAA	GTTGCCAAATGTTAGCC GTT	GTCTTTGTCAGGGGAG TGGA	60.1	221	INTERGENIC	--	--	--
Ca7_P2_35150109	Ca7	35150109	TTTTATTTATTTATTTATTT/TTTTA TTTATTTATTTATTTATTT	GGGGAACCTTTGGGG AGTA	CACCTTCGCCAATTCA TCT	60.1	820	INTERGENIC	--	--	--
Ca7_P2_35153251	Ca7	35153251	GAAAAAAAAA/GAAAAAAAAA	GAGCCAAACACTGCAT CAGA	GTGGAGAATTGTGAGG GGAA	59.9	689	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35154545	Ca7	35154545	ATTT/ATTT	TCCATGTCAGATTCGGA TGA	CAATGTCCATTTTCAGCA TGG	59.9	749	INTERGENIC	--	--	--
Ca7_P2_35154835	Ca7	35154835	TTATATATATATAT/TTATATATATAT	CAAAACGATAGAAAGAT AATGCAAGA	CAATGTCCATTTTCAGCA TGG	59.9	374	INTERGENIC	--	--	--
Ca7_P2_35166389	Ca7	35166389	CATGT/CATGTTATTTTATGT	ATCAAGGTGGGGATTG TTGA	TTGTAGTTTTTCACGTG GTGC	58.7	781	INTERGENIC	--	--	--
Ca7_P2_35166415	Ca7	35166415	TC/T	ATCAAGGTGGGGATTG TTGA	TTGTAGTTTTTCACGTG GTGC	58.7	781	INTERGENIC	--	--	--
Ca7_P2_35166612	Ca7	35166612	GAAAAAA/GAAAAAA	TTCAATTTTGTGTGTG TGGAAA	TTGTAGTTTTTCACGTG GTGC	58.7	571	INTERGENIC	--	--	--
Ca7_P2_35173173	Ca7	35173173	CTTTTTTTTTTT/CTTTTTTTTTT	TAGGGCTTCAATAGTG GGCA	TTTTAGAATCAAGACTT TTTCTCCC	58.5	360	INTERGENIC	--	--	--
Ca7_P2_35173257	Ca7	35173257	CCTCTCT/CCTCT	TAGGGCTTCAATAGTG GGCA	TTTTTAAAGAATAGTG CCAATCAA	58.4	437	INTERGENIC	--	--	--
Ca7_P2_35175388	Ca7	35175388	TAAAAAAAA/TAAAAAAAAA	TACTTTGCGTGTCTCG TCG	CCCATGAAGGAAAAAT AGCG	59.5	657	INTERGENIC	--	--	--
Ca7_P2_35175468	Ca7	35175468	CC/CCTTC	TACTTTGCGTGTCTCG TCG	CCCATGAAGGAAAAAT AGCG	59.5	657	INTERGENIC	--	--	--
Ca7_P2_35175572	Ca7	35175572	AAATA/AA	GGCCATGGGAACATAA ACTG	CCCATGAAGGAAAAAT AGCG	59.5	239	INTERGENIC	--	--	--
Ca7_P2_35177660	Ca7	35177660	A/ATAAAAAATAAT	GCCAACCGACTCCATC TTTA	TTTAGCAGTTTTTCAAT TTCCAA	58.1	690	INTERGENIC	--	--	--
Ca7_P2_35177885	Ca7	35177885	GAAAA/GAAAAA	ACTTGCAAATGCCAC TGT	TTGAAGAGGGTACAAT AGACATTGA	59.1	527	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35178818	Ca7	35178818	A/AC	TTTTCAACTTTTCCCTCG	CGCTACAAAATTCACATGAAAA	59.2	706	INTERGENIC	--	--	--
Ca7_P2_35180198	Ca7	35180198	AAAGAACAGAACAAGA/AAAGAACAG AACAGAACAAGA	GGGTTTtaggttggg TGAT	TGTAACACGGTCCAAT CCAA	59.8	203	CDS (large-effect mutations)	Ca_17639	--	bHLH
Ca7_P2_35183223	Ca7	35183223	TTATATATATATATATATATATATATAT T/TTATATATATATATATATATATATAT ATATATATATAT	AATTCCCAATGTGCAAA GGA	TAAATGCTCCTTCCATC CCA	60.4	593	DRR	Ca_17639	--	bHLH
Ca7_P2_35183797	Ca7	35183797	TAAAA/TAAAAA	TGGGATGGAAGGAGCA TTTA	ACACACGATGCAACCA CACT	60.1	397	INTERGENIC	--	--	--
Ca7_P2_35190083	Ca7	35190083	TGG/TG	GCATTGTTGTTTTGGA GGG	CATGGACAAAGTCGTT TCAA	57.2	506	INTERGENIC	--	--	--
Ca7_P2_35206628	Ca7	35206628	GT/GTAT	CGGACATCTGTTGTCC TTG	TCCATTTTATTTGTCC CCA	60.0	334	INTERGENIC	--	--	--
Ca7_P2_35206915	Ca7	35206915	CATATA/CATA	TTGGGGACAAATAAAAT GGG	AAACGTGTTTCGTATTT TTGATG	58.2	548	INTERGENIC	--	--	--
Ca7_P2_35211759	Ca7	35211759	TAAACAAAA/TAAACAAAAACAAAA	GATTCGAACAGGACCT CCAA	GGTCCGTTCTGAGTGG TTGT	60.0	419	INTERGENIC	--	--	--
Ca7_P2_35213604	Ca7	35213604	CTTTTT/CTTTT	TTGGAGCAGTACCAAC TGACA	GCAATGTGTCAAAGGC TCAA	59.8	681	INTERGENIC	--	--	--
Ca7_P2_3521546	Ca7	3521546	CTTT/CTTTTT	TAAGGCTATCCAGTC GTCC	ACCAGCTTCACTCTCT GGGA	60.0	785	INTRON	Ca_03116	I	--
Ca7_P2_35216311	Ca7	35216311	CTTTTTTT/CTTTTTTTTT	TGCCTCATCTTTTGGGA ACC	GGAAGGAGGGACAAAA CACA	59.9	839	INTERGENIC	--	--	--
Ca7_P2_35217866	Ca7	35217866	ATTTTT/ATTTTTTT	AAGGCTAGGATTCTCG GGAT	ATCGGGATGTTCTTT TCAT	59.4	369	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35222561	Ca7	35222561	ATTGTTGTT/ATTGTT	GTTTGCATCTTTCCCT CCA	AGGGGCATGAATGAGA AGAC	59.1	509	INTERGENIC	--	--	--
Ca7_P2_35222835	Ca7	35222835	G/GGAAA	ATGCCGAATTCCTTCAA CAG	AGAGCAACGAACATGT GTCAA	59.4	478	INTERGENIC	--	--	--
Ca7_P2_35222875	Ca7	35222875	GC/GCC	ATGCCGAATTCCTTCAA CAG	AGAGCAACGAACATGT GTCAA	59.4	478	INTERGENIC	--	--	--
Ca7_P2_35223223	Ca7	35223223	T/TTTATTTTGG	CCCCTGGGTGTTTATG TCTG	TTCCAGTGGGCATTAA CTCA	59.1	885	INTERGENIC	--	--	--
Ca7_P2_35224555	Ca7	35224555	ATTTT/ATTTTTT	AATGTGTGAACCTGGC CCTC	AAAATGTTGACGTGGC AGTG	59.6	302	INTERGENIC	--	--	--
Ca7_P2_35225435	Ca7	35225435	AAAA/AAAAAATAAAAA	CACCTCCACTTCTTTC CGA	TGAGAAAAATTAATGG GGACG	60.2	537	INTERGENIC	--	--	--
Ca7_P2_35225530	Ca7	35225530	CTATAT/CTAT	CACCTCCACTTCTTTC CGA	TGAGAAAAATTAATGG GGACG	60.2	537	INTERGENIC	--	--	--
Ca7_P2_35227195	Ca7	35227195	GA/GACA	AAAGCGAACGCCATTTT AGA	TCAGAGCAACTGCACT TCAA	58.3	809	INTERGENIC	--	--	--
Ca7_P2_35228936	Ca7	35228936	AGGGG/AGGGGG	TGTGGAATTCGTTTGT GGA	CCTATGATGCAAAGTC CATGC	60.5	798	DRR	Ca_17641	--	--
Ca7_P2_35229225	Ca7	35229225	TTATATATATATA/TTATATATATATATA	TTGTGCTGTTTGTGCT TTTC	CCTATGATGCAAAGTC CATGC	60.5	275	DRR	Ca_17641	--	--
Ca7_P2_3523024	Ca7	3523024	GAAA/GAA	ACTCACGAGGCCTCTT CTCA	CAGAAGGTCTTCCCAT CCAA	60.0	707	INTRON	Ca_03116	I	--
Ca7_P2_35230535	Ca7	35230535	C/CAT	TCAAAAATGGAATGGG AAGA	TGGGTGAGGCTTTGCT ACTT	59.9	320	DRR	Ca_17641	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35230825	Ca7	35230825	ATTTTTTTTT/ATTTTTTTT	AAGTAGCAAAGCCTCA CCCA	CGGATAATTTCAAATG GATCACT	59.2	401	INTERGENIC	--	--	--
Ca7_P2_35232070	Ca7	35232070	AC/ACTCTC	TTTGACCCTCAGCCATT TTC	GAAAAATGGGAATGCA ATGG	60.1	244	INTERGENIC	--	--	--
Ca7_P2_3523561	Ca7	3523561	CAAAAA/CAAAAAA	TTGGATGGGAAGACCT TCTG	TCATTGCAAGAAGATCA CGC	60.0	405	INTRON	Ca_03116	I	--
Ca7_P2_35236297	Ca7	35236297	CAATGTCGG/CAATGTCGGATGTGAAT GTCGG	CATTGGAGATGGCTCC TGAT	ACCTTTTGGTGGAGCC ATTA	59.4	460	INTRON	Ca_17642	--	--
Ca7_P2_35263923	Ca7	35263923	TA/T	CGCAGACTCAGATTCC ATCA	CGAAGGGGGTGTAGCT CATA	60.1	151	DRR	Ca_17644	UR	HB-other
Ca7_P2_35272953	Ca7	35272953	CACCT/C	TTGATCCAGCACACCT AAG	TTTTGTACTCACGCC CTC	60.1	503	INTERGENIC	--	--	--
Ca7_P2_35273690	Ca7	35273690	C/CTTAA	GAGGGGCGTGAGTAAC AAAA	AAAGAACCACATGAATC GCC	59.9	882	INTERGENIC	--	--	--
Ca7_P2_35275008	Ca7	35275008	AGGTGGTG/AGGTG	CAACCTTGGTGTTTGG CTTT	CTTCTTCATTCGCCTG GAAC	59.8	262	DRR	Ca_17646	R	--
Ca7_P2_35275595	Ca7	35275595	ATTTT/ATTTTT	TTGAAGGTGCCTCTGA AACC	CTCATGAAGGATCGCG GTAT	60.1	479	DRR	Ca_17646	R	--
Ca7_P2_35279762	Ca7	35279762	TAAAAA/TAAAAA	GAGCAGCTTCTTGCTG TTCA	TGCATCTTCTTGATG CTG	59.9	602	INTRON	Ca_17646	R	--
Ca7_P2_35283537	Ca7	35283537	TTC/TCCACGATGAATC	GCCCAATTGGTTCAGT CAGT	CATCCTGAGGGCAGTG ATTT	60.1	770	INTRON	Ca_17646	R	--
Ca7_P2_3528523	Ca7	3528523	TA/TAA	GGGGAACACATCAAAA CCAC	CAGATATAGTAATTAAT CCTCTGCCAA	58.4	488	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_3528666	Ca7	3528666	CTATAT/CTATATAT	GGGGAACACATCAAA CCAC	TTATTTTCTACTAATTT GATCTCTCA	57.0	778	INTERGENIC	--	--	--
Ca7_P2_35289806	Ca7	35289806	CAAAAA/CAAAAA	ATTGGGAAAACCTTGG TCA	GAAGGCAGTTGGGGA CATA	59.9	315	INTRON	Ca_17646	R	--
Ca7_P2_35290233	Ca7	35290233	TC/TCC	TATGTCCCCAACTGCC TTC	CCCAATTTGCAATTT CTGT	59.0	442	INTRON	Ca_17646	R	--
Ca7_P2_35291952	Ca7	35291952	TAAAA/TAAAAA	GGAAGGAAGGCTGAG ATTG	TCCCCATATAGAATTT GGTTCA	59.6	622	INTERGENIC	--	--	--
Ca7_P2_35292007	Ca7	35292007	G/GTTT	GGAAGGAAGGCTGAG ATTG	TCCCCATATAGAATTT GGTTCA	59.6	622	INTERGENIC	--	--	--
Ca7_P2_35292570	Ca7	35292570	GT/GTT	TGAACCAAAATTCTATA TGGGGA	GACCCCTCTTTGTAAC GCAA	60.1	692	INTERGENIC	--	--	--
Ca7_P2_35292736	Ca7	35292736	ATTTTTTT/ATTTTTTTT	TGAACCAAAATTCTATA TGGGGA	GACCCCTCTTTGTAAC GCAA	60.1	692	INTERGENIC	--	--	--
Ca7_P2_35292837	Ca7	35292837	AGG/AGGG	TGCAGGATTTAGTGGT GGTG	GACCCCTCTTTGTAAC GCAA	60.1	154	INTERGENIC	--	--	--
Ca7_P2_35292896	Ca7	35292896	TAA/TA	TGCAGGATTTAGTGGT GGTG	GCCATTTGTTCAGC ATTT	59.9	559	INTERGENIC	--	--	--
Ca7_P2_35293331	Ca7	35293331	CGAATG/CG	TTGCGTTACAAGAGG GGTC	TCGGTGCAACATTTCT TCA	60.2	792	INTERGENIC	--	--	--
Ca7_P2_35293601	Ca7	35293601	TTATCTCTA/TTA	AATTCACCAAGCTCCAA GTG	TCGGTGCAACATTTCT TCA	60.2	359	INTERGENIC	--	--	--
Ca7_P2_3529498	Ca7	3529498	TTATATATATATA/TTATATATATA	TGTACACACTATTTCGG TCTCATTT	CCATCCCTCCCCAAAT TTA	60.8	379	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35299208	Ca7	35299208	GAATGAAATGAAATG/GAATGAAATG	TTGGAGAGAAAGCAA ATGGA	AGAGTTTGTGTCCT TCCT	60.0	336	INTERGENIC	--	--	--
Ca7_P2_35299260	Ca7	35299260	ATTTT/ATTTT	TTGGAGAGAAAGCAA ATGGA	AGAGTTTGTGTCCT TCCT	60.0	336	INTERGENIC	--	--	--
Ca7_P2_35300503	Ca7	35300503	TAAAAA/TAAAAA	TGCGACACTTCTAGCT TGG	GCAAAGATTTGCATG GAAGT	59.2	420	INTERGENIC	--	--	--
Ca7_P2_35302573	Ca7	35302573	GTTTT/GTTTT	TTTGAACAGCAATCCAA CCA	AGTGAACAACCAACCC ATTT	58.3	299	INTERGENIC	--	--	--
Ca7_P2_35304579	Ca7	35304579	CAAAAA/CAAAAA	TTTGGCAATGAAGAGC ACAG	CTGTATGCCAGTGTG TTGG	60.0	263	INTERGENIC	--	--	--
Ca7_P2_35307373	Ca7	35307373	CATTTAG/C	TGAGCCATCATCAAC AGA	GTTCTCCACGTTGGT TCAT	59.8	714	INTERGENIC	--	--	--
Ca7_P2_35311500	Ca7	35311500	ACC/AC	CATCACTTGAATGCACC ACC	CACGGGCTATCCATGA AGTT	60.0	186	INTERGENIC	--	--	--
Ca7_P2_35313643	Ca7	35313643	TC/T	TTCGATAAGCAAAGC TCCA	AAGTGAATATGGGCA GTCG	60.0	805	INTERGENIC	--	--	--
Ca7_P2_35317473	Ca7	35317473	ATTTT/ATTTT	CGATGCACACTATTT TGC	TGGTTCAATGCAATG GTTG	60.4	535	INTERGENIC	--	--	--
Ca7_P2_35321784	Ca7	35321784	ATTTTTTT/ATTTTTTTTT	TTTGTTCAGATTCAGG GGC	GCTGGAATTTGTGCG GAAA	60.1	893	INTRON	Ca_17647	BK	FAR1
Ca7_P2_35323407	Ca7	35323407	TGG/TG	GCATCCCTGAGTTGCT TTC	GATCGGTTATGCTGA TGTG	60.1	937	INTRON	Ca_17647	BK	FAR1
Ca7_P2_3532667	Ca7	3532667	ATTTTTT/ATTTTTTTTT	TTTCGACAATGGTTGG TGA	TTGTCAAACATAACCGC CAA	60.0	363	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35330032	Ca7	35330032	TTCT/TTCTCTCT	TCACGTGCACTATGCCT CTC	TCGGTGATGGGTATTT GACA	59.8	421	INTRON	Ca_17647	BK	FAR1
Ca7_P2_35331304	Ca7	35331304	CAAAA/CAA	GAATTTGCTTCGGAAAA TCG	GCTTCCCTCAGATCAG CAAC	60.0	238	INTRON	Ca_17647	BK	FAR1
Ca7_P2_35331861	Ca7	35331861	TTATAT/TTAT	GTTGCTGATCTGAGGG AAGC	TGGCATGCACTGAAAA ATGT	60.1	860	INTRON	Ca_17647	BK	FAR1
Ca7_P2_35333033	Ca7	35333033	C/CT	TGCAAAGCACCAATTG TAG	CTTTCCATGCCACGG TACT	60.0	974	DRR	Ca_17647	BK	FAR1
Ca7_P2_35337950	Ca7	35337950	C/CT	CATGATTGCTTTCCATG CAG	GGCTAGGGATGAACTA CCCC	59.8	345	INTRON	Ca_17648	--	TCP
Ca7_P2_35339612	Ca7	35339612	TAAAAAAAAAAAAA/TAAAAAAAAA	CAATTCACCGCTGAG TCTT	GGCTATCTCAATCGCT GAGG	59.9	491	INTRON	Ca_17648	--	TCP
Ca7_P2_35341362	Ca7	35341362	T/TCA	TCAGCACCAGCTGCAA TAAC	CATGCCTTCATTGCTTG CTA	60.0	725	DRR	Ca_17648	--	TCP
Ca7_P2_35341758	Ca7	35341758	ATTTTTTTT/ATTTTTTTTTT	ATGAAGGCATGGAGAA GCTG	GACTTCAGATGGCTGG TGCT	60.4	562	DRR	Ca_17649	M	--
Ca7_P2_35345368	Ca7	35345368	A/ACG	ACAAATGCACACCTGT GAA	AGTGTGTCAAATTTCC GCC	60.0	583	INTRON	Ca_17649	M	--
Ca7_P2_35345432	Ca7	35345432	T/TC	ACAAATGCACACCTGT GAA	AGTGTGTCAAATTTCC GCC	60.0	583	INTRON	Ca_17649	M	--
Ca7_P2_35347410	Ca7	35347410	T/TTATTTTA	AGTTTCCACATGTGATA AATTGC	CCTCCTATCCAACCAT GAA	59.7	749	INTERGENIC	--	--	--
Ca7_P2_35347818	Ca7	35347818	TA/T	TTCATGGGTTGGATAG GAGG	TCACGCAACAAATCTCA AGG	59.8	143	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35348488	Ca7	35348488	GAAAAA/GAAAAA	GTGGGTGGTACAAGT GGAG	AAGCAAATAACAAGT GTGCC	59.1	669	INTERGENIC	--	--	--
Ca7_P2_3535227	Ca7	3535227	GTTT/GTTTTTAGTAATTT	CGTGCAGTTTGACAC CTAA	AATGGCAATGGAAGGA AATG	59.8	222	DRR	Ca_03115	S	--
Ca7_P2_35357002	Ca7	35357002	CTTTTTTT/CTTTTTTTTT	TGGATGTCATGTTCTT AATGGA	CACATACGGGGTTTA GATTCG	60.6	657	INTERGENIC	--	--	--
Ca7_P2_35357103	Ca7	35357103	ATTAATATATAGT/AT	CCCAATCAGCTGTCTT GTTT	CACATACGGGGTTTA GATTCG	60.6	406	INTERGENIC	--	--	--
Ca7_P2_35364453	Ca7	35364453	ATTTTTTT/ATTTTTTT	CAGGTATCAGGCTCGG TCAT	CATTGCAATAATGGTC GCAC	60.0	254	INTERGENIC	--	--	--
Ca7_P2_35364737	Ca7	35364737	AGATTAGGA/AGA	CGCATTCTCTCGAAAA GTC	TTGGAGAAAGATCTCC GGTT	58.7	439	INTERGENIC	--	--	--
Ca7_P2_35366366	Ca7	35366366	CA/CAA	GCAGTGCACGGGTCTA AAAT	AGTAGTTGGGTGGACA TGCG	61.0	877	INTERGENIC	--	--	--
Ca7_P2_35367236	Ca7	35367236	TAAAAAAA/TAAAAAAA	CAATTCAACAGAAGGTC GCA	GCACAGTCAACCGTCA CACT	59.8	451	INTERGENIC	--	--	--
Ca7_P2_35368010	Ca7	35368010	G/GC	TGCGTCCCTAATATTT GCC	CCCATCCAACGACTTC CTAA	59.9	644	INTERGENIC	--	--	--
Ca7_P2_35375732	Ca7	35375732	CAAAAAAAAA/CAAAAAAAAA	TATTGAGGACACCACA GGCA	TTGGAGAAATGGAGT TTGC	60.1	379	INTRON	Ca_17651	--	--
Ca7_P2_35376790	Ca7	35376790	AGTG/AGTGGTG	GTAAAAGGCGTATGAC GGGA	CTATTTTCCGGAATCCA CGA	59.9	459	INTERGENIC	--	--	--
Ca7_P2_35377784	Ca7	35377784	CAGAGAGAGAGAGAGA/CAGAGAGA GAGAGAGA	ACCCACCAACAAGTTC AAG	TTCCAGCAACAACCC TTTC	60.1	245	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35378912	Ca7	35378912	TAAA/TA	GGACCCAAATGTGACC TATTGA	TCACCGATCATCATTG CTTT	59.1	826	INTERGENIC	--	--	--
Ca7_P2_35379781	Ca7	35379781	ATTT/ATT	TCCTCATCACCTGCACA ATC	TCCTCTACCCACCAAA CCAA	60.3	445	INTERGENIC	--	--	--
Ca7_P2_35379825	Ca7	35379825	CTTTTTT/CTTTTTTTT	TCCTCATCACCTGCACA ATC	TCCTCTACCCACCAAA CCAA	60.3	445	INTERGENIC	--	--	--
Ca7_P2_35379938	Ca7	35379938	G/GTGAGTT	TCCTCATCACCTGCACA ATC	TCCTCTACCCACCAAA CCAA	60.3	445	INTERGENIC	--	--	--
Ca7_P2_35384929	Ca7	35384929	TAAAAA/TAAAAAA	TTTCAACTTCATTTTGT GGATACATT	AAGTCAAGATGGCTTG GTGG	60.1	688	INTERGENIC	--	--	--
Ca7_P2_35385155	Ca7	35385155	GT/GTT	TGCGAAATGTGAGAAA TGAA	AAGTCAAGATGGCTTG GTGG	60.1	225	INTERGENIC	--	--	--
Ca7_P2_35386085	Ca7	35386085	CAAAAAAAAAAAAA/CAAAAAAAAAA	TTGTTTCAAAGCTCCAG CAA	CATCGACCAAAAGGAG TTTGA	60.1	505	INTERGENIC	--	--	--
Ca7_P2_35387785	Ca7	35387785	ATTTTTTTTT/ATTTTTTTT	ACTTTTGGTGACATGG TTG	TGGATGATTGTGATGT GCTG	59.0	465	INTERGENIC	--	--	--
Ca7_P2_35389419	Ca7	35389419	TAAAAA/TAAAAAA	TTCGGTTCTTGTCTGCC TCT	GCCGCGACCATTAAAT CTAA	60.1	796	INTERGENIC	--	--	--
Ca7_P2_3540136	Ca7	3540136	C/CATAT	TTGTTGGTACGTGCATA GAGC	CATTCACTACGTGCAAA CGG	60.2	762	INTERGENIC	--	--	--
Ca7_P2_3540216	Ca7	3540216	GTTTTTT/GTTTTTTT	TCAACAATGAAGCAACA CATCA	CATTGCGCAAGAGAAT ACGA	60.0	634	INTERGENIC	--	--	--
Ca7_P2_3540652	Ca7	3540652	TG/T	TCGGATAATCCAACCTC GTC	GGTTTGTAATGTTGC GGCT	60.0	647	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35410856	Ca7	35410856	TC/T	TTGTTTGCGCATGGTAA AAG	CGCTTTGGAACACAAA CAAA	59.7	384	INTERGENIC	--	--	--
Ca7_P2_35437194	Ca7	35437194	TTTTAT/TTTTATATATTTAT	CGCATACCTTGCTCTC CTC	CCACGTGAAGCATGTA ACTCTC	59.8	867	DRR	Ca_17755	T	--
Ca7_P2_35442260	Ca7	35442260	AG/A	TATGCTGTCCACCCATC AAA	CAAGCGCATGCATTTT CTAA	60.0	628	INTERGENIC	--	--	--
Ca7_P2_3544271	Ca7	3544271	GT/GTAT	CTTTCATTCTGTCAGCT GCG	CCGTGCTCTTCATGC TTCA	60.0	535	DRR	Ca_03114	S	--
Ca7_P2_35480318	Ca7	35480318	CAAAA/CAAA	CGCTCCAGTCTGGTAT TGGT	AGGGTTAGTGGTCGTT GGTG	59.9	201	CDS (FRAME SHIFT)	Ca_17756	--	--
Ca7_P2_35488484	Ca7	35488484	ATAT/ATATCAACTAT	CATTTAGGATACTCGTT AATATTTGCC	TCTAGTCAAAGGACGT GCCA	59.4	856	INTERGENIC	--	--	--
Ca7_P2_3550702	Ca7	3550702	GTTTTTTTT/GTTTTTTTTT	TCTTGTTCCACATTTTC ACACA	TGATCGACAGTTGGTC TCTAACA	59.8	253	INTERGENIC	--	--	--
Ca7_P2_35518008	Ca7	35518008	ATCTCTCTCTCTCTCTCTCT/ATCT CTCTCTCTCTCTCTCTCTCTC	CGACTCGTGACTCCAA ATCA	ATAGTGGTGGTGGTGG TGGT	60.0	685	INTERGENIC	--	--	--
Ca7_P2_3552289	Ca7	3552289	TAAA/TAAAA	CCCTGCTCAATTTATT CTCTCA	TGTTCTGGGCACAGA TGTT	60.2	586	INTERGENIC	--	--	--
Ca7_P2_35529275	Ca7	35529275	ATTTTTT/ATTTTTTTT	GGGAAAAGAGAACGGG AAAG	CCAATTGCTAAGGCT TTTG	59.7	934	INTERGENIC	--	--	--
Ca7_P2_3553538	Ca7	3553538	AT/ATT	AACCCCGTAAACTTTG TTGA	TCTCCAGAAACGCCA GAGT	60.0	330	INTERGENIC	--	--	--
Ca7_P2_35535446	Ca7	35535446	CTTTTGTTTGTGTTTGTGTTTGT/CTTTG TTTTGTTTGTGTTTGTGTTTGT	CAGGCATGTAGAGCAT TGGA	AGTTTGGCTCGTGATG GTTT	60.1	528	DRR	Ca_17760	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_35578931	Ca7	35578931	AC/A	TGTAACGCCACATAG GTCA	TTGATTGCTGGTTTGT GGA	60.1	280	DRR	Ca_17765	U	--
Ca7_P2_35593979	Ca7	35593979	TC/TCC	ACTGCACAGCTTTTGG GGT	CTACAAGCGGCACTTC ATCA	60.0	262	INTRON	Ca_17767	--	--
Ca7_P2_35625136	Ca7	35625136	CTTTTTTTTTTT/CTTTTTTTTTTT	TGCTGATCATTTTGT GCAT	ATCTCACATGCTAAAC GGC	60.1	782	DRR	Ca_17769	H	--
Ca7_P2_3564384	Ca7	3564384	ACT/A	TGCACTTCCAATGACCA GAG	TAGCCAAATGGGCTTA GGTG	60.1	670	DRR	Ca_03113	T	bHLH
Ca7_P2_35661773	Ca7	35661773	AATATATATATATATATATAT/AATATA TATATATATATAT	TTTGTGTTTGAGCGAAG ACG	TGAACTTGTGTGCTC CTGC	60.0	603	INTRON	Ca_17773	--	--
Ca7_P2_3567096	Ca7	3567096	CAA/CA	TTGTGCAGGTCGTGT ACAT	TTTCACAACTCCCAT TCC	59.8	450	INTERGENIC	--	--	--
Ca7_P2_35684957	Ca7	35684957	ATTTTTT/ATTTTT	CCCCCTCTTAGGACCA GTGT	TATCGCACTCCGACAA CAAA	60.3	592	DRR	Ca_17775	O	ERF
Ca7_P2_3568687	Ca7	3568687	TTCTCTTCATGGAGTCTCTT/TTCTCTT	CATCTCCACCTAATTGC ACG	GTTGTGGTTTTGCCGC TTAT	60.0	491	DRR	Ca_03112	U	MYB
Ca7_P2_35708360	Ca7	35708360	CATATATATATAT/CATATATATATATAT	TACGTTAACACCTGCTC CCC	CCCTCCCTCTCATGCA CATA	61.0	784	INTERGENIC	--	--	--
Ca7_P2_35716083	Ca7	35716083	ATTTTTT/ATTT	ACTATAGTACCCACCC GCC	TGGAGGTCACAGCAG ATAC	59.7	356	INTERGENIC	--	--	--
Ca7_P2_3571890	Ca7	3571890	ATTTTTTTT/ATTTTTTTTTT	GAGACAATGTCCTCGC CAAT	GTAGACCGGGGCAAGT GTAA	60.0	866	INTRON	Ca_03112	U	MYB
Ca7_P2_357521	Ca7	357521	CTTT/CTTTT	TATTGGTTCCTTATGGG GCA	AGCTCTGGAGACCTCC TTCC	60.0	581	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_35786410	Ca7	35786410	ATATTATTA/ATATTATTATTA	GGGAAACCCACCTTT GATT	GGAGGGTGTGAATTGG AAGA	59.9	679	INTERGENIC	--	--	--
Ca7_P2_35794267	Ca7	35794267	CTTTT/CTTT	ATGTAGACGATTGCTTC CCG	GCAACAACTTTGCACT CCA	59.9	700	INTERGENIC	--	--	--
Ca7_P2_3580567	Ca7	3580567	GT/GTTGACTT	TGTCAACAAAACCCAA GCA	GCTGCCACATTGAAT AGGT	60.0	709	INTRON	Ca_03112	U	MYB
Ca7_P2_35827703	Ca7	35827703	GTTT/GTTTTT	TGACTTGAAATTTTCCA TGTTTC	TTGTTTGGCCTTACGC TTCT	59.9	483	INTERGENIC	--	--	--
Ca7_P2_35888563	Ca7	35888563	TTTAAATATAAAATTAATAAAATT AAAATATAA/TTTAAATATAAAATTA ATATAAAATTAATAAAATTAATA TAA	AGACCCGTTTGATGGA TAACA	AAAAGACAAAACCTACC TTGTCATAAA	59.8	377	INTERGENIC	--	--	--
Ca7_P2_35892068	Ca7	35892068	ACTTCTTCTTCTTCTTCTTCTTCTT CTTCTTCTTCT/ACTTCTTCTTCTTCT TCTTCTTCTTCTTCTTCTTCTTCTTCT	CTGACGTGTTGGTGTG GAAC	ATAGTCAAGCCCTGCA GCAT	59.9	379	INTRON	Ca_17793	L	--
Ca7_P2_35902181	Ca7	35902181	AATATATATATATATATATATATAT ATATATATATATATATATAT/AAATATAT ATATATATATATATATATATATATATA TATATATATATATAT	GGGAAGTTAAAGTGAG GGGG	GCCTTATTGCATTATCG GTGA	59.9	473	INTERGENIC	--	--	--
Ca7_P2_35921881	Ca7	35921881	CTTTTTTTTTT/CTTTTTTTTTT	TGCAATAAGATGAAAA CACCAA	GCATTGGAGCTGAAAA GGAG	60.0	332	INTRON	Ca_17797	A	--
Ca7_P2_35962308	Ca7	35962308	CTATATATATATATATATATA/CTATAT ATATATATATATATATATATATATA	ATTGGGCTGAGCTTTG CTTA	CAGACCGTTTCACAGG GATT	60.0	667	INTERGENIC	--	--	--
Ca7_P2_35977553	Ca7	35977553	AATGA/AATGATGA	TGAGTGCATGTTTCA GAAG	GCGATTTCATCTTCC GTT	60.0	608	INTERGENIC	--	--	--
Ca7_P2_3599047	Ca7	3599047	TAAAA/TAAA	CACCTGCTAGCCTAAC CACA	TTCAATGGGATGGACA AAGT	60.2	743	DRR	Ca_03108	--	NAC
Ca7_P2_35994225	Ca7	35994225	GTTTTT/GTTTTT	AGAGAGGACAACGGCG TAGA	TTCCACCCAAACTATCG GAG	59.9	483	DRR	Ca_17803	E	HRT-like

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_36005216	Ca7	36005216	AATATATATATATATA/AATATATATATATATA	TGCCTCTGAGTTGTCG TCAT	CTGCTTGATTGAATCC CGTT	60.1	538	INTRON	Ca_17804	--	--
Ca7_P2_3602121	Ca7	3602121	GTAT/GTATATAT	GGGGAAAATATCCAA GGGA	GAAGGGCTCCAAAGTC ACTG	59.8	547	INTERGENIC	--	--	--
Ca7_P2_3608175	Ca7	3608175	CA/CAA	TTTTCGTGGGATCAAA TCC	ATTCAGGAACCTGCGA TACC	60.0	495	INTERGENIC	--	--	--
Ca7_P2_3608431	Ca7	3608431	TA/T	CATCCTGCTGCCTCAA CATA	ATTCAGGAACCTGCGA TACC	60.0	249	INTERGENIC	--	--	--
Ca7_P2_3610855	Ca7	3610855	TACCAA/TA	GACGAGAGGTTTGACG CCTA	TTCATGCTCTTTTGCA TGA	58.0	566	INTERGENIC	--	--	--
Ca7_P2_36117059	Ca7	36117059	CTTT/CTTTCTTTATTTT	TGGATTGGGCTTTCCAA TAA	TGCCCTTAACGTACCCA AACA	59.1	435	DRR	Ca_13721	G	Trihelix
Ca7_P2_36126996	Ca7	36126996	A/AC	AGGAGCAGCAACGACT GATT	GATATGAGGTTTTTGG GCGA	59.9	471	CDS (FRAME SHIFT)	Ca_13722	--	--
Ca7_P2_3612730	Ca7	3612730	G/GTTTAA	CTATGGCATCGACATTG CAT	ATCGAGAGATCGCGAG AGAG	59.8	803	INTERGENIC	--	--	--
Ca7_P2_3612993	Ca7	3612993	ATATAATT/AT	AACACTCCGTATGTCCC ACC	ATCGAGAGATCGCGAG AGAG	59.8	148	INTERGENIC	--	--	--
Ca7_P2_3613493	Ca7	3613493	CTTT/CTTTT	GCAAGTGCTCCCATTC ATT	ACTTGGCAATGCAAGA GTCC	60.3	297	INTERGENIC	--	--	--
Ca7_P2_36149566	Ca7	36149566	TTATATATATATATATATA/TTATATATATATATATATATATATATA	CCGTACCGTTTCTGGG ATTA	TGCACGGCAATTACAA CAAT	60.0	399	INTERGENIC	--	--	--
Ca7_P2_3617634	Ca7	3617634	TAAA/TAA	CCGCTACTTTTTCGAAC ACTTC	TCAAACCAACCCCAAA AATA	60.0	626	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_36202770	Ca7	36202770	CTATTATTATTATTATTATTAT/CTAT TATTATTATTATTAT	GTGGCATTCCAATCAAA CCT	CTCGGTTCAACATTC CCA	59.9	825	INTERGENIC	--	--	--
Ca7_P2_3621677	Ca7	3621677	CATAAAATCCATTCAATAAA/CATAAA	TGTGATTTAAGGGAGTC AAACG	TCAACATCAAAATCCATC AAATAAA	58.4	620	INTERGENIC	--	--	--
Ca7_P2_3622629	Ca7	3622629	ATTTTT/ATTTTTTTT	TGCTTTAGTCACCATTC CACA	ATGACGTGTTCCACAA CCAA	59.9	707	INTERGENIC	--	--	--
Ca7_P2_3624340	Ca7	3624340	T/TA	TAAATTTGGCGCGTGTA GTG	CGAGCACAGTGTGATG GAGT	59.9	386	INTERGENIC	--	--	--
Ca7_P2_36244087	Ca7	36244087	GTCCTCTCTCTCTCTCTCTCTCT/G TCTCTCTCTCTCTCTCTCTCTCTCT	TCCATGAAACCAAAGCA TGA	TGAATTTTCGGCAATCA CAA	60.1	681	INTERGENIC	--	--	--
Ca7_P2_3625079	Ca7	3625079	GCATCATCA/GCATCA	CTGATGATGGTGTCTCA CGG	GAGATGTGGTGTGATG TCGG	60.0	414	INTRON	Ca_03106	E	--
Ca7_P2_3627514	Ca7	3627514	CA/CATTA	ACCATGGTTGTTTTCCC TTG	GGTTAGTCGCAGTGCT TGCT	60.6	199	INTRON	Ca_03106	E	--
Ca7_P2_36283006	Ca7	36283006	TTATATATATATATAT/TTATATATATA TATAT	TAGTGCTCTGACGTCC CAAA	TTTTTGACGCATCTTCA ATTT	57.4	563	INTERGENIC	--	--	--
Ca7_P2_3629960	Ca7	3629960	TTTATTA/TTTA	ATTGCCATGTGGGTCA GAGT	TGGCAACATAATGTCC ATGC	60.4	390	INTRON	Ca_03106	E	--
Ca7_P2_3631941	Ca7	3631941	ATTT/ATTTATTTTT	GATAACGGCATGGAGA AGGA	TAACAACGTCCACCTG CAAA	60.1	512	INTRON	Ca_03106	E	--
Ca7_P2_36353585	Ca7	36353585	TTAATTAAATAAT/TTAATTAAATAATTAA ATAAT	CACCGATGTGAAATCTC TATTTTT	CGCTTTCAGCCAACTT GTGT	61.3	996	INTERGENIC	--	--	--
Ca7_P2_3635672	Ca7	3635672	GTTTTTTTTT/GTTTTTTTTTTTT	TTTTGGTTGGTGGTCCA TTT	CATTCCAAACGGGTCC TAAA	59.8	481	INTRON	Ca_03106	E	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_36358822	Ca7	36358822	AAGAGAGAGAGAGAGAGAGA/AAGA GAGAGAGAGAGAGAGA	AAAACCCCAACTCAACC GTA	TCGCGCTTTCTTTCTCT CTC	60.0	587	INTERGENIC	--	--	--
Ca7_P2_3640392	Ca7	3640392	CAAAAATT/CAAAAATTCCTACATAAAAA TT	GTCTGAGCACCTGGAA GAGG	ATGTAGAGCCTGATGC ACCC	60.1	639	INTRON	Ca_03105	--	--
Ca7_P2_36475569	Ca7	36475569	GA/GAA	GAAAATGTGAGTTTAAT TCCCCA	TGGCCTATGTGCTTCT ATTGG	60.1	235	INTERGENIC	--	--	--
Ca7_P2_3649235	Ca7	3649235	GAATCCAATATCTA/GAATCCAATATCT AAAAATCCAATATCTA	GTCCGAGTCCTAACAG CAGC	TCATGGTGAGATTGGC AAAA	60.0	722	DRR	Ca_03103	U	LBD
Ca7_P2_3650904	Ca7	3650904	TCCCCC/TCCC	ATTACCTGGTCGCAGC AAAC	AGCTGCGTGCTCCTAT CATT	60.0	616	INTRON	Ca_03103	U	LBD
Ca7_P2_36511713	Ca7	36511713	GTTTTTT/GTTTTTTT	TGGGTTTTGTTGAAGA TTTTG	CTCTGCCACCCATCTA CCAT	60.0	694	INTERGENIC	--	--	--
Ca7_P2_36592728	Ca7	36592728	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTAT/TTTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTAT	TTTTGGGGTTGCTGGT AGAG	TAAAGGACCAAGTCGG GAAA	59.5	464	INTERGENIC	--	--	--
Ca7_P2_36592808	Ca7	36592808	GTATATATATATATATAT/GTATATAT ATATATATAT	TTTTGGGGTTGCTGGT AGAG	TAAAGGACCAAGTCGG GAAA	59.5	464	INTERGENIC	--	--	--
Ca7_P2_36614559	Ca7	36614559	GAAAAAAAAA/GAAAAAAAAA	CACCTACGACAGGGTG ACCT	CGCAAATCGAACAACA AAGA	59.8	545	INTERGENIC	--	--	--
Ca7_P2_36636517	Ca7	36636517	AC/A	ACATAAGCCAAACAACC CCA	TGGCAACTTTGCTCGT CATA	60.4	722	INTERGENIC	--	--	--
Ca7_P2_36637269	Ca7	36637269	TATTATATATATTACA/TA	TATGACGAGCAAAGTT GCCA	TTTAGGCCCTTGATGG TTTT	58.6	917	INTERGENIC	--	--	--
Ca7_P2_3664620	Ca7	3664620	TAAA/TAAAA	CTTCACCAACCCAAAGC AAT	CTGTGGGCAACAATC TGTG	60.2	605	INTRON	Ca_03103	U	LBD

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_36663708	Ca7	36663708	TAA/TAAA	CAAAATTGTCATCCGG TTT	TGTGACCCATACGAAT GCAA	60.9	612	INTERGENIC	--	--	--
Ca7_P2_3670558	Ca7	3670558	A/AT	AAGGCAATAGGTGATG GTGG	TCACTATTACACGCG GAAG	59.9	717	DRR	Ca_03102	TU	--
Ca7_P2_3672046	Ca7	3672046	AT/A	ACATAGGTCGGCATACTCGG	TACAGTTTCAGCCTGG GTCC	60.1	330	DRR	Ca_03102	TU	--
Ca7_P2_3675233	Ca7	3675233	GT/GTCAGTT	AATGTTCTCCACAGGA TCG	TTTGGTCATGATTTGCA GCA	60.2	285	INTRON	Ca_03102	TU	--
Ca7_P2_3676987	Ca7	3676987	ACTC/ACTCTC	TTGAGTGGCATTTCAGC AAG	TCCTTCTCCTCAAAATCGA AGG	59.2	492	INTERGENIC	--	--	--
Ca7_P2_3677148	Ca7	3677148	TC/T	TTGAGTGGCATTTCAGC AAG	TCTTGGCATGGAAACA CAAA	60.1	610	INTERGENIC	--	--	--
Ca7_P2_36774662	Ca7	36774662	TTTATTATTATTATTATTATTATT/ TTTATTATTATTATTATTATTATT ATTAT	TGGCCTGACCTACTTAT GGC	GGCCTGAGTCTGACCT ACGA	60.4	580	DRR	Ca_13762	I	BES1
Ca7_P2_3679296	Ca7	3679296	GC/GCAAAAAAATATC	GAAAGGGGCTCAGAGG TAGG	GGTAATCACCAAAGTC CATGC	59.3	940	INTERGENIC	--	--	--
Ca7_P2_36803710	Ca7	36803710	TTT/TTTTATT	AAGTGATCTTTGATGC ACAGG	TGACATGTGCAAATTG AAAGG	59.6	720	INTERGENIC	--	--	--
Ca7_P2_3682108	Ca7	3682108	TCGATTC/T	CCATTTGCAGGATTCAA GGT	GGTGCTTTGCTACCTA GCCTT	59.9	629	INTRON	Ca_03101	--	--
Ca7_P2_3683696	Ca7	3683696	TA/T	CCATGAAATCACCTTAA ATGACA	CCGACAAGGCGACAAG TAAT	60.1	451	DRR	Ca_03101	--	--
Ca7_P2_3687092	Ca7	3687092	TTCT/TT	AAACAACATATCCATCC AACCA	ATAAGTGGCGTGTGTG GTGA	60.0	244	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_36871436	Ca7	36871436	AAGAGAGAGAGAGAGAGAGAGAGA/AA GAGAGAGAGAGAGAGAGAGAGAGA	TGAGCTGAAACAACATG CGT	TGTCGGGAACCATTC CTTA	60.3	893	DRR	Ca_13774	R	--
Ca7_P2_36884880	Ca7	36884880	TTTCTTCTTCTTCTTCTT/TTTCTTCTT CTTCTTC	TTGGGGTAAGTTGGCT CTTG	TTCTACACGTTTGCAG CAGG	60.1	570	DRR	Ca_13775	I	--
Ca7_P2_3689211	Ca7	3689211	CTTTTT/CTTTTTTT	AACCAATGACCATCGA GAATC	TGGGATTCTCTGTAC CTCACA	59.6	513	DRR	Ca_03100	S	--
Ca7_P2_3689317	Ca7	3689317	ATTTT/ATTT	AACCAATGACCATCGA GAATC	ACTCCTCTTCCCCCTA CCAT	58.9	640	DRR	Ca_03100	S	--
Ca7_P2_3689525	Ca7	3689525	GTTTT/GTTTT	AACCAATGACCATCGA GAATC	TTTCCCAACGGTATCC ACAT	60.1	914	DRR	Ca_03100	S	--
Ca7_P2_3689798	Ca7	3689798	TAGAGAG/TAGAG	ATGGTAGGGGAAGAG GAGT	CTTTTCGTTGGCCAAT GTT	60.0	381	DRR	Ca_03100	S	--
Ca7_P2_3691358	Ca7	3691358	TAAA/TAA	GCACAAAAGGAATGC ATCA	AAGAAGGATCGGACGG AGAT	60.0	963	INTRON	Ca_03100	S	--
Ca7_P2_36942427	Ca7	36942427	AATATATATATATATATATATATAT A/AATATATATATATATATATATATA TATA	TCTCCACACAAACACAG TCG	CATGAGCAGACCAACT GCAT	59.9	320	INTERGENIC	--	--	--
Ca7_P2_36946501	Ca7	36946501	CTATATATAT/CTATATATATAT	TCTGGTTGTCATGT GTCAA	TATCCGGTGGAACAT GAAT	60.0	275	INTERGENIC	--	--	--
Ca7_P2_37004366	Ca7	37004366	TATAATAATAATAATAATAATAA/TAT AATAATAATAATAATAATAA	ATCCTTGTAATAGCGA CCG	TGGTGTGATAAACGG AGACA	59.0	713	INTERGENIC	--	--	--
Ca7_P2_37013254	Ca7	37013254	GAG/GAGTAAAGAAG	GTCGAAACGGCTCCAT ACAT	CACGTTCCCTCACGGT TACT	60.0	267	INTERGENIC	--	--	--
Ca7_P2_37126197	Ca7	37126197	TGAG/T	TTGCCGCTGGAAGAG AGTT	TAGACCAGGTGTGCGA AATG	59.7	519	INTRON	Ca_13794	E	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_37205527	Ca7	37205527	A/AAT	TTGAAATAATTGCGTTG CCA	TGTGCCGATGATGATG TTCT	60.1	666	INTERGENIC	--	--	--
Ca7_P2_37282003	Ca7	37282003	GTAAATAAATAAATAA/GTAAATAAATAA	GCGAGGGAATTATAGC CACA	TCGTGTAGCCAATAGC TTTGTT	59.0	374	INTERGENIC	--	--	--
Ca7_P2_37282057	Ca7	37282057	GAATAAATAAATAA/GAATAAATAA AAATAAATAAATAAAT	GCGAGGGAATTATAGC CACA	TCGTGTAGCCAATAGC TTTGTT	59.0	374	INTERGENIC	--	--	--
Ca7_P2_3732489	Ca7	3732489	TTATATATATAT/TTATATATATATAT	AAGTGCCATATTTTCTC TTTCCA	TACTAAAGCCAATGAC CGGC	60.1	208	DRR	Ca_03096	T	--
Ca7_P2_37373813	Ca7	37373813	T/TA	CGATTTTGTTCGCAAG TCC	TTGTTTCACCACCGTTT CAA	60.0	701	INTERGENIC	--	--	--
Ca7_P2_37486894	Ca7	37486894	C/CAAG	TGACAACAAGGAGTGG CAAG	CACATTTTTCACCGCCAA TTT	60.0	372	INTERGENIC	--	--	--
Ca7_P2_37507377	Ca7	37507377	ATTTT/ATTT	TTGTGCTGATTCCACCA TGT	TCTCCTCCACCTCTCG CTAA	59.9	803	INTERGENIC	--	--	--
Ca7_P2_37530241	Ca7	37530241	TTAT/TTATAT	CCATTTTGGAAGGGC TAGA	TCAATTGGCATCAGAG TTCG	59.8	504	INTERGENIC	--	--	--
Ca7_P2_37548473	Ca7	37548473	GTCA/GTCATCA	CAAACGCCAAACACAAA CAC	ACAATGTGTTGGACTT GCCA	60.0	593	INTERGENIC	--	--	--
Ca7_P2_37556688	Ca7	37556688	TAAAAA/TAAAAA	GGGCTGACATTTTCAC CAAA	CCAAGTGGTCCCAA AATC	59.3	400	INTERGENIC	--	--	--
Ca7_P2_37568106	Ca7	37568106	CT/C	TGTGTTGCAAGTGTGC TTGA	CCAAGTCTCATCTGGA AGCC	59.8	259	INTERGENIC	--	--	--
Ca7_P2_37569442	Ca7	37569442	TCTGATGCTGATGCTG/TCTGATGCTG	CCAAGTGAAGCTTTT GGC	GATGCCTCCAACATGT TCCT	59.9	698	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_37595168	Ca7	37595168	ATGTGTGTGTGTGTGTGT/ATGTGTGTGTGTGT	CGTTTTGCCTCCTTCA GTC	TGGAACCCGGTAGATA CTTTG	59.0	805	INTERGENIC	--	--	--
Ca7_P2_37595726	Ca7	37595726	ATTTTTTTTT/ATTTTTTTT	CAAAGTATCTACCGGG TTCCA	CAACTCGGTTCACACC TTCA	59.7	659	INTERGENIC	--	--	--
Ca7_P2_37622218	Ca7	37622218	TCA/T	TACCCACGGTAGCTC TTTG	TTCGATCATCACCTCA ACA	60.0	722	INTERGENIC	--	--	--
Ca7_P2_37622315	Ca7	37622315	TAAAAAAA/TAAAAAAA	TACCCACGGTAGCTC TTTG	TTCGATCATCACCTCA ACA	60.0	722	INTERGENIC	--	--	--
Ca7_P2_37662053	Ca7	37662053	AATATATATATATATATATAT/AATA TATATATATATATATATATAT	TTCTCTTCAGCTGGTCG CTT	TCCCCGCAATAATAATC CAA	60.1	502	INTERGENIC	--	--	--
Ca7_P2_37695649	Ca7	37695649	CTTT/CTT	TTCTTGACAAGGGTTGA GCC	TCGGATGGTGATTCTG ATGA	60.0	717	DRR	Ca_22801	KIT	--
Ca7_P2_37711486	Ca7	37711486	TG/T	TACCCTGTGGATGGGA ATGT	TTGTGATCCGAAATG TGAA	60.0	870	DRR	Ca_22800	--	--
Ca7_P2_37714456	Ca7	37714456	TAAAAAAAAA/TAAAAAAAAA	TTCTCCTTGAAGCTGTC GGT	GAGCCCACTAAACCCA CAAA	60.0	578	DRR	Ca_22799	--	--
Ca7_P2_37752611	Ca7	37752611	ATTTTTTT/ATTTTTTTT	TCGACAAATGCAATGT CGTA	CTGGTTCCCCTTATGA CCAA	59.8	860	INTERGENIC	--	--	--
Ca7_P2_37863664	Ca7	37863664	TAC/TACAC	GCGAAAGCGCTTCATT TAC	TTACAAAGCATGTTGT CGG	59.6	806	INTERGENIC	--	--	--
Ca7_P2_37904675	Ca7	37904675	TAAAA/TAAAA	TAGGGACGACGAAAT GACC	CCGTGCTCCCTAGGCT TATT	60.6	212	INTERGENIC	--	--	--
Ca7_P2_37928727	Ca7	37928727	GATATATATATATATATATATATA/ GATATATATATATATATATATA	ATTGTGTCCGCAGGAA AATC	GTGTGTGTTCCACTGC CATC	60.0	329	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_37964071	Ca7	37964071	T/TTTCAA	CCACCATGCAAGGAGT TTTT	GCACGTTGTAATGAAC GGTG	60.0	470	DRR	Ca_16386	--	HD-ZIP
Ca7_P2_38073484	Ca7	38073484	GATAATAATAATAATAATAATAATA TAATAATA/GATAATAATAATAATAATA TAATAATAATAATAATAATA	TGGAGAGAAACAAATC GGG	TCTGTCTCGCTCACATA CCG	60.0	424	INTERGENIC	--	--	--
Ca7_P2_38154772	Ca7	38154772	GAAAAAA/GAAAAAA	TGTTCTTCAGTTTGGGG GAG	TTGCCCTTTGAGTCGA TTTT	59.7	625	INTERGENIC	--	--	--
Ca7_P2_38157493	Ca7	38157493	GTATATATATATATATATATATATATA T/GTATATATATATATATATATATATATA	TCTCGCTCAACAATAAC AAACC	TTGAACCATCTCTTCAT GCG	59.8	598	INTERGENIC	--	--	--
Ca7_P2_38206742	Ca7	38206742	TTTTATTTATTTATTTATTTATTTA/ TTTTATTTATTTATTTATTTA	TATAGGTTGCGGGTTC CTTG	TGGGTGCATGGTATAA TCCTC	59.7	133	INTERGENIC	--	--	--
Ca7_P2_38293400	Ca7	38293400	GA/G	GAGGCAATTGCTTGA ACTC	TTGCCAATCGATGGTG TTTA	59.9	518	INTERGENIC	--	--	--
Ca7_P2_38306922	Ca7	38306922	ATTTTTTTTT/ATTTTTTTTT	ATGGCCAAAATGAGA GCAA	TAACGATCCCATTCA AGG	59.9	478	INTERGENIC	--	--	--
Ca7_P2_38331525	Ca7	38331525	AAGAGAGAGAG/AAGAGAGAGAGAG	TGTGCAACACCAAAACC CTA	CACATCTGCTGCACC CTCC	60.8	174	INTERGENIC	--	--	--
Ca7_P2_3836255	Ca7	3836255	CAGA/CA	CGATTATTTTTCGTTG GGT	TTTGAGGGACAAAAC TGGG	59.9	882	INTERGENIC	--	--	--
Ca7_P2_38383093	Ca7	38383093	ATTTT/ATTTT	TTTCGACGACGATAAA CAATG	ATTTTGTGGTGATGTG GCA	59.8	170	DRR	Ca_16412	--	--
Ca7_P2_38386125	Ca7	38386125	ATTTTTTTTTTT/ATTTTTTTTTTT	TGGAACAGAGATCTA GAGGGG	ACGAGTTATGGGCTAA TCCG	59.1	184	DRR	Ca_16413	R	C3H
Ca7_P2_38401031	Ca7	38401031	AATATATATATA/AATATATATATATA A	TTCCCTGGTTGTTGAA TCC	AGCAACACAAATCACT CCTTG	59.3	546	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_38449321	Ca7	38449321	A/AAT	GCGACTTTCACGTGG TTTT	CCGATTCCCAAAGGT TTTT	60.2	501	INTERGENIC	--	--	--
Ca7_P2_38449663	Ca7	38449663	TTATATATATATATATAT/TTATATATA TATATATATAT	AATTCAGTTCGAAATG CCG	TCAAATGACGAATCCC ACA	59.9	541	INTERGENIC	--	--	--
Ca7_P2_38457300	Ca7	38457300	T/TCTGAACTGAAC	TCATGATGAGGCAATT GGA	TTGGTTTATTGGGTTG GGA	60.0	385	INTERGENIC	--	--	--
Ca7_P2_38457330	Ca7	38457330	CATATATATATATA/CATATATATATATA TA	TCATGATGAGGCAATT GGA	TTGGTTTATTGGGTTG GGA	60.0	385	INTERGENIC	--	--	--
Ca7_P2_38514465	Ca7	38514465	CAA/CAAA	TCAAATAAACATGCAT TCCAAA	GAACCTGCCTTCCAG CAAC	60.0	535	INTERGENIC	--	--	--
Ca7_P2_38539687	Ca7	38539687	AATATATATATATATATATATATATA/A ATATATATATATATATATATATATATA	TGGCCATAAAATATGCC TGA	AGACCGAGTTATAGTT GTGTTG	57.5	635	INTERGENIC	--	--	--
Ca7_P2_38579414	Ca7	38579414	TTATATATATATATATATATATATATA TATATATATATAT/TTATATATATATATAT ATATATATATATATATATATATATATA TAT	AGCCATGACTTCATAGT GCATC	CATTAGATGAAAGACAA AGTCCCA	59.5	859	INTERGENIC	--	--	--
Ca7_P2_38587448	Ca7	38587448	GATATATATATATATATATATATATAT A/GATATATATATATATATATATATATAT A	GGATGTTCACCCAATTC CAC	AAAGGGCTAAACAGCA GCAA	60.0	558	INTRON	Ca_16422	I	--
Ca7_P2_38613431	Ca7	38613431	CA/CATTAAGAA	TTGAGTGGGCTCTATAC CCG	CAAACTGCCGGTACT GGAT	60.0	796	INTERGENIC	--	--	--
Ca7_P2_38626397	Ca7	38626397	GATAATAATAATAATAATAATAATAA TAATAATAATA/GATAATAATAATAATA TAATAATAATAATAATAATAATAATA	CCAAGCCCAATAAAACC CTT	GGACTCACTCCCCAA TTGA	59.9	131	INTERGENIC	--	--	--
Ca7_P2_38627576	Ca7	38627576	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	TCACCACAACCACTACC AACA	AACTGCTTCAACCCCC TTCT	60.1	501	INTERGENIC	--	--	--
Ca7_P2_38669981	Ca7	38669981	TTTTATTTATTTATT/TTTTATTTAT TTATTTATTTAT	CCTGCCGGTTTATTTG TTC	GCGATCGAATGGCAAT ATCT	60.0	657	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_38673360	Ca7	38673360	GAAAAAAAAA/GAAAAAAAAA	TGCATGTAAACATCAT TCAAAA	TTGTGGCTTCAACCA GTGT	59.2	519	INTERGENIC	--	--	--
Ca7_P2_38743655	Ca7	38743655	CTATTTATTTATTTATTTATTTAT T/CTATTTATTTATTTATTTATTTAT TTATTTATTT	CTTAGGTTTGCACTCAG CCC	CTCAATCGTGGGTGAC CTTT	60.0	932	INTERGENIC	--	--	--
Ca7_P2_38744999	Ca7	38744999	TTTATTATTATTATTATTATTATTAT ATTATTATTATTATTATTATTATTAT TATTATT/TTTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT ATTATTATT	TCTTCTTGTGGCCGACT CTT	TTGCAAAACCAAAAAG GGAA	60.4	765	INTERGENIC	--	--	--
Ca7_P2_3881771	Ca7	3881771	AG/AGG	GCAGGGAATTGCATT CTGT	TGCTTTACTTGGGGAA CACC	60.0	753	DRR	Ca_03075	T	--
Ca7_P2_38831316	Ca7	38831316	AATATATATATATATATATATATA/A ATATATATATATATATATATA	GCCATTGGAATGACG ACTT	ATTGGAAC TTGGGCT TCCT	59.9	497	INTERGENIC	--	--	--
Ca7_P2_38838898	Ca7	38838898	TAC/T	TGCTATGAAGCACCTTC CTG	CCAAGCCGTCTAAGAG CATC	60.0	139	INTRON	Ca_16433	C	bHLH
Ca7_P2_38882826	Ca7	38882826	T/TTGTC	TGCCTCAAAGGCTTCAT CTT	GAGGATCGGTACATT TGGT	59.8	413	INTERGENIC	--	--	--
Ca7_P2_39029671	Ca7	39029671	C/CTAAGTCTA	CAATGGCTTTGTTGAAT TGG	TGCCGCTATGTACTTTT GGC	61.2	789	INTERGENIC	--	--	--
Ca7_P2_39032671	Ca7	39032671	TC/T	ATCAATCCTAAGGAGC GCAA	CTTGGCAAGACGAAAA ATCA	58.9	700	INTERGENIC	--	--	--
Ca7_P2_39053158	Ca7	39053158	A/ATAT	AACCCCAATCCCTAAC CTG	TTTTTGTGCTTTGATT GATGTT	59.4	780	INTERGENIC	--	--	--
Ca7_P2_3905558	Ca7	3905558	TG/T	ACTCTGTGTTTGAGGT GGGG	TGAGGGATGAAGAGGA CAAAA	59.7	468	INTERGENIC	--	--	--
Ca7_P2_39110983	Ca7	39110983	TTATATATATATATATATATATAT/TTA TATATATATATATATATATATATAT	AGCGTGATTCTTGCTTC CAC	TCGAAAATGAAAATGG GAATC	58.9	341	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_39118970	Ca7	39118970	AATATATATATATATATATATATAT AT/AATATATATATATATATATATAT ATATAT	TCGTCAAATGCATAACT CAAATG	CCCAAAGTGTGAAACA ACCA	59.4	579	INTERGENIC	--	--	--
Ca7_P2_3913447	Ca7	3913447	TATTTATT/TATTTATTCATTTATT	AAAGCAACCCATGTTTC TGG	AGCAGGGTTGGAAGTC GTAA	59.7	620	INTERGENIC	--	--	--
Ca7_P2_39149719	Ca7	39149719	AT/ATT	GCACTAAGTCAGGGGC TCAG	TGGAACCCATTCACAC AAGA	59.9	577	INTERGENIC	--	--	--
Ca7_P2_39175560	Ca7	39175560	CGTT/CGTTGTT	ATTGGTGATTGATGCAA GGG	GCTACAAAAATTTGAAA GACACAGA	59.0	447	INTERGENIC	--	--	--
Ca7_P2_39275720	Ca7	39275720	AATTATTATTATTATTATTATTATTA TTATTATT/AATTATTATTATTATTATT TATTATTATTATTATTATT	TGGCACTTGTCCTTT CCA	TGACATTAGTGCAACA CGAGG	59.8	360	INTERGENIC	--	--	--
Ca7_P2_39282936	Ca7	39282936	GATATATATATATATATATATAT/GAT ATATATATATATATATATATATAT	TTCAATGTGAGCAAAGT CGAT	TCCCCCAAATTCATAT CCA	60.0	391	INTERGENIC	--	--	--
Ca7_P2_3934957	Ca7	3934957	AATATATATATATATATATATAT/AATA TATATATATATATATATATATAT	TTCCATATTTGGGTGCC ATT	TGTGCATCTTTTCCAA TGC	59.7	547	INTERGENIC	--	--	--
Ca7_P2_39356359	Ca7	39356359	GTTACATTACATTACATTACATTAC ACATTACATTACACA/GTTACATTAC ATTACATTACATTACATTACATTAC ACATTACATTACATTACACA	CGGTCCCACTCGATTA AAA	CCTAGGTTTGTGTGCA GGGT	60.0	611	INTERGENIC	--	--	--
Ca7_P2_39396290	Ca7	39396290	TA/TAGAA	CGTTGAGAATGATCTTT GGGA	TATTCGACCAATGCGA AGGT	60.5	160	INTERGENIC	--	--	--
Ca7_P2_39404005	Ca7	39404005	TAGAGAGAGAGAGAGAGAGAGAG/TAGA GAGAGAGAGAGAGAGAGAGAGAG	CGCACATTTTCTTCCTT GGT	TTTCTTTTGTGTGGCG AGG	60.2	698	INTERGENIC	--	--	--
Ca7_P2_39409758	Ca7	39409758	TTATATATATATATA/TTATATATATAT ATATATA	TCCAACTCAAACCAAA TTCAA	GAAAACAATCCCCCT CCAT	60.0	485	INTERGENIC	--	--	--
Ca7_P2_39525063	Ca7	39525063	ATTTTTTTTT/ATTTTTTTTTTT	AACGACCAACTTGGGA AAAA	GGAGTGGGTACCGAG AATA	59.9	520	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_39546561	Ca7	39546561	AATATATATATATATA/AATATATATAT ATATA	AAGCTCAAAACAAATGCA CCT	TTGAGACTTTTGCCCA CTGA	59.4	143	INTERGENIC	--	--	--
Ca7_P2_3957183	Ca7	3957183	GATAATAATAATAA/GATAATAATAAA TAA	GCGACGGTGTCTGTATA GGTT	TCTGACGAGAAATTGG GTCC	60.1	606	INTERGENIC	--	--	--
Ca7_P2_39611392	Ca7	39611392	AAATAATAATAATAATAATAATAATA ATAATAA/AAATAATAATAATAATAAA TAATAATAATAATAATAATAAA	CTGTGCGCTTGACTGA TGTT	CTAAATTCGAAATTCGG CCA	60.0	930	INTERGENIC	--	--	--
Ca7_P2_39673768	Ca7	39673768	AAATCTATCACATAATCTATCACATA/AA ATCTATCACATA	TCCGTTGCTTTTGTGT TGT	TTGGTGAAAAAGCAAG AATTGA	59.7	744	INTERGENIC	--	--	--
Ca7_P2_39676495	Ca7	39676495	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT	AGCGGCAACATAAAGG TTTG	TCGCTGTGATTCCACA CTTC	59.8	835	INTERGENIC	--	--	--
Ca7_P2_39830592	Ca7	39830592	AGGGGGGG/AGGGGGG	CCTGCTCAAAGCACAC GTTA	TAATCATCTCGGGT GAGG	59.9	636	DRR	Ca_25100	--	--
Ca7_P2_39852561	Ca7	39852561	AAAAATGTTAAAA/AAAAATGTTAAATG TTAAAA	TTAATCCAACCATCACA CAAAA	CAAGCGCAGGTGTATG AAAA	59.9	749	INTERGENIC	--	--	--
Ca7_P2_39951410	Ca7	39951410	TAATA/T	CACACCATCGTTTGTG AGG	CAATCCCTAGATTGTG GCGT	60.0	848	INTERGENIC	--	--	--
Ca7_P2_39987914	Ca7	39987914	ATTTT/ATTTT	CAAATAATGCACCACT CCA	CAAGTCTCGCCCACTA AACC	59.7	141	INTERGENIC	--	--	--
Ca7_P2_4001096	Ca7	4001096	CATATATATATATATATA/CATATATA TATATATATATATA	AAAATTAAGGGTTGCC CC	TTCAAAACAGTACGTG CGGA	60.3	922	INTERGENIC	--	--	--
Ca7_P2_40011182	Ca7	40011182	TG/T	GTGAAACACCCACAAAT CCC	CAAATCGAGGTTGGAC AAGG	60.5	599	INTERGENIC	--	--	--
Ca7_P2_40086967	Ca7	40086967	A/ATTTGCTACC	GGTGAAAACCTGGGTGG AAGA	ATACAATTGTCCTGCT CCC	60.0	880	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_40086992	Ca7	40086992	G/GA	GGTGAAACTGGGTGG AAGA	ATACAATTGTCCTGCT CCC	60.0	880	INTERGENIC	--	--	--
Ca7_P2_40094527	Ca7	40094527	G/GAGA	AATGTGCATAACAAGCG TGC	AAAATTTGTTTGGGG GACC	59.9	596	INTERGENIC	--	--	--
Ca7_P2_40150502	Ca7	40150502	ATTTTTTTTTTT/ATTTTTTTTTTT	TAGACCGGCCCTAATG TTCA	TTACGACCGATCATGC ATTG	59.5	254	INTERGENIC	--	--	--
Ca7_P2_40152786	Ca7	40152786	CAAAAA/CAAAAAA	GCATATGAAAGACGCA AAAGAA	CAATTGTCCATAATTC AAAGGG	59.6	588	INTERGENIC	--	--	--
Ca7_P2_40156951	Ca7	40156951	CTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATT/CTATTATTATTATTATTATT TATTATTATTATTATTATTATTAT TTATTATTATT	TTGGCAAAGAACAATCA CCA	CGGAAAAGCATTAGGT GGTC	59.6	413	CDS (large-effect mutations)	Ca_24266	R	C2H2
Ca7_P2_40196153	Ca7	40196153	AATATATATATATATA/AATATATAT ATATATATA	TGAATGCCTACATATGG CGA	TTTGACCTTTATGGCG GTTC	59.9	741	INTERGENIC	--	--	--
Ca7_P2_4023262	Ca7	4023262	GTATATATATATATATATATATATA TATATATATAT/GTATATATATATATAT ATATATATATATATATATATATATA TATATAT	CGCTTATCATGGGACC AAAT	AAAGGGCTAAACAGCA GCAA	60.0	602	DRR	Ca_03061	U	--
Ca7_P2_40280833	Ca7	40280833	AT/A	ACCATTTACCCATAAG GCA	TCCGCTGAACCATTTTA TGA	59.1	548	INTERGENIC	--	--	--
Ca7_P2_40295688	Ca7	40295688	AATATATATATATATATATATATAT ATATATATATATA/AATATATATATATA TATATATATATATA	ATAATTAATGCGCCGT CAC	AGATTTGGGAAGCTGG GTTT	59.9	361	INTERGENIC	--	--	--
Ca7_P2_40337319	Ca7	40337319	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATATAT	TGCCTTGATCGATGAC CATA	ACGGCAAGACCCATAA ACCT	60.0	967	INTERGENIC	--	--	--
Ca7_P2_40358203	Ca7	40358203	GTATATATATATATATATATATATA TATAT/GTATATATATATATATATATAT ATATATAT	TGTTGTGGACGACGTG AGAT	TGCATTATTGAGTCTCT TCCGA	59.8	636	INTERGENIC	--	--	--
Ca7_P2_40418637	Ca7	40418637	TATAATAATAATAAT/TATAATAATAA TAATAATAAT	CGGATTCACAAACGGA CTTT	GCATTCGATTATGCCG ATCT	60.0	888	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_40430153	Ca7	40430153	AAGTAAGTA/AAGTAAGTAGTAAGTA	GTTGGTTCAAAGCAAC CGT	ACAAGGATACGTGCAG GGAC	60.0	493	CDS (FRAME SHIFT)	Ca_20258	--	Trihelix
Ca7_P2_40458424	Ca7	40458424	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CGCCTTCGTCACCTTTC TAC	GGTCCAGCAGAAGTTC AAGC	60.0	849	DRR	Ca_20261	T	Dof
Ca7_P2_40474066	Ca7	40474066	A/AT	ATCATCCCCTCCATTAC GAA	GAGGAACACAGCCCC AATA	59.9	355	INTERGENIC	--	--	--
Ca7_P2_40477267	Ca7	40477267	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	CTGGGCAAGGGATCTG AATA	AAAGCGCTGTAAATG CACA	59.5	601	INTERGENIC	--	--	--
Ca7_P2_4053248	Ca7	4053248	AG/A	CCATTTTGTGCTGCCTTC ATT	CAATGGCTCCAAATC CAAT	59.8	543	INTRON	Ca_03059	U	--
Ca7_P2_4056165	Ca7	4056165	G/GC	TTCTTGGAATTGAAGT GGC	CTGCGCTGGATTATGT GCTA	60.0	632	INTRON	Ca_03059	U	--
Ca7_P2_40591240	Ca7	40591240	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA TAATAATA	TTGTTGGAATTGCATAG AATTGA	CACCGACCTCAAATTC AACA	59.5	852	INTERGENIC	--	--	--
Ca7_P2_40599714	Ca7	40599714	CAAAAAAAAA/CAAAAAAAAA	TTGTCTCACAATCTCC CCC	CCTCATTCTGAAGGG GTCA	60.0	858	INTERGENIC	--	--	--
Ca7_P2_40748580	Ca7	40748580	T/TC	GCCCAGGATTCAAAGT TCAG	AGTTGGAGTGGTGAA GGTG	60.0	467	INTERGENIC	--	--	--
Ca7_P2_40768981	Ca7	40768981	AGGG/AGG	GGGCAAAATAACATC GACC	AGGCAATCATTGTGCA AACA	60.1	256	INTERGENIC	--	--	--
Ca7_P2_40796452	Ca7	40796452	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAAT/AAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT	TCATCAAGAGAACAG GCTG	CCCTTATCGTGACCA AGTTGT	60.3	442	INTERGENIC	--	--	--
Ca7_P2_40801094	Ca7	40801094	GGGAATTAAA/G	AAAGGGAAGTTGCAC CAAG	TTTTTGACTGACACGT GCT	59.6	728	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_40845562	Ca7	40845562	CA/C	ATCGAATGCAATTCGCA CAT	CTGTCGCTTCAGCAGA AAAA	59.3	493	INTERGENIC	--	--	--
Ca7_P2_40985025	Ca7	40985025	TAAA/TAAAAA	GCAACTGCCTTAAAAAT GGAA	GGAACGTGCGTACATT GTTG	60.0	303	INTERGENIC	--	--	--
Ca7_P2_40991897	Ca7	40991897	AATATATATATATATATATATA/AATAT ATATATATATATATATA	ACCAAGGATGGTAATG CCAA	TTTTAATTCGCGACAA GCC	60.1	687	INTERGENIC	--	--	--
Ca7_P2_41008241	Ca7	41008241	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	GCCAATCAGGACACAT CTCA	TCAGAACATTCCATCG GTGA	60.0	563	INTERGENIC	--	--	--
Ca7_P2_41008810	Ca7	41008810	TTAA/TTAACTAA	TAGCGCCTACATCGGA GAGT	GTTCAATTATGCGCAAG CATT	58.8	387	INTERGENIC	--	--	--
Ca7_P2_41009153	Ca7	41009153	TA/TAGTGTGA	TAGCGCCTACATCGGA GAGT	TTATTGAAAACCGAGG TCATGT	58.5	775	INTERGENIC	--	--	--
Ca7_P2_41009960	Ca7	41009960	ATTTTTTTTT/ATTTTTTTTTT	CATGACCTCGGTTTTCA ATAA	CCCTCACATTTTTAAGG CACA	60.0	814	INTERGENIC	--	--	--
Ca7_P2_41010142	Ca7	41010142	CAA/CAAAA	TGCAATGAATGAAAGTA TGCTACC	GAAAAAGCGCTGTAAA TGGC	59.9	815	INTERGENIC	--	--	--
Ca7_P2_41041557	Ca7	41041557	ATTT/ATT	CTAAATAGCACCCGGG GTC	CCCTCTTCCATTACCA CAA	59.8	498	INTERGENIC	--	--	--
Ca7_P2_41164510	Ca7	41164510	GTATATATATATATATATATATATA/ GTATATATATATATATATATATATA TATATA	TGTAGGCAGGAAGCGC TAAT	CATGTTAAAAAGGGG AGCA	59.9	310	INTERGENIC	--	--	--
Ca7_P2_41170096	Ca7	41170096	TCT/ACTA	TAAGTTGTCTGGGA GGTG	CGGCGAATTTGTTTCT TTT	59.2	667	INTERGENIC	--	--	--
Ca7_P2_41183445	Ca7	41183445	CTATATATATATATATATATATATA TATATATATATAT/CTATATATATATAT ATATATATATATATATATATAT	TCTTTGGTTTTACGGTT GCC	GAATAATATTTATGCG ATTTTACGTG	58.6	654	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_41226170	Ca7	41226170	AATATATATATATATATA/AATATATAT ATATATATATATA	TTCATCAATGGCACAAG AAAA	TCCTTGGGGATTTGT GAAA	60.3	500	INTERGENIC	--	--	--
Ca7_P2_41250872	Ca7	41250872	AT/ATTATT	GTGATATTGGGGTCG AATG	AAGGGTCCTCTTGAAG CGTT	60.2	680	INTERGENIC	--	--	--
Ca7_P2_41251256	Ca7	41251256	AG/A	CCAATAGTTTAGTGGG CCAAA	AAGGGTCCTCTTGAAG CGTT	60.2	213	INTERGENIC	--	--	--
Ca7_P2_41252327	Ca7	41252327	TTAT/TT	TGCAATGCAATGTCCAT TTT	TTTTTCCTCATGGTGCA GTG	59.7	324	INTERGENIC	--	--	--
Ca7_P2_41283416	Ca7	41283416	A/AAG	GGTAAACCAATAGCAG CGGA	GAAAAACAGCCCAAT TCAA	59.9	566	INTERGENIC	--	--	--
Ca7_P2_41429174	Ca7	41429174	TAA/TA	TGAGACCGGGTTTGAG TACC	CTGCTGCTCTTGATC TCAG	60.0	385	INTERGENIC	--	--	--
Ca7_P2_41439402	Ca7	41439402	TTT/TTTATTAAGTAGACGGTT	TTTTATTAGGCCTGAA GGGT	CGCCAAGTAACCACCA AAGT	60.0	503	INTERGENIC	--	--	--
Ca7_P2_41484126	Ca7	41484126	GTATATATATATATATATAT/ATATAT ATATATATATATATATAT	AGATTGCGAGGCAGTT GAGT	CGAGAGAGTGTACGC ATGT	60.1	701	INTERGENIC	--	--	--
Ca7_P2_41524611	Ca7	41524611	ATTT/ATTTT	AAGTGTGGGCATTTCCT TTG	TCATCACCATAACCGA CGAA	59.9	502	INTERGENIC	--	--	--
Ca7_P2_41545952	Ca7	41545952	CT/CTTT	TCATTCTGAAATTGCG ACG	GCGACAATGGGTGTGA CTAA	59.6	540	INTERGENIC	--	--	--
Ca7_P2_41557969	Ca7	41557969	AATATATATATATATATATATA/AAT ATATATATATATATATATATATATA TATATA	ATTGATAGGGCATGCAT TGG	CAGTAGGCCACCTTCG ACAT	60.1	533	INTRON	Ca_17992	E	TALE
Ca7_P2_41564191	Ca7	41564191	CTATATATATATATATATATATATAT/C TATATATATATATATATATATATATAT AT	TGCACTCACTCCAACAC ACA	CCTATCATGTTTGGC CTGT	59.8	762	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_41573586	Ca7	41573586	ATTTTTTTT/ATTTTTTTT	CTGAGAGCATCCCCAA TGAT	TTCGTCGTGGATTTAT TCAA	58.1	754	INTERGENIC	--	--	--
Ca7_P2_41590134	Ca7	41590134	CATATATATATATATATA/CATATATA TATATATATATA	TTTGGCAGACCCAAAT ACA	TTGTGGGGTTTGATA CCAT	59.9	468	INTERGENIC	--	--	--
Ca7_P2_41625152	Ca7	41625152	ATAGTTCCTTTGAAAGTAG/ATAG	AATTGAGTTTCCCGTGG TCA	ACCATGCAAAGATGCT CACA	60.3	507	INTERGENIC	--	--	--
Ca7_P2_41739480	Ca7	41739480	CTTTATTTATTTATTTATTTATTTA TTT/CTTTATTTATTTATTTATTTAT TTATTTATTT	CTTTTGTTCGTCGCCT AGC	TTGCTCCTACGTATCTC CCG	60.2	852	INTERGENIC	--	--	--
Ca7_P2_41750856	Ca7	41750856	AATATATATATATA/AATATATATATAT A	TTTTGCATATTAATTTG GGTGC	ATCGTGGCAGTGGGTA TCTC	60.0	742	INTERGENIC	--	--	--
Ca7_P2_41814396	Ca7	41814396	TTATTAATATTAATATTAATTAATATT A/TTATTAATATTAATATTAATATTA	ATTTGTTGTTGGTTGGG CTC	CACCTGTTACTGCCAC CAGA	59.7	272	INTERGENIC	--	--	--
Ca7_P2_41814485	Ca7	41814485	GAAAAAA/GAAAAAA	ATTTGTTGTTGGTTGGG CTC	CCCAATTATCAGGCAA GGAA	59.9	611	INTERGENIC	--	--	--
Ca7_P2_41913410	Ca7	41913410	AG/AGG	TGGAAATGCACGTGTA CAAAA	TTGGTTGGTGGTTCGA ATGT	61.2	400	INTERGENIC	--	--	--
Ca7_P2_41949765	Ca7	41949765	TAA/TA	CTGACCATCAATGGG TCCT	GGCCAGTAAAGTTCTG GAAT	60.3	587	INTERGENIC	--	--	--
Ca7_P2_42047681	Ca7	42047681	CTACTT/C	GTTAACACGGTCATTCG CCT	CATGGGCGATAGAAGG AAAA	60.0	631	INTERGENIC	--	--	--
Ca7_P2_42052936	Ca7	42052936	C/CTATAATCATTA	CAAAGCGGGCTTAATT CAC	CTCAATTGTGCATGAA GCGT	59.9	375	INTERGENIC	--	--	--
Ca7_P2_42059032	Ca7	42059032	TAAAAAA/TAAAAA	TCGGATCAATTTAGTCT CCAAA	CGCAATAAATCATCG CAGA	59.8	432	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_42085502	Ca7	42085502	ATTTTTTTTTT/ATTTTTTTTTT	TGCTCAACCTCAACGAA ATG	GGACATTTGAAGGGCA AAAA	59.9	227	INTERGENIC	--	--	--
Ca7_P2_4233766	Ca7	4233766	TTCTCTCTCTCTCT/TTCTCTCTCTCT CTCTCT	TATGTTCTGCCACAAGC AGC	CGCCACTCAAAACAT GCTA	59.9	740	INTERGENIC	--	--	--
Ca7_P2_42364254	Ca7	42364254	AATATATATATATATATATATATATAT ATATAT/AATATATATATATATATATAT ATATATATAT	CATCTCGGGTTGCTGA AAAT	TTTGAAACCCCTAAC CCG	59.8	363	INTERGENIC	--	--	--
Ca7_P2_42472631	Ca7	42472631	CTTTTTTTTT/CTTTTTTTTT	TGACATGAAATTCAAA CCCC	TTTTGATTTGTCTCTT TGATGGA	60.0	772	INTERGENIC	--	--	--
Ca7_P2_42487577	Ca7	42487577	AATATATATATATATATATATATATAT AATATATATATATATATATATATATAT ATAT	TGATTGATTGGGTGCT CTGT	TAAGGCCCATGTTCAA GGTT	59.4	489	INTERGENIC	--	--	--
Ca7_P2_42539752	Ca7	42539752	GTT/GT	TGGTAGTATTGCGTTTG ATTTTC	TTTGGCATTGGTTTCAC TCA	60.1	704	INTERGENIC	--	--	--
Ca7_P2_42568760	Ca7	42568760	AT/A	GCAAGGTTTGACGTC ACTA	AAATTTGTCTTCGCATT TCCA	59.6	293	DRR	Ca_20212	K	--
Ca7_P2_42573183	Ca7	42573183	TC/T	AAAATAACCCAGAAACC CGC	GAGTTCCTCAATGGCGA CTTC	59.7	170	INTERGENIC	--	--	--
Ca7_P2_42582021	Ca7	42582021	TTATATATATATATATATATATATATA TATATAT/TTATATATATATATATATAT ATATATATATAT	TCAATCGGAAGGAGAA GGTG	TGCCCACTTATACAGC AAAGG	60.1	740	DRR	Ca_20211	--	--
Ca7_P2_42603074	Ca7	42603074	GTATATATATATATATATATATATAT ATATAT	GGGCAACCGTTCTTTCT ACA	AAATTCAGCGATCAAA CGA	58.4	741	INTERGENIC	--	--	--
Ca7_P2_4263389	Ca7	4263389	CATATATATATATATATATATATATAT ATA/CATATATATATATATATATATATA TATATATA	TTGCATAACCCAACCTGA CCA	TTAGTTTTGCGGCTTCT GCT	60.2	166	INTERGENIC	--	--	--
Ca7_P2_42738535	Ca7	42738535	TAAAAAA/TAAAAAAA	TCCCGCTACACTTTGAG GAC	TCAAAGCAAGTGTGG CAGG	60.0	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_42757617	Ca7	42757617	TA/TGGTTTGAAGTTTGCA	TTTGCTCTGAAAGCCCA AAT	AGTTCCTGCAACTCG AAGA	60.0	527	INTRON	Ca_20201	--	--
Ca7_P2_42769218	Ca7	42769218	TTACAGGGCC/T	ATGGTTTTGGCCACTTC TTG	AAAGAACAGGGCATGC AAAC	60.1	530	INTERGENIC	--	--	--
Ca7_P2_42834810	Ca7	42834810	AATATATATATATATATATATAT A/AATATATATATATATATATA	TTTCTTCGCGTTTGACT AATG	GACATAAGAATGGAGG CGGA	60.0	691	INTERGENIC	--	--	--
Ca7_P2_42836471	Ca7	42836471	TCTGCT/TCT	ATTTGACCCATGCCAAT GAT	CATGGTAGCTCCCGAC ATTT	60.0	280	INTERGENIC	--	--	--
Ca7_P2_42848633	Ca7	42848633	ACC/ACCC	TGAAATTATGGGTGGG CATT	TGCACATTTTACAGCG CTTC	60.0	385	DRR	Ca_20198	--	Trihelix
Ca7_P2_42927472	Ca7	42927472	TTGTCAT/TT	ACGGCAAGACCCATAA ACCT	CTTTGTTTTTACCGAC CGT	60.0	617	INTERGENIC	--	--	--
Ca7_P2_42951014	Ca7	42951014	CAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAAT /CAATAATAATAATAATAATAAT AATAATAATAATAATAATAAT	AACAATTTTCTCACC CCC	AAAATCAGAGCAAGGA GCCC	60.7	722	DRR	Ca_20195	--	ERF
Ca7_P2_43011755	Ca7	43011755	TTATATATATATATATAT/TTATATATA TATATAT	TGCCAATTTTCAAAGG TTTTT	GCCCAAGTTCGAAATG TTGT	60.0	351	INTERGENIC	--	--	--
Ca7_P2_43220224	Ca7	43220224	CTATATATATATATAT/CTATATATATA TATAT	AACCCTATTCCAGCGCT TTT	TCAGGAAAAGAAGAAG GGCA	59.9	730	INTERGENIC	--	--	--
Ca7_P2_43226692	Ca7	43226692	AATATATATATATATATAT/AATATATA TATATATATAT	CAATACGTGACCACCT GCAT	TCCTTTCCCCACATTGT AGC	59.9	526	INTERGENIC	--	--	--
Ca7_P2_43290906	Ca7	43290906	AT/ATTTTT	ATCGACTCCGAACTCA AAA	CACGGTCCCTAGAGCC AATA	60.1	394	INTERGENIC	--	--	--
Ca7_P2_4329744	Ca7	4329744	AATATATATATATATATA/AATATATAT ATATATATATATA	TTCATGAAGTGGATGTG GTGA	AAACAAAAAGTTGCTTT TACGAA	57.4	561	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_43375115	Ca7	43375115	CAAAA/CAAA	CCAATATCTCGTGTC CGT	CATTCAAGTTGGGC AGTT	60.0	335	INTERGENIC	--	--	--
Ca7_P2_43387004	Ca7	43387004	ATTTTT/ATTTTT	AAGCAATCCTCTCAAG CAA	TGCATGCTAGGCGTAT TCTG	60.0	781	INTERGENIC	--	--	--
Ca7_P2_43434405	Ca7	43434405	TAAAAA/TAAAAA	CGGGTATAGAGCCCA TCAA	TGGGGACAATTGAGA GTCA	59.1	234	INTERGENIC	--	--	--
Ca7_P2_43487665	Ca7	43487665	GTT/GT	AGCTTTTCATTCCACAC CGA	CGCACTGCAGATGCAA TTTA	60.9	636	INTERGENIC	--	--	--
Ca7_P2_4351119	Ca7	4351119	TAAAAA/TAAAAA	AGCGCTCAACCATAAT TCG	TGTGGAGGTCGGTGTT TGTA	60.0	223	DRR	Ca_03023	T	HB-other
Ca7_P2_43554492	Ca7	43554492	GA/GATA	CCGTAAATCCCATGTT TTG	CAAGGTCCTCGAGGTG ATCC	59.7	759	INTRON	Ca_25034	QI	bHLH
Ca7_P2_43586944	Ca7	43586944	C/CCACGTGT	CCCCAAACCACATAAT GTC	TATTGTGAAAAGCCAT GGGG	60.7	780	INTERGENIC	--	--	--
Ca7_P2_43606803	Ca7	43606803	TATAAATAAATAAATAAATAAATAA TAAATAAATAA	TTTGGCCATGTCTCAGC TTG	TCTCCTCATTCCCAAAG TGG	60.0	814	INTERGENIC	--	--	--
Ca7_P2_43621219	Ca7	43621219	GTATATATATATATATATATA/GTA TATATATATATATATATA	TGCATGTAAACTGGTG GGA	AGCTGAACGCCTGAAC ATCT	60.0	412	INTERGENIC	--	--	--
Ca7_P2_4369825	Ca7	4369825	ATTTTT/ATTTTT	GATCGCGTTGACGAG TATT	TGGTCTCTAAATTTTG CCA	58.2	912	INTERGENIC	--	--	--
Ca7_P2_4370154	Ca7	4370154	ATTTTT/ATTTTT	TTGGTCAAAATTTGGG GTTT	CCCAACACATCTTGTC GTG	60.0	441	INTERGENIC	--	--	--
Ca7_P2_43793417	Ca7	43793417	TTATATATATATATATATATA/TT ATATATATATATATATATATA TATATA	TGAAAGAGTTTCGGTT GTTG	CGGGAGTAATTCCTTC CAAA	59.0	330	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_43811202	Ca7	43811202	CAAA/CAA	GGGTCTGGGATCAACT CTGA	TTGAACTGAATGCAAG CCAC	59.8	630	INTRON	Ca_21355	S	--
Ca7_P2_4385687	Ca7	4385687	GAAAAA/GAAAAAA	TTTAATGGGCTAAG GGAG	GTGAGAGAGTGCCCC AATA	60.1	776	INTERGENIC	--	--	--
Ca7_P2_43947800	Ca7	43947800	CATATATATATAT/CATATATATATAT	GGAGAAGGAGGAGAA ATGG	CGCTCACATCAGTGCA AACT	60.1	685	INTERGENIC	--	--	--
Ca7_P2_43968231	Ca7	43968231	CA/CAA	CAGTCAAGAGAACCAT GCGA	TTGTTCTCAATGCCTTT GTCC	60.1	499	INTERGENIC	--	--	--
Ca7_P2_43984680	Ca7	43984680	AATATATATATATATATATATATAT ATATATATATATATA/AATATATATATA TATATATATATATATATATATATAT ATATATATA	TTTGAAGGTCGCGAG AAGT	TGGACATGATTTTGTG GATG	59.2	264	INTERGENIC	--	--	--
Ca7_P2_44001613	Ca7	44001613	T/TG	TGAAACTGCCATTGGA CAAA	CAATTTCTTTGCGTGTG GTG	60.1	476	INTERGENIC	--	--	--
Ca7_P2_44083169	Ca7	44083169	T/TTC	ATGCTCTGCACTTGCA GCTA	GACGAAATCTTTTAAG AGGCG	59.4	734	INTERGENIC	--	--	--
Ca7_P2_44150096	Ca7	44150096	T/TTTA	AGTCTTACCAGCGCCA CACT	TCCCAACTACAACGAG GACC	60.0	567	DRR	Ca_21366	O	--
Ca7_P2_44150980	Ca7	44150980	TAAAAA/TAAAAAAA	TATGTGAGCTGATGCCT TGG	ACCAACCAGATCATTG AGCC	59.9	555	DRR	Ca_21367	PT	C3H
Ca7_P2_4418125	Ca7	4418125	A/ATC	CAAGTCAGCACCGACA AAGA	ATAAAAGGGTGACGTG GCAG	60.0	592	INTERGENIC	--	--	--
Ca7_P2_4424923	Ca7	4424923	AATAATTTATAATTTTATAA/AATAATTT TATAA	TTCAAGTGACTAAGCCC ATGTT	CAACAACCTCTCATGCT CGC	59.6	929	INTERGENIC	--	--	--
Ca7_P2_44269622	Ca7	44269622	TTGTTTCT/TT	AAGGGTGCAACCAAAT GAG	CTCAAAGGGGCTAGCA AATG	59.8	852	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_44280530	Ca7	44280530	GAAAAAAAAA/GAAAAAAAAA	TACAAATTGAAGGCCA GCC	TGTGCTTCAATTCTCA CGG	59.8	774	INTERGENIC	--	--	--
Ca7_P2_44372091	Ca7	44372091	GAATAATAATAATAATAATAATA /GAATAATAATAATAATAATAATA AATA	CGGAGAGTTGATTCA CACAA	CGTCAAAGACGTTCTT CAATCA	60.3	498	DRR	Ca_21371	--	--
Ca7_P2_44396434	Ca7	44396434	ACC/ACCC	ATGCATGTGAAGTAAG GCCC	ACTCAGCCTCTCTCCA ACCA	60.0	458	INTERGENIC	--	--	--
Ca7_P2_44440531	Ca7	44440531	GTAT/GTATAT	CTGTAAATTGGGGCAC TGGT	GCACATGAATGTTGCA AACC	60.0	649	INTERGENIC	--	--	--
Ca7_P2_44442779	Ca7	44442779	TTTTCTT/TTT	AATTGCAAGCTGAAAT GGG	GTTGGTGGCTGGACTC AGAT	60.1	398	INTERGENIC	--	--	--
Ca7_P2_44474070	Ca7	44474070	AT/ATT	TAGCAACAAAATGGG GGAG	TGGTAGCGTACCGTTT GACA	60.2	634	INTERGENIC	--	--	--
Ca7_P2_44488959	Ca7	44488959	ATATTATTATTATTATTATTATT ATTATTATT/ATATTATTATTATTATT ATTATTATTATTATTATTATT	GAGGGGAGGGGAGTAT TCTG	GATTGTGCGAAGAGGA GGAG	60.0	588	INTERGENIC	--	--	--
Ca7_P2_44516080	Ca7	44516080	TACACAC/TACAC	GAATATGCGTCGACTG AGCA	GCCAAACCCTTACGAG ATCA	60.1	602	INTERGENIC	--	--	--
Ca7_P2_44767468	Ca7	44767468	GAAAA/GAAAAA	TATGCGGTAAATGATG CGA	TGCGAACTGATAAGCG TCAC	60.0	482	INTRON	Ca_15703	--	--
Ca7_P2_44822805	Ca7	44822805	GATATATATATATATATATAT/GATAT ATATATATATATATATATAT	CTTTCGGGTTGTACTGA GGC	TTGGTCGTTTGAGCCT TTCT	59.9	529	INTERGENIC	--	--	--
Ca7_P2_44825811	Ca7	44825811	TAAAA/TAAAAA	TAGGGCACAAGTCTCC CAAG	GCAGTGCTGAATTTTG GTGA	59.8	385	INTERGENIC	--	--	--
Ca7_P2_44885868	Ca7	44885868	CA/CAGAAAAATA	TTTGGTTCAACAAGGG GAG	ACGAAAATGTCAAAAC CGC	60.0	373	DRR	Ca_15709	--	FAR1

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_46336731	Ca7	46336731	CATAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAA	CAAAGGACGACCTAG GCAA	AGGTTTCAACCTAGC GGGT	60.0	219	INTERGENIC	--	--	--
Ca7_P2_46354851	Ca7	46354851	CTATATATATATATATATATATATG TATATATATAT/CTATATATATATATAT ATATATATATATGTATATATATAT	TATCGTTGGACGAATG GACA	TTCATGAGCACTTTCC ACAA	59.3	486	INTERGENIC	--	--	--
Ca7_P2_46359973	Ca7	46359973	TAAAAAAA/TAAAAAAA	GCTTTCCCTGATTGGT TTG	AGGTTTTGGAACGAC AACG	60.0	744	INTERGENIC	--	--	--
Ca7_P2_46364428	Ca7	46364428	A/AAT	CCACCTAGAAAGGCTG CTTG	GGTCGGTGTGACTGTT TCCT	60.0	319	INTERGENIC	--	--	--
Ca7_P2_46492213	Ca7	46492213	CAAAACAAAAACAAAAACAAA/CAAAA CAAAACAAAA	GGTCAACATTATCACCG TTGG	TCGTCACCTGCGTTTCAT CTTC	60.0	519	INTERGENIC	--	--	--
Ca7_P2_46559587	Ca7	46559587	TAAAA/TAAAA	GGGAGAAATTAGCCTA TTGCC	GAAGTGTGACCCAGGG ATT	60.0	798	INTERGENIC	--	--	--
Ca7_P2_46560466	Ca7	46560466	AATATATATATATATATAAACATATAT ATATATATATATATATATATATATA	GGAGGCATTGTTTCCT CAAA	AGGAAGAGTGGAGTTG CGAA	60.0	658	INTERGENIC	--	--	--
Ca7_P2_46565157	Ca7	46565157	CG/CGACAG	TGTCCTCACTACCCAC CCG	AAGTGGTGACCGTGAT AGGC	60.0	540	INTERGENIC	--	--	--
Ca7_P2_46621052	Ca7	46621052	TATATAATA/TATA	ACGAAAACATGCGATA GGG	GGGAAATGTTCTGTCG AGGA	60.1	255	INTERGENIC	--	--	--
Ca7_P2_4663397	Ca7	4663397	TCA/TCAGAAATCCA	TAATTATGCGGTGGCG TGTA	GCAATTTAGTAGCATC GCCC	59.7	260	INTERGENIC	--	--	--
Ca7_P2_46722405	Ca7	46722405	T/TC	CAATATTTTCATTGGATC CACCA	CGACTAGGGGTATTTT GGACG	60.7	670	INTERGENIC	--	--	--
Ca7_P2_46742225	Ca7	46742225	TG/TTCCCCATGGAAG	CGCACCGGTTTCTAGG ATTA	AAGAGGCATAGGTGGT GGTG	60.0	153	INTRON	Ca_19471	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_4674504	Ca7	4674504	AATATATATATATATATATATAT/AATA TATATATATATATATAT	GCCCAATTTTACCCACA CAT	GCCACCTATGTGCTAT TTGC	58.3	679	INTERGENIC	--	--	--
Ca7_P2_46840995	Ca7	46840995	ATTTTTTTTT/ATTTTTTTTT	AAAGCGCTTGTGTAA CGC	GTCACCTGATCCTGCTG GTGA	59.8	897	INTERGENIC	--	--	--
Ca7_P2_46868801	Ca7	46868801	TATAATAATAATAATAATAATAATA /TATAATAATAATAATAATAATAATA ATAA	GTACGAAGGTTTGATC CCGA	AACCCACCGTGAAC AAAC	59.7	276	INTERGENIC	--	--	--
Ca7_P2_46903175	Ca7	46903175	AATATATATATATATATATATATAT/ AATATATATATATATATATATATAT ATATAT	AAGTTCGACCGAACACT TTTAT	CCACAAAAATTTGGGG AAAG	59.3	917	INTERGENIC	--	--	--
Ca7_P2_47032360	Ca7	47032360	GAAAA/GAAAAATAAA	CATTTCAGTTGGGGC AGTT	ACACCCACATCTCTCG TTCC	60.0	343	INTERGENIC	--	--	--
Ca7_P2_47063876	Ca7	47063876	TAA/TA	GCTACCATTGGTCCCC ACTA	TCAGGATTATCTCAAC GGC	60.0	866	INTERGENIC	--	--	--
Ca7_P2_47089790	Ca7	47089790	TACAC/TAC	CACATACACTCCCAAT CCC	ACGGTTCAGAAGAGAA GGCA	60.0	749	INTERGENIC	--	--	--
Ca7_P2_4711219	Ca7	4711219	ATTTTTTTTT/ATTTTTTTTT	TGGAATTAACAATACGG GGAA	ATTGCCAAGCACCAAA GTTT	60.1	451	INTERGENIC	--	--	--
Ca7_P2_47126014	Ca7	47126014	GTTTTT/GTTTTT	GAGCAAGCAAATCGAA CACA	GGCCTACACAAACTC CAGG	59.6	602	INTERGENIC	--	--	--
Ca7_P2_47130515	Ca7	47130515	CAT/CATAT	TCGTGTCCCAAAATGTG AAA	TGAAATGGGCGAGGT TAAG	59.9	189	DRR	Ca_19486	--	--
Ca7_P2_47162843	Ca7	47162843	AATATATATATATATATATAT/AATATA TATATATATATAT	GCGGTTGGTCAACTCT GTTT	CTTCACACAATGGTAC CACAAA	58.5	625	INTERGENIC	--	--	--
Ca7_P2_4722839	Ca7	4722839	AATATATATATATATATA/AATATATAT ATATATATATATA	AAGGCTGGTGACAGAA GCTC	TGAAAACGTGGAACAT CCAA	59.9	381	INTRON	Ca_02978	J	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_47255906	Ca7	47255906	ATTTT/ATTT	TGAAAGGGGTAGGCA ACAC	ATCCGGTAAAAATCTCC GCT	59.9	842	INTERGENIC	--	--	--
Ca7_P2_4729847	Ca7	4729847	TAAA/TAAA	GAAGGGTGACCCACT CATA	AGCATCGTGATTCAATT CGC	61.2	414	INTERGENIC	--	--	--
Ca7_P2_47359557	Ca7	47359557	ATTTT/AT	TGTGCCATGAGGTTCTT TTG	TGCTACGTACGAACCT TCCC	60.1	867	INTERGENIC	--	--	--
Ca7_P2_47396377	Ca7	47396377	ATATTATTATTATTATTATTATT ATTATTATT/ATATTATTATTATTATT ATTATTATTATTATTATTATT	AAAAATTAACGGCATAG AGTTTCA	GGAAATGAAAGGGGAC ATCA	59.7	483	INTERGENIC	--	--	--
Ca7_P2_47417950	Ca7	47417950	TTATATATATATATAT/TTATATATATA TATATATAT	CTCTGCTTTTGTGCTTT CCC	TAACAATCCAGGACCC AACC	59.6	713	INTERGENIC	--	--	--
Ca7_P2_47432887	Ca7	47432887	TTTATTATTATTATTATTATTATT ATTATTAT/TTTATTATTATTATTATT ATTATTATTATTATTATTATT	CTTTTGACAAATGACGT TGGA	AATTTTGGGAAACCA CCC	59.9	683	INTERGENIC	--	--	--
Ca7_P2_47458741	Ca7	47458741	TTATATATATATATATATATAT/TTA TATATATATATATATATAT	ACCAAAGCGTCGTCAA AATC	TTGCAAAGGCGACTTC CTTA	60.9	289	INTERGENIC	--	--	--
Ca7_P2_47597790	Ca7	47597790	CTATATATATATATATAT/CTATATATA TATATATAT	CAGGAGATAGCTGTAG GGCG	GTTCTCGCCAGATCA AAAC	59.7	640	INTERGENIC	--	--	--
Ca7_P2_47683251	Ca7	47683251	CTTTT/CTTTTT	TCCTTTTCTGCCTTTGT GCT	TTCAAACATCCATCTCG TCG	59.6	681	INTERGENIC	--	--	--
Ca7_P2_47715158	Ca7	47715158	T/TAC	AGCACACGCCCTTGT ACTT	TGTGGAGGAAATGGAA CACA	59.9	510	INTERGENIC	--	--	--
Ca7_P2_47746628	Ca7	47746628	AATATATATATATATATATAT/AA TATATATATATATATATATATAT	TAGCAACACGAGGTGA AACG	TCACCAGAAACCACAC CTCA	60.1	931	INTERGENIC	--	--	--
Ca7_P2_47792480	Ca7	47792480	CTTTTTTTTT/CTTTTTTTTTTTTT	AATGCAAATGGATTGG GAC	GGCCGTTTACCAATGT CTGT	59.9	257	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_47871002	Ca7	47871002	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTAT	CCGCCGTGTTACGTTA CTTT	CCTGAGGTGCAATAGG GAAA	60.1	404	INTERGENIC	--	--	--
Ca7_P2_47941046	Ca7	47941046	TTATATATATATATATATATATATA/TT ATATATATATATATATATATATA	ACTGGATGGCAAATCA GCTT	TTGGACGAAAACGGAA AAAC	60.0	988	INTERGENIC	--	--	--
Ca7_P2_4805132	Ca7	4805132	ATTTTT/ATT	AAATTTGTCGATCTCA ATCG	TGCACCTCCACAATTG TACC	59.4	371	INTERGENIC	--	--	--
Ca7_P2_48145250	Ca7	48145250	C/CG	AGCAAATTGACCACCAC ACA	TGCCACCAGAAAGTATT ACTGG	60.0	468	INTERGENIC	--	--	--
Ca7_P2_48210281	Ca7	48210281	TTTCATTCATTCATTCATTCATTC/TTTC ATTCATTCATTCATTC	TCTTGGTAGCGAGCAC ATCC	CAAGGGATTCCAGAAA CGAA	60.0	171	INTERGENIC	--	--	--
Ca7_P2_48234648	Ca7	48234648	AT/ATT	TTGCAAAAGTCAAACCC ACA	ATACTTCTCGCGCAGA GTCC	59.6	660	INTERGENIC	--	--	--
Ca7_P2_48259885	Ca7	48259885	CTATTTATTTATTTATTTATTTATTTATT TATTTATTTATTTATTTATTTATTTATTTA TTTATT/CTATTTATTTATTTATTTATTTA TTTATTTATTTATTTATTTATTTATTTATT	AAATGCTGCGCGATTAA GTT	CCCTCAAATATGACG AACAA	60.1	517	INTRON	Ca_22554	L	--
Ca7_P2_48311764	Ca7	48311764	GAAA/GAA	TTCAGATCTGGGATGC CTCT	GGTACGTCCAGTCCTC TTGC	59.7	402	INTERGENIC	--	--	--
Ca7_P2_48312616	Ca7	48312616	AT/ATATCT	CGAAGCACAAAGGAGAT GACA	TTTCCGAGTGCTGTCA AATG	59.8	382	INTERGENIC	--	--	--
Ca7_P2_48390576	Ca7	48390576	CTTTATTTATTTATTTATTTATTTATT/CT TTATTTATTTATTTATTTATTTATTTATT	TGTCAATGGCAACCAT GTCT	TTGCTCCTACGTATTTT CCG	60.1	938	INTERGENIC	--	--	--
Ca7_P2_48392684	Ca7	48392684	TAAAAAAAA/TAAAAAAAAA	TGATTCCCCAACATCCA ACT	ATGATATTGGAGTTTGC GCC	59.9	165	INTERGENIC	--	--	--
Ca7_P2_48426652	Ca7	48426652	CATATATATATA/CATATATATATATA	CAAATGGCGACTTCCAA CTT	GAAGGCCACCTTCGAC ATTA	60.1	816	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_48935681	Ca7	48935681	ATTTT/ATTT	ATTTGGGGCGTTACAA GTG	TATGGCAGTCAACG TACA	60.1	122	INTERGENIC	--	--	--
Ca7_P2_48941166	Ca7	48941166	ATTTTT/ATTTTT	CAGCGTTGTAAACGT GCAT	TTGGCCATCATCTTTG TCA	60.0	381	DRR	Ca_26172	--	--
Ca7_P2_4981710	Ca7	4981710	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT ATATAT	TGAAATTTTGAACTTG TGTATTGG	AACGATGGCAGCAATT TTTC	60.1	296	INTERGENIC	--	--	--
Ca7_P2_4984872	Ca7	4984872	AATTTTTATTTTTATTTTTATTTTTA TTTT/AATTTTTATTTTTATTTTTATT TTTTATTTTTATTTTTATTTTT	TCACCTCATCCACTCCT TCC	AGCGTTGAGAGGGTTG AGAA	60.0	497	INTERGENIC	--	--	--
Ca7_P2_4999972	Ca7	4999972	GAAAAAAAAA/GAAAAAAAAA	CCTCAGATGAGAGCCA GGAC	TTGGTTGTAAACCCC GTTT	60.1	453	INTERGENIC	--	--	--
Ca7_P2_5009997	Ca7	5009997	A/AAAAACAT	CACAACTCCGCGGTAA CTTT	TTTGGGGTTTTGTTC GTGT	60.2	900	INTERGENIC	--	--	--
Ca7_P2_5014340	Ca7	5014340	CAA/CAAA	AATACCACCACCGACCA CAT	AATGAGCTCCAACGGT CATC	60.1	787	INTERGENIC	--	--	--
Ca7_P2_5018937	Ca7	5018937	TAAAAAAAAA/TAAAAAAAAA	GCACTTCTCAAAGCA AGC	GGTATGGGCAGTTTT GTGG	60.2	413	INTERGENIC	--	--	--
Ca7_P2_5024464	Ca7	5024464	ATTTTT/ATTTTTT	CCCCGATGTATTATG GAG	ACCCACATCCGTTTCAT AGC	59.8	294	INTERGENIC	--	--	--
Ca7_P2_5026355	Ca7	5026355	TAAA/TAAA	GTCACCCCTCAAGAC ACAT	TTGAGAAGAATGGG TGAG	60.0	616	INTERGENIC	--	--	--
Ca7_P2_5032686	Ca7	5032686	TAAAAAAAAA/TAAAAAAAAA	ACTCGTTGGAATAAC GTCG	TGGATGAGCAATGAGT GTCG	60.8	319	INTERGENIC	--	--	--
Ca7_P2_5033957	Ca7	5033957	AATATATATATATATATAT/AAATATA TATATATATATATATATATATATAT	TGGATCGTGTCTTGATC ATTG	AATAACCGTTGCAAGT GGG	59.9	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5034485	Ca7	5034485	ATTTTTTTTT/ATTTTTTTTT	CCCACTTGCAACGGTT ATT	TGAGGTAAGCTTTGCA TCATGT	59.8	837	INTERGENIC	--	--	--
Ca7_P2_5040903	Ca7	5040903	GTTTTTTTT/GTTTTTTTT	AGAGCACGCAAAGAGC TAGG	TTTGTGGTTTCGTGCAT CAT	60.0	574	INTERGENIC	--	--	--
Ca7_P2_5070200	Ca7	5070200	GTTTTTTTTTTTT/GTTTTTTTTTT	ATTACCGACATTGCAGAG GGG	CATGCAATTGTGATTG CTCC	60.1	400	INTERGENIC	--	--	--
Ca7_P2_5070340	Ca7	5070340	TC/T	ATTACCGACATTGCAGAG GGG	CATGCAATTGTGATTG CTCC	60.1	400	INTERGENIC	--	--	--
Ca7_P2_5076899	Ca7	5076899	CAAAAAAAAA/CAAAAAAAAAA	GCGCTGTAAACGTGC ATAA	TCCTTTCTAAAAACGCG CTG	60.5	100	INTERGENIC	--	--	--
Ca7_P2_509621	Ca7	509621	ATTTTTTTTT/ATTTTTTTTT	AGCATCAGCTGCTGTT TTTT	GCACCAACCAAGCCT ATGT	60.0	646	INTERGENIC	--	--	--
Ca7_P2_5137918	Ca7	5137918	TAAAAAAAAA/TAAAAAAAAA	CAAAAGTTTCAAGCAAT GCG	CACCTTTACCTCCCACC CCT	60.2	639	INTERGENIC	--	--	--
Ca7_P2_5140984	Ca7	5140984	GTTTTTTTT/GTTTTTTTT	CCCCTTCTATTCAGCTT CCC	TTGAGCCAATTGACCT ACCC	59.9	612	INTERGENIC	--	--	--
Ca7_P2_5157175	Ca7	5157175	CATATATATATATATA/CATATATATA TATATATATA	TGGGGAAGAGTTCCT TCTT	AGTGTGTGCGGTGCC CTTA	60.6	903	INTERGENIC	--	--	--
Ca7_P2_5189763	Ca7	5189763	CTATATATATATAT/CTATATATATAT	TTGACCTTCGTCTACG TTTTT	TCTGGCAGATTGTGGC TTATT	59.7	442	INTERGENIC	--	--	--
Ca7_P2_5212385	Ca7	5212385	AC/A	TATTGCGGGCTTTAG GACA	TCAAGCAATTTTGTGCG GAG	58.9	852	INTERGENIC	--	--	--
Ca7_P2_5342023	Ca7	5342023	CTTTTTTT/CTTTTTTT	GGCATAACCGCGAAAC TTTA	CATGAAATCAACAACA CCACA	59.3	506	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5343899	Ca7	5343899	CTTTTTTTTT/CTTTTTTTTT	TGAGGTGATGTGTCATTGAG	TGCAGAGACAAGCACATTG	58.6	477	INTERGENIC	--	--	--
Ca7_P2_5361832	Ca7	5361832	T/TG	GGTTGCAAGAGAGGCTGAAC	CCCCTGTCATTGGAACATA	60.6	752	INTERGENIC	--	--	--
Ca7_P2_5374953	Ca7	5374953	ATGTGT/ATGT	AAGATTTTTGCCACATTGCC	ACATGTGGCTGAAGGAAC	60.0	402	INTRON	Ca_06834	A	--
Ca7_P2_5387849	Ca7	5387849	TGGG/TGGGG	TGCATATAATTGGATCATTTGGTG	ATGGAAATGGTGGTGAATGGT	59.9	607	INTERGENIC	--	--	--
Ca7_P2_5387904	Ca7	5387904	ATTTTGAT/A	TGCATATAATTGGATCATTTGGTG	AGGTTGGGAGTCACAGGTTG	60.0	762	INTERGENIC	--	--	--
Ca7_P2_5388602	Ca7	5388602	CTATATA/CTATA	CAACCTGTGACTCCCAACCT	GGAGTTTGAATTCGTTGG	59.4	398	INTRON	Ca_06831	R	--
Ca7_P2_5390492	Ca7	5390492	ATTTT/ATTT	GTGTCGGGTGGCATTCTAT	TGCCCATCTTCAAACCA	60.0	272	INTRON	Ca_06831	R	--
Ca7_P2_5396257	Ca7	5396257	AC/A	CGCAAGGATTGATGGTGTA	TGCAATCGATGGAAATCAA	60.0	449	DRR	Ca_06830	R	--
Ca7_P2_5398943	Ca7	5398943	TAATAA/TAATAACAATAA	CTTTTCCTTGCTGCACTGA	TCGCTTCACCTCCATCTCT	60.0	348	INTRON	Ca_06830	R	--
Ca7_P2_5399126	Ca7	5399126	CAAAA/CAAAAA	CTTTTCCTTGCTGCACTGA	AGGTGAGTGGGCTATGTTGG	60.0	819	INTRON	Ca_06830	R	--
Ca7_P2_540192	Ca7	540192	C/CAT	TGAGGCAATTTGGTGCAAA	ATACCCTCATGCCACATGGT	60.1	421	INTERGENIC	--	--	--
Ca7_P2_5405092	Ca7	5405092	ATTT/AT	TGGCCTCTCTGAAACCATCT	TCCAACCTTTCTTCCATCGC	60.2	849	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_5405192	Ca7	5405192	TTTT/TTTTATTT	TGGCCTCTCTGAAACC ATCT	TCCCTTTCAGAATTG GATG	59.9	905	INTERGENIC	--	--	--
Ca7_P2_5405233	Ca7	5405233	AC/A	TGGCCTCTCTGAAACC ATCT	TCCCTTTCAGAATTG GATG	59.9	905	INTERGENIC	--	--	--
Ca7_P2_5405719	Ca7	5405719	ATTTT/ATTTT	GCGATGGAAGAAAAGT TGGA	TTGGACTAATAGTTGC GGGG	60.0	588	INTERGENIC	--	--	--
Ca7_P2_5406851	Ca7	5406851	CATATATATATATAT/CATATATATAT	AAAAAGGCTGCAAAAG CAAA	GTATTCGGGTATAGGC GTGC	59.5	190	INTERGENIC	--	--	--
Ca7_P2_5408546	Ca7	5408546	A/AT	TCCGATATAGCCTCCAT TCG	TGATGGGAATCATTGG TTGA	59.7	668	INTERGENIC	--	--	--
Ca7_P2_5410244	Ca7	5410244	G/GCATTTTTAAAGCCTAGAC	CGAAAGCGAAAAGGAA CAAC	TGGACTTTGGTCCATG TGAA	59.9	657	INTERGENIC	--	--	--
Ca7_P2_5414947	Ca7	5414947	ACC/ACCC	CCCATTTTTAATCGATG ATGTG	TTGAATGCCAAAGCAA CAAG	59.8	471	INTRON	Ca_06827	T	WRKY
Ca7_P2_5415131	Ca7	5415131	GTT/GTTT	ATCATCTTGGCATTGCC TTT	AGCCTCAGAACCTTCA CCAA	59.8	449	INTRON	Ca_06827	T	WRKY
Ca7_P2_5416537	Ca7	5416537	TA/TAA	TGCAGGCACAATCTCTT TTG	ATTTTCCTCCGGTTTGC TTT	59.9	925	DRR	Ca_06827	T	WRKY
Ca7_P2_5417588	Ca7	5417588	TAC/TACAC	CACCAAAACACGACG AGAA	GGACCTTTCACGAAG TTCA	60.1	851	DRR	Ca_06826	K	MYB_related
Ca7_P2_5418159	Ca7	5418159	CAAAAAAAAA/CAAAAAAAAA	GAACCTTCGTGAAAGGG TCCA	GGGACCTTCTACTTAC CCGC	60.0	260	DRR	Ca_06827	T	WRKY
Ca7_P2_5418545	Ca7	5418545	TAAC/TAACAAC	GCGGGTAAGTAGAAGG TCCC	AACTTGCCACCAAGG TTTG	60.0	691	DRR	Ca_06826	K	MYB_related

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5429195	Ca7	5429195	TCC/TC	AAAGGCGAGATGGAA GTTG	TTTCCAAGACCCATCA CAA	58.9	188	INTERGENIC	--	--	--
Ca7_P2_5434245	Ca7	5434245	ATTTTT/ATTTTTTTT	CCAATTATGCCATTGGA ATTT	TCAAATCAAATCACA ACGCT	59.6	685	INTERGENIC	--	--	--
Ca7_P2_5434482	Ca7	5434482	TAAAA/TAAAA	CCAATTATGCCATTGGA ATTT	TGTCGGGTTGATCCTC TTTC	60.1	742	INTERGENIC	--	--	--
Ca7_P2_5434750	Ca7	5434750	AG/A	GCGTTGTGATTTGAAT TTGA	CATGGTCCACTTCGAG GAAT	59.9	524	DRR	Ca_06825	--	--
Ca7_P2_5434792	Ca7	5434792	CTTTT/CTTT	GAAAGAGGATCAACCC GACA	CATGGTCCACTTCGAG GAAT	59.9	466	DRR	Ca_06825	--	--
Ca7_P2_5436041	Ca7	5436041	GTTTTTTTTT/GTTTTTTTTT	TGTTTAGATGTGGTGGT GCTG	CAAGCAGGTATGTGAG GGGT	60.0	721	DRR	Ca_06825	--	--
Ca7_P2_5436143	Ca7	5436143	AAA/AAATATCACAA	TGTTTAGATGTGGTGGT GCTG	CAAGCAGGTATGTGAG GGGT	60.0	721	DRR	Ca_06825	--	--
Ca7_P2_5437832	Ca7	5437832	ATTTTTTTT/ATTTTTTTTTT	CACACGGGTGGAAGA GATT	AGAAGCAATGAATGCC ACTT	57.4	526	INTERGENIC	--	--	--
Ca7_P2_5440225	Ca7	5440225	GCATCA/GCATCATCA	GCTAACTGCCATTTTC TTTTCA	TTGGTAATGTCGTGGG AACA	59.8	546	INTERGENIC	--	--	--
Ca7_P2_5441241	Ca7	5441241	TGTGAA/TGTGAAGTAGTGAGTGAGTG AA	CACCCCTTGTCAATACC ACC	TATTCTCAAAGCTCG GGCA	60.8	765	INTERGENIC	--	--	--
Ca7_P2_5443310	Ca7	5443310	CTC/CTCAATC	CGGTGTAGTGGAACCTC CGAT	TGAAGACAGCTCGCA AATA	60.5	740	INTERGENIC	--	--	--
Ca7_P2_5443791	Ca7	5443791	TATAAATAAATAAATAA/TATAAATAAAT AA	TATTTGCGAGCGTGTCT TCA	TTTTGATGCTTTTCCA CCA	59.1	516	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5443871	Ca7	5443871	TAAAA/TAAAAA	TATTTGCGAGCGTGTCTCA	TTTTGATGCTTTTCCACCA	59.1	516	INTERGENIC	--	--	--
Ca7_P2_5446544	Ca7	5446544	ATATTTATTTATTTATTTATTTATTTATT/ATATTTATTTATTTATTTATTTATT	CCCTTTTCGGAATTCTTTT	CACAAAGCCTTCTTTCTGCTGC	60.0	527	INTRON	Ca_06824	--	--
Ca7_P2_5450090	Ca7	5450090	C/CA	ACTGGACATGGGTCTTGAGG	AAAACATTGAGCACTTGGG	60.0	272	DRR	Ca_06823	--	bHLH
Ca7_P2_5452183	Ca7	5452183	TAAAAAA/TAAAAAAA	CGCTTCAACCGATTCTCA	ACCATTGGGTGCAAAAAGAG	60.0	353	INTRON	Ca_06823	--	bHLH
Ca7_P2_5453835	Ca7	5453835	TAAAA/TAAAA	ATGGTCGCATTTTGTTTCA	AGAAGCCAACGGCTTGTTTA	59.9	722	DRR	Ca_06822	--	LSD
Ca7_P2_5453925	Ca7	5453925	GAAAAAAA/GAAAAAAA	ATGGCTGCACAAGGGA	GTCTTCAGGCTTCATC	60.0	918	DRR	Ca_06822	--	LSD
Ca7_P2_5459020	Ca7	5459020	TTCTTTTA/TTCTTTTAGTCTTTTA	GAAAAAGGTTGCAATCCGAA	TGAAGATGATGATGTGGTGA	59.9	508	INTERGENIC	--	--	--
Ca7_P2_5459177	Ca7	5459177	ATTTTTTTTT/ATTTTTTTTTT	GAAAAAGGTTGCAATCCGAA	TCAAGGTGTTTGGGTTGTGTG	59.4	817	INTERGENIC	--	--	--
Ca7_P2_5459491	Ca7	5459491	AT/A	TCACCCACATCATCATCTTCA	TCGTTTCGTTTTAACCGGAAA	60.5	606	INTERGENIC	--	--	--
Ca7_P2_5461647	Ca7	5461647	GCTTTTCTTTTTCTTTTT/GCTTTTTCTTTTT	CTTTTGTGCCAAGTGCGTT	CAAACCTAACCCGATCGAAA	59.9	433	INTERGENIC	--	--	--
Ca7_P2_5465549	Ca7	5465549	TAACCGGAA/TAA	AGTCCTAATGCGGCTGTGAT	ATGTGGGAATTGTGCGCATTT	60.1	207	DRR	Ca_06821	--	--
Ca7_P2_5467811	Ca7	5467811	AA/AATCGAAATCCA	AACTCGGTGAGCCTCTCAAA	ATACGTTTTTCCAAGGTGCG	60.0	253	INTRON	Ca_06820	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5470006	Ca7	5470006	TTATATATATATAT/TTATATATATAT	GGGATCTATTAACCA GAACCA	TGGAATTGTCCACCAC AACA	60.8	632	INTERGENIC	--	--	--
Ca7_P2_5473029	Ca7	5473029	TAAAAAAA/TAAAAAAA	CATTGTGGAGGAGA ACCG	AAAAGTGCATGGCACC TAGC	60.3	833	INTRON	Ca_06819	P	--
Ca7_P2_5482693	Ca7	5482693	TATT/TATTTATAATT	TTCGTGTAGTTGATTCA AACCAT	AACAAAAGGCAATAAT GAACCTGA	59.1	576	INTERGENIC	--	--	--
Ca7_P2_5482708	Ca7	5482708	ATTTT/ATTT	TTCGTGTAGTTGATTCA AACCAT	AACAAAAGGCAATAAT GAACCTGA	59.1	576	INTERGENIC	--	--	--
Ca7_P2_5483742	Ca7	5483742	TA/T	ATGGAGTAGTTCAATCC TTCTT	TGTTCAATTTAATAAG CTCGATCC	59.9	908	INTERGENIC	--	--	--
Ca7_P2_5485219	Ca7	5485219	CTTTT/CTTTT	AATGCTATTCTGATCCA CCGA	TGACGGATATTGGCAT TCAA	59.9	341	INTERGENIC	--	--	--
Ca7_P2_5487077	Ca7	5487077	AATTAC/A	TGGGTATTTCAAAATTT CTCAGG	TCGTCGTTTTCTCTCC GTTT	59.9	643	INTERGENIC	--	--	--
Ca7_P2_5487708	Ca7	5487708	ATTT/ATT	AACCTCCTTTCCGTCA CCT	AGGGTTCAACGGATCA AACA	60.4	112	INTRON	Ca_06817	CIQ	--
Ca7_P2_5488148	Ca7	5488148	ATTA/ATTATTTA	AACCTCCTTTCCGTCA CCT	CATTCCACAGCCTCCA TTTT	59.9	781	INTRON	Ca_06817	CIQ	--
Ca7_P2_5518891	Ca7	5518891	GTTTTTTTTT/GTTTTTTTTT	TTGTTGATTTGGGCCA GAT	AGCATGTCATTGATGG AGCA	60.2	435	INTERGENIC	--	--	--
Ca7_P2_5524631	Ca7	5524631	ATACAATTTTACAATTT/ATACAATTTT TACAATTTTACAATTT	CTTGTTTACACGGTTC CTT	CAAAACGCGAATTGCT ATGA	59.8	840	DRR	Ca_06814	--	TCP
Ca7_P2_5525232	Ca7	5525232	CTTT/CTT	CTTTGACGAAATCATG GGC	CCCAAAGCGAGAATCA TACC	59.5	377	DRR	Ca_06814	--	TCP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_5526073	Ca7	5526073	C/CT	TCAACCAACCGAAATAA CCC	ACGGTTCTCTCACAAG CGTT	59.9	199	DRR	Ca_06812	G	--
Ca7_P2_5531129	Ca7	5531129	CAAAAAAA/CAAAAAA	AATCAAATTCACCTCTCG GCG	CAATGGGGTCTTCATT GCT	59.9	656	INTRON	Ca_06812	G	--
Ca7_P2_5531718	Ca7	5531718	AAGAGAGAGAGAGAGAGA/AAGAGA GAGAGAGAGAGAGAGAGAGA	AGCAAATGAAGACCCC ATTG	CCCATATTGAGTTTAC CGCT	60.0	563	INTERGENIC	--	--	--
Ca7_P2_5532820	Ca7	5532820	GC/GCTGAC	GAAGCATCGTTCCTTC TGA	AAAGACGCGGAATTGC TTTA	59.9	578	INTERGENIC	--	--	--
Ca7_P2_5540435	Ca7	5540435	TTTAACAATATT/TTTAACAATATTAATT AACAATATT	GCATCCAACCTCCAAGT GCT	TGCACAACTCCAACAT TGA	58.7	711	DRR	Ca_06810	R	G2-like
Ca7_P2_5540728	Ca7	5540728	TC/T	TCAATGTTGGAGTTTGT GCAT	CGCATATCAACATTGC AGC	60.2	569	DRR	Ca_06810	R	G2-like
Ca7_P2_5540919	Ca7	5540919	T/TTATTA	TCAATGTTGGAGTTTGT GCAT	GCCAATTGCCTAGCAG TAGC	60.0	645	DRR	Ca_06810	R	G2-like
Ca7_P2_5546249	Ca7	5546249	CAGTAG/CAGTAGTAG	GGCAGCTCTAGCAAGC TGTT	GAGTGGGAGGAGCAA TGAG	59.8	601	INTERGENIC	--	--	--
Ca7_P2_5546949	Ca7	5546949	TAAAAA/TAAAAA	CTCATTTGCTCCTCCA CTC	AACCCTTCGCAATTTT TCA	59.6	926	INTERGENIC	--	--	--
Ca7_P2_5558933	Ca7	5558933	ATTT/ATTTT	TGTTATGCACCAAGGA CCAA	CCTCCCTGTTTGTGT GGTT	59.9	553	INTRON	Ca_06808	F	--
Ca7_P2_5565233	Ca7	5565233	ACC/AC	TCATCCCGACAAACA TGA	ATTTTTCGTGAGCTGAT GGG	60.1	230	INTRON	Ca_06807	E	MYB_related
Ca7_P2_5566541	Ca7	5566541	GTTTTTTTT/GTTTTTTTT	CGTTTGAGAGATCAGC ACCA	TAGTTGCACCCAAGTTT TCC	57.7	278	DRR	Ca_06806	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5567293	Ca7	5567293	TC/T	GCACCATAGTGTTCAC CAAAAA	TCTGATCCTCTCCAC CAAC	60.0	585	DRR	Ca_06806	--	--
Ca7_P2_5567501	Ca7	5567501	TAAAAAAA/TAAAAAAA	TCATGAAATGTCATTG GTTG	TTTTTGGGCCTGAAA CAAG	60.1	200	DRR	Ca_06806	--	--
Ca7_P2_5569644	Ca7	5569644	GTGCCTATGCC/GTGCC	GTCTGGAGCTTCTCCC TGTG	AAGGTTTTGAAGGGAA CGGT	59.8	468	INTRON	Ca_06806	--	--
Ca7_P2_5569839	Ca7	5569839	T/TTCAATTACAA	GTCTGGAGCTTCTCCC TGTG	AAGGTTTTGAAGGGAA CGGT	59.8	468	INTRON	Ca_06806	--	--
Ca7_P2_5570493	Ca7	5570493	TTAAATAAATAAATAA/TTAAATAA TAAATAAATAAATA	TGAGCTTTCTGACGGT GTTG	CAACTCGATTTAGCAC GCAA	60.0	335	INTRON	Ca_06806	--	--
Ca7_P2_5572652	Ca7	5572652	ATTTTTTT/ATTTTTTTTT	AAAAATGGCGTTCATCA AATG	TTTGCCAATTTTAGGG ACC	58.9	502	INTERGENIC	--	--	--
Ca7_P2_5572728	Ca7	5572728	GTTTAATTTTAATTTTAATTTA/GTTTAA TTTTAATTTTA	ATGGGTCCTCAAAATT GGC	GCTTGTACTTATATTC AGAGGGCA	60.1	559	INTERGENIC	--	--	--
Ca7_P2_5575534	Ca7	5575534	ATTTTTTT/ATTTTTTT	GGTGAAGGAGAAATGC AAGAA	TTATTAACGTGGGTGT GGGC	60.6	556	INTERGENIC	--	--	--
Ca7_P2_5578208	Ca7	5578208	AG/AGAATGAATG	ATGGGAAATTGTGAATG GGA	TGCCCCGTAGTCAATG TTTG	59.6	435	DRR	Ca_06805	--	--
Ca7_P2_5582721	Ca7	5582721	AATATATATATATATATATATATATAT/ATATATAT ATATATAT	TGCCCACTCATTTGGCT ATT	AAGACGGCTGGTAAC GACG	60.2	494	INTERGENIC	--	--	--
Ca7_P2_5585752	Ca7	5585752	TAAAAAAA/TAAAAAAA	ATTCACACGACCAAAAA CCT	TGATGAGATGTATTG ATGCAA	59.1	496	DRR	Ca_06804	--	--
Ca7_P2_5629123	Ca7	5629123	GAAAAAA/GAAAAAA	CCCCGAGTGATCAACT CAAT	TGCACTCTTATGTGTG GGAAA	59.2	568	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5633058	Ca7	5633058	T/TAAG	GCAAGCCAAACCACAA AAAT	ACAGGCGCTTCCTCT TGTA	60.0	386	DRR	Ca_06796	GC	HSF
Ca7_P2_5635713	Ca7	5635713	AATT/AATTATT	TGGACAGGATAGGACA AGGG	TGATTTCATCTTTTC ATGC	57.7	788	INTERGENIC	--	--	--
Ca7_P2_5635974	Ca7	5635974	TG/T	GGAAGTGAAGGTGTT AAATGA	CTCACCAGAAATGTT ATCA	57.6	144	INTERGENIC	--	--	--
Ca7_P2_5648526	Ca7	5648526	TAAAAAAA/TAAAAAA	TGTGCACCAACAAACA TCA	TGGGGGATGACATGTA CCTT	60.1	448	INTERGENIC	--	--	--
Ca7_P2_5649774	Ca7	5649774	CTTTTTTTTT/CTTTTTTTT	AAGGGAATGCATTGTCT CTCA	TTTGTTATGTGTGGCTT GTAGTGA	59.6	359	INTERGENIC	--	--	--
Ca7_P2_5650363	Ca7	5650363	AAATAATAATAATA/AAATAATAATAATA ATA	TCGTTCCCTCTGAAATG AAA	TCGAGTGAACGTGGAA GATG	59.8	239	INTERGENIC	--	--	--
Ca7_P2_5659554	Ca7	5659554	AA/AATTA	CAATTGTTTGAATGTTG TGTTGA	CAAGGATCCCTCAGAC TTCC	58.7	158	DRR	Ca_06792	GC	HSF
Ca7_P2_5668000	Ca7	5668000	TAAAAA/TAAAAAA	TCATACTCGTATTCGTG CCG	CAGGGTCCTGTCTGTG ATT	60.0	764	INTERGENIC	--	--	--
Ca7_P2_5670967	Ca7	5670967	ACTCT/ACT	ATGACCGTCGTCAACT CACA	GACACGCCAGTGCA TTTA	59.6	622	INTERGENIC	--	--	--
Ca7_P2_5671651	Ca7	5671651	C/CT	TTTAAATGACACTGGG GTG	TGGTGTAATATGGCA GCGA	60.1	612	DRR	Ca_06790	--	C2H2
Ca7_P2_5672541	Ca7	5672541	TCCC/TCC	GATTTCACGCATCATC AAC	TTGAAGGCTGAAGCTG GATT	60.0	418	DRR	Ca_06790	--	C2H2
Ca7_P2_5673183	Ca7	5673183	TCAACAACAACAACA/TCAACAAC AACAACA	GCACCCTCAACAGAA CAAT	AGTGACAAAGGGCAGA TGCT	59.9	727	DRR	Ca_06790	--	C2H2

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5679642	Ca7	5679642	TAAAAA/TAAAAAA	TACAATGCTACCTGCG CTTG	TGTTTTGGCATCAGCTT CAC	59.8	743	INTRON	Ca_06789	K	--
Ca7_P2_5681470	Ca7	5681470	CATATATATATATAT/CATATATATATAT	TCGGTCGACCTGACCT ATTG	GCCACTGCTTTGACAG GATT	60.3	547	INTRON	Ca_06789	K	--
Ca7_P2_5684395	Ca7	5684395	TTAT/TTATAT	CGTTCAAGCTTGTCTG GAAA	GAGATGTTCAATGGCC TGGT	59.9	716	DRR	Ca_06789	K	--
Ca7_P2_5685708	Ca7	5685708	T/TG	TTCGGTTTTAGCAGTTT GGG	GCGTCACACTGAGACT GGAA	60.0	788	DRR	Ca_06789	K	--
Ca7_P2_5686600	Ca7	5686600	CAAAAAAAAA/CAAAAAAAAA	TTCCAGTCTCAGTGTGA CGC	GATCAACGGGCACAGT GTTA	59.6	957	INTRON	Ca_06788	Q	--
Ca7_P2_5686646	Ca7	5686646	T/TC	ATTATAACACCGGCTCG CAC	GGTCCAGGATTCCAGA TCAA	59.9	657	INTRON	Ca_06788	Q	--
Ca7_P2_5694761	Ca7	5694761	TAAAAAA/TAAAAAA	GGAATTCTGTTTCAAG GGA	AACCCATCACTTGCTG ATCC	59.9	627	INTERGENIC	--	--	--
Ca7_P2_5695058	Ca7	5695058	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GGATCAGCAAGTGATG GGTT	AGGTGAGCAGGACCTA ACCA	59.7	454	INTERGENIC	--	--	--
Ca7_P2_5697428	Ca7	5697428	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	AATGTTGTAAGTGGG CGAG	AAGTTAAGGACCACG AGTGA	58.7	718	INTERGENIC	--	--	--
Ca7_P2_5698697	Ca7	5698697	ATT/ATTTT	AAGTCGATTACGATCCA CGC	CCCCCTTAAAGACAA TCAAA	59.4	430	INTERGENIC	--	--	--
Ca7_P2_5698761	Ca7	5698761	ATTTTTTTTT/ATTTTTTTTTTTTT	AAGTCGATTACGATCCA CGC	CCCCCTTAAAGACAA TCAAA	59.4	430	INTERGENIC	--	--	--
Ca7_P2_5702622	Ca7	5702622	GTATATATA/GTATATA	TATGCCACGCCATAAGA TGA	GGCCCAACAAGAAGT TATCC	59.8	726	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_5706962	Ca7	5706962	TA/TACTATTGGA	ATCAATTCAAATCCCG AAG	GACAACGGTACAAAC CGCT	60.0	460	INTERGENIC	--	--	--
Ca7_P2_5715029	Ca7	5715029	TT/TTGAGT	GCTCCTAGGTCAATTTG CCA	AGGACTATGCCCTCTG TCCA	59.7	383	INTERGENIC	--	--	--
Ca7_P2_5715370	Ca7	5715370	TAAAAAAA/TAAAAAAA	ACGAGCTTGGCTTACT GGAC	AAGCCCTCTCCCTCTC ACAT	60.2	744	INTERGENIC	--	--	--
Ca7_P2_5716422	Ca7	5716422	GAA/GA	TCACCTCTTGCAATCTG CTG	TCTAACGGTTATGATC GAATAACAATA	59.3	444	INTERGENIC	--	--	--
Ca7_P2_5717956	Ca7	5717956	TA/TAA	GCATTCTCTCAGCCAG GAAG	CGGTGTGTAGCCCCAA ATAA	59.8	126	INTERGENIC	--	--	--
Ca7_P2_5718736	Ca7	5718736	AAAAATAAAA/AAAAA	TTTTGGTGAAGCATCC TAGA	TTTCAAAAATGTTCCGT GGA	59.0	620	INTERGENIC	--	--	--
Ca7_P2_5722804	Ca7	5722804	A/AC	TGGGACAGTGAGTCAA TCCA	TCCGATTTTTGCTCTCG ACT	60.0	191	INTRON	Ca_06785	R	FAR1
Ca7_P2_5727892	Ca7	5727892	TG/T	TGGTGGATGACCACTA CCAG	CTCCAACACGGAAGGA ACAT	60.0	299	DRR	Ca_06784	--	MYB_related
Ca7_P2_5734645	Ca7	5734645	GAAAAAAAA/GAAAAAAAA	AGCAAGCAAAATGGC CTAA	GTAATGCAAGAGCTGC CTCC	60.0	500	DRR	Ca_06783	T	WRKY
Ca7_P2_5740792	Ca7	5740792	TGAAGAAGAAGAA/TGAAGAAGAAGAA GAA	ACTCCCACTTCCACCAC AAG	TCGGGGGACTAGTCAA GAAA	59.7	608	INTERGENIC	--	--	--
Ca7_P2_5773187	Ca7	5773187	TAA/TGAACTGAATAAA	TCACAGCTTCTGCATCA TCC	AGAGGCCAATTACATG CCAC	60.0	622	INTRON	Ca_06781	R	--
Ca7_P2_5773422	Ca7	5773422	ACTTCTT/ACTTCTTCTT	TCACAGCTTCTGCATCA TCC	AGAGGCCAATTACATG CCAC	60.0	622	INTRON	Ca_06781	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5774314	Ca7	5774314	AAAAATTCAAACATTGAAAATTCA/AAAA ATTCA	CCAATCATGAGGCTGA CAAG	GTGTTTCATCTGTTGG GGCT	60.0	711	INTRON	Ca_06781	R	--
Ca7_P2_5776893	Ca7	5776893	CGTG/CGTGTG	TGGGTGGTGAGCTGAC AGTA	TTGTGAAGAGTGGATG GATTTG	60.0	468	INTERGENIC	--	--	--
Ca7_P2_5778254	Ca7	5778254	AAACAA/AAACAACAA	CAATCCATCCACTCTT CACAA	CTGCAAAAACCCCTTTC TCG	60.0	910	INTERGENIC	--	--	--
Ca7_P2_5779009	Ca7	5779009	ATTTTTTTT/ATTTTTTTTT	GCTGAAGCCAGTTTCT GGAC	CACACCAACCAAGCA ACAC	60.0	458	INTRON	Ca_06780	F	--
Ca7_P2_5782710	Ca7	5782710	GTTT/GTT	ATCTGTGATGTCAGGC CTCC	GAGTATCTTGCCGTT TTGG	59.6	303	DRR	Ca_06780	F	--
Ca7_P2_5785096	Ca7	5785096	GTCATCATCA/GTCATCA	TTTGCAACTGTGTGAC CTCT	CGCTCTCTATCTCTCC GCAC	60.3	789	INTERGENIC	--	--	--
Ca7_P2_5785418	Ca7	5785418	GTCT/GT	TGCGGAGAGATAGAGA GCGT	GGGTGATTTGATTGTT CTTGC	59.4	206	INTERGENIC	--	--	--
Ca7_P2_5786523	Ca7	5786523	ATGTTGT/ATGT	TTTAAATTAATTACATG ACCGTGTG	GGAAATTTGGGGATTT GCTT	60.1	270	INTERGENIC	--	--	--
Ca7_P2_5788116	Ca7	5788116	GTTTTTTTTT/GTTTTTTTTT	CATGCTTGACCAATTT GAA	TCGCTTCTTGAAAC GATTA	59.8	692	INTERGENIC	--	--	--
Ca7_P2_5791156	Ca7	5791156	GT/GTAATAATATTTTAAATT	GAGGATGATCTTTGTCT AACATGC	TGATCTGGTTGGTGTT GTCC	59.4	973	DRR	Ca_06779	S	--
Ca7_P2_5793532	Ca7	5793532	CTTTT/CTT	CCAATGACTCGACAGC AGAA	ATGCGTGTGCAAAATTT CAA	60.1	545	CDS (FRAME SHIFT)	Ca_06779	S	--
Ca7_P2_5798029	Ca7	5798029	TAAAAAA/TAAAAA	ATAACCGAGCCGCAAC TAAA	TTCCTTTTATGTTTAT ATTGTGCCA	60.0	537	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5798960	Ca7	5798960	CAAAAAAAAA/CAAAAAAAAA	ATGACATGTCTCGAGCT CCC	TTGGCCCTCTTTCTCT CAA	59.9	312	INTERGENIC	--	--	--
Ca7_P2_5799102	Ca7	5799102	TTATAAATATAAA/TTATAAATATAAAT AAA	ATGACATGTCTCGAGCT CCC	TTGGCCCTCTTTCTCT CAA	59.9	312	DRR	Ca_06778	R	--
Ca7_P2_5800832	Ca7	5800832	TTTCTT/TTT	AAAAGCGGGCCATTCT AGTT	TTCTAGCATTGTGGCT GTGC	60.0	375	DRR	Ca_06778	R	--
Ca7_P2_5801841	Ca7	5801841	GTATATAT/GTAT	GCAAAGCTAGCCTGCC TCTA	GGGTCTGTCCCATCTT AACG	59.4	402	INTRON	Ca_06778	R	--
Ca7_P2_5802288	Ca7	5802288	TAAAAA/TAAAA	CCCCGAAACACTTTG TTA	TGGAAGCAATCTGTGT CGAG	60.0	844	INTRON	Ca_06778	R	--
Ca7_P2_5803545	Ca7	5803545	ATA/ATAGTA	CAATCGAATTCTGGAAT TGTC	AAAATGGGGAGTTTAA CATAGTACAAA	59.6	564	INTERGENIC	--	--	--
Ca7_P2_5817744	Ca7	5817744	CT/C	TACGAACCAACACGTG GAAA	TGAAATTGAACTACAA TCACGA	57.3	537	INTERGENIC	--	--	--
Ca7_P2_5818847	Ca7	5818847	TA/TAA	TACACATTTATGTGCGC CGT	GGGCCAACAACTATGT CTCAA	60.0	402	INTERGENIC	--	--	--
Ca7_P2_5820802	Ca7	5820802	A/AG	TGAGGCCAACATAAAA TCAT	ACGGATTTGGTGATG GTAA	60.1	710	INTERGENIC	--	--	--
Ca7_P2_5826456	Ca7	5826456	AT/A	CAAATACCGCCGAGAA CATT	AGGCACGATATGGAAG TTGG	60.0	401	INTERGENIC	--	--	--
Ca7_P2_5828175	Ca7	5828175	GTTTTTTTT/GTTTTTTT	TGCTTCATCTCAAATGC AATA	AAGATATCTAACATCCC CGCAA	59.8	400	INTERGENIC	--	--	--
Ca7_P2_5828209	Ca7	5828209	TAAAAAA/TAAAAAAA	TTTTTAGCCTAATTGGC ATTCA	AAGATATCTAACATCCC CGCAA	59.8	280	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5858952	Ca7	5858952	ATTTTTTTTT/ATTTTTTT	AAAGATGTTCAATTCAG CCAAA	TGGGTTTCAAAAAGC AAAG	60.1	696	INTERGENIC	--	--	--
Ca7_P2_5867187	Ca7	5867187	ATATTATTATTATTAT/ATATTATTAT TATTATTATTAT	ACAACAGATGATGGCT GCTG	AATGTACGCACTCCAC CACA	60.0	606	DRR	Ca_06771	P	--
Ca7_P2_5867216	Ca7	5867216	TGTAGTAGTAGTA/TGTAGTAGTAG TAGTAGTA	ACAACAGATGATGGCT GCTG	AATGTACGCACTCCAC CACA	60.0	606	DRR	Ca_06771	P	--
Ca7_P2_5868409	Ca7	5868409	AATATATAT/AATATAT	ACTGTTGAACCAGCTG AGGC	TGGTGAGACAATGGGA TGAA	59.9	673	DRR	Ca_06771	P	--
Ca7_P2_586986	Ca7	586986	AACA/AATTACA	TTCCATTTCTCCACAA AGC	CAACCGCATTGTCATC ATTG	59.9	531	DRR	Ca_24415	--	--
Ca7_P2_5870900	Ca7	5870900	GAAAAA/GAAAAAAA	TTGTGGCTAATATTTG GTCAA	CACAACTCTCCAGAGC CAAA	59.0	485	INTERGENIC	--	--	--
Ca7_P2_5871390	Ca7	5871390	T/TAGTG	TTTGCTCTGGAGAGT TGTG	TAAGCTAGAGCAGGG GAGG	60.8	455	INTERGENIC	--	--	--
Ca7_P2_5871833	Ca7	5871833	TAAAAA/TAAAAA	AATTGTGGTTCTTCATG CCC	TTGCTATTGTTATTGCG GGA	59.0	487	INTERGENIC	--	--	--
Ca7_P2_5871934	Ca7	5871934	ATTTT/ATTTTT	TCCGCAATAACAATAC GAA	TGAAAATTTGAGTTAC GAATTTGA	59.1	316	INTERGENIC	--	--	--
Ca7_P2_5872178	Ca7	5872178	TTATAT/TTAT	TCCGCAATAACAATAC GAA	ATTCACCTACCACTGA CCGC	60.0	676	INTERGENIC	--	--	--
Ca7_P2_5872993	Ca7	5872993	TC/T	GCGGTCAGTGGTAGT GAAT	TACACTGCATCACCC AAAA	60.0	719	INTERGENIC	--	--	--
Ca7_P2_5874667	Ca7	5874667	CAAA/CAA	AAGCTGATGTGACAAG CCAA	TTATAAACATGGGCGA ACCC	59.7	391	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5875186	Ca7	5875186	CTTT/CTTTT	CTATAAATTGGGGTTC CCC	ATCTTTGTCGTTCAAGT GCC	60.1	538	INTERGENIC	--	--	--
Ca7_P2_5876039	Ca7	5876039	AAGTGAGAGTG/AAGTG	CCATTTTCCAACAATGG GTC	CAAAAAGTTGAGCCGA AAGC	60.0	220	INTERGENIC	--	--	--
Ca7_P2_5876334	Ca7	5876334	AAG/AAGTTAG	GCTTTCGGCTCAACTTT TTG	ATGAAGTGAATGGAA TGGC	59.8	679	INTERGENIC	--	--	--
Ca7_P2_5876688	Ca7	5876688	GAGGGAAAAATAAGGGAA/GAGGGAA	ACGCGTCTTTTTCGAGT CAT	CGCCATTCTTATTTGG GGTA	59.8	351	INTERGENIC	--	--	--
Ca7_P2_5884274	Ca7	5884274	AGATGAT/AGAT	ACGATTTTGCAGGGAC AAAC	TCCACCAAGTAAAGCC ATGT	58.1	516	INTERGENIC	--	--	--
Ca7_P2_5884452	Ca7	5884452	TC/T	ACGATTTTGCAGGGAC AAAC	CTTCTTATGGCCATGT GGGT	59.8	843	INTERGENIC	--	--	--
Ca7_P2_5884529	Ca7	5884529	AAT/A	ACGATTTTGCAGGGAC AAAC	ATGCGAAGGAGCAATT ATGG	60.1	921	INTERGENIC	--	--	--
Ca7_P2_5884631	Ca7	5884631	ATTTTTT/ATTTTTTTT	TCTTGTTTGCCTGTCTC GTG	ATGCGAAGGAGCAATT ATGG	60.1	832	INTERGENIC	--	--	--
Ca7_P2_5885108	Ca7	5885108	C/CTGT	CCATAATTGCTCCTTCG CAT	CAGCCGAATACGCTGC TACT	60.6	213	INTERGENIC	--	--	--
Ca7_P2_58855	Ca7	58855	CTCTCTTTCTCTTTCTCTTTCTCTTTCT CTTTCTCTTTCTCTTTCTCTTTCTC/CTC TCTTTCTCTTTCTCTTTCTCTTTCTCTTT CTCTTTCTCTTTCTC	GAGAGCGTCTTTGGAA GTGG	GATCCGCTTTTACAAC CCA	59.9	666	INTERGENIC	--	--	--
Ca7_P2_5886803	Ca7	5886803	TA/TAATCCA	GAGCATGTAGGTGCTG GGTT	TTCATTGCATCTATTTT GTTACCTTT	59.4	323	INTERGENIC	--	--	--
Ca7_P2_5887462	Ca7	5887462	CATAT/CAT	GACCTCAAACTCGTTGA TTTGTC	ACTATGAGCATGGGTG GGAG	60.0	110	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5888335	Ca7	5888335	ATGGGCTTGGGCTTGGG/ATGGGCTTG GGCTTGGGCTTGGGCTTGGG	TAAGGGGCACACTTTC CAAC	CCCCTAACACTCTTGC CAAT	60.0	637	CDS (large-effect mutations)	Ca_06769	O	--
Ca7_P2_5889222	Ca7	5889222	CTTT/CTT	ATTGGCAAGAGTGTAC GGG	GTGTGACTTTGGCCAC CTTA	58.6	520	DRR	Ca_06769	O	--
Ca7_P2_5890273	Ca7	5890273	TTATATATATAT/TTATATATATATAT	TGTTTCATATACACATGC ATCGC	TGAGAGTGAGATGGTG GTCA	57.6	127	DRR	Ca_06769	O	--
Ca7_P2_5891630	Ca7	5891630	TGG/TG	GCTGGGATAATAGGGC CTTC	AAATGGGTGAGATCAG CGAC	60.1	507	INTERGENIC	--	--	--
Ca7_P2_5893416	Ca7	5893416	TAAAAAAAAA/TAAAAAAAAA	ATCCTCCTTGAATTGCG AGA	CGGTGTTGTCCGTTTT TCTT	60.0	875	INTERGENIC	--	--	--
Ca7_P2_5893566	Ca7	5893566	CTTTTT/CTTTTT	AAATGAAAGCAGGCCT CAAA	CGGTGTTGTCCGTTTT TCTT	60.0	411	INTERGENIC	--	--	--
Ca7_P2_5893840	Ca7	5893840	CAAAAAAAAA/CAAAAAAAAA	AAATGAAAGCAGGCCT CAAA	CGGTGTTGTCCGTTTT TCTT	60.0	411	INTERGENIC	--	--	--
Ca7_P2_5894005	Ca7	5894005	GTTTTTTTTT/GTTTTTTTTTTT	AAGAAAAACGGACAACA CCG	TGTTGTGCATGACTTG AAGG	58.2	375	INTERGENIC	--	--	--
Ca7_P2_5894787	Ca7	5894787	TTTTAAAA/TTTTAAAAATTTAAAA	CGGTTCAATCAGGTG ACATT	TGGCCCCAAAATTGAT ACAT	60.0	421	INTERGENIC	--	--	--
Ca7_P2_5895013	Ca7	5895013	CAAAAAAAAA/CAAAAA	CGGTTCAATCAGGTG ACATT	TGGCCCCAAAATTGAT ACAT	60.0	421	INTERGENIC	--	--	--
Ca7_P2_5895955	Ca7	5895955	CAAAAAAAAA/CAAAAAAAAAA	CGTTTGTAAGTTGCGG GATT	GGCTCAAAGTGGGTGA ATGT	60.0	493	INTERGENIC	--	--	--
Ca7_P2_5900089	Ca7	5900089	CATATAT/CATATATATAT	TTTCATGCATTGGTTT CCA	TCTCTAATGCATGGCA GCAC	60.0	513	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5901955	Ca7	5901955	TAA/TAAA	TACACCGGTTCAATTGG GAT	GGACGAAGATATTCAT CAACCG	60.7	875	INTERGENIC	--	--	--
Ca7_P2_5903905	Ca7	5903905	CTACAATTT/CTACAATTTTTATACAAT TT	GGATTGAATGGATCGC TTGT	GTGAGATTGAAAACGC GTGA	59.8	602	INTERGENIC	--	--	--
Ca7_P2_5906395	Ca7	5906395	TAAAAAAAA/TAAAAAAAA	TGTGATGGAAAGCTCC ACAA	CAATGCGTGAAAAGCT CTGA	60.1	161	INTRON	Ca_06768	--	--
Ca7_P2_5906756	Ca7	5906756	AA/AACA	TCAGAGCTTTTCACGCA TTG	TCCATCAGCAGTTATTC CCC	59.9	801	INTRON	Ca_06768	--	--
Ca7_P2_5909112	Ca7	5909112	GA/G	CGAATGGGAAAAAGCT TCAA	CCAGGAGAAATGAAAC CGAA	60.0	541	DRR	Ca_06768	--	--
Ca7_P2_5910523	Ca7	5910523	TT/TTTAATGAT	TGATCACCGATTCAATT TCA	ACCGGCTTTCACAAAT GAAG	60.1	388	INTERGENIC	--	--	--
Ca7_P2_5916457	Ca7	5916457	TATCATCATCATCATCATCA/TATCA TCATCATCATCATCATCA	CATGCAATCATGTATCC CCA	CTACCTGCACCCCTA TTGA	59.9	475	CDS (large-effect mutations)	Ca_06766	G	G2-like
Ca7_P2_5925381	Ca7	5925381	AAAGAAGAAGAAGAAGAAGAAGAA GAAGAAGAA/AAAGAAGAAGAAGA AGAAGAAGAAGAAGAAGAAGA AGAAGAA	CGAGGCATCTCCGTTA AAAA	GCAAAGCACAAAGCAA ATGA	60.0	484	INTERGENIC	--	--	--
Ca7_P2_5934199	Ca7	5934199	GTATATATATATA/GTATATATA	TTGAAAACAATTTTGCA GGC	CACGAGCGCTTTAA ATCC	59.9	903	DRR	Ca_06764	P	GRAS
Ca7_P2_5950738	Ca7	5950738	T/TC	TGCAGCTTCAAGTTTG TTG	AGGCGCTTATCTGAT TGAA	59.8	774	INTRON	Ca_06762	L	--
Ca7_P2_5952103	Ca7	5952103	TAAAAAAAA/TAAAAAAAA	CTTCGTCCCAACCTGA CATT	CCTCGATGTCATTCGTT CCT	60.1	548	DRR	Ca_06761	A	AP2
Ca7_P2_5955426	Ca7	5955426	CA/C	TTCCCAATCACTTTGGC TTC	ATTGTGGCACTAGTGG AGGG	60.0	947	INTRON	Ca_06761	A	AP2

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_5995583	Ca7	5995583	CTT/CTTT	GACCGTCAAGGGGTTG TTTA	GCTAACTGTCCATCC GTTTTT	59.5	410	INTERGENIC	--	--	--
Ca7_P2_5995821	Ca7	5995821	ATGT/AT	GACCGTCAAGGGGTTG TTTA	AGTTTATTGGCGCACC AGAG	60.3	916	INTERGENIC	--	--	--
Ca7_P2_6004116	Ca7	6004116	A/AG	TTCGATATTGTCCGTA TTCA	TATGTCCTACCCGAAG GGTG	59.8	786	INTERGENIC	--	--	--
Ca7_P2_6006833	Ca7	6006833	ATTTTTTTT/ATTTTTT	CATTGCAAATGGGTCAA ACA	TTCTTTCCAATAAAGC TTCAAAA	59.7	670	INTERGENIC	--	--	--
Ca7_P2_6007275	Ca7	6007275	ATTTTTTTT/ATTTTTT	TGAAGCTTTATTGGAAA GAAATCA	TGACAGGGTCATGCGT GTAT	60.0	576	INTERGENIC	--	--	--
Ca7_P2_6008667	Ca7	6008667	ATTTT/ATTT	CCATCCCATTGTTAT TGG	CCCTTCGGTCATCAAC GTAT	59.8	486	DRR	Ca_06759	--	--
Ca7_P2_6013946	Ca7	6013946	AGT/AGTGT	GGCTTTAAGCACTTCAG CGA	CGTTTTTCCGATCGAG TGTT	60.1	934	INTRON	Ca_06758	R	--
Ca7_P2_6015163	Ca7	6015163	ATTTTTTTT/ATTTTTT	ACACGCAGCTCCTTTTC AAC	TCCAATTTTAAACAATA CCACAGC	59.4	375	INTERGENIC	--	--	--
Ca7_P2_6016711	Ca7	6016711	ATTTTTTTT/ATTTTTT	GCCTTTTCTTTTCAAG CCC	CATTTTGACAAGTGCAT AGTTTGA	59.2	306	INTERGENIC	--	--	--
Ca7_P2_6017259	Ca7	6017259	TAAA/TAA	TGCACTTGTCAAAATGA GTAAAG	CGTGTCTCGTAACTCA ATCCA	58.8	734	INTERGENIC	--	--	--
Ca7_P2_6018232	Ca7	6018232	CTAA/C	GAGCCAAC TTGTTGTC ACGG	CGAGGTGACACACATT TTCG	60.2	271	INTERGENIC	--	--	--
Ca7_P2_6020433	Ca7	6020433	TAAAAAA/TAAAAAA	AATCCGTTGAGATTGG GATG	TTTTGTTCATTGGTG TTTATTTT	59.9	677	DRR	Ca_06757	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_6020761	Ca7	6020761	TC/T	AAACAAAGGAAAGGAC AAAAATG	TGACGTTTAGTTTTCT GTTTTATTG	58.1	826	DRR	Ca_06757	R	--
Ca7_P2_6021501	Ca7	6021501	CTTCTTT/CTT	CAATAAACAGAAAAAC TAAACGTCA	TTTTGTTCGAATTCAC GGA	59.0	786	DRR	Ca_06757	R	--
Ca7_P2_6021592	Ca7	6021592	GTTTTTTTTT/GTTTTTTTTT	TCTTGCAAAAACACGTT TCAA	TTTTGTTCGAATTCAC GGA	59.0	366	DRR	Ca_06757	R	--
Ca7_P2_6021693	Ca7	6021693	ATTTTTTTTT/ATTTTTTTTT	TCTTGCAAAAACACGTT TCAA	TTTTGTTCGAATTCAC GGA	59.0	366	DRR	Ca_06757	R	--
Ca7_P2_6022130	Ca7	6022130	GATAATAATAATAA/GATAATAATAA	TCCGTGAATTGGAACA AAA	TCAGGTTTGGGATCTT CCTG	60.0	686	DRR	Ca_06757	R	--
Ca7_P2_6024790	Ca7	6024790	GAAAAAA/GAAAAAA	TCTCGATAGAAAACGTG GAAA	TTTCGACCCCTCTCTTT TAGG	59.7	918	INTRON	Ca_06757	R	--
Ca7_P2_6025144	Ca7	6025144	GAAAAA/GAAAA	GAACGCAAGAGCTAAA AGAAAA	AGGGCAGAGCAATACA ATGG	60.1	597	INTRON	Ca_06757	R	--
Ca7_P2_6025436	Ca7	6025436	TG/T	CCATTGTATTGCTCTGC CCT	TAACATGGCGCGTCA TTCA	60.2	495	INTERGENIC	--	--	--
Ca7_P2_6031962	Ca7	6031962	AATATA/AATA	TGCACATTATTGCTT GCT	GCCAGCCACTGGAGT CTTA	60.4	627	INTERGENIC	--	--	--
Ca7_P2_6032084	Ca7	6032084	CTTT/CTTTTT	TCTTTGTGCAGATCTT GGC	CTCGATGCACATCAAA CAGC	60.4	391	INTERGENIC	--	--	--
Ca7_P2_6033948	Ca7	6033948	ATTTTT/ATTTTTTT	ACTTCAGCATCAAGCCA GGT	AAAATTTTGCAGTTG GTTGTT	59.0	291	DRR	Ca_06755	A	--
Ca7_P2_6034058	Ca7	6034058	ATTTTT/ATTTTTTT	ACTTCAGCATCAAGCCA GGT	TTTTCGAAGGCAATTGA ACC	60.1	692	DRR	Ca_06755	A	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_6034341	Ca7	6034341	ATTTT/ATTTT	AACATGGAAATTGTTG GCA	TTTTCGAAGGCAATTGA ACC	60.1	638	DRR	Ca_06755	A	--
Ca7_P2_6044320	Ca7	6044320	A/AATT	TCACCCACTTTGGTTG ATA	CAATTAAGTGAAGTGG CCAAA	57.8	339	INTERGENIC	--	--	--
Ca7_P2_6045533	Ca7	6045533	AT/A	AATGATTTCGTGGGTG AAG	GACGCATTTTGTGCTT TCA	59.9	214	INTERGENIC	--	--	--
Ca7_P2_6046433	Ca7	6046433	ATCAGGACTCAGGA/ATCAGGA	CTCAATTTAATCCAGC GGC	TGTTTTGTTTGTCTATT GGACGT	59.8	887	INTERGENIC	--	--	--
Ca7_P2_6049612	Ca7	6049612	CA/CAAA	GCTTGTCCATTGTCAG TTG	TTATGCCCCAACCATCT CTC	59.9	686	INTERGENIC	--	--	--
Ca7_P2_6055421	Ca7	6055421	TAAAAA/TAAA	TTTGTGTCTTCCAGGT CCC	AGAAGTTCGCATCCAG ACAC	60.3	507	INTERGENIC	--	--	--
Ca7_P2_6055513	Ca7	6055513	T/TTAGTATG	TTTGTGTCTTCCAGGT CCC	AGAAGTTCGCATCCAG ACAC	60.3	507	INTERGENIC	--	--	--
Ca7_P2_6056347	Ca7	6056347	GTATACACTATACA/GTATACA	CCATCGATTTAAAAATG AGCA	TATGGGGGCGGATAAT TACA	60.0	517	INTERGENIC	--	--	--
Ca7_P2_6060233	Ca7	6060233	TTGTGTGTGTGTGTGTG/TTGTGTGTGTGTGTGTGTGTGTG	ACCGTTTTGTGCATCTC TCA	GATTCAACCATAAAGT GTGGC	59.3	687	INTRON	Ca_06754	K	TALE
Ca7_P2_6060869	Ca7	6060869	ACT/ACTCT	CCTTGGTCTGTCCACT TGT	GAACACGGACATGTTG TTGC	60.0	454	INTRON	Ca_06754	K	TALE
Ca7_P2_6062336	Ca7	6062336	GTTAT/GTTATATTAT	CAAAGGAAAAGGAATT GGCA	TGCTTTACCTGCACT GTTC	60.0	188	DRR	Ca_06753	--	--
Ca7_P2_6062652	Ca7	6062652	TGG/TG	GAACAGTGCAGGTGAA AGCA	CAAGTCTGAGGTTGG ATGAA	60.1	396	DRR	Ca_06753	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_6063767	Ca7	6063767	ATTTT/ATTT	ACCTTAAGCAAAGGCAA CGA	AGTGGGGCTCAAAGT AAGA	59.8	410	DRR	Ca_06754	K	TALE
Ca7_P2_6063960	Ca7	6063960	TA/T	ACCTTAAGCAAAGGCAA CGA	CCGAGTGTTCACCTCG AAAT	60.1	660	DRR	Ca_06753	--	--
Ca7_P2_6065107	Ca7	6065107	ATTTTTTTTT/ATTTTTTTTT	CCATGAAAATATCCTCG TGCT	TGCTCAGTGCTCACGA GTCT	59.9	948	DRR	Ca_06752	T	bZIP
Ca7_P2_6067563	Ca7	6067563	CTTTTTTTTT/CTTTTTTTTT	ACAAGACTGCTGCTTC CGTT	CCAACCAACCATTCCT CTG	60.3	445	INTRON	Ca_06752	T	bZIP
Ca7_P2_6081820	Ca7	6081820	CTTTTTTTTTTTTT/CTTTTTTTTT	GATTCTCGGGTTTTGT GGA	AACGAGAGTCTAACGC CTTCC	59.9	825	INTERGENIC	--	--	--
Ca7_P2_6082788	Ca7	6082788	AGTG/A	TGCAGTGCATATGACTC TGTGT	ATTGACAGCAAAACG GTCC	60.0	477	INTERGENIC	--	--	--
Ca7_P2_6082967	Ca7	6082967	GTTT/GTT	CTCTGTGTCATGCACCA GTGT	ATTGACAGCAAAACG GTCC	60.0	463	INTERGENIC	--	--	--
Ca7_P2_6083464	Ca7	6083464	AATATA/AATATATA	GGACCGTTTTGTGTG AAAT	CACATTCTGGCTTCC AACT	60.1	548	INTERGENIC	--	--	--
Ca7_P2_6083840	Ca7	6083840	TTA/TTAATA	AGTTGGAAGCCAGGAA TGTG	AGGAGCAGAGCAGAGT GACC	59.7	469	INTERGENIC	--	--	--
Ca7_P2_6084392	Ca7	6084392	A/AC	CCTTAGTTGCACAAG GGGA	GAAAGGAATAAAATG AACCCA	59.2	662	INTERGENIC	--	--	--
Ca7_P2_6089038	Ca7	6089038	TAAAAAAAAA/TAAAAAAAAAAAAA	TGTCCTTCGTATATTGG GGG	TCGAGCACATTCAACT CCTG	60.0	321	CDS (large-effect mutations)	Ca_06750	O	--
Ca7_P2_6089455	Ca7	6089455	GA/GAAAAATAACTAA	CAAGAAACCTCCAACCC AAA	TGGCTTCTCTTGCTGA TCCT	60.1	430	INTRON	Ca_06750	O	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_6097018	Ca7	6097018	AG/A	CTCAGCAGCACAAATC CAAA	GCACAACATCACCATAT CGC	60.0	472	DRR	Ca_06748	--	--
Ca7_P2_6100952	Ca7	6100952	CTTTTTTTTT/CTTTTTTTTT	TATTGCATGTTTGACGG CAT	CGGACTCCCCCTTTTT ATTC	59.8	558	INTRON	Ca_06748	--	--
Ca7_P2_6102449	Ca7	6102449	TA/T	CGAATGAAACGTGTACT CGAAA	GGTCGTAAGATGGAGA AACGA	59.2	618	INTERGENIC	--	--	--
Ca7_P2_6104896	Ca7	6104896	AG/A	TTGAACTCCCCAAGGAA ACA	TCGGTTGAATTTTGAAT CATCA	60.3	315	INTERGENIC	--	--	--
Ca7_P2_6106310	Ca7	6106310	TTAT/TT	ACATCCTGGACCTGCT CATC	ATTCGAACGCGAATTT CAG	60.2	546	DRR	Ca_06747	--	--
Ca7_P2_6106620	Ca7	6106620	TA/T	TTAGGGCATGTCTCCA GCTT	ACTTCGACCACCACTT CCA	60.5	553	DRR	Ca_06747	--	--
Ca7_P2_6107322	Ca7	6107322	C/CA	CAATATCACATTTGTG GTTGAA	TGAAAATGGTGAAAGT GGAACA	60.4	336	DRR	Ca_06747	--	--
Ca7_P2_6107406	Ca7	6107406	AAAAATTTAAATTT/AAAAATTTAAATTT TAAATTT	TGTTCCACTTTCAACAT TTTCA	TGGGTGTTTTATTTTC AGATTACTG	59.7	204	DRR	Ca_06747	--	--
Ca7_P2_6107658	Ca7	6107658	TG/T	TGTTCCACTTTCAACAT TTTCA	GAGCAGTGTGGGTTT TAGG	59.6	703	DRR	Ca_06747	--	--
Ca7_P2_6107977	Ca7	6107977	TAA/TA	TGTATTGAAAATATGGA CGAGGTC	CTTCTTCGGCTGTTGG GTAG	59.9	425	INTERGENIC	--	--	--
Ca7_P2_6108030	Ca7	6108030	TTCTCT/TTCTCTCT	CAGGGCCTAGCCCAT TAAC	CCTAGCATGAACGCG ATGA	60.0	529	INTERGENIC	--	--	--
Ca7_P2_6113782	Ca7	6113782	GTTT/GTTTT	CCTGCATACTGTGACAT GGG	TTCAATCAGATCCACCA CCA	59.9	665	DRR	Ca_06745	T	MYB_related

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_6122129	Ca7	6122129	GTTTTTT/GTTTTTTT	TGGGTCGAGCCTAATTG	CCGATTCATCCAAGCCTTA	60.0	435	INTERGENIC	--	--	--
Ca7_P2_6125027	Ca7	6125027	GAAAAAAAA/GAAAAAAAAA	AGAGGCTGTGAGAGTAGCCG	CAAATTTGACACACCTA AAAAGACA	59.5	683	INTERGENIC	--	--	--
Ca7_P2_6125384	Ca7	6125384	TAAATTC/TAAATTCAAAATTC	TCAACTTCACACTTGGTTAAA	TCAACTATCATCCCTTGTCTTT	59.0	902	INTERGENIC	--	--	--
Ca7_P2_6126281	Ca7	6126281	TAAAA/TAAAA	TTTCTGCCTAGAAAAGT TCCAT	TGTAGCCACGTAAGGAACCT	58.8	246	DRR	Ca_06744	O	--
Ca7_P2_6126782	Ca7	6126782	CA/CAAAAA	AAGGTTTCCTACGTGGCTACA	TCACGGGGCTAATTTCTTG	60.1	476	DRR	Ca_06744	O	--
Ca7_P2_6138610	Ca7	6138610	T/TG	TTTCAACGCCATTACTTCCC	TGTGGACGAGCTTGTC TTTG	60.0	541	INTERGENIC	--	--	--
Ca7_P2_6141449	Ca7	6141449	TTATATATATATA/TTATATATATATATA	GAAGGCATAAACTCCA CGTCA	ATTTTGGCATGTCCGCTAC	60.0	503	INTERGENIC	--	--	--
Ca7_P2_6143274	Ca7	6143274	ATAAACTT/ATAAACTTGTAACCTT	TCGCATTACGATTCACTACC	TTTGCGTTTGTGTGTGTG	60.2	738	INTERGENIC	--	--	--
Ca7_P2_6148021	Ca7	6148021	ATGTT/ATGTTGTT	CTAAAGATCGCGGCAGAAAG	GGGATACGTTTGGGGA AAGT	60.1	471	CDS (large-effect mutations)	Ca_06742	--	--
Ca7_P2_6152310	Ca7	6152310	ATTTTTTTTT/ATTTTTTTTT	ACCCAACCCAATCCAATTTT	GGACTACTGGGACTGCCAAA	60.1	181	INTERGENIC	--	--	--
Ca7_P2_6153489	Ca7	6153489	CAT/CATAT	GCAAATTTAGGCTGGACCA	GAAGGGTCAAGCTCAAGCAC	60.0	460	DRR	Ca_06741	--	--
Ca7_P2_6162985	Ca7	6162985	TTT/TTTATT	CTACCCCACTTGCCATGATT	TCACAAACGCGGTGATTTA	60.1	624	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_6164238	Ca7	6164238	CG/CGG	CATCCAACAACAACGT GATG	GCTTATTGGCTCCAGC AGAG	60.1	852	INTERGENIC	--	--	--
Ca7_P2_6166062	Ca7	6166062	TAAAAAAA/TAAAAAAA	TCAACACATGAATTGCA CAAAA	CTGTTCCGTGTCTCC CATT	60.0	269	INTERGENIC	--	--	--
Ca7_P2_6195527	Ca7	6195527	GTATATATATATATATATAT/GTATATAT ATATATATATATAT	GATCTAACGGCTGAGC GAAC	CAGAAGCTCCAAGAAC TGCC	60.1	156	DRR	Ca_06738	--	--
Ca7_P2_6197761	Ca7	6197761	AACA/AACACA	TGCCATTAACCTTGCAAT CCA	CAATCAACCATGTCCG TCAA	60.4	635	INTERGENIC	--	--	--
Ca7_P2_6314366	Ca7	6314366	GTTTTTTTTT/GTTTTTTTTT	TGACGTCAAAGATCCCA AAA	TGCTCCCTTAATTGCA TGA	59.3	567	INTERGENIC	--	--	--
Ca7_P2_6347731	Ca7	6347731	ATAATTA/ATAATTAATTA	TGTTAATCACCCCGGAA AAA	GCTGCATTTCAGAAGC ATCA	60.1	521	DRR	Ca_06721	R	NAC
Ca7_P2_6444784	Ca7	6444784	AATATATATATATATATATAT/AATATA TATATATATATATAT	TGCCAATAATTTCCATC GCT	TTTCTCAAATGCCCTTG TCA	59.2	327	INTERGENIC	--	--	--
Ca7_P2_6481476	Ca7	6481476	ATTTT/ATTT	TCCTCGCTGTTGACAAT CAC	TTGTTAAGTGGTGGA AGGC	60.0	454	INTERGENIC	--	--	--
Ca7_P2_6614224	Ca7	6614224	TAAAAAAAAA/TAAAAAAAAA	AGCGCTGCAATAGGCT TTTA	TGAAGATGGTTTGCA TGGA	60.0	697	INTERGENIC	--	--	--
Ca7_P2_6614899	Ca7	6614899	CATATATATATATATATATATAT/CA CATATATATATATATATATATATAT ATA	TCCATTGCAACCATCT TCA	TTGTTAGTTTGACGAG GGCA	59.3	443	INTERGENIC	--	--	--
Ca7_P2_6674039	Ca7	6674039	CATATATATATATATATATAT/CATATAT ATATATATATATATAT	CAGAATTTCAACAACCC AAACA	CTTTGGCCCATTAAGC AGAA	60.2	676	DRR	Ca_06693	--	--
Ca7_P2_6686273	Ca7	6686273	TAAAAAAA/TAAAAAAA	TGCCATAAATGTCAAGA TGTGA	CCAATTTGTGAAGGA GGGA	59.9	887	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_6799187	Ca7	6799187	CAAAAAAAAA/CAAAAAAAAA	AACGACTCTCGTCGTC CAT	ATGTTGTCGCACTCTC ATCG	59.9	647	INTERGENIC	--	--	--
Ca7_P2_6842219	Ca7	6842219	GA/GAAA	CCAATTCGGGGATAA AGTT	TGGGATGACAAAACGA GTCA	60.1	124	INTERGENIC	--	--	--
Ca7_P2_6854971	Ca7	6854971	ATTTTTTTTT/ATTTTTTTTT	TATGAGGAGTGTGCTG CTGG	ACTCGCGGACTTAACT TCCA	59.9	348	INTRON	Ca_06677	T	YABBY
Ca7_P2_6876498	Ca7	6876498	TTATATATATATATATATATATATA TA/TTATATATATATATATATATATA TATATATATA	GTGAGCTGGCTCAATC AACA	CAACACCTAAGCACGC AAGA	60.1	330	INTERGENIC	--	--	--
Ca7_P2_6912264	Ca7	6912264	TTATATATATATATATATATAT/TTATA TATATATATATATATATATATAT	TGCACTGCACATGTTG AATAA	AATCCCTGCAATTGTG GAAG	59.9	560	INTERGENIC	--	--	--
Ca7_P2_6925306	Ca7	6925306	TTTTTATATTTATAT/TTTTTATTTTA TATTTTATAT	ATTTTGACACGGCAAAG TCC	TGAGTGGCTGAGAAC CTGC	60.2	813	INTERGENIC	--	--	--
Ca7_P2_6961452	Ca7	6961452	T/TC	AGGTTTAGGGCGGAAA CAAT	GCAATTCCTCTTGTC CAGA	60.2	694	DRR	Ca_06668	--	S1Fa-like
Ca7_P2_7021774	Ca7	7021774	TAAAAAAAAA/TAAAAAAAAA	AGAGGGTGGATGTTGC GTAG	TTTGCACGCACACCAC TAAT	60.2	495	INTERGENIC	--	--	--
Ca7_P2_7119310	Ca7	7119310	TAGCTATATACCA/TA	GTTTGCTTTTGCCCAAG GTA	CAAGCGCTGTTCTCAT GGTA	60.0	380	DRR	Ca_06647	R	bHLH
Ca7_P2_7143640	Ca7	7143640	ATTTTTTT/ATTTTTTT	TGAGTGCATGTTCTG GATG	ATTTCATGGTTTCCAG CAC	59.8	591	DRR	Ca_06643	--	--
Ca7_P2_715296	Ca7	715296	CTT/CT	ATCAAGCCATGAGCCA CTTT	AAGCTGTGTTGCTCAT GCAC	60.1	444	DRR	Ca_03412	--	--
Ca7_P2_7243214	Ca7	7243214	CTATATATATATATATA/CTATATATAT ATATATATATA	CGTCCGTGAAAGGTTT CCTA	TGACCGACTATACAATC TTACATGC	59.5	669	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_7245460	Ca7	7245460	TTATATATATATATATAT/TTATATATA TATATATAT	GGCAACTTTATTTGCG GAA	TCAATGCACCGAGAGA TGAG	59.9	664	INTERGENIC	--	--	--
Ca7_P2_7284443	Ca7	7284443	AATATATATATATATATATATATAT ATATA/AATATATATATATATATATATA TATATATATATATATATA	TTGAATTCGGAGTTTC CTTTT	CCTCACTTCATTGCTG CTCA	60.1	992	INTERGENIC	--	--	--
Ca7_P2_7332178	Ca7	7332178	TC/T	TCGACAGTTTGGTCAC TGCT	TCTCATCTCCTCCAATC TCTCA	59.0	592	INTERGENIC	--	--	--
Ca7_P2_7332238	Ca7	7332238	CATATAATTATAT/CATATAATTATATAA TTATAT	TCGACAGTTTGGTCAC TGCT	TCTCATCTCCTCCAATC TCTCA	59.0	592	INTERGENIC	--	--	--
Ca7_P2_7335750	Ca7	7335750	TAAAAAAAAAAAA/TAAAAAAAAA	GTGTTTGGGATTGCGT TCTT	CTCCCGCAAATTGAAA ATGT	59.9	583	INTERGENIC	--	--	--
Ca7_P2_7374954	Ca7	7374954	AG/A	TGGACGTCATATTCTGG GTTC	TCTTGAGTTGCGTGTTT TAGTTTT	59.4	529	INTRON	Ca_06621	Q	E2F/DP
Ca7_P2_7375569	Ca7	7375569	CTG/C	AAAATGTCTCCTATCCG TTTTCA	TTCGATGTATGGTCTTC GCA	60.2	387	INTRON	Ca_06621	Q	E2F/DP
Ca7_P2_7380527	Ca7	7380527	TTATA/TTA	GAATTTGAATGGTGAAC CCA	GACACACACACACACA CACACA	60.1	287	INTERGENIC	--	--	--
Ca7_P2_7380960	Ca7	7380960	AAT/AATTAT	GGTGAACCCATTGCAA TTTT	TCAGGCCAAGAAAGGA GAAA	59.9	766	INTERGENIC	--	--	--
Ca7_P2_7385094	Ca7	7385094	GGT/GGTGT	ATTCATTTC AAGTTTG CGG	CAAATGAGCAGCTCGG TGTA	60.0	750	INTRON	Ca_06620	S	--
Ca7_P2_7389596	Ca7	7389596	TAAAA/TAAA	TAATTGGAAAATCCCCA CCA	AACATGTTCACAAACG CCAA	60.0	477	DRR	Ca_06619	T	--
Ca7_P2_7390669	Ca7	7390669	AA/AATA	CGAATGGAGGGTTACT TGGA	CTTACCTCATGGCCCA CACT	60.0	768	DRR	Ca_06619	T	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7393595	Ca7	7393595	AATAAAATATATA/AATA	CACTCATGCTTGACG AAAA	TTGGCTTGATCTTGAT CAC	59.8	494	INTERGENIC	--	--	--
Ca7_P2_7402953	Ca7	7402953	TG/T	AAAATTTTGAAAGACG CCT	ACCTTAAGCATGCATG GCAC	61.1	517	INTERGENIC	--	--	--
Ca7_P2_7403778	Ca7	7403778	GTTTTTTTTTTT/GTTTTTTT	TTTTGAACCTGCAACTG GTG	GCTCTGTTTTCTGAGC CCAC	60.0	475	DRR	Ca_06618	--	--
Ca7_P2_7403816	Ca7	7403816	TG/T	TTTTGAACCTGCAACTG GTG	GCTCTGTTTTCTGAGC CCAC	60.0	475	DRR	Ca_06618	--	--
Ca7_P2_7404264	Ca7	7404264	TAAAAAA/TAAAAAA	GGTGGGCTCAGAAAC AGAG	TCCAGGTATTGCATT GTGA	59.9	603	DRR	Ca_06618	--	--
Ca7_P2_7410830	Ca7	7410830	AAGA/AA	TTTCAATGTAATGGGC CGT	ACCCGTAAGCATGGAA ACAT	59.3	392	INTERGENIC	--	--	--
Ca7_P2_7411561	Ca7	7411561	TAAA/TAA	AGTTACCCGATGTGCAT GGT	TGCAAACTTTGGTGTG GGTA	60.0	631	INTERGENIC	--	--	--
Ca7_P2_7411632	Ca7	7411632	TAAGTCA/TA	AGTTACCCGATGTGCAT GGT	TGCAAACTTTGGTGTG GGTA	60.0	631	INTERGENIC	--	--	--
Ca7_P2_7411899	Ca7	7411899	TAAAAAA/TAAAAA	AGTTACCCGATGTGCAT GGT	TGCAAACTTTGGTGTG GGTA	60.0	631	INTERGENIC	--	--	--
Ca7_P2_7413061	Ca7	7413061	TTAA/TTAATAA	TCGATTAGTTGAGTTG GGG	ACTCAAACCTGATGAC GGCT	59.9	446	INTERGENIC	--	--	--
Ca7_P2_7413966	Ca7	7413966	T/TA	TGTTTGACCGATGAGG ATGA	TGATGGGAGAGTGGTG TCAA	60.1	240	INTERGENIC	--	--	--
Ca7_P2_7414192	Ca7	7414192	ATTT/ATT	TGTTTGACCGATGAGG ATGA	TTGGTAGTACAACAAG AGTCCCC	59.4	659	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7415024	Ca7	7415024	GATATAT/GAT	TCATTTATGCAACCTT TCTCG	TTCATTTACACCGTTAG CCTTT	57.9	557	INTERGENIC	--	--	--
Ca7_P2_7416690	Ca7	7416690	ACTT/A	AGCATAGGCCCGTCCT AAAT	TGCCGTGTCATATTTCA CATT	58.9	685	INTERGENIC	--	--	--
Ca7_P2_7430415	Ca7	7430415	T/TG	GGCAAAGAAGACGAAA CTGC	TTCTGTTGAGATGCACT GCC	60.0	899	INTRON	Ca_06617	UO	--
Ca7_P2_7439109	Ca7	7439109	TG/TGG	CATTTATGCCATCGTTA CATTTTT	GGGTAAATGCATGGTT GGAC	60.1	629	DRR	Ca_06616	--	bHLH
Ca7_P2_7440742	Ca7	7440742	GGAG/GGAGAG	ATCATCCACGACCCAAT CAT	CACAAACAGAATGTGC ACCC	60.0	562	INTRON	Ca_06616	--	bHLH
Ca7_P2_7443214	Ca7	7443214	ATTTTTTTTT/ATTTTTTT	CGGCTTAAATCCACGT CAT	TTCCACTTCTTCCACTG ATCC	59.1	883	INTERGENIC	--	--	--
Ca7_P2_7448837	Ca7	7448837	AT/ATTTTGACT	TAAATGCATGCAAAATG GGA	CGAAATACCTCATGCG AGGA	61.1	482	DRR	Ca_06614	A	--
Ca7_P2_745192	Ca7	745192	TAAAAAAAAAAAAA/TAAAAAAAAAAAA A	CCACATCCAACAACATT AAAAA	GGACCTGACGGAATGA AAAA	59.9	762	INTERGENIC	--	--	--
Ca7_P2_7455992	Ca7	7455992	TAGAG/TAG	CTTGCTCTCGTCCAACA ACA	TTAATTTGTAACGGC GTCC	60.0	426	INTERGENIC	--	--	--
Ca7_P2_7458735	Ca7	7458735	A/AT	TTTTGCAATTTGACCGT CTTT	GACCCACATAGTGAGG GGTG	60.2	693	INTERGENIC	--	--	--
Ca7_P2_7459713	Ca7	7459713	TACA/T	TTTTTGTCTTAACGGG CCG	TGGAGGTCTCCTCGTT CACT	59.8	541	INTERGENIC	--	--	--
Ca7_P2_7462087	Ca7	7462087	TTTACTTACTT/TTTACTTACTTACTT	TTGAAGCTGCTGCTGA AAGA	CAGATGTCCAACACCG ACAC	60.0	323	INTRON	Ca_06613	B	NAC

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7489535	Ca7	7489535	AT/ATT	TTTCTTTCACGTCCTTT TCCA	AAAAAGTGGTTGAGCC GTGT	59.6	360	INTERGENIC	--	--	--
Ca7_P2_7491396	Ca7	7491396	CA/CAA	AGCCACAGCGCAATTC TACT	TTGAAGCGTTTGTTC TTTG	60.0	408	DRR	Ca_06610	L	GeBP
Ca7_P2_7491994	Ca7	7491994	AAAGAA/AAAGAAGAA	GCAAAGCTTGCTTTTT TCC	ATAGAGGGCGCATGTC ACTT	59.7	411	INTRON	Ca_06610	L	GeBP
Ca7_P2_7501394	Ca7	7501394	CAA/CA	TAACACCTCCCTCCAA CAG	TTTTGCCATTTCCTTC CTG	60.0	482	INTERGENIC	--	--	--
Ca7_P2_7504468	Ca7	7504468	TT/TTAT	GAAACAAATTTGGATC CCC	GTATAGCCGTCTCAAT CGCC	59.7	591	INTERGENIC	--	--	--
Ca7_P2_7504668	Ca7	7504668	CCT/CCTTTCT	TGGTTGGTTTAAGGAC CACC	GTATAGCCGTCTCAAT CGCC	59.7	392	INTERGENIC	--	--	--
Ca7_P2_7508944	Ca7	7508944	GTAGCTAGCTAG/GTAGCTAG	TTCCGGGGAACAAGAA ATTA	TCCTTTTGCCGTTTGA TCT	59.7	909	INTERGENIC	--	--	--
Ca7_P2_7509273	Ca7	7509273	AAAGAAGAAGAAGA/AAAGAAGAA GAAGA	TGTTTTCCACCCTCAC TTT	TCTTGCTTTTCCCTTC CAA	59.8	564	CDS (large-effect mutations)	Ca_06609	--	TCP
Ca7_P2_7510196	Ca7	7510196	TC/TCC	TTGGAAGGGAAGC AAGA	TGCATTTATTCTGCAC CTGA	59.3	555	DRR	Ca_06609	--	TCP
Ca7_P2_7513677	Ca7	7513677	CACTAT/CACTATACTAGTATTACTAT	ACGCGGTCAAAAGTGA AGAG	TTTGAATTTGGATCAAG ATGG	57.5	546	INTERGENIC	--	--	--
Ca7_P2_7543253	Ca7	7543253	AG/A	ATTAATATGCCAATCG CCG	ACCACTACCAATTCTT GCG	60.0	596	INTRON	Ca_06607	K	C2H2
Ca7_P2_7544474	Ca7	7544474	GTATATATATATATAT/GTATATATAT ATATATATAT	AAAGTCAACAATTGGGC CTG	AAGGAAGACAAACGAA GCGA	60.0	603	DRR	Ca_06607	K	C2H2

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7547228	Ca7	7547228	CTGAACATGAACAT/CTGAACAT	TGACGATTGTTGTGAA GGG	TTCATCAACCTTCTCC CAG	60.0	746	INTERGENIC	--	--	--
Ca7_P2_7550729	Ca7	7550729	ATTTTT/ATTTTT	CCGTGAATTGGGTTC ACT	CTCGCGTAATCCCACG TATT	60.0	602	INTERGENIC	--	--	--
Ca7_P2_7551945	Ca7	7551945	TAGA/TA	TTCATGGCTGGATCGT CATA	AACACGGCATCATCTT TCA	59.9	281	INTERGENIC	--	--	--
Ca7_P2_7555499	Ca7	7555499	CCGAACATTGTTGC/CC	GAATGGGCTTAACAGG CAAA	CGGTTTGACATTTTCG TAGTG	59.6	465	INTERGENIC	--	--	--
Ca7_P2_7557237	Ca7	7557237	ATGT/AT	CTTTGCGTGGTCTAAAC GGT	GTGGAAGCAGCACTAT GCAA	60.0	654	INTERGENIC	--	--	--
Ca7_P2_7559685	Ca7	7559685	TGTG/T	TGGTTGTTGGTTCTTG TATGC	CGATTCTGTTAATGGA CGCTTC	60.0	962	INTERGENIC	--	--	--
Ca7_P2_7558944	Ca7	7558944	CATTAAATGGTAT/CATTAAATGGTATTAAT GGTAT	TCCTCATGTTTATTGGA CTGAGA	CTTGCCTTGCGAGAAG AGTC	60.3	705	INTERGENIC	--	--	--
Ca7_P2_7562173	Ca7	7562173	AGTTGTTGTTGGG/AG	TGGGAGTACGGGACAG TTTC	TCAACAAGGCCTAGGT CAACT	58.9	399	DRR	Ca_06605	R	--
Ca7_P2_7566257	Ca7	7566257	CAA/C	AGAGTCCGTCCTCCAC TTCA	TTTTGTCAACGGGTG CATA	60.0	319	INTRON	Ca_06605	R	--
Ca7_P2_7570585	Ca7	7570585	TA/T	AAACCTGTCGTTGAATT CCG	TTTGATTGTCACATTGG GGA	59.8	249	INTERGENIC	--	--	--
Ca7_P2_7570823	Ca7	7570823	ATTTTTTTTT/ATTTTTTTTT	AAACCTGTCGTTGAATT CCG	AACCTATTCGACATGG CTTTTT	59.1	611	INTERGENIC	--	--	--
Ca7_P2_7571267	Ca7	7571267	ATCT/AT	TGCAAAGGAAGGTATTT CAAAG	CCTCTATTATCATTACA TGGCGG	59.7	376	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7572270	Ca7	7572270	TAATATATA/T	AATGGGCAGAGGGAAG AGAT	CAAAATCATGAAAAATC AAATAGTTC	57.5	785	DRR	Ca_06604	--	--
Ca7_P2_7573635	Ca7	7573635	AGATGATGA/AGATGA	TCCGAATAAAACCACT GGC	ATCGTTTCCAGCCCA TATG	59.8	909	DRR	Ca_06604	--	--
Ca7_P2_7585278	Ca7	7585278	AA/AAAGATTATA	CTGCACTGCAAACATT GTT	GGTGAAAGAAGAAGCT GACCA	59.5	767	DRR	Ca_06603	R	--
Ca7_P2_7585659	Ca7	7585659	ATT/ATTT	CGTGGACCATTGTGA ACTC	TCTCCGATTAGCTGTT CCT	60.0	966	DRR	Ca_06603	R	--
Ca7_P2_7590715	Ca7	7590715	TAAAAA/TAA	ATCGTGCAGCTGTTCA CTG	ACCAGCATCTTGAAT CACC	59.9	205	INTRON	Ca_06601	S	--
Ca7_P2_7593435	Ca7	7593435	AATATATAT/AATATATATAT	TCAAAGCACATAAACAA AACAAACA	CTATTTGTCTTCGACCC CCA	59.9	406	INTERGENIC	--	--	--
Ca7_P2_7594078	Ca7	7594078	AAACAAA/AAAA	TGGGGGTCGAGACAA ATAG	AACCCATGATTAATTGT GCCA	60.1	701	INTERGENIC	--	--	--
Ca7_P2_7597807	Ca7	7597807	A/AT	TCCTTTATGATCAGCCC ACC	CGTTCAACGGAGCAAT TTTT	60.1	356	DRR	Ca_06600	A	--
Ca7_P2_7597885	Ca7	7597885	ATAAT/A	TCCTTTATGATCAGCCC ACC	CGTTCAACGGAGCAAT TTTT	60.1	356	DRR	Ca_06600	A	--
Ca7_P2_760350	Ca7	760350	T/TGTA	TCTAGCGACGGGTCTG ATCT	CAAATGCCAACAAAGCG TTTA	59.7	365	DRR	Ca_03403	R	--
Ca7_P2_760518	Ca7	760518	AACACACACA/AACACACA	TCTAGCGACGGGTCTG ATCT	CAAATGCCAACAAAGCG TTTA	59.7	365	DRR	Ca_03403	R	--
Ca7_P2_760856	Ca7	760856	GTTGAAGATTG/GTTGAAGATTGAAGAT TG	TAAACGCTTGTGGCAT TTG	AGTTCGACGGCTCTGT TGTT	60.1	445	DRR	Ca_03403	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_7609771	Ca7	7609771	TAAAAAAA/TAAAAAA	CCGATCTAATTCCTACG GCA	AGAAGTTTACGGCAGA CCA	59.7	548	INTRON	Ca_06599	R	--
Ca7_P2_7611806	Ca7	7611806	AAAATAAATAAATAAATAAATAAAT AAATAAA/AAAATAAATAAATAAATAAAT AAATAAA	GCAATTGAGCCAAGAG CTTC	TCGATGAGGAAAAAGG GATG	60.0	695	INTRON	Ca_06599	R	--
Ca7_P2_7616478	Ca7	7616478	TACA/TA	TTGTCAAATTTCAACA CAGAGTG	TCACATGTGGCATGAC ATACA	59.4	613	INTERGENIC	--	--	--
Ca7_P2_7616684	Ca7	7616684	GA/GAA	TTGTCAAATTTCAACA CAGAGTG	TCACATGTGGCATGAC ATACA	59.4	613	INTERGENIC	--	--	--
Ca7_P2_7618620	Ca7	7618620	TAAAAA/TAAAAAA	TTGATTGGCCAAAATC TGTT	TACTTCCCTCGCACCA AAAC	60.1	563	INTERGENIC	--	--	--
Ca7_P2_7624345	Ca7	7624345	CTTTTTTTTTTTTT/CTTTTTTTTTTT	GTTGTGATGGAAGCCA TGTG	CAGCTGCTGAGTGCA GAAG	60.1	871	INTRON	Ca_06598	Z	MYB_related
Ca7_P2_7626364	Ca7	7626364	CTTTTT/CTTTTTT	AGTCAGCTGCAACCC AAGT	GGGAAGGTCATGCCAA CTTA	59.9	819	DRR	Ca_06598	Z	MYB_related
Ca7_P2_7629231	Ca7	7629231	AGG/AGGG	GCGCCTGCTGTTAGAT TGTT	AATTCCAATGCCATGCT CTC	60.0	483	DRR	Ca_06597	--	NF-YB
Ca7_P2_7643061	Ca7	7643061	TTA/TTAATATTACATA	ATGCAGTGGCTCACAA GCTA	TCAACACGAACCGCAT TTTA	60.1	487	INTERGENIC	--	--	--
Ca7_P2_7665325	Ca7	7665325	A/ATT	GCCAAATAACGGAAGC AAAG	ACCAATGTCCATGCAC AAGA	60.0	626	INTRON	Ca_06594	R	--
Ca7_P2_7668650	Ca7	7668650	ATTT/ATTTT	CATTTTCATCCAATT TTGAG	CCACTTTCTCATTTTGG TTTGG	58.7	501	DRR	Ca_06594	R	--
Ca7_P2_7671749	Ca7	7671749	AA/AATA	TGCACCATTTATGTGAG GCT	TTCCAATTACATGCA TCC	59.3	571	DRR	Ca_06593	J	MYB_related

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7671837	Ca7	7671837	AAT/AATAT	GCATATGGCTGGATT GGCT	TTCCAAATTCACATGCA TCC	59.3	136	DRR	Ca_06593	J	MYB_related
Ca7_P2_7675462	Ca7	7675462	GAA/GA	CATCACACATCGACCA AAT	TTATGGCTCGCTCTGC TTCT	60.3	533	DRR	Ca_06592	T	HB-other
Ca7_P2_7680506	Ca7	7680506	A/ATGTTAG	TCTTTCTCTTTTGGCCC CTT	CCAAACACTTCAACCA GCA	59.7	505	INTERGENIC	--	--	--
Ca7_P2_7683028	Ca7	7683028	CAA/CAAA	TTCGATAAACCGCTAAT GCAC	GTACTTGGCTGCTTTG GAGC	60.0	847	INTERGENIC	--	--	--
Ca7_P2_7683130	Ca7	7683130	TAA/TAAA	TTCGATAAACCGCTAAT GCAC	GTACTTGGCTGCTTTG GAGC	60.0	847	INTERGENIC	--	--	--
Ca7_P2_7685028	Ca7	7685028	TAAAAA/TAAAA	CTCCGAAAGATGAGT TTGC	TTGAAGCATTGACGT CATC	59.8	625	DRR	Ca_06591	J	--
Ca7_P2_7685125	Ca7	7685125	TTTTGTTT/TTTTGTTTACACTTTGTTT	GGTGGAGCAGGAGACA AGAA	TTGAAGCATTGACGT CATC	59.8	498	DRR	Ca_06591	J	--
Ca7_P2_7688075	Ca7	7688075	TGGG/TGG	TTGTCATGGATGATGGT GCT	CCTCCATGGGTGAAAG TTTG	60.3	664	INTERGENIC	--	--	--
Ca7_P2_7688149	Ca7	7688149	TGGGGG/TGGGGG	TTGTCATGGATGATGGT GCT	CCTCCATGGGTGAAAG TTTG	60.3	664	INTERGENIC	--	--	--
Ca7_P2_7689690	Ca7	7689690	GTTTTTTTTT/GTTTTTTTT	TCAGAAACATCATCAA CGCA	TGGTTTCAAAACAAAA TGCAG	60.0	952	INTERGENIC	--	--	--
Ca7_P2_7692860	Ca7	7692860	T/TA	TGAGAGGTGGAGAAAA AGGG	GGACGGAAGACTCTCT CACAA	59.4	735	INTERGENIC	--	--	--
Ca7_P2_7693341	Ca7	7693341	ATTTTTTTTTTT/ATTTTTTTTT	TTGTGAGAGAGTCTTC GTCC	GCATGAACCTGATAGT GGCA	59.7	548	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7694767	Ca7	7694767	AATAGATAGATA/AATAGATA	TCTCATTGATGACCAA AGG	CACAATCACAAAGTG GACG	60.0	722	INTERGENIC	--	--	--
Ca7_P2_7696549	Ca7	7696549	GCTCTCTCT/GCTCTCTCTCTCT	TCCCCTAAACAAAATG CCA	CATTGGAGGGGTGAA GAGA	60.0	348	INTERGENIC	--	--	--
Ca7_P2_7699295	Ca7	7699295	TTATATATAT/TTAT	CTGCCGGTTTTGGTAC AACT	GGTATCAATGTTTGC TAACGA	59.9	629	DRR	Ca_06589	--	--
Ca7_P2_7701183	Ca7	7701183	TA/TATAA	TTGACGGCGTTTGTGT TTA	GCCTTCAACAAATAGAA TCGG	58.7	542	DRR	Ca_06589	--	--
Ca7_P2_7701525	Ca7	7701525	CA/CAA	GGATTGGTTTACAAACA GAAAAGG	GTAACCCCTCCAACGC TACA	60.0	644	INTERGENIC	--	--	--
Ca7_P2_7701750	Ca7	7701750	CA/CAA	CCGATTCTATTTGTGA AGGC	TAACCCCTCCAACGCT ACAC	60.0	492	INTERGENIC	--	--	--
Ca7_P2_7703445	Ca7	7703445	AA/AATATGGATTAGTAGACA	TCCAAAAGGTTCTTGCA TCC	AACATGGAGAATGAAA CCGC	59.9	641	INTRON	Ca_06588	--	--
Ca7_P2_7706171	Ca7	7706171	T/TGTG	TTTGTGGACTAACTTGC CCC	CCAAAGTGACTTGGG AAAA	59.9	406	DRR	Ca_06587	--	--
Ca7_P2_7706381	Ca7	7706381	AG/AGG	TTGGGTGGGGTGGTAT CTTA	CAGGAACAACCGTTTG GACT	60.0	647	DRR	Ca_06587	--	--
Ca7_P2_7708563	Ca7	7708563	T/TA	TACGCCGGAACACAAT AACA	TGCATTTGCATGTTTG GTT	60.0	152	INTERGENIC	--	--	--
Ca7_P2_7711677	Ca7	7711677	ATTTTTTTTTTT/ATTTTTTTTT	TAAGATCATGAGGCACA CCG	CATTCTTGATGCCATG GTTG	59.9	568	INTERGENIC	--	--	--
Ca7_P2_7719879	Ca7	7719879	GAAAAAA/GAAAAAAA	GATTTTGAGTGCCGTTT GCT	TTGTGTTGTTGCAGGC AAAT	60.2	379	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7799676	Ca7	7799676	TT/TTCT	GTTTGAAGCAAGTGG TGGT	TGAATCTTAGAGGTAC CCAAACC	59.8	556	DRR	Ca_13238	--	--
Ca7_P2_7803725	Ca7	7803725	GATTAC/GATTACATTAC	CTGACTGCGTTGCTGG ATAA	TTGCATTGCTCACTAG CCAC	60.0	371	INTRON	Ca_13237	--	--
Ca7_P2_7846831	Ca7	7846831	ATTTTTTTTTT/ATTTTTTTTT	AATGCAACGGATCGGA TTTA	TTTTATGGATTGGGCC TTCA	60.3	494	INTERGENIC	--	--	--
Ca7_P2_7850670	Ca7	7850670	G/GTTC	TGGTGGATGATATTGA GAAACA	TGGAGCTTGCACTCA TACA	60.7	860	INTERGENIC	--	--	--
Ca7_P2_7850911	Ca7	7850911	CAAAAAAAAAAAAA/CAAAAAAAAA	TCGATGATATTTTGT CGCTT	TGGAGCTTGCACTCA TACA	60.7	440	INTERGENIC	--	--	--
Ca7_P2_7853063	Ca7	7853063	TAAAAA/TAAAA	TTTTTCTCCAAGGAAG CAT	GCTTCTAGCAACTTG GTCACA	59.6	538	INTERGENIC	--	--	--
Ca7_P2_7861513	Ca7	7861513	AT/A	TGTGATAGTTATGCTGA GATGAATGA	CACCTATACAACACCA AGCGA	60.1	687	INTERGENIC	--	--	--
Ca7_P2_7861934	Ca7	7861934	ATTT/ATTTT	TCGCTTGGTGTTGTAT AGGTG	TTCTAATGCTTCGGCAA TCC	60.2	452	INTERGENIC	--	--	--
Ca7_P2_7862158	Ca7	7862158	T/TGTGGACTAATA	TCGCTTGGTGTTGTAT AGGTG	TTCTAATGCTTCGGCAA TCC	60.2	452	INTERGENIC	--	--	--
Ca7_P2_7863471	Ca7	7863471	TTCT/TT	GCGGACTCAACTTCG CTAC	GAAGATCGGAGAAGCA TTCG	59.9	561	INTERGENIC	--	--	--
Ca7_P2_7865286	Ca7	7865286	ATTTTT/ATTTT	ACTTGCGTAACATGCAC CTG	TTCCGTGTTATGATTG CCA	59.9	456	INTRON	Ca_13231	--	bHLH
Ca7_P2_7867326	Ca7	7867326	GTATTG/GTATTGACTATTG	TGATTGTTGGCGGAG AAAT	TTGTCCTGTTCCACCAT CAA	59.9	434	INTRON	Ca_13231	--	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7867524	Ca7	7867524	ATTTT/ATTTT	GCAGCTTCAACTCTCG CTCT	TTGTCCTGTTCCACCAT CAA	59.9	120	INTRON	Ca_13231	--	bHLH
Ca7_P2_7868531	Ca7	7868531	CTTTT/CTTTT	AGCAACGGAGAAGAAG CAAA	AAAAGGACGCTTTGT CCCT	60.1	634	INTRON	Ca_13231	--	bHLH
Ca7_P2_7869297	Ca7	7869297	CATGATGA/CATGATGATGA	CAAAAGAGGGACAAG CGTC	TGAAGGCAGTTGTTGT GCTC	60.0	810	INTRON	Ca_13231	--	bHLH
Ca7_P2_7873047	Ca7	7873047	ACAACCTACATTAGT/A	CGGACCACTTTTGTCTG GTT	GCAATAAGAGAGGCG GATG	59.8	225	DRR	Ca_13230	--	MIKC
Ca7_P2_7875761	Ca7	7875761	ATT/ATTT	CTTTCCACCAAGGATAG GCA	GGCTTCTGCCACTCA TCTC	60.0	820	INTRON	Ca_13230	--	MIKC
Ca7_P2_7877639	Ca7	7877639	TA/TTTCA	TCGTTGCACGTATCATC CAT	GAGTTAAGGGGAAGCG ATCC	60.0	764	INTERGENIC	--	--	--
Ca7_P2_7880271	Ca7	7880271	A/ACTGTTAG	TGGATATTCCACACAGC ATTAAG	TTGGAAGTGTCTCAAC CGA	59.3	727	INTERGENIC	--	--	--
Ca7_P2_7881505	Ca7	7881505	CTTTT/CTTTT	ACCTTCTGGATATGCCA TGC	GAGATGGGATCTCAA CATCA	59.9	189	INTERGENIC	--	--	--
Ca7_P2_7882768	Ca7	7882768	ATTATTTATTTA/ATTATTTATTTATTTA	CATAGAGACAAAAGG GAGAGA	TAGCGACAGAACCGAC ACTG	60.0	650	INTERGENIC	--	--	--
Ca7_P2_7886660	Ca7	7886660	ATTTTTTTTTTT/ATTTTTTTTTTTTTT	TGATGGTGAAAAAGGA CGAA	TGGATGTACAAGACTG CCCA	60.1	720	INTERGENIC	--	--	--
Ca7_P2_7888043	Ca7	7888043	A/AC	TAACTGAGACCCAGGA GGGA	TTCAACACAGCCCATAA CCA	60.0	645	DRR	Ca_13229	--	--
Ca7_P2_7894762	Ca7	7894762	GTTTTTTTTT/GTTTTTTTTT	ATTGAGCGGATGAGTG GTTC	GCATGTAGGGGCATAT GGTT	59.7	312	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7909722	Ca7	7909722	TAA/TA	CATCCCCTTGGCTCTAT GAA	GCCCATGCTCTTCAGT CTTC	60.0	430	INTERGENIC	--	--	--
Ca7_P2_7910040	Ca7	7910040	GAAAA/GAAA	CATCCCCTTGGCTCTAT GAA	TGCCATTATAGGACCT CCG	59.9	607	INTERGENIC	--	--	--
Ca7_P2_7910843	Ca7	7910843	ATA/ATACTTA	AACACACGTTACGCAA CTC	AAGCATGTTTTACCTTT TCACACA	60.0	477	INTERGENIC	--	--	--
Ca7_P2_7912570	Ca7	7912570	T/TGTA	TTGAAGAACTCAATGTT GCCA	ACCGAAGTTGGGCAAT TTTA	59.5	566	INTERGENIC	--	--	--
Ca7_P2_7913930	Ca7	7913930	CTATAATTATAAT/CTATAAT	TTTTTATCACATTTGCC TGTGT	AACAACCCCTCTCAACAT GCC	60.0	785	INTERGENIC	--	--	--
Ca7_P2_7920132	Ca7	7920132	GGAGA/GGAGAGA	AGGGGCTTTGATTATT GGC	TTATGCCATTGGTAGG AGGC	59.9	806	INTERGENIC	--	--	--
Ca7_P2_7923723	Ca7	7923723	T/TTA	AGATTTAGTGTGATCC GGG	AAGCTAAATGGCAAAA GTGG	58.4	746	INTERGENIC	--	--	--
Ca7_P2_7928018	Ca7	7928018	ACT/ACTTCTCT	CCTCTGAATGTGTGGC TTCA	AGCAGCACCAAAAGAA GCAT	60.0	738	DRR	Ca_13226	--	--
Ca7_P2_7931395	Ca7	7931395	C/CA	GTCGTGAGTCAGCCTT CACA	TGTATTCGTCTCCGT GTTTT	59.5	548	INTERGENIC	--	--	--
Ca7_P2_7941081	Ca7	7941081	TAAAAAA/TAAAAAA	TGCTTGTATGCAACCA ATTT	CTGCATGTGATTGGTT CGAG	60.3	494	INTERGENIC	--	--	--
Ca7_P2_7941813	Ca7	7941813	TAAAAAA/TAAAAAA	CTCGAACCAATCACATG CAG	TTTTCTCTGGGCATGT CCTC	60.2	789	DRR	Ca_13223	--	--
Ca7_P2_7942470	Ca7	7942470	TATA/T	GAGGACATGCCAGAG AAAA	TGACAATTCAACGAGG CGTA	60.3	396	DRR	Ca_13223	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_7944429	Ca7	7944429	G/GA	GAGAGTGCCCATTCAGAGC	TTGCGACGTTCAACATAGC	59.9	439	DRR	Ca_13222	K	MIKC
Ca7_P2_7944979	Ca7	7944979	TATGAAATGAAAT/TATGAAAT	ATTTAATGGCTTCACACGC	CGTACTCAACAGAGTTGGATCG	59.8	640	DRR	Ca_13222	K	MIKC
Ca7_P2_7947858	Ca7	7947858	A/AG	AAGCCATCCAAATCCTCTCC	GGGAAATCACAGCACATGA	59.5	472	INTRON	Ca_13222	K	MIKC
Ca7_P2_7948474	Ca7	7948474	TGAACC/T	TCATGTGCTTGTGATTTCCC	TACATGCGCGGTAGTTTCA	60.3	542	INTRON	Ca_13222	K	MIKC
Ca7_P2_7949323	Ca7	7949323	TTT/TTTGAGTAAACAATT	TTAACAAGCTGCCTCTCGT	GCCATGCTAGGAGGAACTG	59.8	525	INTRON	Ca_13222	K	MIKC
Ca7_P2_7949591	Ca7	7949591	ATAGGAAAGTCAGTT/AT	TTAACAAGCTGCCTCTCGT	CAAGAGAAAAAGGCTGTGGC	60.0	909	INTRON	Ca_13222	K	MIKC
Ca7_P2_7950061	Ca7	7950061	CATTGCAATTGCAATTGCA/CATTGCAATTGCAATTGCAATTGCA	GCCACAGCCTTTTCTCTTG	TGCTGAAGTTGCTCTCATCG	60.3	442	INTRON	Ca_13222	K	MIKC
Ca7_P2_7952171	Ca7	7952171	AGGGG/AGGG	TATCCAAATTGCGTCGGATT	ACTCGGATGTCTCAATGCAA	59.2	307	INTERGENIC	--	--	--
Ca7_P2_7954760	Ca7	7954760	AAATAATAATAATAATAAT/AAATAATAATAATAAT	TGCAATTTTGATCTCCCAT	TGGAAAAATCAAGGTGTCCAT	59.3	422	INTERGENIC	--	--	--
Ca7_P2_7958075	Ca7	7958075	CAATGGTAAT/CAATGGTAATGGTAAT	CGAGCATCAAAGGTGAGGAT	ATTGGGAGGATTCTTTGGA	60.6	321	INTERGENIC	--	--	--
Ca7_P2_7961709	Ca7	7961709	CTTAATT/CTT	CAGCCAAGAGACCAACATCA	AACCTTCCTTGTCAACACG	60.0	302	INTERGENIC	--	--	--
Ca7_P2_7962835	Ca7	7962835	A/ATTCT	TGGAATAAACTCTGTGCCCC	CGATGACGACAACATAACGG	60.0	283	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_7962974	Ca7	7962974	AACAGAGTTTGTAG/A	TGGAATAAACTCTGTC CCC	GACGGCGACAAAACA AAAG	60.6	365	INTERGENIC	--	--	--
Ca7_P2_7968566	Ca7	7968566	ACTCTC/ACTC	TTTTCATCATGCTACGC CAC	TCAAAACACGAAGAAG ACCTACC	59.7	379	INTRON	Ca_13221	K	MIKC
Ca7_P2_7972316	Ca7	7972316	AAATTTTTTA/AAATTTTTTAATTTTT TA	TATGCACAGTTTCACGC CTC	ACAAACCTCTGGATGG CAAC	60.0	627	INTERGENIC	--	--	--
Ca7_P2_7974423	Ca7	7974423	CCT/CCTCT	TCCACTCATTTAACTAT TGCGG	TTTGCAACCACTCTTC CTT	59.7	732	INTERGENIC	--	--	--
Ca7_P2_7979664	Ca7	7979664	TTTTG/TTTTGATAAAATTTG	TAAATGAATGCGAGGG GAAG	GAAAGAGCTCCATGA GCAAA	59.6	356	INTERGENIC	--	--	--
Ca7_P2_7982196	Ca7	7982196	GTTTT/GTTT	CACCTCTCTTGAGGC TGAG	CTTGCTCTTTCCCTT CCC	60.0	429	INTRON	Ca_13220	U	--
Ca7_P2_7982558	Ca7	7982558	ACTTCTTCT/ACTTCT	GGGAAGGGGAAAGAGA CAAG	CTGCAGCAGAAACATT TCCA	60.0	502	INTRON	Ca_13220	U	--
Ca7_P2_7991927	Ca7	7991927	AAAAAAATTTCTGAGTGAAAAA/AAAA AAAA	ATTGGGCTTTGAGCAG ATTG	TTCTTTGAAGGGTTG ATGG	59.9	620	INTRON	Ca_13219	T	--
Ca7_P2_7992207	Ca7	7992207	GTTAAT/G	ATTGGGCTTTGAGCAG ATTG	TTCTTTGAAGGGTTG ATGG	59.9	620	INTRON	Ca_13219	T	--
Ca7_P2_7994504	Ca7	7994504	CTATA/CTA	CCCACAAAACCTCCATG CTT	TTTATGGCACGCTTCTT GTG	59.9	444	DRR	Ca_13219	T	--
Ca7_P2_7995291	Ca7	7995291	TA/T	CGGTCCACAGGTGGAG TATC	TCATTGACCAATTTCC GGT	60.2	537	DRR	Ca_13219	T	--
Ca7_P2_8010935	Ca7	8010935	TAAAAA/TAAAAA	AGGCCACAAATGCAGC TTAG	CAAGTCAGCTTTTCCA GGC	60.0	586	DRR	Ca_13217	R	NF-YA

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8013486	Ca7	8013486	TTTTAAAGTTTTGTTTAAAGTTTTGT/TTTAAAGTTTTGT	TCAAATGAGGCTCGTGTGC	AATTTGTTTCGCACCA TCA	59.0	473	DRR	Ca_13216	--	TCP
Ca7_P2_8016813	Ca7	8016813	TAATAAATAAATAAATAAAT/TAATAAATAAATAAATAAAT	TGACCTCTGCAACCTTT TCC	GGTGGACGTGCTACTT GTGA	59.8	200	INTERGENIC	--	--	--
Ca7_P2_8017176	Ca7	8017176	ATTTTTTTTT/ATTTTTTTTTTTTT	ACGTCCACCATTTTGT AGC	GACCAACTCGGTCTCG TTTT	59.2	607	INTERGENIC	--	--	--
Ca7_P2_8017901	Ca7	8017901	CT/CTCTAATAT	AGGTTAACCCGAACCC AATC	TGAGACATGCTTTTG AGGA	59.4	385	INTERGENIC	--	--	--
Ca7_P2_8019654	Ca7	8019654	C/CTTAGTAGAG	TATGTGCACGCAGCTTT TTC	CCCCCTCCCCCTATAC ATTA	59.9	530	INTERGENIC	--	--	--
Ca7_P2_8019951	Ca7	8019951	ACTACAT/ACTACATAGTCTACAT	TAATGTATAGGGGGAG GGGG	CTGTCGTACACATCT TGCT	58.9	305	INTERGENIC	--	--	--
Ca7_P2_8020323	Ca7	8020323	C/CA	TAATGTATAGGGGGAG GGGG	ACTTTAATTGCGACCCA ACG	60.0	568	INTERGENIC	--	--	--
Ca7_P2_8021146	Ca7	8021146	CAAAA/CAAAAA	TTTGACGCATGCTAAG AATA	TCGATGGGTTCAATCC AAAT	60.1	645	INTERGENIC	--	--	--
Ca7_P2_8022564	Ca7	8022564	GTAT/GTATATTAT	ACGGTGAAGTCTCACA GTTGA	TCTCTCGTGGTTCCTC TTCC	59.4	558	INTERGENIC	--	--	--
Ca7_P2_8023022	Ca7	8023022	TA/TATAA	GGAACCGAGAGAAG GAGA	GGGTGAGATCTTGCGAG TGGT	60.1	468	INTERGENIC	--	--	--
Ca7_P2_8028755	Ca7	8028755	CTT/CTTT	TCAAAGGTTTCTCCCA CAC	GGTGGCTTCTTGTTGG TGTT	60.0	608	DRR	Ca_13215	--	--
Ca7_P2_8028807	Ca7	8028807	AT/ATT	TCAAAGGTTTCTCCCA CAC	GGTGGCTTCTTGTTGG TGTT	60.0	608	DRR	Ca_13215	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8032032	Ca7	8032032	GAAAAAAAA/GAAAAAAAA	CAAGAAATTCGATCAG TCCA	CACAACACACGATGAC TCCC	60.0	639	INTERGENIC	--	--	--
Ca7_P2_8033365	Ca7	8033365	TAGTTA/TAGTTAAGTTA	CCTTCCACTGCTCCTAG TGC	CATGTTGCTTGAAATG GGTG	60.0	801	INTRON	Ca_13214	T	--
Ca7_P2_8039554	Ca7	8039554	ATTTT/ATTT	TGAGGGAGAGAACTTA ACGCA	TGCAAAATTTGAGGGA GTGA	59.2	535	DRR	Ca_13214	T	--
Ca7_P2_8050091	Ca7	8050091	TGAAAAA/T	CCGATGTTCTGACTGC AAGA	CCACTTTTGGGAGTGG AAAA	59.9	659	DRR	Ca_13213	C	--
Ca7_P2_8058641	Ca7	8058641	ATT/AT	CCCTCCATCTCTTAATC AATGTC	AAACACACATAGCAAT GTTGTCA	59.5	932	INTERGENIC	--	--	--
Ca7_P2_8058854	Ca7	8058854	CAAA/CAAAAA	AAAACGGATAGTTTGGT AAAATGC	AAACACACATAGCAAT GTTGTCA	59.5	744	INTERGENIC	--	--	--
Ca7_P2_8059804	Ca7	8059804	ACTTCTTCT/ACTTCT	AAATGGCCACATCTCT GTC	GTTTGCCTTTTTCCAT CAT	60.1	443	DRR	Ca_13209	L	--
Ca7_P2_8061944	Ca7	8061944	ATTTT/ATTT	GCAGGCTGCTCAAAGT AACC	ATTGGGGAGCGAGAAG GTAT	59.9	236	INTRON	Ca_13209	L	--
Ca7_P2_8067908	Ca7	8067908	CAAAAAAAAA/CAAAAAAAAA	CCATTTGTTTGTTCGAG GTG	GTAACAGAAGCAAAAG CCGC	60.0	395	DRR	Ca_13208	--	--
Ca7_P2_8067976	Ca7	8067976	AGTG/AG	CCATTTGTTTGTTCGAG GTG	GTAACAGAAGCAAAAG CCGC	60.0	395	DRR	Ca_13208	--	--
Ca7_P2_8073500	Ca7	8073500	CAAA/CAAAAA	AGACGCCAAAGAACCA AAGA	CAGCCCCCTTTATTTTC CAT	60.1	841	DRR	Ca_13207	T	--
Ca7_P2_8077364	Ca7	8077364	CTATATATATAT/CTATATATATATAT	AAGGTGCGCATTATTAT CGAG	CGTACTTTGACCAGC GAAT	60.1	602	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8077814	Ca7	8077814	AAATAATAA/AAATAACAATAATAA	ATTCGCTGGTCCAAAGT ACG	AATCTAGTGACAAATT GATAGGTAA	57.6	544	INTERGENIC	--	--	--
Ca7_P2_8077840	Ca7	8077840	AATTATTATTATTA/AATTATTATTAT TA	ATTCGCTGGTCCAAAGT ACG	AATCTAGTGACAAATT GATAGGTAA	57.6	544	INTERGENIC	--	--	--
Ca7_P2_8080310	Ca7	8080310	GTTTTTTT/GTTTTTTT	GGACTTGCGAACCTCA TGTT	TTCCGTTGTTCTGTCT TTTC	60.1	309	INTERGENIC	--	--	--
Ca7_P2_8082220	Ca7	8082220	TC/T	CGATTCAATCTTGATTC CGT	CGTGCAATTTTCTCTAT TGGT	59.0	491	INTERGENIC	--	--	--
Ca7_P2_8088239	Ca7	8088239	TACACACACACATAACACACACAC ACACACACA	TCATTGGGATGCATCTT TGA	ATCATCAAATTCGTGC GACA	60.1	518	INTERGENIC	--	--	--
Ca7_P2_8093578	Ca7	8093578	CTTTT/CTTTT	GGCCACAACAAGTTGA AGGT	GCTTGTCAAAAAGTGC GTCA	60.0	401	INTRON	Ca_13206	L	NAC
Ca7_P2_8107726	Ca7	8107726	ATTTTTTTTT/ATTTTTTTTT	AGGGGGCTCTAGGGGT TTAT	CCTGGTTTTGTTTTCTG GGT	58.9	838	INTERGENIC	--	--	--
Ca7_P2_8107965	Ca7	8107965	G/GTT	CACAAAATTTTAGGGG GCCT	AGAAAGGGGGATCAAG GAAA	59.9	679	INTERGENIC	--	--	--
Ca7_P2_8109126	Ca7	8109126	G/GTC	ATCAATGCGCGAGTGT TGTA	AGTGGCTATTTGCACC ATCC	60.0	410	INTERGENIC	--	--	--
Ca7_P2_8132422	Ca7	8132422	TTT/TTTTTAATT	CGGTTGAACCAAGTAG ACCC	GCCCATCCTTGCAATA AAAA	59.9	642	INTERGENIC	--	--	--
Ca7_P2_8147209	Ca7	8147209	TATTTCAAATTT/TATTT	AAAACCTTCGAAAAAGA TGAAA	CCACTGCTGCATGGTA AAAA	59.7	749	INTERGENIC	--	--	--
Ca7_P2_8147843	Ca7	8147843	CT/C	ATGTACCGACTCTTCGG CTG	GTTGTGGGATGAATTG ACCA	59.2	752	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8158726	Ca7	8158726	ATTATTTTATT/ATTATTTTATTTTAT T	TTCGACCACTACTGCCA TCA	TTTCTCCTCCGTTTCATG AGG	60.2	677	INTERGENIC	--	--	--
Ca7_P2_8160532	Ca7	8160532	TC/T	TCCCTCCTTCCCCCTAT CTA	GTGGATCATTACCATG GCCT	59.6	443	INTERGENIC	--	--	--
Ca7_P2_8160639	Ca7	8160639	CATAT/CATATAT	TCCCTCCTTCCCCCTAT CTA	GTGGATCATTACCATG GCCT	59.6	443	INTERGENIC	--	--	--
Ca7_P2_8163179	Ca7	8163179	CAA/CAAA	ATAAGGGTCCAATCCC CAAC	AGTACAACAACCCAG CGAC	60.0	718	DRR	Ca_13198	--	ERF
Ca7_P2_8166903	Ca7	8166903	CAAAAAAAAA/CAAAAAAAAA	ACTCTAGGCAAAACGG CAGA	AAACGCACCTTGTTTC CAAC	60.0	645	INTRON	Ca_13198	--	ERF
Ca7_P2_8168245	Ca7	8168245	TCC/TCCC	GAAAGAGAGATGGTGG GTGC	ATCCTTCAGCAACGAT CCAC	60.1	568	DRR	Ca_13197	S	--
Ca7_P2_8172353	Ca7	8172353	TTAAT/TTAATTTTTTTTAGAATAAT	CAGCGAAAGTGTCTGT TTCA	CCAACATTCATCAGAT TGATTTC	59.7	728	DRR	Ca_13196	Q	B3
Ca7_P2_8175031	Ca7	8175031	ATTTA/ATTTAGTCAGTTTTTA	AGTTCAGCAATTGCCCA TTC	CAATTTGGCAAGTTCA GGGT	60.0	768	INTRON	Ca_13196	Q	B3
Ca7_P2_8176504	Ca7	8176504	ATAGAG/A	CTTGAGCAGGGGCTAA TCTG	TCAAACTCAAGACACCA TGTC	60.0	510	INTRON	Ca_13196	Q	B3
Ca7_P2_8179719	Ca7	8179719	T/TA	ATTACGTCCACAAAGCC CAG	CACATGCGTACCACCC ATAC	59.7	966	INTERGENIC	--	--	--
Ca7_P2_8180370	Ca7	8180370	GGGGAGGG/GGGG	TGGCCACCGAATTTCTA ATC	GACCCCAACATTGGTC ACAT	60.5	105	INTERGENIC	--	--	--
Ca7_P2_8182523	Ca7	8182523	ATTTTTT/ATTTTTTTT	CACGTCTATGAAGCCC CACT	TTGTAGCACCCATCAC CAAA	60.0	430	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8247716	Ca7	8247716	TTATTTTTTTTCCT/TT	AGTACACGTGCTCCAT CCC	GAAGCAAAGCAAAGCA AAGG	60.1	574	INTERGENIC	--	--	--
Ca7_P2_8250120	Ca7	8250120	TATATTGATTTG/TATATTGATTTGAT ATTG	GCAGCTGGTGTGTTT CTGA	TGCAAGAACTGAAGTG GGTG	59.9	546	DRR	Ca_13190	R	C2H2
Ca7_P2_8252336	Ca7	8252336	CTCAT/CT	CACGTCCAATTCAAAGT CACA	TGGTGTTTTGGAGGAG TTGA	59.1	414	INTERGENIC	--	--	--
Ca7_P2_8254602	Ca7	8254602	GAAAAAAAA/GAAAAAAAAA	TGAACGTCTTCATCCCA TTTC	ACTTGTCATCCAAAG GTGC	60.0	566	INTERGENIC	--	--	--
Ca7_P2_8255242	Ca7	8255242	CTTTTTTTTT/CTTTTTTTTT	GCACCTTGGATGGAC AAGT	TGCATGGTCATTAAAC CCAA	59.8	601	INTRON	Ca_13189	--	--
Ca7_P2_8255613	Ca7	8255613	GAAAAAA/GAAAAAA	TCCAGGTTTCGAATTG CTT	GCCGCAACAACATAAA CACA	59.8	522	INTRON	Ca_13189	--	--
Ca7_P2_8257026	Ca7	8257026	AAGAG/AAGAGAG	CCAAGAAAATCCAGGA CGAA	AGGAATAGGGAGCCAA AGGA	60.0	701	INTRON	Ca_13189	--	--
Ca7_P2_8260724	Ca7	8260724	AGG/AG	ATTCAACCCACCAATT GAA	CTGCACTGCATGGATC AACT	59.9	774	INTRON	Ca_13188	R	--
Ca7_P2_8262025	Ca7	8262025	CTATAATTTTATAATTTTATA/CTATAATT TTATA	AACATCGTGGGAACCT TCTG	GACCAACACATGTGG AGAT	58.2	836	INTERGENIC	--	--	--
Ca7_P2_8267556	Ca7	8267556	AGGGG/AGGGGG	AACGTTAATCCAAATCC CCC	CACAGCAAAGTTGCAA CCAC	60.3	538	DRR	Ca_13186	--	--
Ca7_P2_8269670	Ca7	8269670	CAAAAA/CAAAA	AGAAACATAACGACCG CCAC	AGTGGTAAAGGCATTG GTGC	60.0	635	INTRON	Ca_13186	--	--
Ca7_P2_8276031	Ca7	8276031	CACAAAAACAAAAACAAAAACA/CA CAAAAAACAAAAACA	TCTCTTGCTTGCCTTTG TGA	AAGAACGCGCATAGTT TGAA	58.6	676	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8277265	Ca7	8277265	ATATTATTT/ATATTATTTATTATT	AAGCACAAAAGGGAT GTGC	AAGCAGAGGGAAGGAA GTGA	59.0	467	INTERGENIC	--	--	--
Ca7_P2_8278256	Ca7	8278256	ATTTTGTTTTGTGTTG/ATTTTGTTTTG	CCTTCGCTCTTGTG GATA	CATGACGAAACCACAA ATGC	60.0	203	INTERGENIC	--	--	--
Ca7_P2_8300185	Ca7	8300185	ACCTCTCCTCTC/ACCTCTC	TGAGTTTGTTCGTTCC TTG	TGGAACGGAACCAAT TTTT	59.3	308	INTERGENIC	--	--	--
Ca7_P2_8303689	Ca7	8303689	CTTTTTTTTT/CTTTTTTTTT	TTTTGGACCACTTTGCT GTG	ACGAGGCTTGTGACCT CATT	59.7	326	DRR	Ca_13182	--	FAR1
Ca7_P2_8304154	Ca7	8304154	TC/T	ATGAGGTCAACGCCT CGTT	GGCAAAATATTGGGCC TGTT	61.0	526	DRR	Ca_13182	--	FAR1
Ca7_P2_8308986	Ca7	8308986	ATTT/ATTTT	GAGGGGCAGACAAAT TGAA	TGTTGTGCGCATAAAAT GGT	60.0	376	INTERGENIC	--	--	--
Ca7_P2_8309720	Ca7	8309720	GTAATAAAATTTAATAAAATTAATA/GT AATAAAATTAATA	TTGAACGAATCACATAC GGG	GGATGTTGACCGCAAT TTTT	59.8	780	INTERGENIC	--	--	--
Ca7_P2_8310630	Ca7	8310630	ATTTTT/ATTTTTTTTT	TTGGTGGTGGAAGTG ACAA	TGAACCCACACAACAC AAGG	60.5	562	DRR	Ca_13181	--	--
Ca7_P2_8311161	Ca7	8311161	AT/ATGT	CCTTGTTGTGGGTG TTCA	TCATCCCCGAAACTA CACC	59.8	670	DRR	Ca_13181	--	--
Ca7_P2_8311335	Ca7	8311335	CTTTT/CTTTT	CCTTGTTGTGGGTG TTCA	TCATCCCCGAAACTA CACC	59.8	670	DRR	Ca_13181	--	--
Ca7_P2_8312295	Ca7	8312295	TAAAA/TAAAA	TAGACAAACTGGTGG CCCT	AGAATTAGGAGACACC GCGA	59.8	285	DRR	Ca_13181	--	--
Ca7_P2_8315825	Ca7	8315825	CAATCATT/CAATCATTACTAATCATT T	GCCATATCACCTTTGAT CAAGTC	TGCCATGACACAAACA ACAC	59.0	142	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8316679	Ca7	8316679	GAATCTT/GAATCTTGAATTTATAAAATC TT	CTGACACACACTCGCC TCAT	TCCAAAGTGTAACCG CAAA	59.2	614	INTRON	Ca_13180	--	--
Ca7_P2_8344186	Ca7	8344186	ATAATAATTAATAAT/ATAATAAT	TGCATGCTTTCAGCTGA CTC	TGCCAACAGAACAAGG TTCA	60.3	855	DRR	Ca_13175	J	MYB_related
Ca7_P2_8346071	Ca7	8346071	AC/A	ACCAACAACATCCGGAA CAT	TCAGCATTGCACCTAA GCAC	60.0	857	INTERGENIC	--	--	--
Ca7_P2_8346482	Ca7	8346482	AAG/AAGAG	CGTTCATTTTAATTGGA ATCCATC	TCAGCATTGCACCTAA GCAC	60.0	517	INTERGENIC	--	--	--
Ca7_P2_8347601	Ca7	8347601	AAT/AATTATGAT	TCAAGAACAATAATAA GGACTGC	AAAAGTGCATTGAAGA CGAAAA	58.9	165	INTERGENIC	--	--	--
Ca7_P2_8359596	Ca7	8359596	TAAA/TAAAA	TGGGCAGGCACCTCTA TCTA	AATCAGCACGCTTGAT ACCC	60.1	227	INTERGENIC	--	--	--
Ca7_P2_8362122	Ca7	8362122	GATTTATTTATTT/GATTTATTT	CATAGTGGGCTTTCT GCAT	TGACACAAATGGGCC TAGTA	60.4	363	INTERGENIC	--	--	--
Ca7_P2_8362625	Ca7	8362625	GTATTTTATTTTATTTT/GTATTTTAT TTTTATTTTATTTTATTTT	ACTAGGGCCCATTTGT GTCA	AAAGGGACATGCTTTC TCCA	59.7	749	INTERGENIC	--	--	--
Ca7_P2_8363466	Ca7	8363466	CCTTT/CTTTCTTT	GCAACCACAGACACAG AACG	TCAAATGTGGTGTAGG GGGT	60.1	599	INTERGENIC	--	--	--
Ca7_P2_8363894	Ca7	8363894	AC/A	TCAACCCCTACACCAC ATT	CGCCAACTGACTCCTT TTTC	59.9	382	INTERGENIC	--	--	--
Ca7_P2_8364208	Ca7	8364208	TGAGGAGGAGGAG/TGAGGAGGAG	TCAACCCCTACACCAC ATT	TGCATCGGCACATCTA CTTC	59.8	453	INTERGENIC	--	--	--
Ca7_P2_8366630	Ca7	8366630	G/GTAT	AAGCAGTGATCCAACCT CTCA	TGGAAATTATAACCGA TTAAGGTG	59.6	210	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8367160	Ca7	8367160	TAAAA/TAAAAA	CACCTTAATCGGTTTAT AATTCCA	AAGACCTTGATTGAC GGTG	60.0	808	INTERGENIC	--	--	--
Ca7_P2_8367359	Ca7	8367359	CTTTT/CT	TGAAATCAAAGTAGTTC GAATGG	TAGCACGAGCATTTCG ATTG	60.0	540	INTERGENIC	--	--	--
Ca7_P2_8367679	Ca7	8367679	TAAAAA/TAAAAA	CCTCAACTTTGTCACCG TCA	TAGCACGAGCATTTCG ATTG	60.0	355	INTERGENIC	--	--	--
Ca7_P2_8367757	Ca7	8367757	T/TG	CCTCAACTTTGTCACCG TCA	TAGCACGAGCATTTCG ATTG	60.0	355	INTERGENIC	--	--	--
Ca7_P2_8384302	Ca7	8384302	CTAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA	AAGAAATGCAGGCAAT CACC	AAAAGGCTTCGCGTGA GTTA	60.0	386	INTRON	Ca_13172	--	--
Ca7_P2_8390488	Ca7	8390488	CTAT/CTATAT	ACCGTGACGAAGAAGG AATG	AAACCCAAATGTATGA CACTTGA	59.7	690	INTERGENIC	--	--	--
Ca7_P2_8390781	Ca7	8390781	ATTTTTTT/ATTTTTTTTT	TGCGATGTCCAATTGA GTCT	AAAACCATTTCTCTCGC CCT	60.1	806	INTERGENIC	--	--	--
Ca7_P2_8393653	Ca7	8393653	AG/A	AAACTTCGATTTGGGCT TCA	CCCTCATCCAAAAGGT CAAA	59.9	613	INTERGENIC	--	--	--
Ca7_P2_8405079	Ca7	8405079	ATTTTT/ATTTT	GCGGTTTTTGTGTTG GAGT	TCITTTGGTCAATACCA GCC	59.9	780	INTERGENIC	--	--	--
Ca7_P2_8409838	Ca7	8409838	CGGG/CGGGG	TGCAGCCTTTTACCTT CTT	CGGTGCACAACCTTATC TTGC	59.3	122	INTERGENIC	--	--	--
Ca7_P2_8412161	Ca7	8412161	C/CT	TTGGTGCAATGTTTACA GAAA	AATTAGGGGCCAGAAT AGCC	59.4	774	DRR	Ca_13166	R	Nin-like
Ca7_P2_8412207	Ca7	8412207	TCATATA/T	TTGGTGCAATGTTTACA GAAA	AATTAGGGGCCAGAAT AGCC	59.4	774	DRR	Ca_13166	R	Nin-like

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8428862	Ca7	8428862	GAA/GAAA	GTTTGTTCGTGATTGG GCT	GCGACTAACTCTAATCA CCCG	58.9	461	INTERGENIC	--	--	--
Ca7_P2_8431878	Ca7	8431878	GATCAAT/GATCAATCAAT	CTGACACGCGTAGTGT TCAAA	GCATTGAAGAATGAGG AGGC	59.8	698	INTERGENIC	--	--	--
Ca7_P2_8432670	Ca7	8432670	ATTTT/ATTAACTTTT	GCCTCCTCATTCTTCAA TGC	TTCCGCCACAACACTCA ATCA	59.3	592	INTERGENIC	--	--	--
Ca7_P2_8437623	Ca7	8437623	CT/CTTT	TTTGACTACTGCGTGG CAG	ATGTTGCCTGGGTTC TATC	60.0	534	DRR	Ca_13163	O	TCP
Ca7_P2_8438066	Ca7	8438066	T/TC	TGCATATCACAGCAGAA GCC	ACATCGTGATGCAATG GAAA	59.9	580	DRR	Ca_13162	G	MYB
Ca7_P2_8438347	Ca7	8438347	AGGGG/AGGGGG	GATAGCAACCCAGGCA ACAT	ACATCGTGATGCAATG GAAA	59.9	510	DRR	Ca_13163	O	TCP
Ca7_P2_8439454	Ca7	8439454	TGG/TG	CTCCACGCACAATCTTC TCA	GTCCTTGATGGTGAGC CATT	59.9	923	INTRON	Ca_13162	G	MYB
Ca7_P2_8440281	Ca7	8440281	T/TG	TTTAGCTCCCAGGCTTT TCA	CATCAAAGCAGGAGCT GACA	60.1	608	INTRON	Ca_13162	G	MYB
Ca7_P2_8441961	Ca7	8441961	CAAAAAA/CAAAAAAA	TTGGCGATTCTGTGGT GTA	TTTGAAGCACAAAGATG GCTG	60.0	597	INTRON	Ca_13162	G	MYB
Ca7_P2_8442048	Ca7	8442048	GGTTA/GGTTATTAGTGAGTTA	TTGGCGATTCTGTGGT GTA	TTTGAAGCACAAAGATG GCTG	60.0	597	INTRON	Ca_13162	G	MYB
Ca7_P2_8443648	Ca7	8443648	TAAAA/TAAAAA	CAACTTGTGTCTTAACA ACTCAAAGA	TTCAACCGAAAACCTC AAAC	59.9	490	INTERGENIC	--	--	--
Ca7_P2_8444848	Ca7	8444848	TATAAAAAATAAAATAAATAA AA	CCCTCCATAGCTCTGT GCAT	CCAATTTGTCTGACCA ATCA	58.5	719	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8445112	Ca7	8445112	GTTTTTT/GTTTTTTTT	GCATGCCATTGGTTAA GTTT	GGACTAAAACGTTGCC TGAAA	59.3	443	INTERGENIC	--	--	--
Ca7_P2_8445186	Ca7	8445186	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GCATGCCATTGGTTAA GTTT	GGACTAAAACGTTGCC TGAAA	59.3	443	INTERGENIC	--	--	--
Ca7_P2_8448100	Ca7	8448100	CAA/CAAA	TCCAAAGGATCAATCAC TTGAC	CGTGACAACATTAACA CGCC	60.0	663	INTERGENIC	--	--	--
Ca7_P2_8455718	Ca7	8455718	CTTT/CTTTT	TATGGTTCAATTCAAGC CCC	CGTGTCAATTCATGCT TGG	60.1	601	INTERGENIC	--	--	--
Ca7_P2_8459634	Ca7	8459634	TGAGAGATGAGA	GTTGGACGGTCTCTTT GGAA	GGTAATTGTGGGGGTG TGTC	60.0	777	INTERGENIC	--	--	--
Ca7_P2_8462194	Ca7	8462194	ATTTTTTTTT/ATTTTTTTTTT	ATTGCGACTGGTCCTA CCTG	CACATATGCGTTTCATA AGCGT	60.0	533	DRR	Ca_13160	--	NAC
Ca7_P2_8466786	Ca7	8466786	TAA/TAATAAA	GTTTTTATTGCAACCCG TGG	CTATCCTTCGCCGACA ACAT	60.1	186	INTERGENIC	--	--	--
Ca7_P2_8467239	Ca7	8467239	GC/G	ATGTTGTCGGCGAAGG ATAG	TCCGTCCTAAATTGTAT GCCA	60.3	918	INTERGENIC	--	--	--
Ca7_P2_8467863	Ca7	8467863	TA/TAAA	TGGCATACAATTAGGA CGGA	TTTTGATCGTTCGCAC GTAG	59.9	217	INTERGENIC	--	--	--
Ca7_P2_8470434	Ca7	8470434	CTATTTATTTATTTAT/CTATTTATTTAT TTATTTATTTAT	CTCCAACGAAGAGCGA AATC	CCAATGAAATACCTCC GCAT	59.8	423	INTERGENIC	--	--	--
Ca7_P2_8473020	Ca7	8473020	ATTTTTTTT/ATTTTTTT	CATCTTTGGTGCACGC ATTA	TGTTGTACCACAACCTC GACAA	59.1	753	INTERGENIC	--	--	--
Ca7_P2_8473510	Ca7	8473510	CATTATTTCTTGTGTA/CATTATTTCT TGTGTATTTCTTGTGTA	CGAAGTTGTGGTACAA CACATGA	CCCACCACAACATAGA CCCT	59.7	409	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8476330	Ca7	8476330	GAA/GAAA	GCAAAATCACAAAGCTC TCG	GAGCTTGGGAATGAAA TCCA	60.0	270	INTERGENIC	--	--	--
Ca7_P2_8476416	Ca7	8476416	TC/TCC	GCCAATGAAGATGAGA AGCAG	GAGCTTGGGAATGAAA TCCA	60.0	232	INTERGENIC	--	--	--
Ca7_P2_8477670	Ca7	8477670	GA/GAA	CATCAGTTGCTTTTGA GCA	CGATTGTGCGATGGGA ATCT	59.9	624	INTERGENIC	--	--	--
Ca7_P2_8487873	Ca7	8487873	CTTTT/CTTTTCTCTATCTTATTTT	ACCCAACCGTTCTCCTC TTT	ACAGTTTCCAGCGTG CTTT	59.9	366	INTRON	Ca_13158	--	--
Ca7_P2_8487939	Ca7	8487939	CTTTTT/CTTTTT	GCTGAGAAGGTCAAAG GACG	GCTCAACAGCTTGTGT CCAA	60.0	653	INTRON	Ca_13158	--	--
Ca7_P2_8488129	Ca7	8488129	TAAAAAAAAAAAAA/TAAAAAAAAA	GCTGAGAAGGTCAAAG GACG	GCTCAACAGCTTGTGT CCAA	60.0	653	INTRON	Ca_13158	--	--
Ca7_P2_8488880	Ca7	8488880	ATTT/ATT	TCCTAGTTCAGCGTG GTTT	CCATCGCTTTCITGTG GTT	60.1	501	DRR	Ca_13157	--	Dof
Ca7_P2_8489630	Ca7	8489630	TACACACAC/TACACACAC	CAACAAGGTCGAGTTT GGGT	ACATTGCTATGCGAGT GTGC	59.9	438	DRR	Ca_13158	--	--
Ca7_P2_8492749	Ca7	8492749	TAA/TA	GACTCTGCGGGAGA TTTG	TTCCGGCTGATGATCT TTTC	60.2	690	INTERGENIC	--	--	--
Ca7_P2_8492888	Ca7	8492888	TAAA/TAA	TACCGTGATCCTTTT TCC	TTCCGGCTGATGATCT TTTC	60.2	455	INTERGENIC	--	--	--
Ca7_P2_8494446	Ca7	8494446	AAGAGAGA/AAGAGAGAGA	AAACAGTTTACGTGAAC CATGC	TGATGCATTCAACACAT TGAAAC	60.8	214	INTERGENIC	--	--	--
Ca7_P2_8522491	Ca7	8522491	CAA/CAA	GGATTCGTTTTCCCA AAT	TTCGCAACTCCTCTT CCT	60.0	343	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8526481	Ca7	8526481	TATCTGTAA/T	GCGCAGACTCGTAGAA ACCT	ACTGCACAAATGGATT GCAC	59.6	424	INTERGENIC	--	--	--
Ca7_P2_8528563	Ca7	8528563	ATTTTTTTTT/ATTTTTTTT	CACTTTTGTAGCCCGTC CAT	CACAGGTTGTTTGGT TTGTG	59.0	702	DRR	Ca_13150	--	--
Ca7_P2_8529147	Ca7	8529147	TAAAAAA/TAAAAAAA	CACAAACCAAAACAACG TGTG	AATGAGTCATCCCTTT GCG	60.1	459	DRR	Ca_13150	--	--
Ca7_P2_8529891	Ca7	8529891	TATAAA/TA	CATGAATTCAGGATTTT CCCA	TTCCCAACCCCAATTTG TTA	60.0	489	DRR	Ca_13150	--	--
Ca7_P2_8531596	Ca7	8531596	GTATGATAGATA/GTA	GCCTCCCCTCTCATACA TCA	ATCAGAAGCGGACCAG AGAA	60.0	687	INTRON	Ca_13150	--	--
Ca7_P2_8532027	Ca7	8532027	C/CGT	CATCTTCCCCATCCTCT TCA	TTTTGTACGGGATTTAG GCG	60.0	385	INTERGENIC	--	--	--
Ca7_P2_8561057	Ca7	8561057	TAAA/TAA	TGTTTGATGAATTTGAT GTTGTTG	TGGTGTTAAATTTAGGA TTAGCATGA	60.1	475	INTERGENIC	--	--	--
Ca7_P2_8578824	Ca7	8578824	AT/ATTTAATTT	GAGTGGTGTGGAGTC GATG	ATTTTGCATGGGGTG TTGT	60.1	566	INTERGENIC	--	--	--
Ca7_P2_85847	Ca7	85847	CTATTATTATTATTATTATTATT ATTATTATTATTATTATT/CTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATT	TCTTTCGCAAAATCCAA TCA	AACGTTGTAGCCGCA AAGT	59.8	900	INTERGENIC	--	--	--
Ca7_P2_8585264	Ca7	8585264	TG/T	TCAATCGCATTCCACGA TAA	TCCATGTTTATGAAATG CTCTCC	60.3	723	DRR	Ca_15359	K	--
Ca7_P2_8585295	Ca7	8585295	TATTAT/TATTATGATTAT	TCAATCGCATTCCACGA TAA	TCCATGTTTATGAAATG CTCTCC	60.3	723	DRR	Ca_15359	K	--
Ca7_P2_8593374	Ca7	8593374	TT/TTCT	TTTGACGAGTGGCCTT CTCT	CCGACCAACGAAAAG GTTA	60.0	678	DRR	Ca_15358	L	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8597223	Ca7	8597223	CTG/CTGTG	AGTGACAAGCGGTGGA AATC	GGTAGGACCAAGAACA CAACC	58.4	931	INTERGENIC	--	--	--
Ca7_P2_8600251	Ca7	8600251	T/TCTC	ATGACAGCAACCACCA ACA	ATGCATGTTTGGTCCC ACTT	60.2	210	INTERGENIC	--	--	--
Ca7_P2_8601211	Ca7	8601211	TC/T	AGCGGTTTTTGCAGAG GATA	CACCTCACACTAACC CTCA	58.6	769	INTERGENIC	--	--	--
Ca7_P2_8604048	Ca7	8604048	GAT/GATAT	TGGCATCACATGAAAA GGA	TGTGGACGGATTCATG AGAA	60.0	542	INTERGENIC	--	--	--
Ca7_P2_8611611	Ca7	8611611	GTTTTTTTTT/GTTTTTTTTTTTTT	CCCTGAAGAAGGGCAA CATA	CTTTTCAGCTCATGTGA CCAA	58.9	616	INTERGENIC	--	--	--
Ca7_P2_8611705	Ca7	8611705	TAAA/TAAAA	CCCTGAAGAAGGGCAA CATA	TCAGAGAGAAACAAGCA GCCA	59.9	745	INTERGENIC	--	--	--
Ca7_P2_8615678	Ca7	8615678	ACCTCCT/ACCT	GCGGTTTCAACAAGTG GATT	AATAAAAGCAGGCAGC CAAA	59.9	623	DRR	Ca_15357	--	TCP
Ca7_P2_8619457	Ca7	8619457	AAAG/AAAGAAG	CGATTCACAATTTGTG TCCA	TTCTGCCCAAAATATAG CCG	60.1	569	INTERGENIC	--	--	--
Ca7_P2_8619938	Ca7	8619938	TAG/TAGAG	TTCCATGGTTTTCTCCC AAG	TCTAATAAATGGCAACG GGC	59.9	218	INTERGENIC	--	--	--
Ca7_P2_8620733	Ca7	8620733	AG/A	AAGCCAACCCAACATG AAC	ACCGACATTACATGTG GCAA	59.8	708	INTERGENIC	--	--	--
Ca7_P2_8620884	Ca7	8620884	TACACA/TACACACA	CTAACGGTTGCCTTTG ACG	ACCGACATTACATGTG GCAA	59.8	546	INTERGENIC	--	--	--
Ca7_P2_8623993	Ca7	8623993	CAA/CAAA	TTGGATTGATGCAACG TGT	TTGAACAGAAAAGCGT GTGG	59.9	530	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8624248	Ca7	8624248	CCATAA/CCATAACAACATAA	ATTATGATGAGCGG GTTC	CGTAACCTTCCAATG TTGA	58.8	781	INTERGENIC	--	--	--
Ca7_P2_8624844	Ca7	8624844	CAAAAAAAAA/CAAAAAAAAAA	CAAGCATTGGAAGTT ACGAA	CAGGGTGAAGGATGA AGAA	60.0	528	INTERGENIC	--	--	--
Ca7_P2_8633845	Ca7	8633845	TA/TAA	TTATGTTTGGTGGTT GCG	AAATGTCGGTGAATG AAGC	59.9	618	DRR	Ca_15354	DZ	C2H2
Ca7_P2_8634841	Ca7	8634841	ATTTT/ATTT	TACAAAGGGAGAATGG GCAG	GCACCCTCCTATGGTC GTAA	60.0	536	DRR	Ca_15354	DZ	C2H2
Ca7_P2_8639938	Ca7	8639938	TTTT/TTTAAATTT	ATGTTGTGTCGCAAGTC CAA	GGATCAGTTTGACCTA ACCCA	58.9	253	INTERGENIC	--	--	--
Ca7_P2_8640858	Ca7	8640858	T/TG	CCTCTTCATTGGCCCA TTA	AAAATATGGGAGGGTG GGAG	60.0	418	INTERGENIC	--	--	--
Ca7_P2_8658615	Ca7	8658615	AAA/AAAGAA	TAACCCGTTGATAAGTG GGC	GCATTGTTACGGATAC GGCT	60.0	453	INTERGENIC	--	--	--
Ca7_P2_8662282	Ca7	8662282	AGTGTG/AGTG	TGAGAATAGTTTACGG TAGTTTTTG	CATTGGCAACACTTCC TCCT	60.1	641	DRR	Ca_15350	R	bZIP
Ca7_P2_8662645	Ca7	8662645	AATA/AA	CTTCTGCAGATGTTTT GCA	TGCATTGACACGTGGT TTTT	60.0	374	DRR	Ca_15350	R	bZIP
Ca7_P2_8666289	Ca7	8666289	ATTTTTTCTTT/ATTT	TCACTCCAACAACCAAT GACA	CAACAATCAACAAGGC TCCA	59.7	566	INTERGENIC	--	--	--
Ca7_P2_8670011	Ca7	8670011	AAGT/A	TTTTTCCCTTTCATTTAT GCC	TAAGGGTCCGCATGTG CTAT	60.5	453	INTERGENIC	--	--	--
Ca7_P2_8670801	Ca7	8670801	AA/AAAAGA	CACATGCGGACCCCTTA ACTT	GCCCAATTGGTCGCTT AATA	59.9	798	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_8673839	Ca7	8673839	CC/CCGTTAAATGAAC	TCGAGCTTTGGAGTTAA GGTTT	TGAAATCGCCCAAATT AAA	60.3	442	INTERGENIC	--	--	--
Ca7_P2_8675341	Ca7	8675341	ATTTTT/ATTTTTTT	CACCAAAATGGAATATC GCC	GCCCAATTGCTCGCTT AATA	60.2	565	INTERGENIC	--	--	--
Ca7_P2_8675644	Ca7	8675644	T/TA	CACCAAAATGGAATATC GCC	GCCCAATTGCTCGCTT AATA	60.2	565	INTERGENIC	--	--	--
Ca7_P2_8675859	Ca7	8675859	GTAT/GTATAT	ATTGGGCAACTGCTCA CTTT	TCACAGCCATCACGGA TAAA	60.1	487	INTERGENIC	--	--	--
Ca7_P2_8677373	Ca7	8677373	C/CT	AGCTTCCATGCACGAT CTCT	CCCCGTAAATTGGAT GAGA	59.8	353	INTERGENIC	--	--	--
Ca7_P2_8677961	Ca7	8677961	TTTATTATTATT/TTTATTATTATT	AAATTTACGGGGCACA CAAG	TGCAACATGCTCTCTC TCG	60.0	424	INTERGENIC	--	--	--
Ca7_P2_8678324	Ca7	8678324	CTTATTTATTTTATTTT/CTTATTTATT TTATTTTATTTT	AAAAAGGGTTGGTTGG TTCC	TGTCCTTCTGATCTT GGA	60.6	679	INTRON	Ca_15349	T	WRKY
Ca7_P2_8678369	Ca7	8678369	TTATATAT/TTAT	AAAAAGGGTTGGTTGG TTCC	TGTCCTTCTGATCTT GGA	60.6	679	INTRON	Ca_15349	T	WRKY
Ca7_P2_8681581	Ca7	8681581	AT/ATT	ATAATTGCGTGGCTTGC ATT	ATTGCTTTGAGACAC AGGG	60.1	488	DRR	Ca_15348	G	--
Ca7_P2_8685139	Ca7	8685139	TTTGGTTCTTA/TTTGGTTCTTATTAAT TGGTTCTTA	GAAGTCGACGATGGGA TTTAAC	GGTATGAGATGGGAGG GGTT	60.0	944	DRR	Ca_15347	IR	Nin-like
Ca7_P2_8688043	Ca7	8688043	TGTAAGT/TGTAAGTAAGT	TCGCAACAATTGCATG ATT	GCTCAGATGGATAAAC CCGA	60.0	389	INTRON	Ca_15347	IR	Nin-like
Ca7_P2_8697204	Ca7	8697204	A/AC	ACGATTCGTCCAAATTC TGC	TCTTATGATTAGTCCGC CCG	60.1	337	INTRON	Ca_15346	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_8700386	Ca7	8700386	CTTTT/CTTT	CATGCAAGCCATACACA TCC	TGGTTCTGGTTCTCAG GAATG	60.1	643	INTERGENIC	--	--	--
Ca7_P2_8709122	Ca7	8709122	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTAT/AATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT	AAGAACCAGAAAGAACTA TCGAA	TGTGGTTTTTCCAATTG TTGA	58.9	684	INTERGENIC	--	--	--
Ca7_P2_8709902	Ca7	8709902	CAAAA/CAA	ATCAATCATGCGTCAAA ACG	AAACACAAGCAGGGTT GGTC	60.0	392	INTERGENIC	--	--	--
Ca7_P2_8716707	Ca7	8716707	A/AG	TCGTTCTTTTGTGCTT CCA	AAAATCTTCTGTTTCT CCTCTC	58.0	112	DRR	Ca_15344	O	MYB_related
Ca7_P2_8729266	Ca7	8729266	TTATA/TTATATATA	TGCTTGCTATGATGGG TGAG	TGTCAAATATTTTGGGG TGGA	60.0	574	INTERGENIC	--	--	--
Ca7_P2_8737215	Ca7	8737215	TAAATAAAATAAAATAA/TAAATAAAA ATAAAATAAAATAA	TTTTGACACTTAGCCT TTGTG	TGGGATTTTGTGTGTC TTTTT	59.5	575	INTERGENIC	--	--	--
Ca7_P2_8740392	Ca7	8740392	AAT/A	TGATGAAGCAGGTGTT CAGG	AAAGTTGCAAGCCAAC CATC	60.1	464	INTRON	Ca_15342	C	AP2
Ca7_P2_8740475	Ca7	8740475	GTT/GT	TGATGAAGCAGGTGTT CAGG	AAAGTTGCAAGCCAAC CATC	60.1	464	INTRON	Ca_15342	C	AP2
Ca7_P2_8741660	Ca7	8741660	TCA/TCACA	TGGCAATTCCTCTTTG TCC	TTAAGGACTGGCTTGT TGCC	60.2	380	INTRON	Ca_15342	C	AP2
Ca7_P2_875747	Ca7	875747	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	TTTTGCCCCAAAAGTAG TGG	GGACACCAATTTGACA CCCT	59.7	483	INTERGENIC	--	--	--
Ca7_P2_8761317	Ca7	8761317	CTTT/CTT	GGGCAATGCTTTTAAAG GTG	ACGCATGCACATTGAT TTGT	60.0	818	INTRON	Ca_15340	--	HD-ZIP
Ca7_P2_8762041	Ca7	8762041	GTTTTTTTT/GTTTTTTTTTTT	ACAAATCAATGTGCATG CGT	TCTCACATTGCACAAAT CTCG	59.9	484	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8783111	Ca7	8783111	T/TA	GGATGAACACCCGTT TATG	ACTTCTTGGGCATCAT TGG	59.9	863	DRR	Ca_15335	E	C3H
Ca7_P2_8787776	Ca7	8787776	TTGTG/TTG	CCTACTCCCTCATGCCT TCA	CATGCTCACCCTCGTA CACT	59.8	977	INTERGENIC	--	--	--
Ca7_P2_8792391	Ca7	8792391	TTATAT/TTAT	TTTTGTTTGCACCTTCCT TGAAA	CGGCAGACGCTTCTTA ATTT	59.5	772	INTERGENIC	--	--	--
Ca7_P2_8792500	Ca7	8792500	GAAA/GAA	TTTTGTTTGCACCTTCCT TGAAA	CGGCAGACGCTTCTTA ATTT	59.5	772	INTERGENIC	--	--	--
Ca7_P2_8792680	Ca7	8792680	AAAAA/AAAAATAAAA	ACCTTACGTCAGCTTCC ACG	CGGCAGACGCTTCTTA ATTT	59.5	218	INTERGENIC	--	--	--
Ca7_P2_8793998	Ca7	8793998	TAAAAAAAA/TAAAAAAAAA	TCAATGGTTATTGGTTG GGAA	GAAGGAACCAAAGGGA GACC	59.9	823	INTERGENIC	--	--	--
Ca7_P2_8794664	Ca7	8794664	TTATATATATATATAT/TTATATATAT	GGTCTCCCTTTGGTTC CTTC	TTCTGTCATATCGAATC CGT	60.3	537	INTERGENIC	--	--	--
Ca7_P2_8796393	Ca7	8796393	CTATATAT/CTATATATAT	TGCCAACATTCGCTTC ATA	GTTATTACGAGGGCCG ATCC	60.7	718	DRR	Ca_15334	K	HD-ZIP
Ca7_P2_8796740	Ca7	8796740	TAA/TAAA	GATCGGCCCTCGTAAT AACA	TCATCCAACGATCCAA CTGA	60.0	591	DRR	Ca_15334	K	HD-ZIP
Ca7_P2_8798134	Ca7	8798134	ATTTTTTTTT/ATTTTTTTTTTT	TGGTTTGTGGTTGAGA GTGC	TACTCCTTACCCACG CAAC	60.0	899	INTERGENIC	--	--	--
Ca7_P2_8799395	Ca7	8799395	CTAT/CTATAT	GGCAACCTCACAAATGT CCT	ACCCAGTGTGGATGAA AAGC	60.0	603	INTERGENIC	--	--	--
Ca7_P2_8807676	Ca7	8807676	A/ACT	CGCTGTTAATGGGAGG TTGT	TTGGTTTCATTGCCTGT TTG	59.6	673	INTRON	Ca_15332	--	B3

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8808872	Ca7	8808872	GAAAAA/GAAAAAAA	CGAGTTCTTCTGGAAG GTGC	GTGCAATGTTTGGATT GACG	60.0	788	INTRON	Ca_15332	--	B3
Ca7_P2_8809172	Ca7	8809172	ATT/AT	GATTCCATGCAAGCCAT TCT	GTCTCCTTGTGCATGG ACTG	59.3	468	INTRON	Ca_15332	--	B3
Ca7_P2_8809625	Ca7	8809625	TAAAAAA/TAAAAA	CGTCAATCCAACATTG CAC	TCATGGAACCCCTTTT CTG	59.9	747	INTRON	Ca_15332	--	B3
Ca7_P2_8817849	Ca7	8817849	CG/CGCAACATG	TCTTTTTCGATCGGGT TGT	TCACGTCAATCCCCAA AAT	60.2	408	DRR	Ca_15331	E	BBR-BPC
Ca7_P2_8818460	Ca7	8818460	ATTTTTT/ATTTTTTTTT	TTTTGGGAATTGACGT GAC	ATAAGGGAAGGAATT GCGG	60.3	410	INTERGENIC	--	--	--
Ca7_P2_8821817	Ca7	8821817	GTAATTAA/GTAA	ATTGAGACCAATGGG TGGA	ATTAAAGCGGTGTGG TCTT	58.6	679	INTERGENIC	--	--	--
Ca7_P2_8827788	Ca7	8827788	TT/TTAT	ATGTTCTTCTTCACCA GCG	GCCAATTCAGGTGTC CACT	60.0	329	INTERGENIC	--	--	--
Ca7_P2_8828027	Ca7	8828027	T/TCC	GTGGACACCTGAAATT GGCT	TTCAGTTGGCGTTTCT GTG	59.9	543	INTERGENIC	--	--	--
Ca7_P2_8839299	Ca7	8839299	C/CAA	CCAATTGCCCAAAATA AAA	GTTTCCCTTTGAGTC CGAT	60.3	450	DRR	Ca_15328	E	BBR-BPC
Ca7_P2_8839639	Ca7	8839639	CT/CTT	ACACGTGAATTTGTGC TCG	TGAGTCAGATGAGTTC AACTGTGA	60.0	517	DRR	Ca_15328	E	BBR-BPC
Ca7_P2_8840044	Ca7	8840044	AATATA/AAATA	TGGCTTTCTTACTCTA TGGTTGA	AGGATGGTCATAGCCA GCAA	60.6	741	DRR	Ca_15328	E	BBR-BPC
Ca7_P2_8841846	Ca7	8841846	TATAATAAATAAATAA/TATAATAA TAAATAAATAAATAA	TTCATTTTGCCTCAAC ACG	AATGGGTGATTGCATG CTG	60.5	399	DRR	Ca_15327	P	GRAS

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8842355	Ca7	8842355	A/AT	AGCATGCAATCACCCAT TTT	GCGATCACTATCATTG CGA	59.8	614	DRR	Ca_15327	P	GRAS
Ca7_P2_8852409	Ca7	8852409	TG/T	TTGATTTGAGAACCGT CAA	AAAGTGGAACACGACT CTCATT	57.8	370	INTERGENIC	--	--	--
Ca7_P2_8856724	Ca7	8856724	TG/T	ATAGCGAGACCAATCC CTTG	CTTGCCATCACCATAG GCTT	60.1	608	INTERGENIC	--	--	--
Ca7_P2_8857405	Ca7	8857405	GATTATTATTATTA/GATTATTATTA	ACCCAAAACATCCACCA AAA	CGGTGATTCTTAATGA AGGC	59.5	379	INTERGENIC	--	--	--
Ca7_P2_8859288	Ca7	8859288	TAAA/TAA	CCCTATTGATGTCCGTG TCA	GGTACGATTGCCTTTT CCAA	59.9	191	INTERGENIC	--	--	--
Ca7_P2_8859379	Ca7	8859379	TG/T	AGCACTGGCTTGGTGC TAAT	GGTACGATTGCCTTTT CCAA	59.9	127	INTERGENIC	--	--	--
Ca7_P2_8863924	Ca7	8863924	TAAAAAAAA/TAAAAAAAAA	TTAATTAGATTGCGGC GCT	GAAATGCCCAAAGG CATA	59.9	982	INTERGENIC	--	--	--
Ca7_P2_8865813	Ca7	8865813	GAAAAA/GAAAAA	TTCTGCTTAGGGGACC AAAA	CATTGTAAAGGCGAC TTGTGA	60.2	452	INTERGENIC	--	--	--
Ca7_P2_8868006	Ca7	8868006	AATATATATATATATATATA/AATAT ATATATATATATATATA	CACCTGCGGTTCTTAA CAT	GCACAGTCATTGTTG GGCT	59.8	618	DRR	Ca_15326	T	FAR1
Ca7_P2_8873525	Ca7	8873525	A/AGATTATTTATTT	GGTTGTTGCGTTTTGT GTTG	AATTGCTTTGCTCCTC AAA	60.0	121	INTERGENIC	--	--	--
Ca7_P2_8875009	Ca7	8875009	GTATAT/GTAT	GGAAAGCTGTGTGAG CTCAAG	AGAACCATTGTCAG GGTG	59.8	546	INTERGENIC	--	--	--
Ca7_P2_8875146	Ca7	8875146	TTT/TTTAAATT	CATTATACCCCTGGAC AAATGG	TTAATGAAATTGGTC CGTG	57.6	304	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_8876394	Ca7	8876394	TC/TCC	GATGGATGATTTGAAC CCAA	TAGCCTTAACGCGTC ATCA	59.5	781	INTERGENIC	--	--	--
Ca7_P2_8890406	Ca7	8890406	TG/T	GCACAAGGACAAAGT CAAA	GTGCTTGCTAATTCACA CGG	59.3	752	INTERGENIC	--	--	--
Ca7_P2_8892052	Ca7	8892052	ATTTTTTTTTTT/ATTTTTTT	CCTTTTGTGGTACAGC AGTGA	GCATGTGTGCCCTTA ATTT	59.8	963	INTERGENIC	--	--	--
Ca7_P2_8892411	Ca7	8892411	TAAAAAAAAA/TAAAAAAAAA	CCACTTGCATTCTTA ACTT	GCATGTGTGCCCTTA ATTT	59.8	546	INTERGENIC	--	--	--
Ca7_P2_8898552	Ca7	8898552	CAAA/CAAAA	TGCCACGTCATTGAAA TGT	GATGTGGCAGATAGGG AAGC	59.7	629	INTRON	Ca_15325	--	C2H2
Ca7_P2_8898762	Ca7	8898762	GAGAAGAAGA/GAGAAGA	TGCCACGTCATTGAAA TGT	CTGCGTCGAAATTTAG GGAA	60.2	859	INTRON	Ca_15325	--	C2H2
Ca7_P2_8898918	Ca7	8898918	ATTTTTT/ATTTTTTTTT	GGTCGAAGTGTGGTT CAAT	AAACAATGGATATCGG AGCG	59.9	622	INTRON	Ca_15325	--	C2H2
Ca7_P2_8907832	Ca7	8907832	TATCAT/TAT	TCATGACAATGAGTCAA TTTGC	GACTCTCGCCAGAATC ATGTC	59.8	656	INTERGENIC	--	--	--
Ca7_P2_8914395	Ca7	8914395	GACACACA/GACACACACA	TGAACTGCCTACGGGA GACT	TCAACCAATCAATGCCA CAT	59.8	861	INTRON	Ca_15322	R	DBB
Ca7_P2_8922761	Ca7	8922761	AAT/AATATTTAT	GCTTTCTACCGACGAG GATG	TGGATCCGAATTTCT CTTG	60.0	848	INTERGENIC	--	--	--
Ca7_P2_8926032	Ca7	8926032	GT/GTT	TTCTGCATAGTTGCACC TCG	GGGTCTGTCATGCCCT TAAC	59.4	355	INTERGENIC	--	--	--
Ca7_P2_8935107	Ca7	8935107	CTG/CTGTG	AACCGGAGTTGAGGAC ACAG	GCAAAGAGGCCCAATA CAAA	60.1	577	INTRON	Ca_15321	S	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8946786	Ca7	8946786	TA/T	GAAATATGGGCCTTGG GATT	GAGGTATTGCCTCCAG GTGA	60.1	610	INTRON	Ca_15320	--	LBD
Ca7_P2_8951378	Ca7	8951378	TAAAA/TAAAA	TCGTGTATCAAGTTCA TGC	AAAGGGTCCAAATCCA AACC	60.0	694	INTERGENIC	--	--	--
Ca7_P2_8952722	Ca7	8952722	CGG/CG	TCAATTTCTTGCCTGTG AGC	AGCCAAGAGCAATGCA AAAT	59.9	553	INTRON	Ca_15319	--	--
Ca7_P2_8955893	Ca7	8955893	CTTTT/CTTT	CATACCAGTGGGAGGC AGTT	TTGCTTCCCATTAAGC ATC	60.0	636	INTRON	Ca_15319	--	--
Ca7_P2_8957839	Ca7	8957839	GTATAT/GTAT	GGTTGAGGAGGCTGCT AGTG	CCGCTGACAATTAAG GAAA	60.1	621	INTRON	Ca_15319	--	--
Ca7_P2_8964376	Ca7	8964376	ATGAGTTG/ATGAGTTGAGTTG	TAGCAGAGCACAAATGAT GCC	TTTGGGAAGTGCTCTT GTCA	59.1	780	INTERGENIC	--	--	--
Ca7_P2_8964759	Ca7	8964759	CTA/C	TTGCATGAGTTGGAGA CTCG	AGTTGCCGTTACGGAT TGAA	60.5	575	INTERGENIC	--	--	--
Ca7_P2_8964781	Ca7	8964781	A/AGTAT	TTGCATGAGTTGGAGA CTCG	AGTTGCCGTTACGGAT TGAA	60.5	575	INTERGENIC	--	--	--
Ca7_P2_8967220	Ca7	8967220	AAATTAATTAATTA/AAATTAATTA	TTATTTGGCTCACACCC TCA	ACAACAGGCTGAGCCA AGTC	60.5	539	INTERGENIC	--	--	--
Ca7_P2_8969711	Ca7	8969711	GA/G	CATTGAGGATGTGTATG CCG	CGCGCTATATTGTTCA CAGG	59.3	755	INTRON	Ca_15317	G	HB-PHD
Ca7_P2_8969814	Ca7	8969814	AC/A	TATACCCCGTCCATT GCA	CGCGCTATATTGTTCA CAGG	59.3	372	INTRON	Ca_15317	G	HB-PHD
Ca7_P2_8973095	Ca7	8973095	TA/T	GGCGGTGTTGTAGCA ATTT	TGTGGAACAAGTCCCC AAGG	60.9	626	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_8974976	Ca7	8974976	ATTTTT/ATTTT	TAGAAGCCCAAAGGCT CAAA	GGTACAGAACGTGGT CAAA	59.6	918	INTERGENIC	--	--	--
Ca7_P2_8977478	Ca7	8977478	ACAAAACCAAAC/ACAAAACCAAAC AAAC	TGCATCTTCCTTCCTT GCT	GTGGCATGTTGGAGAA GGTT	60.0	410	INTERGENIC	--	--	--
Ca7_P2_8978074	Ca7	8978074	GTAA/GTTAACTTTAA	AAGCCTCAACTGGGT AGCA	ATGCAAGGGTTTTGGA AGTG	60.0	575	CDS (large-effect mutations)	Ca_15316	Z	bHLH
Ca7_P2_8983888	Ca7	8983888	ATT/AT	TTGACATAGAAAGTGGT CCCAA	AGGAGAGGAGCACCAC AAAA	59.8	740	INTERGENIC	--	--	--
Ca7_P2_8988108	Ca7	8988108	TAAAAAA/TAAAA	CGTTTCGAATGCATTAT CTCA	TTGCCGAAATTGAGGA TAGG	60.0	192	INTERGENIC	--	--	--
Ca7_P2_8990701	Ca7	8990701	TTT/TTTCTTTACTATAAAAGTT	ATGTCGGGCACATGTT CTAT	CGTGCTTCTTAAGGGG AAAA	59.3	154	INTERGENIC	--	--	--
Ca7_P2_8994610	Ca7	8994610	CTTTTTT/CTTTTTTTTTT	CTGCTGCGTTTCTGATT GAA	AACGAAAAAGACCGCA ACAT	59.6	471	INTERGENIC	--	--	--
Ca7_P2_8996920	Ca7	8996920	TAAAA/TAAAA	CCCCAAATCTAAGAGCA CCA	ATCTCGGACAAGGAAG GGTT	59.9	664	INTERGENIC	--	--	--
Ca7_P2_9011657	Ca7	9011657	AATTTTT/AATTTTTATTTTT	GGGTTTCATCCCCCTGT ATCT	AAGCCTCGATCTTGAC GAAA	60.0	837	INTERGENIC	--	--	--
Ca7_P2_9013920	Ca7	9013920	ATGT/AT	TGCCAAAATATGGAGAC ACG	CGTATCTTCGTCCCAA CCTC	59.6	604	INTERGENIC	--	--	--
Ca7_P2_9014371	Ca7	9014371	GAAAA/GAAA	GGTTGGGACGAAGATA CGAG	GCTTGACACACTGTTG CGTT	60.0	800	INTERGENIC	--	--	--
Ca7_P2_9020687	Ca7	9020687	AC/A	ATTACTTTGAAGCCCTG GCA	TGGCACACATGACAAC TTGA	59.7	489	INTRON	Ca_15313	U	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9021200	Ca7	9021200	TTAT/TT	TCAAGTTGTCATGTGT CCA	AAATTGCAAGCCAGAG CCTA	60.0	604	INTRON	Ca_15313	U	bHLH
Ca7_P2_9023557	Ca7	9023557	CTT/CTTT	GACAGAGGGGAGCTA ATCC	AGAACCGCCTTCCAG TTAT	60.0	621	INTRON	Ca_15313	U	bHLH
Ca7_P2_9030127	Ca7	9030127	GAAATATAAATAAAT/GAAATATAAAT ATAAATATAAAT	CACGATAGCGTTGGAG CTAA	TTGCACCTAAGTTTTGT TCCG	60.2	755	DRR	Ca_15313	U	bHLH
Ca7_P2_9030707	Ca7	9030707	TTCTCTCTCTCTCTCTCT/TTCTCTCT CTCTCTCT	ACCCTCCATTTCTCCC ACT	TGATTGAGCAATGAAG CCAA	60.3	264	DRR	Ca_15313	U	bHLH
Ca7_P2_9031079	Ca7	9031079	CTTTTT/CTTTTTTT	ACCCTCCATTTCTCCC ACT	ACTGCGCCATGAATGA TTTC	61.0	703	DRR	Ca_15313	U	bHLH
Ca7_P2_9032345	Ca7	9032345	ATTCTATCTTT/ATT	ACCACCTGAATTGCTTT TGG	TCTCGCACCTTGACAG TTTG	60.0	936	INTRON	Ca_15312	R	--
Ca7_P2_9034671	Ca7	9034671	CAAA/CAAAA	TTTCATGGTGGTGGTA CTGG	TTGCAAAAGGTGTCAA ACTG	59.9	463	DRR	Ca_15312	R	--
Ca7_P2_9037363	Ca7	9037363	GTTT/GTT	CCACAAAGGAGTGGGA CCTA	GTGGTGTCATTGGCCC TAGT	59.9	295	INTERGENIC	--	--	--
Ca7_P2_9037858	Ca7	9037858	AGG/AG	ACTAGGGCCAATGACA CCAC	AACAAAGTTCGAAGGC GAAA	59.9	429	INTERGENIC	--	--	--
Ca7_P2_9038585	Ca7	9038585	CAA/CAAA	TCATGATCTTTTCGCGT CTG	ACTCAGGCTTCAACC AACC	60.2	434	INTERGENIC	--	--	--
Ca7_P2_9040369	Ca7	9040369	TTATATATATATATATATAT/TTATATA TATATATATATAT	CATTGACACAACCTCAA CGG	AAAGGGAAGCAAGGAA GGAG	59.8	484	INTERGENIC	--	--	--
Ca7_P2_9044209	Ca7	9044209	AT/ATT	CCAAACAATTCAAGTTT TCCG	TTTTGGTCAAGAAACC CTCG	59.9	704	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9062987	Ca7	9062987	ATTTTT/ATTTTTTT	TGATGGGCCTTTGGA ATAA	GGAGGAAGGGGTATG GGTAA	60.0	669	INTERGENIC	--	--	--
Ca7_P2_9063360	Ca7	9063360	TTTTA/TTTACATATTTA	TTACCCATACCCCTTC TCC	TTTGCAGGGATGTGAA TCAA	60.0	275	INTERGENIC	--	--	--
Ca7_P2_9064807	Ca7	9064807	TGA/T	CAGGAACGTGAACCAA ACAA	AATGCTACGTCCAAAC CTGG	60.0	785	DRR	Ca_15308	R	AP2
Ca7_P2_9065055	Ca7	9065055	ATTT/ATT	TGTGGAATGATGAACAA ATGA	AATGCTACGTCCAAAC CTGG	60.0	620	DRR	Ca_15308	R	AP2
Ca7_P2_9072260	Ca7	9072260	ATTTTT/ATTTT	GGGTTTTGTGTTGAAAA TTTGAT	TTTGTGGGTGATAAG GGGA	60.2	846	INTERGENIC	--	--	--
Ca7_P2_9075277	Ca7	9075277	TA/T	AGGCACGGTCTTTCCTT TTT	ATTGCTAGGGGTGTTG ATGG	59.8	355	INTERGENIC	--	--	--
Ca7_P2_9080886	Ca7	9080886	CTTATTTATTATT/CTTATTTATTATT ATTTATT	GATTGGCGCTTGCAAT ATT	TTCATAGAATCGGGCC AAAG	60.0	667	INTRON	Ca_15307	--	--
Ca7_P2_9084742	Ca7	9084742	TTAT/TT	TGAGATCATGAAAATGC CCA	GGAGTTGATTTGATTT GCGG	60.4	975	INTERGENIC	--	--	--
Ca7_P2_9094548	Ca7	9094548	CC/CCACTGTAGC	TGGTGGAAAATCACTGT GGA	TCACCTCTTCCCCTTCC TTT	60.0	150	INTERGENIC	--	--	--
Ca7_P2_9101816	Ca7	9101816	AAGA/AA	CAAGTGGTCATTCAAAA GCAAA	TTTAAGTGGACCACGC CATT	60.4	549	INTERGENIC	--	--	--
Ca7_P2_9102395	Ca7	9102395	AAATAAT/AAAT	TTTGCAATTATCGAAT CCC	GGTTTGCCCTCAACCC TACA	60.0	522	INTERGENIC	--	--	--
Ca7_P2_9106379	Ca7	9106379	TTATATATA/TTATA	CCATTAAGAGCATAAGG TGTTGC	CACTTTCTCACATGCG GTGT	59.8	523	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9106434	Ca7	9106434	ATT/AT	CCATTAAGAGCATAAGG TGTTC	CACTTTCTCACATGCG GTGT	59.8	523	INTERGENIC	--	--	--
Ca7_P2_9109063	Ca7	9109063	AG/AGG	TGGACCTATTGGCCTA CGTT	TCGTTCAAAAAGGAAA CATCG	60.1	904	INTERGENIC	--	--	--
Ca7_P2_9109225	Ca7	9109225	TAAAAAAA/TAAAAAA	GAGCCCCCTCTTTAA TCC	TCGTTCAAAAAGGAAA CATCG	60.1	780	INTERGENIC	--	--	--
Ca7_P2_9129170	Ca7	9129170	GAGCTA/GAGCTAGCTA	TTGTGAGGCGGAGAGA GTTT	AGCATCCGACAATGTC ACAA	60.1	480	DRR	Ca_15303	K	ARR-B
Ca7_P2_9134330	Ca7	9134330	AT/A	CAGGGGATCTTAGTGG GACA	ACATTGCGAGTCCAAA CACA	60.2	872	INTERGENIC	--	--	--
Ca7_P2_9134590	Ca7	9134590	CATAAAAA/CATAAAAAATAAAAA	TTTTCTGGGAGATGGAT AAAAA	ACATTGCGAGTCCAAA CACA	60.2	503	INTERGENIC	--	--	--
Ca7_P2_9142224	Ca7	9142224	CTTT/CTT	TCACCAAAATCACAGAC CGA	TGAGTTCGCCGTTGAT GATA	60.2	201	DRR	Ca_15302	--	--
Ca7_P2_9143087	Ca7	9143087	AC/ACC	AGTTGACTGGTCACCA AGGG	CTTGATAGGCTTCTC CGTC	60.0	734	DRR	Ca_15302	--	--
Ca7_P2_9143122	Ca7	9143122	TAAAA/TAAAA	AGTTGACTGGTCACCA AGGG	CTTGATAGGCTTCTC CGTC	60.0	734	DRR	Ca_15302	--	--
Ca7_P2_9146302	Ca7	9146302	ATTTTTTTTT/ATTTTTTTTTTT	TGAAGCTGGTAATGAA GGGG	ACTCTGACTGCCAGTG GGTT	59.8	198	INTRON	Ca_15301	K	E2F/DP
Ca7_P2_9150561	Ca7	9150561	TACCACCA/TACCA	GATGGTTAGGCCAGCG ATAA	GGTACCAACCTCCTGC AAAA	60.0	198	DRR	Ca_15300	C	bHLH
Ca7_P2_9156655	Ca7	9156655	GTAT/GTATAT	TATGCGGTATCAGAGC CACA	TGGTACCTCCGTTGGT CTTC	60.0	301	DRR	Ca_15299	L	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9168297	Ca7	9168297	GAA/G	AGAATGGTGCCATGTTAGG	TCTGCGTTTGTTGTCTGTC	60.0	401	DRR	Ca_15297	--	--
Ca7_P2_9175393	Ca7	9175393	TTCCT/TT	AAAATTGGAGCACCCATCAA	GGACATGCAGTGGTGAATTG	60.0	766	INTERGENIC	--	--	--
Ca7_P2_9180941	Ca7	9180941	TA/TAGA	ATGATTTCCACGAGCCAAC	TGCAACATTTCTGATGAGC	59.8	322	INTERGENIC	--	--	--
Ca7_P2_9181192	Ca7	9181192	AGT/AGTCGT	ATGATTTCCACGAGCCAAC	ACGACATGCCAATGTCCTAA	60.1	641	INTERGENIC	--	--	--
Ca7_P2_9181858	Ca7	9181858	CT/C	TATTACCCAACCAAGCCAGC	TGAACTTTGATTGCCGCTAA	59.4	554	INTERGENIC	--	--	--
Ca7_P2_9183361	Ca7	9183361	CCTATCAACTAGC/CC	CGATTGCAAAATATGCCCTTT	GTGTTGGCATTGTCTTCCCT	60.0	337	INTERGENIC	--	--	--
Ca7_P2_9183560	Ca7	9183560	CCACA/CCA	CGATTGCAAAATATGCCCTTT	GTGTTGGCATTGTCTTCCCT	60.0	337	INTERGENIC	--	--	--
Ca7_P2_9210664	Ca7	9210664	CTTTTTTTT/CTTTTTTTTT	GTGTGCCACATATCCACAGC	GGACCAAAATTGAGGAACCAA	59.8	539	INTERGENIC	--	--	--
Ca7_P2_9217788	Ca7	9217788	CT/CTCTT	TGTGCAAGAGGACTCACTGG	TCTTGCTGCACAAACACTC	60.0	476	INTERGENIC	--	--	--
Ca7_P2_9218081	Ca7	9218081	AT/A	GAGTGTTTGTGCAAGCAAGA	AGCCACAAAGGACATCCAAA	60.5	690	INTERGENIC	--	--	--
Ca7_P2_9218528	Ca7	9218528	TTC/TTCATC	TGCAATGCCACTCAAAATC	TTGTGTTGCTGTTTTAGGCG	59.9	220	INTERGENIC	--	--	--
Ca7_P2_9218917	Ca7	9218917	AG/A	CGCCTAAAACAGCAACACAA	ATCCAAAGGCATGTGAGAGG	60.1	800	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9219155	Ca7	9219155	TT/TTTTTTCTTGTGTAT	GACGGAGTTTTGTTC GATGA	ATCCAAAGGCATGTGA GAGG	60.1	465	INTERGENIC	--	--	--
Ca7_P2_9221651	Ca7	9221651	ATTTT/ATTTT	GGTTTAGTTGTTGGAC CCGA	TGAGGCTTTTCTCTCC ATCA	59.9	375	INTERGENIC	--	--	--
Ca7_P2_9232233	Ca7	9232233	GAAAA/GAAAA	GAAACGTTGGTGACA TTCA	ATGCCATATTCTCGAGT CGG	60.1	546	INTRON	Ca_17335	--	--
Ca7_P2_9239922	Ca7	9239922	AGGG/AGGGG	CCAGGAAACGAAACG AAAA	TTCCACACCCCTCAA ATTA	60.2	305	INTERGENIC	--	--	--
Ca7_P2_9244142	Ca7	9244142	CATAAAATAAAATAAAATAAA/CATAAA ATAAAATAAA	TGCAATCCAAGCAGA CAAG	TGGGCGAGAGAGTCTA GCAT	60.1	407	INTERGENIC	--	--	--
Ca7_P2_9255165	Ca7	9255165	CACTTACTTACTTACTTAC/CACTTACTT AC	AATTGCAACCAATTAC CGC	ATCCACCAACAACAGC AACA	60.0	220	INTERGENIC	--	--	--
Ca7_P2_9259824	Ca7	9259824	AATTTTTTGA/AATTTTTTGATTTTTTGA	AGTGGGAGAGCAGCTG AGAG	ATCGGTGCAAGACACA TTGA	60.1	352	INTERGENIC	--	--	--
Ca7_P2_9260408	Ca7	9260408	CAA/CAA	TCAATGTGCTTGCACC GAT	GGACCAAAATTGAGGAA CCAA	59.8	754	INTERGENIC	--	--	--
Ca7_P2_9260586	Ca7	9260586	CTTTTTTT/CTTTTTT	CGTGTTTTAACCAAGCA AGTGA	GGACCAAAATTGAGGAA CCAA	59.8	695	INTERGENIC	--	--	--
Ca7_P2_9261449	Ca7	9261449	AATAATAATA/AA	TCATTGCTGTGAGAAA AATTG	TGCATGCTAGGTTTAT GTCCC	60.0	350	INTERGENIC	--	--	--
Ca7_P2_9261954	Ca7	9261954	ATGA/ATGACGATACTGA	GGGAAAGTCTTACTGT GTGCG	TGGACCAAAATTGATGA ACCA	59.8	808	INTERGENIC	--	--	--
Ca7_P2_9266554	Ca7	9266554	TG/TGG	GGGTTCTTTAGCTTCCT CCG	GTCTGAGCTGCCGAA GAGG	60.1	520	INTRON	Ca_17334	J	NF-YA

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9276938	Ca7	9276938	T/TCGAATCGA	GGAGCCTGATAATTCG GTGA	GCAATTCGATTTCTGC GAT	60.2	241	INTERGENIC	--	--	--
Ca7_P2_9292468	Ca7	9292468	AAT/AATAATTAT	AGGAGCGACCTTGCA TATG	TCTGTGTGATCTCCGT TTGC	59.8	449	INTERGENIC	--	--	--
Ca7_P2_9294094	Ca7	9294094	T/TTC	CATGCGGAACCTTTTG ACT	TCCTCGGATTAGACA TTGC	60.0	723	INTERGENIC	--	--	--
Ca7_P2_9298457	Ca7	9298457	TAATAAATAAATAA/TAATAAATAA AATAAA	TGGAACAATCAATGCC AAA	CCTTGCTTGCTTGAGC ATAA	59.2	233	DRR	Ca_17330	--	--
Ca7_P2_9302708	Ca7	9302708	GTTTTTTTTT/GTTTTTTTTTTTTT	ATGGAATGGATTGAGC GAAG	TTAATGGGCCTGTGGA TAGC	59.9	775	INTERGENIC	--	--	--
Ca7_P2_9304135	Ca7	9304135	GATATATATATA/GATATATATA	GGCTCATGCGTACTA CTGA	GGTTGTGGTTCTGGGA AAAA	59.8	490	INTERGENIC	--	--	--
Ca7_P2_9306741	Ca7	9306741	CTTTTTTT/CTTTTTTTTT	AATTCTCTCGGTGCA GTCT	TTCAATTTGCCACTCTG TCG	59.8	301	INTERGENIC	--	--	--
Ca7_P2_9307039	Ca7	9307039	AAATAAT/AAAT	CGACAGAGTGGCAAT TGAA	AGTTGTGTGGACAAA ATAGTGAG	57.4	355	INTERGENIC	--	--	--
Ca7_P2_9307100	Ca7	9307100	TAA/TA	CGACAGAGTGGCAAT TGAA	AGTTGTGTGGACAAA ATAGTGAG	57.4	355	INTERGENIC	--	--	--
Ca7_P2_9307825	Ca7	9307825	TA/TAA	ACGCGACAAGCTAGGA AGAA	CAAGAGAGCTGGGTC AGCC	60.0	185	INTERGENIC	--	--	--
Ca7_P2_9309242	Ca7	9309242	TAAAAA/TAAAAAAA	AAACGAGCTCGGAAGA TTCA	TGATTATAAGCCAACG GCA	59.2	503	INTERGENIC	--	--	--
Ca7_P2_9312550	Ca7	9312550	GTTTTTTTTT/GTTTTTTTTTTTTT	CTCCAGTAAAAGGGGC AACA	AAATGGGGGATACAAA AGCC	60.0	684	DRR	Ca_17329	--	C2H2

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9312827	Ca7	9312827	A/AC	TTTTGGCCTGGGTCATT TAG	AGACGGAAGCAACACA ACAA	59.3	520	DRR	Ca_17329	--	C2H2
Ca7_P2_9330999	Ca7	9330999	TGAG/T	GAGCCTGATAATCCGG TGAA	TACTTCCTCCCTCGC ATAA	59.7	438	INTERGENIC	--	--	--
Ca7_P2_9338760	Ca7	9338760	TCC/TCCCC	TGCAATTTTCAGTGATG CAA	TTGTTTGAAGTTGACAA CCAA	58.2	609	INTERGENIC	--	--	--
Ca7_P2_9347505	Ca7	9347505	GATC/GATCATC	ATGACCACGTATTTGCA CGA	GAACCATGGGATTTTG GATG	60.0	235	DRR	Ca_17326	--	C2H2
Ca7_P2_9347980	Ca7	9347980	TA/TTGTTGA	CATCCAAAATCCCATGG TTC	CAATTAGCGAAAGGGC AGAG	60.0	843	INTRON	Ca_17325	G	--
Ca7_P2_9351768	Ca7	9351768	TTAGTAG/TTAGTAGTAG	CGAGCTGACCTTGATG TTGA	AGCACTCCAAATCTCTC CCA	59.8	537	INTRON	Ca_17325	G	--
Ca7_P2_9352406	Ca7	9352406	TAAAAAA/TAAA	AGTTGAATTAGCTCGCA GCC	TGCGAACCCACCTTCT ACTC	60.3	566	INTRON	Ca_17325	G	--
Ca7_P2_9354342	Ca7	9354342	ATTTTATTTTATTTTATTTTATT/ATT TTATTTTATTTTATT	TTCAAAATAGGGCAAAA CCG	CACATAACGGACATC GGGG	60.2	795	DRR	Ca_17325	G	--
Ca7_P2_9354970	Ca7	9354970	TAGA/TAGAGA	CCCCGATGTCCTATTAT GTG	GGGGAGGGTAAGAACA GCAT	60.3	451	DRR	Ca_17325	G	--
Ca7_P2_9367031	Ca7	9367031	CGATTAATAATTAT/C	TCAGCTTATTGTGCAG ACG	CACACAACAAGTCCCA CAGG	60.0	391	INTRON	Ca_17324	--	--
Ca7_P2_9370541	Ca7	9370541	ATTTTT/ATTTT	TTATGCGATGGCTGAA CAAA	CCAAAGCCCAAAAAGT TGAA	60.1	333	INTERGENIC	--	--	--
Ca7_P2_9373019	Ca7	9373019	ATTTTT/ATTTTTTT	TATGGGTGAAACCCAC AACA	CCAAAGGTAACATATT GTGATGC	59.7	696	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9380442	Ca7	9380442	CTTTT/CTTTTT	TTCTTGACCAGGATGG GAAG	ATTGTGGTTGTATTG CGGT	60.3	299	DRR	Ca_17323	--	C3H
Ca7_P2_9386132	Ca7	9386132	G/GC	TCCTCCAGTGGAACTC ATGTC	TTTTTCTCATGGCCCAT TGT	60.3	509	DRR	Ca_17321	--	WRKY
Ca7_P2_9391086	Ca7	9391086	AC/A	GCCGCTCTCTGTACCT ATCG	TTATCCCTACAATGCTC CGC	60.1	508	INTERGENIC	--	--	--
Ca7_P2_9392622	Ca7	9392622	TAA/TA	AAAAAGACAAATCGCAT GGC	ACCACGTTACACCTTCG AATC	60.0	462	DRR	Ca_17320	F	--
Ca7_P2_9393092	Ca7	9393092	CT/CTT	GATTCTGAAGGTGAACG TGGT	TCCTGAGACGGGTAAT GGAG	60.1	705	DRR	Ca_17320	F	--
Ca7_P2_9393602	Ca7	9393602	ATT/AT	TCTCCATTACCCGTCTC AGG	CAATTAACGGTTTTGGT CCG	60.2	427	INTRON	Ca_17320	F	--
Ca7_P2_9397312	Ca7	9397312	TGAAAAATAACTTATA/T	CCAGGAAAGCCCAACT CATA	TTTGATCATTCTTCCCC TGC	60.0	820	INTRON	Ca_17320	F	--
Ca7_P2_9399813	Ca7	9399813	TTCTCTCTCTCT/TTCTCTCTCTCTCT	CTCAGACGGTGGTGTT CTGA	CTGGTTTCCACCCCT ATCT	60.2	574	INTERGENIC	--	--	--
Ca7_P2_940039	Ca7	940039	ATTTTTTTTT/ATTTTTTTTT	AAGTTCAAGCGGACATT TGC	TTTGGCAATGGATTACA ATGA	58.9	495	INTERGENIC	--	--	--
Ca7_P2_9400639	Ca7	9400639	ATT/ATTATTTTT	TGGATTGGAACCACT AGC	GGAAACATCCGGACCC TATT	60.0	631	INTERGENIC	--	--	--
Ca7_P2_9401104	Ca7	9401104	AT/ATTT	AATAGGGTCCGGATGT TTCC	TTGAACGGAGAAAAC CGCT	60.0	345	INTERGENIC	--	--	--
Ca7_P2_9401440	Ca7	9401440	CTAAT/CT	AAGCGAGTTTTCTCCGT TCA	TCCGCTCCCAATAGTC AAAC	60.1	645	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9406189	Ca7	9406189	AAATAATAATAATAATAA/AAATAA AATAATAATAA	CGCTCAATACTCTTCA AGTTCA	TTCCCTTGTCATTTC GTG	59.7	545	INTERGENIC	--	--	--
Ca7_P2_9412682	Ca7	9412682	TAA/TAAA	GAAATGGGAATATCGC ATGG	TCAACAGTAAGCATGG CTGC	60.0	654	INTRON	Ca_17319	O	MYB_related
Ca7_P2_9420184	Ca7	9420184	AAGAGAGA/AAGAGAGAGA	CCAAGGGTGGGAGAAC TGTA	TTTGCAGCAATGGTGA TTGT	60.1	501	INTRON	Ca_17318	--	GRAS
Ca7_P2_9420601	Ca7	9420601	ATTTTT/ATTTT	ATATGGTTAACCCAACG GCA	ATGTCCCCATTTTCATCA CAA	58.6	369	INTERGENIC	--	--	--
Ca7_P2_9421008	Ca7	9421008	TAC/TACTATCAC	ATTGTGATGAAATGGG GACA	GTGGGTGGGATGCATA ATTC	60.0	569	INTERGENIC	--	--	--
Ca7_P2_9421127	Ca7	9421127	TGGG/TGG	ATTGTGATGAAATGGG GACA	GTGGGTGGGATGCATA ATTC	60.0	569	INTERGENIC	--	--	--
Ca7_P2_9421176	Ca7	9421176	TA/TAGA	TCAGCATTTCAAGATGA CCAA	GTGGGTGGGATGCATA ATTC	60.0	122	INTERGENIC	--	--	--
Ca7_P2_9421758	Ca7	9421758	A/AT	CTTCGCAAAAATGCGAA ACT	GCTATCGCGCTATTCC AAAC	59.8	486	INTERGENIC	--	--	--
Ca7_P2_9421884	Ca7	9421884	C/CAAAACATTTA	CTTCGCAAAAATGCGAA ACT	CATGATGATGCAGAAA ACGG	60.1	573	INTERGENIC	--	--	--
Ca7_P2_9422013	Ca7	9422013	AATAT/AATATAT	CTTCGCAAAAATGCGAA ACT	CATGATGATGCAGAAA ACGG	60.1	573	INTERGENIC	--	--	--
Ca7_P2_9428824	Ca7	9428824	TCCC/TC	TGGATCAAAATGCCAAA CAA	GGTAGAGTACCTTTCC CGCC	60.0	504	INTERGENIC	--	--	--
Ca7_P2_9432226	Ca7	9432226	CA/C	AAAAACCGCATATTCCA CCA	GAAAAATTGGCTTGCC TGAA	60.2	553	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9432917	Ca7	9432917	GTTTTT/GTTTTTTT	CGTCTCTGGTTCAATG GGTT	AACCAATGCGGCAATA AAAG	60.0	172	INTERGENIC	--	--	--
Ca7_P2_9440061	Ca7	9440061	TTACT/TTACTACT	GGGTGTTGATTCCCTT GATT	ATTTCAGTTGGAGTG GTCTG	60.0	867	DRR	Ca_17315	O	TCP
Ca7_P2_9445883	Ca7	9445883	ATCTATC/A	CGAGAAGCCTCTCAAC TTGG	TTTTGTGGTTCATGT GCG	59.6	623	DRR	Ca_17313	--	--
Ca7_P2_9446469	Ca7	9446469	GAAAAA/GAAAAA	CGCACATAGAACCAC AAAA	TTATGAGCTGGAGAGT GGGG	60.2	793	DRR	Ca_17314	A	--
Ca7_P2_9447436	Ca7	9447436	ATAGAT/A	CTCAGACCAGGAAGTG GAGC	CGTGTGACTCCCCTGT TTTT	60.0	670	INTERGENIC	--	--	--
Ca7_P2_9452345	Ca7	9452345	CTTCA/CTTCAATTCA	GCTTCACATTAGCCCTG TGC	CCACGAGTAAGCTAAA GCCG	60.0	129	CDS (FRAME SHIFT)	Ca_17312	--	--
Ca7_P2_9458073	Ca7	9458073	TTCT/TT	AAAAACCTTTGGTTCCG CTG	CTTCTTCTCCAAGTCT GGG	60.0	530	INTRON	Ca_17311	--	--
Ca7_P2_9459140	Ca7	9459140	CA/CAA	GGGTGGAAGTGAATG TGAC	ACATGCAACATTATCG CCA	60.0	797	DRR	Ca_17311	--	--
Ca7_P2_9459566	Ca7	9459566	ATT/ATTT	TGGCGATAATGTTTGA TGT	AGAGCAAACGGGAAAG TGTG	60.3	131	DRR	Ca_17311	--	--
Ca7_P2_9462973	Ca7	9462973	TA/TAGTATTAAA	ATGCTTTGATGTGTGAT GCC	ATTGCTTCTTGCTGCCA GTT	60.0	513	INTRON	Ca_17310	C	bHLH
Ca7_P2_9464995	Ca7	9464995	TAA/TA	CAGAGCTGGAAGTGTG TGGA	ATTGCAACCATGACAC GAAA	60.0	991	DRR	Ca_17310	C	bHLH
Ca7_P2_9465063	Ca7	9465063	TAAA/TAAA	TGAGTGGGATTGGTAG GGAG	GCAACCATGACACGAA ATTG	60.0	917	DRR	Ca_17310	C	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9467798	Ca7	9467798	TAT/TATTATGAAGAT	CACATAGCAATTGGTCA ACG	TGGGAACATTGCTCCA AAGT	60.5	474	INTERGENIC	--	--	--
Ca7_P2_9468329	Ca7	9468329	TTA/T	TTGGAGCAATGTTCCCA AAT	TTTGAGGAGTGGCCTC AAGT	59.8	642	INTERGENIC	--	--	--
Ca7_P2_9468692	Ca7	9468692	TC/TTATGTTTTTCAC	TCATGAGTCCAACCTA GCC	TCGTTATGGAACACGT GGAA	60.0	353	INTERGENIC	--	--	--
Ca7_P2_9472387	Ca7	9472387	ATGTTTAGATTG/ATGTTTAGATTGTTA GATTG	TGAATGTTGCAATCATG GCT	ATTAGACTATCCCCGC ACGC	61.4	666	DRR	Ca_17309	S	C3H
Ca7_P2_9480366	Ca7	9480366	GTT/GTTT	AAATTTTGACTTGAAA TCATTCTG	TCGGACCAAATTGCCT ATCT	59.5	291	INTERGENIC	--	--	--
Ca7_P2_9480609	Ca7	9480609	ATTTTTTTT/ATTTTTTTT	AGATAGGCAATTGGTC CGA	TCAATTGAATTTTGAAC TCATTGTT	59.0	249	INTERGENIC	--	--	--
Ca7_P2_9481237	Ca7	9481237	GT/GTAACATCTT	TTCCACGTATTTAAGTG GTTGAC	CTCCCACGTCCATTGA CTCT	60.1	514	INTERGENIC	--	--	--
Ca7_P2_9486147	Ca7	9486147	GC/G	TTGAGGGGATGATGGG TTTA	TGTTGAACCTTCGACG TTTTT	59.6	155	INTERGENIC	--	--	--
Ca7_P2_9491422	Ca7	9491422	AATATG/AATATGCATATG	TTTGAAAGGCCTGAGC CTAA	TTGGTGGTTGGAAGGC TATC	59.9	746	DRR	Ca_17306	--	--
Ca7_P2_9494173	Ca7	9494173	AACA/AACACA	TACGCAGCCTACTGTT GTGC	TTGTTGCTGACCACGC TATC	59.9	594	INTERGENIC	--	--	--
Ca7_P2_9495205	Ca7	9495205	TTTATTAT/TTTAT	TCTCGCTATCCACTTTT GGG	CCCCAGAGAACAACCT TCCA	60.1	801	INTERGENIC	--	--	--
Ca7_P2_9495776	Ca7	9495776	ATTTT/ATT	TCTTGGCTGTTTCAGCAT TTG	AGAAGGGGAAGGAAG GACAA	60.0	199	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9549707	Ca7	9549707	GTTTTTT/GTTTT	GATATGCGTTTGCCAA CCT	GTGCATGCATCAGACA GCTT	60.0	458	INTRON	Ca_17299	--	--
Ca7_P2_9551009	Ca7	9551009	ATTCCTCTT/ATTCCTCTCCTCTT	TCATGTGTATGCGTGT GTGG	GAAAAGGCAAACCAAT TCCA	59.9	398	DRR	Ca_17299	--	--
Ca7_P2_9554897	Ca7	9554897	AT/A	TGAACTAACCCACGTC ACA	GGATTCTATTGCGTC TGGA	60.0	956	DRR	Ca_17298	--	--
Ca7_P2_9559628	Ca7	9559628	A/AAAC	CCAAATTGTAAACCGTA AAATGAA	TTTTATCCAATCTCCG CGT	59.5	420	INTERGENIC	--	--	--
Ca7_P2_9567254	Ca7	9567254	TTTAAGTAAT/TTTAAGTAATATACTATT AAGTAAT	GGAAACAAGGATTGA AGATGAA	TCATTGGCAAAGAACA GGTAA	58.3	593	INTERGENIC	--	--	--
Ca7_P2_9578967	Ca7	9578967	AAAAATTAAAA/AAAAATTAAAAATTTAAA	ACTCCACAACACTTACG CCC	CGGAATACGGCGAATT AAGA	60.1	669	INTERGENIC	--	--	--
Ca7_P2_9580469	Ca7	9580469	A/ACTGGT	GGAAATAGGGCACCAG GATT	GGATATGCTGTGACGC TGAA	59.8	112	INTERGENIC	--	--	--
Ca7_P2_9584977	Ca7	9584977	GTTTTTTT/GTTTTTTTT	CTAGGGAGTTCGTCAG GTGC	TCCTCCCCATCTTTCAT TTG	59.9	675	INTERGENIC	--	--	--
Ca7_P2_9586429	Ca7	9586429	AA/AAGGA	ACATGCGCATTTGTGTG TTT	GAAGGTTTTCCGAAG AGGG	60.0	439	INTERGENIC	--	--	--
Ca7_P2_9589249	Ca7	9589249	ATTT/ATT	TAACTAACCTGGATTG CCG	TCAAAAGCAGTATGTCT CGCA	59.6	286	INTERGENIC	--	--	--
Ca7_P2_9593254	Ca7	9593254	TA/TAA	CTCCTTGTTGGCAAATG GTT	GGTGTACCGGTTGTTA TGCC	60.1	586	INTERGENIC	--	--	--
Ca7_P2_9604404	Ca7	9604404	ATTTTTTT/ATTTTTTTTT	TGGTTGATGTTGGGAG AAGA	AGTCAGACACGAGGGG ATGT	59.6	506	INTRON	Ca_17295	I	FAR1

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9605724	Ca7	9605724	ATTTTTTT/ATTTTTTTTT	CCTTTATGGTTGTTGCG TTTT	CCACAATGTTTCACCTG GCTT	60.0	496	INTRON	Ca_17295	I	FAR1
Ca7_P2_9607851	Ca7	9607851	TGAGA/TGAGAGA	CCAGCTAATCTTGGGC ATGT	TACTTCGCATATGCTC GACG	60.0	589	INTRON	Ca_17295	I	FAR1
Ca7_P2_9611302	Ca7	9611302	TTGCTTGTGCTTGTGCTTGTGCTTGTG/ TTGCTTGTGCTTGTGCTTGTG	TCTCCACCAATCCAAC TCC	GCAAGAGATTGCCAG GAAG	60.0	529	CDS (large-effect mutations)	Ca_17294	GE	MYB
Ca7_P2_9616908	Ca7	9616908	GAACA/GAACAACA	AATTGGAAGCCATTGCA CTC	TCACTTGTGCCTATTGC TGG	59.9	221	INTRON	Ca_17294	GE	MYB
Ca7_P2_9620173	Ca7	9620173	ATT/ATTT	CCGAAGCCACTACAAT CCAT	CGACTGAACGTGTGGA AGCA	60.0	682	INTERGENIC	--	--	--
Ca7_P2_9621041	Ca7	9621041	TTT/TTTGTATTTATT	TGCTTCCAACAGTTCAG TCG	GAAAAAGTTTGTCTCAC ATACATTGAA	59.9	707	INTERGENIC	--	--	--
Ca7_P2_9624778	Ca7	9624778	GA/G	GAACAGCCAGTGCTTC TTCC	TGGGTCATGTTGGCAG TTTA	60.0	580	INTRON	Ca_17293	--	--
Ca7_P2_9626522	Ca7	9626522	CTGTGT/CTGT	AGGATTGGAAGCAAGC ATGA	CAACAGAGAAAGGGCC AAAA	60.2	196	INTRON	Ca_17293	--	--
Ca7_P2_9630468	Ca7	9630468	GAAAAA/GAAAA	TTGTCTTCTTCAGCGGT TCC	ATGCAACAACGTCATG GAAA	60.0	364	INTRON	Ca_17293	--	--
Ca7_P2_9636416	Ca7	9636416	C/CG	CCAGGAGTATGCATGT GGTG	CGACTGCTTGCTATCC TTCC	60.0	502	INTRON	Ca_17292	A	--
Ca7_P2_9639157	Ca7	9639157	T/TTA	ATTTACCAATTTCTGG CCC	AAATGGTGGGTAGCCT TCCT	59.8	123	INTRON	Ca_17292	A	--
Ca7_P2_9644462	Ca7	9644462	AGG/AGGG	AATAACAGTTGCTGTGC CCC	ACCCCATAAACACCGA ATCA	60.1	519	INTRON	Ca_17291	S	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca7_P2_9645390	Ca7	9645390	AG/A	AAGTTTGCATCGACGAT TTT	TGCAAATGATCCCTTCT TCA	59.2	621	INTERGENIC	--	--	--
Ca7_P2_9646602	Ca7	9646602	CTTACAGAT/CT	CCCATTGACTCCATCCA CTT	TTGGGTCACGTATGAA GGTG	59.4	569	INTERGENIC	--	--	--
Ca7_P2_9648140	Ca7	9648140	CA/CAA	CAAGTTCGTGCTTGCA T	TTCTACGGGTCGTATT GCC	60.0	694	INTERGENIC	--	--	--
Ca7_P2_9655480	Ca7	9655480	TA/TAA	GAGTTGGACTTGATGC ACGA	ACATAGGCAAAGCTAG GCGA	60.0	508	INTRON	Ca_17290	--	TALE
Ca7_P2_9663897	Ca7	9663897	TTATA/TTA	GGGCTCCTTTTATGG GAAA	TTCCAGCGTGAAATTG TTCC	60.1	903	INTRON	Ca_17290	--	TALE
Ca7_P2_9665800	Ca7	9665800	TA/T	CTGGGGTGGCAACATC TTAT	TTGCATAGCTCACAAC GGC	60.0	223	INTRON	Ca_17290	--	TALE
Ca7_P2_9666703	Ca7	9666703	AT/ATT	AGGCAAGCAGTGGAAA AGAA	GGAAGACATTGGGGGA AAAT	60.0	244	INTRON	Ca_17290	--	TALE
Ca7_P2_9668776	Ca7	9668776	GAA/GA	TAGATGGAAGTGGGCC AAAG	ACGGGCAAACTAATCC CTCT	60.0	468	DRR	Ca_17290	--	TALE
Ca7_P2_9672464	Ca7	9672464	TAAA/TAA	TAATGGAATGTGCGTGT GGT	ACTTGTGTCGCCATTT CCT	59.6	294	INTERGENIC	--	--	--
Ca7_P2_9676622	Ca7	9676622	CAA/CAAA	CCGTTAGGAAACTTGT GGGA	GGGACTGAGGCTCTTA GCAAA	58.4	113	INTERGENIC	--	--	--
Ca7_P2_9680323	Ca7	9680323	AATATATATATATA/AATATATATAT A	ACGGAAATCCAAAAGCA TTG	ATTCACCATGGAGCAA AAGG	59.9	582	INTERGENIC	--	--	--
Ca7_P2_9683772	Ca7	9683772	CT/CTTTT	TTTGCATGGTGGAGCA GTAG	GACGTTGATGCTGTTG GATG	60.1	597	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9687595	Ca7	9687595	TG/T	TTGTTTCGTCCTCACTCC CTC	TCGAGTGAGTGTTGC AAGG	60.0	480	INTRON	Ca_17288	U	--
Ca7_P2_9688486	Ca7	9688486	A/ATT	TGTCATTCTTGCCAAAC CAA	TGTTTGTGTGGGAGGG GTAT	60.1	529	INTRON	Ca_17288	U	--
Ca7_P2_9693674	Ca7	9693674	CATATAT/CATAT	TTCTGCTGAGCAATGT TGG	AAATCGCTTTGTTGG TGAG	60.1	619	DRR	Ca_17286	--	--
Ca7_P2_9694503	Ca7	9694503	TG/TGG	GGAATTTGGTCTGCT GATG	AGAACCCACCGTACGT CTTG	60.0	607	DRR	Ca_17287	F	--
Ca7_P2_9699894	Ca7	9699894	TA/T	AACCTCTATCCCCACAG CAC	CAAACACGTCGGATT GTAA	59.6	476	INTERGENIC	--	--	--
Ca7_P2_9700369	Ca7	9700369	ATCTCT/ATCTCTCT	TTACGAATCCGACGTGT TTG	AGAAAACCCCTTGTC AATC	57.9	425	INTERGENIC	--	--	--
Ca7_P2_9700935	Ca7	9700935	TAAAAA/TAAAAA	TGATTACAAAGGGGT TTTC	TCCAATGTGTGATTTCG GTG	60.4	733	INTERGENIC	--	--	--
Ca7_P2_9701171	Ca7	9701171	GAAAA/GAAA	CCCAACACACACACAC AAA	ATGCAATTGTTGACG TGAC	59.6	817	INTERGENIC	--	--	--
Ca7_P2_9705402	Ca7	9705402	GAAAAA/GAAAAA	TGGAGACATACAGTTAA GAAAAACA	CACATGTGCTGATTGC CATA	59.1	240	INTERGENIC	--	--	--
Ca7_P2_9709129	Ca7	9709129	AATATATATATATATAT/AATATATAT TATATATATATATATATAT	CTGGCCCATCAAAACA AAT	AAATGAGCTAAACCC GACA	59.6	188	INTERGENIC	--	--	--
Ca7_P2_9710850	Ca7	9710850	ACCCC/ACCC	TGAACCAAAATTGGAAC CCT	GAATTGTCACGATGG ATTG	59.9	595	INTERGENIC	--	--	--
Ca7_P2_9711096	Ca7	9711096	TG/TGG	CTGAACCAAAATTGGAAC CCC	ATAGGCATGCAATGAT GCAA	60.1	667	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9711254	Ca7	9711254	AATTT/A	CCCACTTGCATGCATCA CT	TGAATTGTGCACGATG GATT	59.9	503	INTERGENIC	--	--	--
Ca7_P2_9724755	Ca7	9724755	CTTTTTT/CTTTTTTT	CATCCTTGTGTTGCGTC CTA	TGCAAACGTCTCCTTC ATTG	59.8	565	DRR	Ca_17284	--	--
Ca7_P2_9725868	Ca7	9725868	TA/T	AAAAGCAAAATACAA TGCA	CAAAATGTTCCAGGATG TTGGC	60.4	536	INTERGENIC	--	--	--
Ca7_P2_9725945	Ca7	9725945	TAAATAATTA/TAAATAATTAATA ATTA	AAAAGCAAAATACAA TGCA	CAAAATGTTCCAGGATG TTGGC	60.4	536	INTERGENIC	--	--	--
Ca7_P2_9726813	Ca7	9726813	GTATTA/GTA	TGGTTGACCACTCATCA AAAA	TTTTGGGCTAGCATATT GCC	60.1	685	INTERGENIC	--	--	--
Ca7_P2_9729028	Ca7	9729028	ATTTTTTT/ATTTTTT	AGTTGGCATAGGGGTG AGTG	CGGCAAGGACCGAGAT ATAA	60.1	514	INTERGENIC	--	--	--
Ca7_P2_9731609	Ca7	9731609	CTTTTTTTTTTTTTTTTT/CTTTTTTTT T	ACAGCGGTCTCAGTCA GGAT	CCGGAACAAAAGGAC AAAA	59.9	474	INTERGENIC	--	--	--
Ca7_P2_9732491	Ca7	9732491	G/GA	TATTTTGCATCGTTCCC CTC	CAACATTGGACGATAA CCCC	60.1	283	INTERGENIC	--	--	--
Ca7_P2_9734095	Ca7	9734095	ATTT/ATT	ATGAGTTTTGGGGAGA AGCA	CATGTTTCCAGGAGG AAGA	60.0	721	INTERGENIC	--	--	--
Ca7_P2_9735074	Ca7	9735074	CAAA/CAA	TCGCTATTTCTTGGGGA TTG	ATGGAACACCATTGTA GGGA	60.2	167	INTERGENIC	--	--	--
Ca7_P2_9739619	Ca7	9739619	TTCTCTCTCT/TTCTCTCT	AAAAGGCGACAAAAGA AGCA	TTGTAGTGGCCGTGAT TTGA	60.1	346	INTRON	Ca_17283	--	S1Fa-like
Ca7_P2_9751193	Ca7	9751193	AATAT/AAT	TGGTCGATCTTGATCCC AAT	TTCCGTGATCTTGATTC CAA	59.0	581	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9751342	Ca7	9751342	AATTAAAAATTAAAAAT/AATTAAAAAT	ATATGTCAAGGGGTTTT GCG	AATGAGACAAAGCAAC CACG	58.8	437	INTERGENIC	--	--	--
Ca7_P2_9751957	Ca7	9751957	CTATATAT/CTATAT	ATACCCAGCCTTTTTC AGG	CCTGGGCTACATTTTC CGTA	60.0	316	INTERGENIC	--	--	--
Ca7_P2_9752897	Ca7	9752897	GTTT/GTTTT	CATTTACTCGCGTCCCA TTT	CAACGGGCACAAGATG TATG	60.0	582	INTERGENIC	--	--	--
Ca7_P2_9754093	Ca7	9754093	CTTTTTTT/CTTTTTTTTT	CAGGGTTTCGTATGGT TGCT	TTCAGTCGCAGTTGTG TGTG	59.5	325	INTERGENIC	--	--	--
Ca7_P2_9758068	Ca7	9758068	TCACA/TCACACA	AACGAAATGTTAATGAC CCGA	TAAAAATCGCGTCCCAT CTTC	60.0	467	INTERGENIC	--	--	--
Ca7_P2_9758269	Ca7	9758269	ATGTGT/ATGT	ACACAAACCCACTCTCT CGC	TAAAAATCGCGTCCCAT CTTC	60.0	360	INTRON	Ca_17282	R	NAC
Ca7_P2_9774600	Ca7	9774600	GGTT/G	GAAATCCACTTTTCAAA TGACG	GGAAGTCCACTTTTAA ATGACG	59.1	299	INTERGENIC	--	--	--
Ca7_P2_9798787	Ca7	9798787	TC/T	TGAAAATGCCTATTCTC CGC	TCTTCTCCACCGAGAG CAAT	60.0	712	INTERGENIC	--	--	--
Ca7_P2_9811958	Ca7	9811958	CT/CTTT	GAAAAGCTGCGCAAGG TAAC	AGTCAGGATAGCGGCG AGTA	60.0	763	INTRON	Ca_12746	S	--
Ca7_P2_9814026	Ca7	9814026	GT/GTT	GAGCACGACACAGCAT CACT	TTTGACAAACAGGCTC AACG	59.9	597	DRR	Ca_12746	S	--
Ca7_P2_9814381	Ca7	9814381	CTA/CTATA	TGCTTTATGGTTGCGTT GAG	TGACAAATTGTGATTG GTTGG	59.3	109	DRR	Ca_12746	S	--
Ca7_P2_9814956	Ca7	9814956	TAAAA/TAAAA	GAACGCAACCTTTAAAA ACGA	TGACTGTTCCAACACG GAAG	59.7	252	DRR	Ca_12746	S	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9818216	Ca7	9818216	A/ATTACT	TGATTACGTGTGAACA AACA	TTCAGAATATGCTGCAA AAATGA	59.7	270	INTERGENIC	--	--	--
Ca7_P2_9821392	Ca7	9821392	CCTCT/CCTCTCT	ATTGCTTCCGTTGATGT TCC	CATCCCCACAAACCCA TAAG	60.0	402	INTRON	Ca_12747	G	--
Ca7_P2_9823411	Ca7	9823411	AATATATATATATATATAT/AATATATA TATATATATATATAT	GTTCAAACCTCGTTGCC TCT	TGGCAACTATCCATAAT GAAGC	59.1	763	INTRON	Ca_12747	G	--
Ca7_P2_9823708	Ca7	9823708	TAAAAAA/TAAAAA	TCTGAAATGATCAAACG ACTCAA	GTTATGGCGTATGGAC CACC	60.1	404	INTRON	Ca_12747	G	--
Ca7_P2_9824368	Ca7	9824368	AG/ATGTTATATTATGTG	GGTGGTCCATACGCCA TAAC	GCATGTGCGAATTTGG AATA	59.5	610	INTRON	Ca_12747	G	--
Ca7_P2_9833553	Ca7	9833553	AC/A	ATTGAATGACCATCAAC GCA	GGAAAAGGAAAGGAAC GGAG	60.0	590	INTERGENIC	--	--	--
Ca7_P2_9841755	Ca7	9841755	CAAAAAAAAA/CAAAAAAAAAAAAA	TTGCAACCGGAATGGA TAAT	GCCCCGATACAGACTAA CCCA	60.0	717	DRR	Ca_12749	J	--
Ca7_P2_9842327	Ca7	9842327	CATTAT/CAT	GGGTAGTCTGTATCG GGCA	TTAGCATTTAATGGCCC TGC	60.1	426	DRR	Ca_12749	J	--
Ca7_P2_9842600	Ca7	9842600	CTCTCTTCTCTT/CTCTCTT	GCAGGGCCATTAAATG CTAA	TGTCCGTGTCGACAA AGTA	60.2	584	DRR	Ca_12749	J	--
Ca7_P2_9843413	Ca7	9843413	CT/CCTGATTAT	TGACAAGGGTGTTCAA CTGC	TGGCTTTGGAGGACTG AATC	60.2	532	INTERGENIC	--	--	--
Ca7_P2_9843838	Ca7	9843838	AA/AATAATA	TTGAAATTTCCGAAGA TGC	CAACTGCCTCCTATTTT TATTTTGA	59.9	304	INTERGENIC	--	--	--
Ca7_P2_9843850	Ca7	9843850	AT/A	TTGAAATTTCCGAAGA TGC	CAACTGCCTCCTATTTT TATTTTGA	59.9	304	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9844158	Ca7	9844158	TTTT/TTTTATTT	TTGAAATTTCCGAAGA TGC	GCAACGAGGCCTTAGA ACTG	60.0	787	INTERGENIC	--	--	--
Ca7_P2_9844646	Ca7	9844646	ATGTT/ATGTTGTT	GCAGTTCTAAGCCTC GTTG	CCCATCCACCTACGAA CATC	60.2	672	DRR	Ca_12750	JO	--
Ca7_P2_9845067	Ca7	9845067	AGCG/AG	TGTTTGGGACCATAG AAGG	CCCATCCACCTACGAA CATC	60.2	491	DRR	Ca_12750	JO	--
Ca7_P2_9860653	Ca7	9860653	TAAG/TAAGAAG	TGTGGGATTGATGACAT GCT	GAAATATGTTGCTGG CCTC	59.7	431	INTERGENIC	--	--	--
Ca7_P2_9863736	Ca7	9863736	CAAAA/CAA	TCATTAGTGAATAAGAC ACGTCAGC	TTTCTCCGTGTTGTGAA GGG	61.1	562	INTERGENIC	--	--	--
Ca7_P2_9867610	Ca7	9867610	CTT/CTTGTT	GCAACATCTTCTTCAGG GGA	TTTTGGTGGAGGAAGG AATG	59.9	615	CDS (large-effect mutations)	Ca_12752	R	C2H2
Ca7_P2_9867850	Ca7	9867850	TTCTCTCTCTCTCT/TTCTCTCTCTCTCT CT	CAACAACCCCTTTGGTT TGG	TTTTGGTGGAGGAAGG AATG	59.9	114	INTERGENIC	--	--	--
Ca7_P2_9868243	Ca7	9868243	TAA/TAAA	CATTCTCTCTCCACCA AAA	ACGCGTATACCACTTT GCC	60.0	568	INTERGENIC	--	--	--
Ca7_P2_9868295	Ca7	9868295	AAA/AAACATTAAATTA	CATTCTCTCTCCACCA AAA	ACGCGTATACCACTTT GCC	60.0	568	INTERGENIC	--	--	--
Ca7_P2_9869644	Ca7	9869644	TTA/T	AACAAAACGCTATCTT GGTGA	TGAAAATGGAACAGAT GGAAAA	59.4	535	INTERGENIC	--	--	--
Ca7_P2_9871296	Ca7	9871296	TTAAAAATAAAATTATAAAAAATAA/TT AAAAAATAA	AAAAGTAACCTTCACAA ACACGG	GATTGAGACACGGAGG AAAATC	59.9	894	INTERGENIC	--	--	--
Ca7_P2_9873971	Ca7	9873971	CTTTTT/CTTTTTTT	TTGCAACCAACCCAACC TAT	TGCAATGCAACATCAAT TTCT	59.2	295	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9887927	Ca7	9887927	CGTATT/C	GCTACCAACCACGAG AAGC	CCTCTCCCGCCTCTA ATAC	60.1	705	DRR	Ca_12754	--	--
Ca7_P2_9889610	Ca7	9889610	AACACACACA/AACACACACACA	CCGTCGAAAATTAACC ACA	AATAGCAACAACCCGC AAAC	60.0	516	INTERGENIC	--	--	--
Ca7_P2_9889685	Ca7	9889685	TCATTCACATTCACATT/TCATTCACATT CACATTCACATT	ATCCCTTCTTCTTCCT CCA	AATAGCAACAACCCGC AAAC	60.0	375	INTERGENIC	--	--	--
Ca7_P2_9927302	Ca7	9927302	CTT/CT	TATCACTAACCGCACAC CCA	TGGTTGAAAATAGTACA AGCCG	59.2	525	INTERGENIC	--	--	--
Ca7_P2_9927723	Ca7	9927723	GAA/GAAA	CGAGAGATAATTCTCTG GCTG	AGGCCAATGAAAGGAT TG TG	59.9	958	INTERGENIC	--	--	--
Ca7_P2_9927784	Ca7	9927784	ATTT/ATTTT	CGGCTTGACTATTTTC AACCA	AGGCCAATGAAAGGAT TG TG	59.9	556	INTERGENIC	--	--	--
Ca7_P2_9927993	Ca7	9927993	GAATAAAATAAAATAAAATAAAAT/ GAATAAAATAAAATAAAATAAAAT AAAAATAAAAT	GACGTGGGTATTTGTC GGAT	AGGCCAATGAAAGGAT TG TG	59.9	327	INTERGENIC	--	--	--
Ca7_P2_9929759	Ca7	9929759	TGGTTTTAG/TGGTTTTAGGTTTTAG	TAGAATGGTAGCGATT GGG	ACCAGAGTTCCTCCCTG AGTT	60.0	177	INTRON	Ca_12758	GQ	--
Ca7_P2_9931392	Ca7	9931392	ATTTTT/ATTTTTT	AAATGGATGTGATGCCT GTG	TGGCTTAAATGATTGC GATG	59.7	741	DRR	Ca_12758	GQ	--
Ca7_P2_9941741	Ca7	9941741	TCC/TC	ACGAAGATGGAGCGAA AAGA	AAAGTGAGAAGAATGT CGGTCA	58.8	688	INTERGENIC	--	--	--
Ca7_P2_9949873	Ca7	9949873	AAAAATAAAATAAAATAAAATAAAAT TAAAAA	TTGCATCTTGCTGGCTC TAA	ACTCCTTTGTGGTGAC GGAG	60.2	546	INTRON	Ca_12760	--	--
Ca7_P2_9951065	Ca7	9951065	AATA/AA	ACGTGGCTTTTTCGTAT TGG	TTTCAACAAAAATCACT TGCG	58.9	796	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9951105	Ca7	9951105	ATTTTTTT/ATTTTT	ACGTGGCTTTTTCGAT TGG	TTTCAACAAAATCACT TGCG	58.9	796	INTERGENIC	--	--	--
Ca7_P2_9951203	Ca7	9951203	GAAAAA/GAAAAAAA	AATTGCTTGTCTCCGAT TGC	TCTTTTGGCATGTGTAT TGGA	59.0	865	INTERGENIC	--	--	--
Ca7_P2_9954301	Ca7	9954301	GGT/G	GTGCAACATAACCACGT CCA	AAAATCGGTATGGTGA AAATCG	60.1	213	INTERGENIC	--	--	--
Ca7_P2_9957231	Ca7	9957231	ATTTTT/ATTTTTTT	TTTTGAATCCCCACGT GAT	GGACAAAATGTTCTG CAGATT	59.5	799	INTERGENIC	--	--	--
Ca7_P2_9960561	Ca7	9960561	TTCTGAAA/T	GGTTGAAGCACGGGA AATA	GGTTGGTTGAGTGGT CTTG	59.5	359	INTRON	Ca_12761	GMW	ERF
Ca7_P2_9963974	Ca7	9963974	GTCT/GTCTCT	TTGACTGATTCATCGTT GGC	AATGGCAAGTTGGCAG TAGC	60.3	407	DRR	Ca_12762	K	MYB
Ca7_P2_9967617	Ca7	9967617	ATTTTTTT/ATTTTTTTTT	TCAATGTAATGTTGGT CGCA	GAATGCGCCAATACGT TTCT	60.1	576	DRR	Ca_12763	--	MYB
Ca7_P2_9968032	Ca7	9968032	TTAAATATAAAT/TTAAATATAAATATAAA T	GCGGGAGTTTCCTCAA CTAA	GTGCTGCTTCTCTGGG TTTC	60.0	822	DRR	Ca_12763	--	MYB
Ca7_P2_9971708	Ca7	9971708	TACCACCACCACCAC/TACCACCACCAC	AGAACATAATCCTGCCA CCG	TTGTAAAGCTCTCGGC GTTT	60.0	468	CDS (large-effect mutations)	Ca_12763	--	MYB
Ca7_P2_9975017	Ca7	9975017	TGG/TG	ACTTTCCATCACCAACG AGG	CGGGGTTAAGCATCA ACTA	60.0	688	INTERGENIC	--	--	--
Ca7_P2_9977315	Ca7	9977315	AA/AACA	CGATAAATTTTAAAG AGCACGA	TTTTTGTTAAATATGTG TCCCGAA	59.7	264	INTERGENIC	--	--	--
Ca7_P2_9977980	Ca7	9977980	TAAAAAA/TAAAAAAA	GAGTTAAATTTTAAAA CACCCGA	TCCATCTCTTGATTGAG TGGG	60.1	740	DRR	Ca_12764	E	TALE

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P2_9978347	Ca7	9978347	GT/GTCAT	TCATTGATACATAAA CAACATGAAA	TCCATCTCTTGATTGAG TGGG	60.1	483	DRR	Ca_12764	E	TALE
Ca7_P2_9978875	Ca7	9978875	AATATATATA/AATATA	CCCACTCAATCAAGAGA TGG	AACACCATTTTTCTCGT GGG	59.8	879	DRR	Ca_12764	E	TALE
Ca7_P2_9980550	Ca7	9980550	GCAAGCGAATCAAGC/GCAAGC	TCAACCAAGCTTGCAAT GAC	ATAGACACAAATTGCC CCCA	60.2	815	INTRON	Ca_12764	E	TALE
Ca7_P2_9992899	Ca7	9992899	ACCCCC/ACCCC	GATTTGTGGATGCTTT GGT	GGGGTTTGTGTGAAAT TTTTG	58.4	406	INTERGENIC	--	--	--
Ca7_P2_9997389	Ca7	9997389	ATCTCTCT/ATCTCTCTCT	GTTTCTAACCAGCGCTT TCG	AACCTCAAGGCCAAGG AAAT	59.9	757	INTERGENIC	--	--	--
Ca8_P2_10097154	Ca8	10097154	TAAAAAAAAA/TAAAAAAAAA	CAACTTTTGGGAAAGCT GATG	AAGTTCGCGTCTGTTG AAAA	58.6	807	INTERGENIC	--	--	--
Ca8_P2_10131288	Ca8	10131288	AAACCCTAACCCCTAACCCCTAA/ AAACCCTAACCCCTAACCCCTAA CCCTAACCCCTAA	AACAGAACACGATCGAA CCC	GCTGAAACCTCGTCTG GAAG	60.0	407	CDS (large-effect mutations)	Ca_18409	L	--
Ca8_P2_10161190	Ca8	10161190	GAAAAAAAAA/GAAAAAAAAA	GCAGATGTGCTCATTG CTTT	GCTCCAGCCCAACTA TTTT	60.5	554	INTERGENIC	--	--	--
Ca8_P2_10301817	Ca8	10301817	TTAATAATAATAATAA/TTAATAATAA TAATAA	ACTGGGGAAGTTGGCT TTTT	ACGAGGTGTCAGATTT TGCC	60.1	689	DRR	Ca_18422	R	Trihelix
Ca8_P2_10357104	Ca8	10357104	ATTTT/ATTTT	AATGTTACCTTGCAGGA CCG	TGAGTGACCGAGCTGA CAAC	60.0	763	INTERGENIC	--	--	--
Ca8_P2_10366674	Ca8	10366674	CTT/CT	CAAGAAGACGCCGATG AAAT	GTCGAACGTTCTCCGT TTGT	60.2	571	INTERGENIC	--	--	--
Ca8_P2_10366831	Ca8	10366831	GTTTT/GTTT	CCCTCAACAAAAATGC ACC	GTCGAACGTTCTCCGT TTGT	60.2	400	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_103795	Ca8	103795	GACTAC/GACTACTAC	ACTGTCTCGGTCCCAT CATC	TTGCAAACAATTGAA GCACT	59.8	213	INTERGENIC	--	--	--
Ca8_P2_10407759	Ca8	10407759	T/TTAAA	AAGGATGATTGCTGG GATG	AAGGATTGACGAATGG ATGG	59.8	723	DRR	Ca_18431	--	--
Ca8_P2_1045768	Ca8	1045768	TGAGAGAGAGAGAGAGAGAGAGAGAG AG/TGAGAGAGAGAGAGAGAGAGAGAG AGAGAG	AGCCTTCTCTCCAAAGC CTC	CGGCGGAAGTGATTCT TAAA	60.2	530	INTERGENIC	--	--	--
Ca8_P2_104807	Ca8	104807	TTATATATATATATATATAT/TTATATA TATATATATATAT	AACCACTAAATCGCATT GCTC	CGGGAAAGAAAAAGAT AAAGGA	58.8	278	INTERGENIC	--	--	--
Ca8_P2_10484577	Ca8	10484577	GCCC/GCC	TGAGGAGTATCCATGT GGCA	GAGTTCGGAAGTGAGC CAAG	60.0	939	INTERGENIC	--	--	--
Ca8_P2_10501824	Ca8	10501824	AT/A	AAGAGAGGTCACTTTG GCGA	AGGTTTGAAATGTTTT GCG	60.0	308	INTERGENIC	--	--	--
Ca8_P2_1050452	Ca8	1050452	GTT/GTTT	AAAGCCGAGAAAATAG GGGA	TTGAGGCTGAATTGA AGGG	60.2	273	DRR	Ca_15081	--	--
Ca8_P2_10509590	Ca8	10509590	GA/GAA	GCCATGTCAACCGAAG AGAT	ATGCCAAGCGTTTCAC TTTT	59.8	596	DRR	Ca_18435	--	--
Ca8_P2_10590161	Ca8	10590161	ATTTTTT/ATTTTTTT	AACGGAGGAGGAACAA ACAC	TTAGAAGGCCTTGCAT ACGA	58.5	212	INTERGENIC	--	--	--
Ca8_P2_10591114	Ca8	10591114	AAA/AAAGAA	TCCCGAGCATATCAACA TCA	TGTGGGAGTTTGTCTT GCAG	59.9	555	INTERGENIC	--	--	--
Ca8_P2_10612849	Ca8	10612849	CTTTT/CTTT	AGTGGGAGTTTCGTCC ATTG	AGCACATGGAACCAAA GAGG	60.1	299	INTERGENIC	--	--	--
Ca8_P2_10684139	Ca8	10684139	TAAAA/TAAA	AAAAAGAAAGGAACGG TCATAAA	AAAGTCCACTCTGCAAT ATGATCT	58.4	403	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca8_P2_10686546	Ca8	10686546	ATTTT/ATTT	TGCTATCGGTACCAATT TTGC	TCCGTTGTCTCATTGCA TCA	60.2	628	INTERGENIC	--	--	--
Ca8_P2_10699320	Ca8	10699320	AGAACGA/AGA	GAGAAGAACAAATCTG CATTGAA	AGGTCAGCCAAAAAGG CTTA	59.0	378	INTERGENIC	--	--	--
Ca8_P2_10701972	Ca8	10701972	ATGTT/AT	TCAACGGTTATACGGC AACA	TTTTATCTATGAAAAAT GCCTCACA	59.1	373	INTERGENIC	--	--	--
Ca8_P2_10712240	Ca8	10712240	ATTTTTTTT/ATTTTTTTT	ATAGGAGTGGCCATAC GCAC	TCAATTCACGAAATTTG TCTCTTA	58.0	735	INTERGENIC	--	--	--
Ca8_P2_10712545	Ca8	10712545	CTATATATATATATATATATAT/CTA TATATATATATATATATAT	CCACCCCAATCACTAC CAC	TGATCTCGCTGGTGAT TGAA	60.4	738	INTERGENIC	--	--	--
Ca8_P2_10727907	Ca8	10727907	GAAAA/GAAAA	GGTAGGCATTGGAGCA TTGT	CATCTTTGCAGCATG GCTA	60.0	581	INTERGENIC	--	--	--
Ca8_P2_1079907	Ca8	1079907	AC/A	ATTAGGTAGCCATGAG CCCC	TTCTCAGATTGGCATG CTG	59.9	638	INTRON	Ca_15076	CR	NAC
Ca8_P2_1080030	Ca8	1080030	TAAAAAAAAAAAA/TAAAAAAAAA	ACATGATTGCAAAAAG CCC	AAGGTATCCAAACACA GCGG	60.0	457	INTRON	Ca_15076	CR	NAC
Ca8_P2_10827028	Ca8	10827028	TT/TTATTATTAT	CATTCCCAACCCATTA TGC	TGAAGGGTAAAAATT GGGTCA	60.5	674	DRR	Ca_19734	--	--
Ca8_P2_10904276	Ca8	10904276	ATTTTTTTT/ATTTTTTTT	GGGCCATTGTTGAAG AAAA	CCGAAGAAATCTTTGAT TGATTG	60.0	479	INTERGENIC	--	--	--
Ca8_P2_10908869	Ca8	10908869	GTTTTTTT/GTTTTTTT	TTATTCCACCCCTTT TCC	GTCCTCTGAGCGATG CTAC	60.0	274	INTRON	Ca_19742	R	--
Ca8_P2_10934374	Ca8	10934374	AT/ATT	TCCGATTCATCCTCTTG GTC	AATGAAAAAGCGGGGA AACT	59.9	368	DRR	Ca_19747	R	NAC

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca8_P2_1095351	Ca8	1095351	TATAATAATAATAATAATAATAATA TAATAATAATAATAATAATAGTAATA ATAATA/TATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATAATAATAGTAATAATAATA	TGTCCTTCGCAAATAGT TGATG	CCATCTATGCTGCGAG ACCT	60.4	934	INTERGENIC	--	--	--
Ca8_P2_10973766	Ca8	10973766	TATA/TATAATAATAAAAAAATA	CGGACGTATGCATCAA ATTG	GGAAGTGTGCTGATGTA CGTT	60.3	387	INTERGENIC	--	--	--
Ca8_P2_11019474	Ca8	11019474	TTATATATATATATATATATATATAT TATATATATATATATATATATATATAT	CGTCGCACGGATACAA AATA	AAAGAGTGGTGCAGGA GTGC	60.4	234	INTERGENIC	--	--	--
Ca8_P2_11060712	Ca8	11060712	AGAACGTT/AGAACGTTGAACGTT	TGTCGAAGTTAGAGGA AGCCA	GGCCATAATTGGAGGT CTGA	59.9	643	INTERGENIC	--	--	--
Ca8_P2_11066722	Ca8	11066722	ATT/AT	ATGGTTCTCCTTTCTGG CCT	ATTATTGCGCCAAAAAT TCG	59.9	249	INTRON	Ca_16843	R	B3
Ca8_P2_11067460	Ca8	11067460	C/CAAAAAATG	CGCAATATATGGGGCT ATGC	CCTAATTCTGCTTGGT GGGA	59.9	433	INTRON	Ca_16843	R	B3
Ca8_P2_11070760	Ca8	11070760	AG/A	GCTTCTAGCTGGTGCT GCTT	AGGGAATCAATTGTAG GGGG	60.0	900	INTERGENIC	--	--	--
Ca8_P2_11073236	Ca8	11073236	TTGTGTGT/TTGTGT	CTGGTTCTAATTGTGGC TGC	CTGAAAACAGGAAAT GGTGC	59.6	466	INTERGENIC	--	--	--
Ca8_P2_11083907	Ca8	11083907	TAAAAA/TAAAAA	ACTCAAACCATCCCA TGA	GTCCAATGCACATCGA ATCA	60.5	880	INTERGENIC	--	--	--
Ca8_P2_11085162	Ca8	11085162	C/CTATATA	GGGCCACGTTTCTAATT CAA	TTCCATGATTCCATCCA TCA	59.7	766	INTERGENIC	--	--	--
Ca8_P2_11088448	Ca8	11088448	CTATATATA/CTATATA	TGGTGCTCTTTCAAATC CAA	GATTGCATGCACATAT TTGGT	59.7	417	INTERGENIC	--	--	--
Ca8_P2_11089013	Ca8	11089013	AAAGATAA/AAAGATAAGATAA	TGCATGCAATCACTAAA AATGA	TGAGACACATGATTG GTGGA	60.0	480	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_11108114	Ca8	11108114	TAAAAAAAAA/TAAAAAAAAA	TGCCTTGCATGAAATC AGA	CGACATCTAAAATTGA ACCG	60.7	764	INTERGENIC	--	--	--
Ca8_P2_11109240	Ca8	11109240	TAAAAAAAAA/TAAAAAAAAA	ATATGCATGGAATTGGC GTT	TCCGAAGCAACAATATA TGCC	59.9	895	INTERGENIC	--	--	--
Ca8_P2_11111233	Ca8	11111233	TAAAAAAAAA/TAAAAAAAAA	AATTTTGTGGTGCATGG GTT	CCTCACCGCCGTTATA CACT	60.0	863	INTERGENIC	--	--	--
Ca8_P2_11112333	Ca8	11112333	ATTTTTTTTT/ATTTTTTTTT	GACTTGATTGTGTGGAA GAATATAGC	TTGCGAATTCATTGGGA TCA	60.0	267	INTERGENIC	--	--	--
Ca8_P2_11113946	Ca8	11113946	GA/GAATA	CCAGAAAACGAAACCA AACA	TTTGATTTTGAGGCAGA GCA	59.5	480	INTERGENIC	--	--	--
Ca8_P2_11114905	Ca8	11114905	GTT/GT	TTCTAAACACCATCTTA ATCGAATTG	GGGGAAAATTTAGGGG TGAA	60.0	353	INTERGENIC	--	--	--
Ca8_P2_11118254	Ca8	11118254	TTGT/TT	TTGTCTCGTGCATGT TTC	TGCCAGCATCTGAAAA CAAG	60.0	617	INTRON	Ca_16841	J	--
Ca8_P2_11135207	Ca8	11135207	TAAAAA/TAAAAA	CAGCACAACTGAAGTC CCAA	TTCTACCCACCAACGA CACA	60.0	638	INTERGENIC	--	--	--
Ca8_P2_11136187	Ca8	11136187	ATTTTTTTTTTT/ATTTTTTTTTT	AATTTTGGGTGAATTCG GTG	TGACAACCGTGAATGA ATCAA	60.0	802	INTERGENIC	--	--	--
Ca8_P2_11136675	Ca8	11136675	ATTTTT/ATTTTT	TTGATTCATTACGGTT GTCA	CGCTGTTGTGAGTTGG TCAC	60.4	545	INTERGENIC	--	--	--
Ca8_P2_11142412	Ca8	11142412	ATTTTTTT/ATTTTTTTTT	TGCTACCAATCGCTACA ACG	CCCTATTCAATCCCCCA TTT	59.8	488	INTERGENIC	--	--	--
Ca8_P2_11144283	Ca8	11144283	AAT/ATTTAATCAT	TTGCCATGCCTACTTAA GGG	AATGACATTGAATCCC CGA	60.1	292	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_11145618	Ca8	11145618	TTTATTA/TTTATTATTA	TCTTTCTGGTTGCAAT TGTTTT	CATGCTTTAAAGAGCC AATGC	59.9	758	INTERGENIC	--	--	--
Ca8_P2_11145831	Ca8	11145831	TCC/TC	TCTTTCTGGTTGCAAT TGTTTT	AAATTGAAGCAAACGG AACC	59.1	980	INTERGENIC	--	--	--
Ca8_P2_11146284	Ca8	11146284	TGTGTCTTAGGT/TGT	TGTGATTGAGGCACTAT CAAGC	CCGGGTGAAATGGTTA TTTG	60.0	280	INTERGENIC	--	--	--
Ca8_P2_11146309	Ca8	11146309	ATTTTTTTTTT/ATTTTTTTTT	TGGTTTGCTGGAATTGT GTG	CCGGGTGAAATGGTTA TTTG	60.0	167	INTERGENIC	--	--	--
Ca8_P2_11146772	Ca8	11146772	TAAA/TAAAA	TAACTGTGCGCTATTC GTG	TGCAAATAATTCCTCAT CATTTTT	59.0	329	INTERGENIC	--	--	--
Ca8_P2_11151402	Ca8	11151402	AGACTG/A	TCCGAAAATAGCGAA ACAC	TTGAGGAACCTGGTCA TAAAGGA	60.0	936	INTERGENIC	--	--	--
Ca8_P2_11151543	Ca8	11151543	GAAAAAA/GAAAAAA	TCCTATTGCGCTATGT TGA	TTGAGCATCGTGTGG AGAG	60.0	805	INTERGENIC	--	--	--
Ca8_P2_11154260	Ca8	11154260	ATTTTTTTTT/ATTTTTTTTT	CTCATCTCCCAAGAAC CAA	TGTCAAACTACAAGCTT AAAAATCCA	60.4	193	INTERGENIC	--	--	--
Ca8_P2_11164084	Ca8	11164084	CTTTTTTTTT/CTTTTTTTTT	TGATCATAATGGTGTG GCCT	CATTCCAAACCAAGG CAGT	60.0	289	INTERGENIC	--	--	--
Ca8_P2_11178863	Ca8	11178863	GAAAAAAAAA/GAAAAAAAA	TCCCCATTGGTCCATT ATC	CGACCTCCAAGTAGGT CCAA	60.1	857	INTERGENIC	--	--	--
Ca8_P2_11183687	Ca8	11183687	CTTTTT/CTTTTT	TATCCAAAGGCATTTC TCG	AAATGGCAGGTGAAAT GAGC	60.1	254	INTERGENIC	--	--	--
Ca8_P2_11192463	Ca8	11192463	TAAAAA/TAAAAA	TTGCCAAATCAACACAA ACAA	GCTTAGGGACTAATGC GTGG	59.7	667	DRR	Ca_16839	R	MYB

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_11193555	Ca8	11193555	A/AATT	TAGCCGTAATGTTTG GGG	ATTGTGATCACCTTCG CACA	60.1	523	INTERGENIC	--	--	--
Ca8_P2_11206549	Ca8	11206549	GT/GTCTATTTAT	GGTTTTTCACITTCGGT GGA	TTTGCCTGACCTGACA TTTTT	59.6	464	INTERGENIC	--	--	--
Ca8_P2_11212615	Ca8	11212615	TT/TTTTATCCCTCT	TTCTCTCCTCGATTTCG TCC	TTCGCACGTGATTTTT GGA	60.1	715	INTERGENIC	--	--	--
Ca8_P2_11356172	Ca8	11356172	GT/GTT	TTGCGTGATTGTGTTC GTT	TCACCTATCACGGGTC AACA	60.0	771	INTRON	Ca_16822	G	NAC
Ca8_P2_11424558	Ca8	11424558	ATTTTTTTTTTT/ATTTTTTTTTT	TTGATGTTACCAAAAGC CCA	GGAGCATAGTCAGTCA GGGC	59.8	390	INTERGENIC	--	--	--
Ca8_P2_11495794	Ca8	11495794	TATAATAATAATAATAATAATAA TAAATAATAATAATAATAATAATA ATAATAATAAT/TAATAATAATAATA ATAATAATAATAATAATAATAATA AATAATAATAATAATAATAATAAT	CAAACCTGTTTGGGACA AAACTC	AAATGAGTTGAATCATG GACACA	59.4	234	INTERGENIC	--	--	--
Ca8_P2_11536014	Ca8	11536014	GATATATATATATATATATATAT ATATAT/GATATATATATATATATAT ATATATATATATATATATATATATA T	GCCTCCAATTTTGGAA GTCT	AAAACAATTTGGATGC GAAAA	59.5	796	DRR	Ca_16812	R	MYB
Ca8_P2_11536143	Ca8	11536143	CATTATTATTATTATT/CATTATTATT ATTATTATTATT	TCTTACACTGCAGCAAT AAAAATCA	TGGTTGATGCCCAAGT ACAA	60.0	576	DRR	Ca_16812	R	MYB
Ca8_P2_11545234	Ca8	11545234	CTAATAATAATAATAATAATAAAT /CTAATAATAATAATAATAATAATA TAAT	CTGGTCATTACCCGCA CCT	TTGTTTCTGTCCATTTC CCC	59.8	125	CDS (large-effect mutations)	Ca_16811	--	--
Ca8_P2_11546931	Ca8	11546931	T/TCG	GCCATGTTTCAGTCTTG GTCA	ACTCCACCATGCTTG CTTT	59.7	247	INTRON	Ca_16811	--	--
Ca8_P2_11548331	Ca8	11548331	AATATATATATAT/AATATATATATA TAT	TGGCAAATTTGTGATGA AGTG	GTCCAACAGCAAGTGA AGCA	60.0	298	INTRON	Ca_16811	--	--
Ca8_P2_11550728	Ca8	11550728	TATA/TATATATACATA	TTGGACAGAGCCACCA TTTT	AAAGGGGAGTCGAACC AAAT	59.8	602	DRR	Ca_16811	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_1155325	Ca8	1155325	CTATTATTATTATTATTATTATTATT ATTAT/CTATTATTATTATTATTATTAT TTATTATTATTAT	GCAAAGGAGACAGAA GGGA	CGCTAGGCTCAATTT CCTG	60.0	608	CDS (large-effect mutations)	Ca_15064	--	ERF
Ca8_P2_11557672	Ca8	11557672	GAAAAAAAA/GAAAAAAAA	TTTCCCGACTTGGTCCT TTA	ATCATCGCTGAGGCAA AACT	59.8	537	INTERGENIC	--	--	--
Ca8_P2_11600236	Ca8	11600236	TCC/TC	AGGGGAGTTTGTACC AGGC	GGACATCCTCTCCAT CTGA	60.0	580	INTRON	Ca_16810	IR	Dof
Ca8_P2_1181922	Ca8	1181922	TGACATCAATAATGAGAGATGA	ACCGCACCTCATTTATT TGC	CGACTTCTGAAGGAA CGAA	60.4	631	DRR	Ca_15062	O	GeBP
Ca8_P2_11836016	Ca8	11836016	CATATATATATATATATATATATAT ATATATATATA/CATATATATATATATA TATATATATATATATATATATATA	TTGGATCGTTGAATGTT TGA	TTTTGGAGCTCAATTGT TTCA	58.4	793	DRR	Ca_16793	--	--
Ca8_P2_1184414	Ca8	1184414	GAAAAAAAA/GAAAAAAAA	TTCGTACCGTTCTCTCC TCAA	TTGTACACAACTCCCTT GCG	59.8	563	INTERGENIC	--	--	--
Ca8_P2_11875776	Ca8	11875776	ATCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTC/ATCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTC	GTCACACTCTTGGCC ACCT	TTTAGGCCCAAATCATC AGC	60.0	483	INTERGENIC	--	--	--
Ca8_P2_11946471	Ca8	11946471	CTTTTTTT/CTTTTTTTT	AAATGCGAACTTACATG GCA	TTCCCATGAATCTGCT CTC	60.2	785	INTERGENIC	--	--	--
Ca8_P2_11955442	Ca8	11955442	T/TG	GGCCGATTACTGCTC ACAT	GTTGCCACTTGGCGTA AAAT	60.0	430	INTERGENIC	--	--	--
Ca8_P2_11955491	Ca8	11955491	AAATAA/AAA	GGCCGATTACTGCTC ACAT	GTTGCCACTTGGCGTA AAAT	60.0	430	INTERGENIC	--	--	--
Ca8_P2_11955768	Ca8	11955768	CTAATAATAA/CTAATAA	CTAATGCCCCCAACTA CAT	TTGTTTGGTGAAGGCT CTTG	58.9	307	INTERGENIC	--	--	--
Ca8_P2_11975713	Ca8	11975713	CT/C	TATACTCGTGCACTACG CGG	GGATGGAGACAATGAT GAGGA	59.9	135	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_11975949	Ca8	11975949	AATTTATGTGTAGATGTATTAT/AATTT ATGTGTAGATGTATTATGTGTAGATGT ATTTAT	TATACTCGTGCACTACG CGG	TTGTTGGGTGAACTT AATCG	59.8	663	INTERGENIC	--	--	--
Ca8_P2_11976112	Ca8	11976112	AATAT/AAT	TATACTCGTGCACTACG CGG	TTGTTGGGTGAACTT AATCG	59.8	663	INTERGENIC	--	--	--
Ca8_P2_11976190	Ca8	11976190	TA/T	CACTACGCGGTTAGC ATCT	TTGTTGGGTGAACTT AATCG	59.8	653	INTERGENIC	--	--	--
Ca8_P2_12006788	Ca8	12006788	AATTATTATTATTATTATT/AATTATT ATTATTATTATT	GGAAGCGCAAGTAAGC AAAA	CGAGATTGATGCGAGA TTGA	59.9	722	INTRON	Ca_23846	T	--
Ca8_P2_12009850	Ca8	12009850	CTTTTT/CTTTTT	AGTGGGATCAACAATCT GCC	TCCGAGGTGGGACTTC TATG	60.1	141	INTRON	Ca_23846	T	--
Ca8_P2_12016131	Ca8	12016131	ACCCC/ACCCCC	CAACTCTCGTCGCAACT CAA	ATGCAACTTGGGAATT GGAG	59.9	362	INTRON	Ca_23846	T	--
Ca8_P2_12046116	Ca8	12046116	GTTTTTTTT/GTTTTTTTT	GTAGTTCGATCCTGCAT GGG	TGGATAACTGCAATTTG GGC	60.8	327	INTERGENIC	--	--	--
Ca8_P2_12048312	Ca8	12048312	TA/TCATGGATCCTACA	TTCCCCCTAAAACAGAA CCA	TGGAAGAAGGTGGGAA AGAA	59.6	269	INTERGENIC	--	--	--
Ca8_P2_12048375	Ca8	12048375	ACC/ACCC	TTCCCCCTAAAACAGAA CCA	GTTGTTGCTGCCCTTT GTTT	60.2	723	INTERGENIC	--	--	--
Ca8_P2_12048403	Ca8	12048403	CTTTT/CTTTT	TTCTTTCCACCTTCTT CCA	GTTGTTGCTGCCCTTT GTTT	60.2	474	INTERGENIC	--	--	--
Ca8_P2_12072367	Ca8	12072367	GAAAAAAAA/GAAAAAAAAA	TGGAGAGTTGTGATG TCCC	ACGGGCATCTTGATCT TCTG	60.2	782	INTERGENIC	--	--	--
Ca8_P2_12079750	Ca8	12079750	GAA/GAAA	TGCACAGAACTCTCCA AAGG	AAAATGGCGGTAGAAG AGCA	59.8	733	DRR	Ca_23851	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_12827689	Ca8	12827689	AGGGG/AGGG	GTTTACCATCGTCCACC ACC	TGGTTAGAATCTGAAC GCCA	59.3	782	INTERGENIC	--	--	--
Ca8_P2_12833148	Ca8	12833148	ATATGT/AT	TCTTGCCGATAAAGGG TTTG	TGATCATTTGCATTGTT CGAC	59.5	472	INTERGENIC	--	--	--
Ca8_P2_12875580	Ca8	12875580	T/TGAGATG	TGTATGATCGATCTGG GCAA	TGCATGTGCCTTCTGA AATG	60.8	731	INTERGENIC	--	--	--
Ca8_P2_12926455	Ca8	12926455	AC/A	TTCAATGGTCTCCTCAT CCC	CTGAGTGCAGTGTGTTT TGGA	59.8	508	INTERGENIC	--	--	--
Ca8_P2_12979016	Ca8	12979016	C/CG	ATATGTTGGGGGTGAT GGAA	GGGGTCGGACATTTAC TAGC	58.5	921	INTERGENIC	--	--	--
Ca8_P2_12979079	Ca8	12979079	TTTA/TTTAATTA	CGTGCAGTTTAGGGA GGAT	GGGGTCGGACATTTAC TAGC	58.5	873	INTERGENIC	--	--	--
Ca8_P2_12980984	Ca8	12980984	TC/T	ATCCACTGCAAACTCC ACC	GAAAAATGATGCAAGA GACAAGAA	59.8	659	INTERGENIC	--	--	--
Ca8_P2_12983474	Ca8	12983474	ATTTTT/ATTTT	TGCAGATGCACGAATC TCTT	TGCACTAATTTATCGG GACCA	60.3	496	INTERGENIC	--	--	--
Ca8_P2_12983910	Ca8	12983910	TAA/TA	TTGGTCCCATAAATTA GTGC	GCCCAAGTTAAGACAA CCCA	60.0	442	INTERGENIC	--	--	--
Ca8_P2_12984097	Ca8	12984097	CGTGTG/CGTGT	AGTGTTAACCGGATC AAACA	GCCCAAGTTAAGACAA CCCA	60.0	301	INTERGENIC	--	--	--
Ca8_P2_12989617	Ca8	12989617	CAAAAAAAAA/CAAAAAAAAAAAAA	AAGGTCAAGGAACCCC TCAT	TGGGCACAATTTATTAG CCA	59.0	646	INTERGENIC	--	--	--
Ca8_P2_12989971	Ca8	12989971	A/AG	TGGCTAATAAATTGTGC CCAT	TCATGTCCCCTCCTTG AATC	59.9	552	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_12990010	Ca8	12990010	CTA/CTATA	TGGCTAATAAATTGTGC CCAT	TCATGTCCCCTCCTTG AATC	59.9	552	INTERGENIC	--	--	--
Ca8_P2_12998724	Ca8	12998724	ATTTTTTTT/ATTTTTTTTTT	TCACACCTCTTCACTTT CATGG	CAAAGTTGTTGGGCAA GGTT	60.0	138	INTERGENIC	--	--	--
Ca8_P2_13033176	Ca8	13033176	CATTA/C	ACAAGAACACCTTTCCG TGC	TTAACGTGGAAGTGAT GCGA	60.3	525	INTRON	Ca_20097	--	bHLH
Ca8_P2_13182553	Ca8	13182553	ATTTT/ATTT	GCATGATTGCTCTGTCC AAA	TTAGCTATGGATTGGG CTGC	60.2	780	INTERGENIC	--	--	--
Ca8_P2_13257981	Ca8	13257981	AT/ATTCCTT	GGACTACTCAAAAATCG AACGG	AACATGGGTTGCTTTT GCA	60.4	756	INTERGENIC	--	--	--
Ca8_P2_13297997	Ca8	13297997	TA/TAA	AAATTGATTGGATGGTG GGA	AAATGCAGAGGCACCA CTCT	59.9	442	INTERGENIC	--	--	--
Ca8_P2_13338881	Ca8	13338881	ATTTTTTT/ATTTTTTTTT	TGTGAGGTACCGAGTT CCAA	TTATAACGGGTGGAAA CGGA	60.2	689	INTERGENIC	--	--	--
Ca8_P2_1342981	Ca8	1342981	CAAAA/CAAAAA	CCTCTAGGAAACCATCA ACATCA	CCTTGCCACCTCATCT CATT	60.1	423	INTERGENIC	--	--	--
Ca8_P2_1343227	Ca8	1343227	AAAAGAAAGAAAGAAA/AAAAGAAAGAA AGAAAGAAA	TGAGAAATTAAGCTTGT GGGG	CCTTGCCACCTCATCT CATT	60.1	206	INTERGENIC	--	--	--
Ca8_P2_13476730	Ca8	13476730	AA/AAGA	GATGTTCCAGCTCTCTT GGC	TGGGAAATCGATTAAG CCTG	60.0	504	DRR	Ca_20118	--	--
Ca8_P2_1347851	Ca8	1347851	CAAAAAAAAA/CAAAAAAAAAA	CCAACATTTGATTGGCA TTG	TTCTTTTAAATTGCCGT CGTTT	60.0	735	INTERGENIC	--	--	--
Ca8_P2_1350628	Ca8	1350628	TA/TCAA	CCACCAGAACCAACCC CTTA	ATGTGTTGGGTGGGTT CACT	60.1	270	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_13702114	Ca8	13702114	A/AT	GGTCATTCTATTCCG TTG	TGGAGAACTCTCCG CTGT	60.0	318	INTERGENIC	--	--	--
Ca8_P2_13719839	Ca8	13719839	TAAAAAAAA/TAAAAAA	TCTCTTGAGGTTCTTA TGGTGG	CGTTGTTTTCCAAAC CTAA	59.1	579	INTERGENIC	--	--	--
Ca8_P2_13751083	Ca8	13751083	CATATATATATATATATATATATGT ATATATATATATATATATATATATA TAT/CATATATATATATATATATATA TATGTATATATATATATATATATAT ATATATAT	GATGGAGGGAGAACGT GAAA	CATCTGACCATTGAAT GCG	60.1	293	INTERGENIC	--	--	--
Ca8_P2_1375481	Ca8	1375481	T/TATATATAA	TTCCGAATTTCTTCTT TGTGAA	TAGTTGCGGTTGTGT GTGG	60.6	328	DRR	Ca_15036	O	TCP
Ca8_P2_13757181	Ca8	13757181	ACCCCCC/ACCCCCC	AATTCAGCTCCTACGAG GCA	GCATTTTGGGCATTT GATT	59.8	326	INTERGENIC	--	--	--
Ca8_P2_1375726	Ca8	1375726	TAAA/TAAA	CCACAACACAACCGCA ACTA	AGACCAACTCCACCTT GAGC	59.3	257	DRR	Ca_15036	O	TCP
Ca8_P2_13767395	Ca8	13767395	ATTTTTTTTT/ATTTTTTTTTT	GGCAACGAATGTGGTC TTCT	GTATGGTTTGGTGGG TCTG	60.1	753	INTERGENIC	--	--	--
Ca8_P2_13774	Ca8	13774	CAAAAA/CAAAA	CGAGGCACAACATCAT CATC	TGGTGCTTCAATGAAC TTGG	59.7	616	INTERGENIC	--	--	--
Ca8_P2_13776463	Ca8	13776463	GTT/GT	TACGGTGCTAGGGAAC CAAC	TAATGGTTTTCACGCCA ACA	60.0	534	INTERGENIC	--	--	--
Ca8_P2_13799860	Ca8	13799860	CG/CGGAGAAGTG	GCTTGGAACAGCCTC AGAC	CGGTGCAAACTCTACG TTCA	59.9	402	INTERGENIC	--	--	--
Ca8_P2_13814987	Ca8	13814987	GATAAATAAATAAATAAAT/GATAA ATAAATAAATAAATAAATAAATAA TAAAT	CACAATTGCCACCAACA CTC	TTTTTGCCACCATTTTC ACA	59.9	220	INTERGENIC	--	--	--
Ca8_P2_13822126	Ca8	13822126	TG/TGG	TTGAATATGTGTAATG CACGAA	TCATACATGACGACTC CCCA	59.9	882	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14073516	Ca8	14073516	A/AT	TTCCTTCTCAACCAAC GGC	GAAGTTGATGAACCG TCGT	60.0	578	INTERGENIC	--	--	--
Ca8_P2_14074282	Ca8	14074282	CCGCG/CCG	AAACAAAATCCACCGCA CTC	TAGGTTCCAAAGGTGC CAAC	60.0	606	CDS (FRAME SHIFT)	Ca_22744	U	--
Ca8_P2_14076848	Ca8	14076848	CTT/CTTGCTATTTTT	CCCAGGCCTATAGTGG TGAA	ACCGGGGATGACATAT CAAA	60.0	491	CDS (large-effect mutations)	Ca_22744	U	--
Ca8_P2_14077202	Ca8	14077202	GA/GTGGATAA	TTGATATGTCATCCCC GTT	TTCTTTCCACCCTTCT TCC	60.4	696	DRR	Ca_22744	U	--
Ca8_P2_14077330	Ca8	14077330	TAGAGAAAAGAAGAGAAA/TAGAGAAA	TTGATATGTCATCCCC GTT	TTCTTTCCACCCTTCT TCC	60.4	696	DRR	Ca_22744	U	--
Ca8_P2_14077398	Ca8	14077398	GA/GAAA	TTGATATGTCATCCCC GTT	AGCTGCATCTCCACG ATTT	59.8	940	DRR	Ca_22744	U	--
Ca8_P2_14101191	Ca8	14101191	TAATAATAATAACAACAA/TAA	TGCCAGTACAATGGAC CAGA	AAGCTTCGGCTATGCA GGTA	60.0	635	INTRON	Ca_13049	A	--
Ca8_P2_14103907	Ca8	14103907	TGAAGAAGAAGAA/TGAAGAAGAAGAA GAA	TAAATCTTTTGTGCGC GCT	ATTTTAGGGTGAGGG ATGG	60.0	402	INTERGENIC	--	--	--
Ca8_P2_14106737	Ca8	14106737	AATATATATATA/AATATATATATATAT A	GTTGCAGGAACGAAGA GGAG	TCCGTTAGTAAAAAGAA TGATGACC	59.0	725	INTERGENIC	--	--	--
Ca8_P2_14111238	Ca8	14111238	C/CA	TGAACGGTTGGTCACC ATAA	CACCCCAACCATCAAT TCT	59.6	419	INTERGENIC	--	--	--
Ca8_P2_14111879	Ca8	14111879	GTTAATT/GTT	GGATTTGATGATCGATT CGG	CAACCAGCAGTAGACG CAAA	60.1	796	INTERGENIC	--	--	--
Ca8_P2_14113684	Ca8	14113684	TAAAAA/TAAAAA	AACACGCCTCACACCA CATA	CCAATTCACAAAATCG GTCC	60.2	447	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14121334	Ca8	14121334	ATAATATTAATATTAATTAATA/ATAAT ATTAATATTAATATTAATATTAATA	AAGCTGAGGCCAAGAC AAAA	TCGTCAGGAATCAAAG ACCA	59.2	280	INTRON	Ca_13048	--	GRAS
Ca8_P2_14121923	Ca8	14121923	GAAAAAAAA/GAAAAAAAAA	TGGTCTTGATTCTGA CGA	GCTTTTGTGAGTCCA CTTGC	59.9	690	INTRON	Ca_13048	--	GRAS
Ca8_P2_14121974	Ca8	14121974	AATATATA/AATATA	TGTTTTGTAAACGAGGC GATT	GCTTTTGTGAGTCCA CTTGC	59.9	465	INTRON	Ca_13048	--	GRAS
Ca8_P2_14127063	Ca8	14127063	A/AC	TCCAACGAAACACAGC ACAG	TGGCCTTCTCTGGAGA TTTG	60.3	154	INTRON	Ca_13047	T	B3
Ca8_P2_14128254	Ca8	14128254	AATA/AATATA	CAGAAGCACGCACCAC TAAT	GAGGTCCGGTTTCAAA ACAA	59.9	755	INTRON	Ca_13047	T	B3
Ca8_P2_14128687	Ca8	14128687	CAA/CA	TTGTTTTGAAACCGGAC CTC	GAGGATGAATGGGTTG TGCT	59.9	537	INTRON	Ca_13047	T	B3
Ca8_P2_14130339	Ca8	14130339	CATATA/CATA	TTGTCGTTCAATGCTTT TTCA	TTGGACAACGAGCTCA CAAC	59.9	240	INTERGENIC	--	--	--
Ca8_P2_14131243	Ca8	14131243	GATAT/GATATAT	CCGTTTGAAAAATGTTG GCT	TTGGACAAGTTGAGTC GGTG	59.7	705	INTERGENIC	--	--	--
Ca8_P2_14139709	Ca8	14139709	TAAAAAAAA/TAAAAAAAAA	GGAGTGTCTCCCAATT CCA	CCGATCAAGATGACAG CAAG	59.4	369	INTERGENIC	--	--	--
Ca8_P2_14143789	Ca8	14143789	ATGATTT/ATGATTTGATTT	TGGATGGAAGTGATGG GAAT	TTTTCTTAGTTGCCAT AAACACC	58.7	462	DRR	Ca_13045	--	--
Ca8_P2_14144491	Ca8	14144491	TAAAAAAAA/TAAAAAAAAA	CATTCTTCTAACAGAT GCATTAACAA	TCGTGTTTCTTGCTTT GACC	60.3	677	DRR	Ca_13045	--	--
Ca8_P2_14159846	Ca8	14159846	AATATA/AATATATA	AAATGCAAAACATCAATG CCA	GAAATTAAGAGGGAG GGAGGA	59.9	290	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14163137	Ca8	14163137	ATTTTT/ATTTTTT	CTTTCAAACGACCTGC CAT	TTTTCATTTTCGCCTT TGA	58.4	586	INTERGENIC	--	--	--
Ca8_P2_14165620	Ca8	14165620	AAATTAA/AAATTAATTAA	TTTTCCGACTTGGTCC TTT	TGGGGGTATTGACAGG TGTT	60.1	752	INTERGENIC	--	--	--
Ca8_P2_14167694	Ca8	14167694	TAGCAAA/TA	ACCATCAGTTCAACCCC AAT	TGCACATTGGGCCTAT ACAA	60.0	405	INTERGENIC	--	--	--
Ca8_P2_14169396	Ca8	14169396	TTTCTTCTC/TTTCTTC	TTGGGGGTTACATGTT CTGA	CAACAATTAGGCCTCAT CCA	58.6	698	INTERGENIC	--	--	--
Ca8_P2_14190951	Ca8	14190951	GTTTTTTTTT/GTTTTTTTTT	GTTGGAAGGAATCCC CATT	TGACATATGCCATGTG GGTT	59.7	621	DRR	Ca_13042	S	--
Ca8_P2_14218237	Ca8	14218237	A/AT	TCTCCACAAATGCAAGG AAA	AAGCCTGGCCCACTA ATTT	60.0	465	INTERGENIC	--	--	--
Ca8_P2_14219203	Ca8	14219203	GTTTTTTTTT/GTTTTTTTTTTT	CATTAAGAGTCAGCCG GGTT	ATGCAAGCTTCTCACC ACAA	59.4	707	INTERGENIC	--	--	--
Ca8_P2_14220964	Ca8	14220964	TAAAAAAAA/TAAAAAAAA	TGGTTGAACTTTTGCCA TCA	TCCTTTCCAGAGGTTT CCA	59.6	847	INTERGENIC	--	--	--
Ca8_P2_14222158	Ca8	14222158	CTGTGT/CT	TGATTCTTCGTGCTCTT TCG	CTTCAAGTTTGACCACT TCTGG	58.9	526	INTERGENIC	--	--	--
Ca8_P2_14231465	Ca8	14231465	T/TATA	TGCGTTTATTTCTTGTT GGTT	AATGGTACTCCCTCCA TCCC	60.0	701	INTERGENIC	--	--	--
Ca8_P2_14238334	Ca8	14238334	AT/A	AGGGTTGGAATCCATAT GTCA	TGGCTCGTGAAGAAAA ACAA	59.4	713	INTERGENIC	--	--	--
Ca8_P2_14238943	Ca8	14238943	TAAAAAAAA/TAAAAAAAA	ACTTGCGAATTCAAAG CAT	ACAGATTACGATCCGT GGCT	59.6	719	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14239315	Ca8	14239315	AAT/AATCAATTAT	TGCTACTAACATTGATT TGAATGA	ACAGATTACGATCCGT GGCT	59.6	244	INTERGENIC	--	--	--
Ca8_P2_14239496	Ca8	14239496	A/AT	GGAATATTAGCCACGG ATCG	CAGCTCCCTAACCTAAT GCG	59.9	535	INTERGENIC	--	--	--
Ca8_P2_14244027	Ca8	14244027	CAA/CAAA	TGTGTGAGTTGATGTC CCAA	ACAGCTTGAATTGGCT GGTT	59.7	533	DRR	Ca_13040	K	G2-like
Ca8_P2_14244514	Ca8	14244514	CAAA/CAA	ATCTTAAGCATCCCCCT CGT	TCAATGGTGTCCATCC CTTT	60.2	670	INTERGENIC	--	--	--
Ca8_P2_14244924	Ca8	14244924	GA/GAAAA	AAAGGGATGGACACCA TTGA	CCTTTGGCTTAGCATTT AGGG	60.1	456	INTERGENIC	--	--	--
Ca8_P2_14245101	Ca8	14245101	TAAAAAA/TAAAAAA	AAAGGGATGGACACCA TTGA	AGCAGAGTGAAACAG GGGA	59.8	786	INTERGENIC	--	--	--
Ca8_P2_14245478	Ca8	14245478	GTAT/GTATCTCAACTTAT	CCCTAAATGCTAAGCCA AAGG	GATGTAGCGGTCGAGA GAGG	60.0	510	INTERGENIC	--	--	--
Ca8_P2_14250642	Ca8	14250642	GAAAAAAA/GAAAAAA	TGTCGTTTTGGTGCAAC ATT	TCTTCAACACTTGCTCG CAG	60.3	642	INTERGENIC	--	--	--
Ca8_P2_14252510	Ca8	14252510	C/CG	AATCTATATGCACGCC GAC	CGCAACATTTGCATAAC TGC	60.3	547	INTRON	Ca_13038	--	--
Ca8_P2_14261406	Ca8	14261406	ATTTTTTTT/ATTTTTTTTT	TGGAGATTGTGGATT GCAG	GATTCAACATCCCATTT GATT	59.9	592	INTERGENIC	--	--	--
Ca8_P2_14262685	Ca8	14262685	ATTTTTT/ATTTTTTT	GGATTGTGGCTTGAAG TGGT	CAAAGGTAGCAAGGCC CATA	60.1	642	INTERGENIC	--	--	--
Ca8_P2_14264326	Ca8	14264326	GATATATATA/GATATATA	GTTGGTTGGATTGATT GGG	TGAAACCCACGCACAT TAAA	60.0	406	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanched scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14264402	Ca8	14264402	ATTT/ATTTT	GTTGGTTGGATTGATT GGG	TGAAACCCACGCACAT TAAA	60.0	406	INTERGENIC	--	--	--
Ca8_P2_14264501	Ca8	14264501	TAGAGAGAGA/TAGAGAGA	GTTGGTTGGATTGATT GGG	TGAAACCCACGCACAT TAAA	60.0	406	INTERGENIC	--	--	--
Ca8_P2_14264664	Ca8	14264664	C/CAA	TTGGTTGGATTGATTG GGT	GGCAACTAAGTTTCTC GTTTGG	60.2	572	INTERGENIC	--	--	--
Ca8_P2_14266771	Ca8	14266771	CGATATG/CG	TCTTCAGGAATTGGGT TGG	CGCATCTATTTGCAAT TCAC	60.6	298	INTERGENIC	--	--	--
Ca8_P2_14266837	Ca8	14266837	GTTTTTTT/GTTTTTTT	TCTTCAGGAATTGGGT TGG	CGCATCTATTTGCAAT TCAC	60.6	298	INTERGENIC	--	--	--
Ca8_P2_14266973	Ca8	14266973	T/TTTA	CTTCAGGAATTGGGT GGA	TGCAATGTTTGATTTTC CCA	59.9	813	INTERGENIC	--	--	--
Ca8_P2_14268301	Ca8	14268301	CAATT/C	TGAATTGTGCATCAC CAA	CATTCCCTTTTCCCAA CAA	59.8	774	INTERGENIC	--	--	--
Ca8_P2_14268880	Ca8	14268880	CT/CTAT	CGCACTCAAACACTTC CAA	CGATACCAACTTGCCA CAAA	59.6	400	INTERGENIC	--	--	--
Ca8_P2_14269021	Ca8	14269021	T/TC	AGCATGGTACGTGCTC TGTG	AGCATACGGTGAACAA TGCC	60.9	302	INTERGENIC	--	--	--
Ca8_P2_14269079	Ca8	14269079	TAA/TA	AGCATGGTACGTGCTC TGTG	AGCATACGGTGAACAA TGCC	60.9	302	INTERGENIC	--	--	--
Ca8_P2_14270687	Ca8	14270687	AC/A	TGAAAGATGGTGCGAT TGTC	TGTGGCATCTGGTGAT CAGT	60.1	623	INTERGENIC	--	--	--
Ca8_P2_14271316	Ca8	14271316	GA/G	TGATCACCAGATGCCA CAAT	GAAGTGGAGCATTCTT TTGC	59.8	661	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14279876	Ca8	14279876	AGTGTGTGTGTGTGTG/AGTGTGTG TGTGTGTGTGTGTG	CATGTGCACTTGGTT GACT	AATTTACAGTTGGGAC CGCA	60.4	725	DRR	Ca_13036	S	--
Ca8_P2_14284909	Ca8	14284909	TC/T	TCTCAATCCGATTCTG CAA	AAAGTGTGATCGGATG TCCA	58.9	345	INTERGENIC	--	--	--
Ca8_P2_14284984	Ca8	14284984	GAAAAA/GAAAAAA	TGGACATCCGATCACA CTTT	TCAAATGTTTTTCGTTG AATCG	60.0	301	INTERGENIC	--	--	--
Ca8_P2_14285184	Ca8	14285184	AT/ATCAAATT	TGGACATCCGATCACA CTTT	ATGGACAAAACCGCA ATTA	60.2	758	INTERGENIC	--	--	--
Ca8_P2_14286620	Ca8	14286620	CTTTTGTATTTTGTATTTTG/CTTTTG ATTTTGTATTTTGTATTTTG	AACATCTCATTACCCG ACA	AACACCGATGGTATCG CTTC	60.0	405	INTRON	Ca_13035	--	--
Ca8_P2_14287044	Ca8	14287044	ACC/AC	CGATGAGGAAGCGATA CCAT	CCCACCAAAACAAAC CACT	59.7	807	DRR	Ca_13035	--	--
Ca8_P2_14287691	Ca8	14287691	CTTTATCTTTTATCTTTTAT/CTTTATC TTTTTAT	AGTGGTTTTGTTTTGTT GGG	GGTTGGCAAAGACTGT GGTT	60.0	467	DRR	Ca_13035	--	--
Ca8_P2_14290310	Ca8	14290310	AATA/AATATA	TACTCCATTTGGTGTG GCA	CGATGTGGACATGAGA TTGAA	59.5	519	INTERGENIC	--	--	--
Ca8_P2_14292294	Ca8	14292294	TTATAT/TTAT	ACGTTGTAAAGTGGA AGGC	TCGATCAAGATTCTGT TCAA	58.4	136	INTERGENIC	--	--	--
Ca8_P2_14302503	Ca8	14302503	AG/A	CCTAACACCTCACAAC CCC	CGTCTTTGACCAAAATT AAAAA	59.1	842	INTERGENIC	--	--	--
Ca8_P2_14305656	Ca8	14305656	TAAAAA/TAAAAA	CCTCCATAAGCCTCTG CATC	TTGGCATTGTTTGCAC ATT	60.0	383	INTERGENIC	--	--	--
Ca8_P2_14305750	Ca8	14305750	ACAAATGCCAAATGC/ACAAATGC	CCTCCATAAGCCTCTG CATC	CCATGCATCGAATTCAA ACT	58.6	416	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14306794	Ca8	14306794	ATT/AT	TATTGAACCTGGGGAG GCTG	CCCTTTAAATGTGGCA AAAA	57.7	839	INTERGENIC	--	--	--
Ca8_P2_14307818	Ca8	14307818	CTTTT/CTTTTT	CATGGGCAGCAACAA GTAA	GAGGACCAATGAAGC AAAA	60.1	819	INTERGENIC	--	--	--
Ca8_P2_14312144	Ca8	14312144	TAAAAAAAAA/TAAAAAAAAA	CATGATATATCTTTGCG GGTGA	TTCATATTTATCGGTGC CAAAA	59.3	407	INTERGENIC	--	--	--
Ca8_P2_14314024	Ca8	14314024	ATATATTATATTATAT/ATATATTATAT	TCAATGTATTAGTGGTC TCAATTCAA	TGTGGAAATTTTGTGAT GGG	59.2	922	INTERGENIC	--	--	--
Ca8_P2_14319629	Ca8	14319629	CAAAAA/CAAAAAA	CCTTGATGCACCATGCT AGA	GTCATTTTCGGTGCAAT GTG	60.0	257	INTERGENIC	--	--	--
Ca8_P2_14319897	Ca8	14319897	CATT/CATTAATTTTAAATATT	CACATTGCACCGAAAT GAC	AAATAAATGCCCATC GACA	60.2	352	INTERGENIC	--	--	--
Ca8_P2_14330287	Ca8	14330287	CG/C	CGTCCCTTCAATTCAT TTCA	GACCCAAATTGTGGGA CATA	58.1	832	DRR	Ca_13031	--	--
Ca8_P2_14331411	Ca8	14331411	CTTTTT/CTTTTTTT	AGGGACCAAACTGGG AAAA	ACTACTGACGTCGGGA TTCG	60.1	448	DRR	Ca_13031	--	--
Ca8_P2_14338834	Ca8	14338834	AT/A	AAAGAGGAAGAAGAGA GAGAACCA	TTTTTAAGACCGGTG ACAT	57.2	635	DRR	Ca_13030	T	bHLH
Ca8_P2_14344394	Ca8	14344394	ATTTT/ATTT	AGCCATGTGACTCCCT CATT	TTTGTGACCAAAAGTT ACGGA	59.5	794	INTRON	Ca_13030	T	bHLH
Ca8_P2_14344611	Ca8	14344611	TAAAAA/TAAAAA	TTGAACAAGTGTCTAAG GGCA	GTTGAGCTGGGAGTTG GAAA	60.2	538	INTRON	Ca_13030	T	bHLH
Ca8_P2_14345216	Ca8	14345216	G/GAAATT	CTTTTCCAACCTCCAGC TCA	TTGTGGGTCATTGTTG ATGC	60.4	690	INTRON	Ca_13030	T	bHLH

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14345244	Ca8	14345244	GAAAAATGAAAAATGAAA/GAAAAATGAAA AATGAAAAATGAAAAATGAAA	TTTCCAACCTCCAGCTC AAC	GCAAGGTCGTGGAGAA ACAT	60.1	726	INTRON	Ca_13030	T	bHLH
Ca8_P2_14349048	Ca8	14349048	TAAAAAAAAA/TAAAAAAAAA	GATTTTGGATGAAGGA GGCA	TCTTAACGAACTGCG CATA	57.2	663	DRR	Ca_13029	--	--
Ca8_P2_14355037	Ca8	14355037	CTTT/CT	TTTGAGGGTTAGGTGG TTCG	TGGGAAAATAGTCTCC TTCATGT	59.0	369	INTERGENIC	--	--	--
Ca8_P2_14362355	Ca8	14362355	ATATTATTATTATT/ATATTATTATT	ATCTTTCGTCGCAATTC ACC	TGACAGAGATTAGGAT TGAAAGGA	59.3	506	INTERGENIC	--	--	--
Ca8_P2_14362865	Ca8	14362865	TAAAAAAA/TAAAAAAA	TCCTTTCAATCCTAATC TCTGTCA	AACGAAATATTAGGGG CGCT	60.0	419	INTERGENIC	--	--	--
Ca8_P2_14363844	Ca8	14363844	CTATATA/CTATA	GTTGCCACTTGACCTTG GAT	TGGACTTCATCCAAAA GGG	59.9	351	INTERGENIC	--	--	--
Ca8_P2_14364887	Ca8	14364887	AA/AATA	TGGAAGTGTGTGTGGT TTGA	TCATGACCCAACTATG GCCT	60.3	568	INTERGENIC	--	--	--
Ca8_P2_14364952	Ca8	14364952	AACTA/AA	AAGGGTTTGTGCTTGAT TGG	TCATGACCCAACTATG GCCT	60.3	521	INTERGENIC	--	--	--
Ca8_P2_14365858	Ca8	14365858	A/AC	CCAGCCCAACAGGAA TTTA	CCTTTGTTCTGCACCC ATT	60.0	476	INTERGENIC	--	--	--
Ca8_P2_14366815	Ca8	14366815	ATTTTTTT/ATTTTTTTT	CATCCTACTACCACTCTA TCCCC	GGGTCATATAGCGCTT GCAT	60.1	621	INTERGENIC	--	--	--
Ca8_P2_14367410	Ca8	14367410	TC/T	ATGCAAGCGCTATATGA CCC	TGTTGATGTGCTGGAA AACC	59.5	419	INTERGENIC	--	--	--
Ca8_P2_14370547	Ca8	14370547	TAA/TAAAAA	GGCCAATCAATTTTGA TGC	TGGGAGATTGGAGCAT GATT	60.4	590	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14370711	Ca8	14370711	A/AAAT	GGCCAATCAATTTTGA TGC	TGGGAGATTGGAGCAT GATT	60.4	590	INTERGENIC	--	--	--
Ca8_P2_14371157	Ca8	14371157	A/AAAT	CATGCTCCAATCTCCCA TCT	AACCCGTCAACCTGTT CTTG	60.0	591	INTERGENIC	--	--	--
Ca8_P2_14373850	Ca8	14373850	AGAAAATGAAAATGAAAA/AGAAAATGA AAATGAAAATGAAAATGAAAA	GGAAATTTGGCGTGTG ACTT	GTTTCGTTGTTGTGGC AATG	60.0	373	INTERGENIC	--	--	--
Ca8_P2_14404073	Ca8	14404073	GTTTTTTTTT/GTTTTTTTTT	AGATGTGTGATTGGGC CTTC	CCACTCCCTTTGTAGC ATCA	58.7	597	INTERGENIC	--	--	--
Ca8_P2_14408424	Ca8	14408424	AT/A	GTTTTGCCACCCCTACA CAC	GTCCCGTGAAGACTTT CAGC	59.9	684	INTERGENIC	--	--	--
Ca8_P2_14474732	Ca8	14474732	AATATATATATATATATATATA/AATAT ATATATATATATATATATATA	TAGGGTGTGCGGTTA CTTC	TCTTAATTTTCGTGCG CTG	59.1	770	INTERGENIC	--	--	--
Ca8_P2_14516248	Ca8	14516248	GNNNNNNNNN/GNNNNNNN	GGCAAAACATTATCCG TTT	ATCTTTGGCTTCTCTG CAA	60.0	679	INTERGENIC	--	--	--
Ca8_P2_14567835	Ca8	14567835	GAAAAAAA/GAAAAAAA	TGACAACAAACAAAGAG CATGA	CGTTGCGCGGAATATG TA	59.2	316	INTERGENIC	--	--	--
Ca8_P2_14568462	Ca8	14568462	TATATAT/TATATATAGATATAGATAT AT	TTGCACCATGTTTGTTA TTCAA	GGCAAAGGGTTTTGTC AATC	61.7	198	INTERGENIC	--	--	--
Ca8_P2_14573426	Ca8	14573426	CTTTTTTTTT/CTTTTTTTTTT	GATTTTTGGTGCAAG GAA	TTACAAAGATGGCACC CACA	60.0	535	DRR	Ca_13010	--	--
Ca8_P2_14580122	Ca8	14580122	GAAAAAAA/GAAAAAAA	TCCAAATCCAAGACCTC CAC	TTTGAATGATGCAGCT GAGG	59.9	499	INTRON	Ca_13009	Z	MYB_related
Ca8_P2_14583559	Ca8	14583559	AATTT/A	GTTGAAATACGCCGCT CAAT	TCCTAAATCACCCATCT CGG	59.9	399	INTRON	Ca_13009	Z	MYB_related

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14585608	Ca8	14585608	CTTTTTTT/CTTTTTT	TCCACCACAAAGCACAA AGT	ATGCGAAAGCGACAAT CAAT	60.6	159	INTERGENIC	--	--	--
Ca8_P2_14585667	Ca8	14585667	TAAAAAA/TAAAAAAA	TCCACCACAAAGCACAA AGT	ATGATGGTTTTAGGCG ATGC	59.9	541	INTERGENIC	--	--	--
Ca8_P2_14585757	Ca8	14585757	ATTTTTTT/ATTTTTT	TGAATTGATTGTCGCTT TCG	ATGATGGTTTTAGGCG ATGC	59.9	405	INTERGENIC	--	--	--
Ca8_P2_14586379	Ca8	14586379	TG/TGG	ATGCATCGCCTAAAAC ATC	GACACATGACAAGCAC CCAC	60.0	663	INTERGENIC	--	--	--
Ca8_P2_14601652	Ca8	14601652	ATGTCT/A	CAACACGTGGTATTGG TTGG	CAGCTTATTTCCACAAG CCC	59.7	751	INTRON	Ca_13007	C	--
Ca8_P2_14603641	Ca8	14603641	GCA/GCACTATACCA	AATGCCGTTAAGTTGAT GGG	CGTATTGCGGAACAAC AATG	60.0	268	DRR	Ca_13007	C	--
Ca8_P2_14603917	Ca8	14603917	TA/T	CATTGTTGTTCCGCAAT ACG	TAAACTTCCCTGCAC GAGG	60.2	310	DRR	Ca_13007	C	--
Ca8_P2_14610943	Ca8	14610943	CG/CGGTTTGAG	GGCGGTCCTCCTTAA AATC	ATTCAGCCACATTTAAC CGC	60.0	477	INTRON	Ca_13006	K	C3H
Ca8_P2_14612383	Ca8	14612383	CAAA/CAAAA	TTCGTGATGGGTTTGT TGA	CCAAAACACAAAGCTG AGCA	60.0	671	INTRON	Ca_13006	K	C3H
Ca8_P2_14613573	Ca8	14613573	ATTTTTT/ATTTTTT	CGTGGTGACATCAAC TTGG	CCAATCCCTCAGACCA GAAA	60.0	144	INTRON	Ca_13006	K	C3H
Ca8_P2_14617610	Ca8	14617610	CATTTAT/CATTTATTTAT	GCTCCAACCGTAAAC CAAA	TGCAGGGAGAAGAGG GAGTA	59.9	670	INTERGENIC	--	--	--
Ca8_P2_14620238	Ca8	14620238	GCATCTACTGTTGACATC/GCATC	TTCGATTCATGGGATT GGT	TTGCGAGTTGTAATGC CAAG	59.9	496	INTRON	Ca_13005	U	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14623218	Ca8	14623218	CTTTTTTTTTTT/CTTTTTTTTTTT	CAGCAGCAACTTTTGG ATGA	TGCTGCTGCTATTCCTT TGA	59.7	531	INTRON	Ca_13005	U	--
Ca8_P2_14624601	Ca8	14624601	ATTTTTTTT/ATTTTTTTTTT	CCCCCACCATTACATT CAC	TGTTGGAAGTGTTGAC GCAC	60.8	692	DRR	Ca_13005	U	--
Ca8_P2_14625324	Ca8	14625324	TC/T	GCGTCAACACTTCCAAC ACA	TAAGGACTGGACGTAA CCCG	60.0	682	DRR	Ca_13005	U	--
Ca8_P2_14625350	Ca8	14625350	CTTTTTTTT/CTTTTTTTTTT	AAACTGGGTTTCGTTGG AGTG	TAAGGACTGGACGTAA CCCG	60.0	276	DRR	Ca_13005	U	--
Ca8_P2_14630745	Ca8	14630745	ATTTTTTTT/ATTTTTTTT	GCGTTTTCCAGAAGTG CTTC	AGATTGACTGGTTGGT TCGC	60.1	594	INTERGENIC	--	--	--
Ca8_P2_14630970	Ca8	14630970	TAAAAAAA/TAAAAAAA	GCGAACCAACAGTCA ATCT	TCGTTTGGAGGAATTTT AAACC	59.4	594	INTERGENIC	--	--	--
Ca8_P2_14631294	Ca8	14631294	TAAAAAAA/TAAAAAAA	GCGAACCAACAGTCA ATCT	TGAAAAGGGAGTGGA TTGG	59.9	869	INTERGENIC	--	--	--
Ca8_P2_14632629	Ca8	14632629	AATTATAGTATT/AATT	ACCATTGTGGCTGTTTG ACA	AGCCCAAATGAAATG GAGA	59.5	521	INTRON	Ca_13004	--	--
Ca8_P2_14636006	Ca8	14636006	CTGGAT/CT	TTTGCAGGAAGCAACA CTG	GGATAATCCGGGATGC CTAT	60.0	587	INTRON	Ca_13004	--	--
Ca8_P2_14637006	Ca8	14637006	GATA/GA	TTTACAGATGCTGGCGT GTC	TCTGCATTCCCATGTTT CAA	60.0	432	INTRON	Ca_13004	--	--
Ca8_P2_14643292	Ca8	14643292	TCCC/TCCCC	AGCAAATCTTGAAGG GACG	CAATGGGAGTTTGTGG TGTG	59.8	638	DRR	Ca_13004	--	--
Ca8_P2_14643624	Ca8	14643624	CAAAAAA/CAAAAAAAA	AGCAAATCTTGAAGG GACG	CAATGGGAGTTTGTGG TGTG	59.8	638	DRR	Ca_13004	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14644248	Ca8	14644248	AT/ATT	CACACCACAACTCCCA TTG	CACTAAGAACATGGGT GGGG	60.2	843	INTERGENIC	--	--	--
Ca8_P2_14645260	Ca8	14645260	TACA/TA	TTTGAGAATCAATGTCA TATCCG	AACCACATAAGGTGATT CGAAAA	59.8	503	INTERGENIC	--	--	--
Ca8_P2_14645402	Ca8	14645402	A/AAATAATTATAAAT	TTTGAGAATCAATGTCA TATCCG	GGACCCTAAGCATTTCT GTGC	59.7	568	INTERGENIC	--	--	--
Ca8_P2_14646610	Ca8	14646610	AG/A	CCCGTCACATCCCACTT ATT	CTTTTCCACACAGCTG CAA	60.0	496	INTERGENIC	--	--	--
Ca8_P2_14647050	Ca8	14647050	GAAAA/GAAA	TTGCAGCTGTGTGGAA AAAG	CGAAAACGCAGAATGT TCAA	59.8	514	INTERGENIC	--	--	--
Ca8_P2_14647157	Ca8	14647157	GTTT/GTTTT	TTGCTTGTCATGACGT AGG	TCTGCAACGAAGATTAA ACCAA	59.8	297	INTERGENIC	--	--	--
Ca8_P2_14656996	Ca8	14656996	T/TAG	AGGCTAGTGGATGCTG GAGA	TGAAGCAACTTTTGTG GGA	59.3	660	INTERGENIC	--	--	--
Ca8_P2_14659373	Ca8	14659373	AT/ATT	AATTGGAAGCACATCG ACC	CACACATTCTTGGCC CTCT	60.1	401	INTERGENIC	--	--	--
Ca8_P2_14659986	Ca8	14659986	TAAAAAAAAA/TAAAAAAAAA	AGAGGGCCAAGAAATG TGTG	GCATGCATAACAATTT GTGTGA	60.8	551	INTERGENIC	--	--	--
Ca8_P2_14660502	Ca8	14660502	TAA/TAAAA	TGCATGCATTTTAAAT TATGTTTT	CATGTACCGATATGTC GGTCT	58.9	788	INTERGENIC	--	--	--
Ca8_P2_14661763	Ca8	14661763	TC/T	TGTTGTTGTGAAATCGA CGAA	TGTTAGGTGCCAAG GAAG	60.1	399	INTERGENIC	--	--	--
Ca8_P2_14662169	Ca8	14662169	GAA/G	CTTCCTTGGCCACCTA ACA	CATCATAACATTTAGCC CCTCA	59.0	150	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14662220	Ca8	14662220	GTTTTTTTTT/GTTTTTTTTT	CTTCCTTGGCCACCTA ACA	TTTAAATGCACTTTGA TTCTCC	57.5	617	INTERGENIC	--	--	--
Ca8_P2_14668729	Ca8	14668729	TGGGG/TGGG	CGTGGGTCACAAAGAT GATG	TGCTCTCATCCCTGTT TTG	58.8	861	INTERGENIC	--	--	--
Ca8_P2_14671445	Ca8	14671445	TAAAAAAA/TAAAAAAA	CCTTCCCGATTGTGATC TTT	TCGACAACTTACATTTC ATCATCC	60.2	831	INTERGENIC	--	--	--
Ca8_P2_14684651	Ca8	14684651	GTTTTTTT/GTTTTTTTT	TTTTAGAGGTGTCACGT AAACACAA	TGTGACTCGTGTGAAT GCTG	59.4	523	INTERGENIC	--	--	--
Ca8_P2_14687463	Ca8	14687463	CAAA/CAAAA	CCAAATCGGCACCTA CATT	GTGGATGTGGTTTTGC ATTG	59.8	393	INTERGENIC	--	--	--
Ca8_P2_14688210	Ca8	14688210	ATTTTTTTTT/ATTTTTTTTT	TTTCTTAAGGTGAAAA TAACATTCAT	TGCGTGATCGATGCAT ATAGA	60.2	638	INTERGENIC	--	--	--
Ca8_P2_14688273	Ca8	14688273	AAACA/AA	GATTTAATTGTTTGGG GATTTTT	TGCGTGATCGATGCAT ATAGA	60.2	446	INTERGENIC	--	--	--
Ca8_P2_14688721	Ca8	14688721	TCC/TC	TATGCATCGATCAGCA ATG	TCAACAATTCGATTGA ACCA	59.0	428	INTERGENIC	--	--	--
Ca8_P2_14688894	Ca8	14688894	TTATAT/TTATATTATATATAT	TATGCATCGATCAGCA ATG	TCAACAATTCGATTGA ACCA	59.0	428	INTERGENIC	--	--	--
Ca8_P2_14700521	Ca8	14700521	ATTTTTTTTT/ATTTTTTTTT	TTTGTGACTTAGGCATC ACGA	TCCATACCTTTTCCAAC CCA	60.2	539	INTERGENIC	--	--	--
Ca8_P2_14700801	Ca8	14700801	GAAAAAAAAA/GAAAAAAAAA	CGAAGTACAACAAGGG CAAA	TGTGCTCCCATCTTTT CTT	59.7	138	INTERGENIC	--	--	--
Ca8_P2_14700964	Ca8	14700964	AAAAATAATA/AAAAATAA	TGGGTTGAAAAGGTA TGGA	CCATCTCCCCTTGATCT TTG	59.5	479	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca8_P2_14701078	Ca8	14701078	TATAATA/TATA	TGGGTTGAAAAGGTA TGGA	CCATCTCCCCTTGATC TTG	59.5	479	INTERGENIC	--	--	--
Ca8_P2_14705254	Ca8	14705254	AATTTTATTTTAT/AATTTTAT	TAGAGGGACCAAACT GCAA	CCAGGCGTAATTTTG AAAC	59.5	366	INTRON	Ca_12998	R	SBP
Ca8_P2_14706724	Ca8	14706724	TTAT/TTATAT	TCAGCTGGAGGACTTG CTTT	CAAGGGCAATGAGCAA AAAT	60.1	345	INTRON	Ca_12998	R	SBP
Ca8_P2_14707706	Ca8	14707706	AT/ATCT	TCATGGCTATGCATGG ATGT	ACCGCATCTGCAATAG GTTC	60.1	407	INTRON	Ca_12998	R	SBP
Ca8_P2_14707819	Ca8	14707819	AGT/A	TCATGGCTATGCATGG ATGT	ACCGCATCTGCAATAG GTTC	60.1	407	INTRON	Ca_12998	R	SBP
Ca8_P2_14710688	Ca8	14710688	ATTTTTTT/ATTTTTTTT	ATCCGATCCAATCAAT CCA	CTTGTTCTTCTCGCC AAG	60.0	383	DRR	Ca_12998	R	SBP
Ca8_P2_14722667	Ca8	14722667	TA/TAGA	TTCATTGCACCCACACT TTC	TCGGAACAAATGGTG GATT	60.2	578	INTRON	Ca_12995	O	NAC
Ca8_P2_14723674	Ca8	14723674	CTCAAATA/CTCAAATAACCAATTCAAA TA	CAACGAGACCTAGCCC AGAA	CAAAAGAGGCGTACCG TGAT	60.1	405	INTRON	Ca_12995	O	NAC
Ca8_P2_14732418	Ca8	14732418	ATTT/ATTTT	TTCTTCCCCAACCATC AAA	TTTGGAAGGCTCATTT GTT	59.7	577	INTRON	Ca_12995	O	NAC
Ca8_P2_14733700	Ca8	14733700	ATTTTTTTTT/ATTTTTTTTTT	TCTGAACGAAGTTGGA GCAA	GGTATGTTGTTTGA GGGG	58.3	787	INTRON	Ca_12995	O	NAC
Ca8_P2_14735110	Ca8	14735110	T/TAGAACA	CAGGGACAACCTTGGTC AAGAA	AAATGGTGTGGGGGT GTAA	59.9	704	INTRON	Ca_12995	O	NAC
Ca8_P2_14742163	Ca8	14742163	T/TGA	TGGTGGTTGATCATAC GAGAG	GCCAAGAAATAGCCAC TTGC	59.9	644	INTRON	Ca_12995	O	NAC

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14746760	Ca8	14746760	ATTCA/ATTCATTATTTCA	TGGATCTCATCTCATC CCT	TTGAAGTGCTTTTGGT GCTG	60.0	573	INTRON	Ca_12994	--	--
Ca8_P2_14751128	Ca8	14751128	TC/T	TGATGCGTTGATAGTGT TGG	GGCACTTGGTTGGTCT TCAT	60.0	619	INTRON	Ca_12994	--	--
Ca8_P2_14754482	Ca8	14754482	ATTTTT/ATTTTT	TTGCTCTTCTTTGTGC CCT	AGAATTCCTCATCCCC ACA	60.1	896	INTRON	Ca_12993	O	--
Ca8_P2_14755688	Ca8	14755688	TATAGAGCTATAATAGAG/TATAGAG	ATACCGTGATAGGTCT GCCG	GGATTGCGGAGAATGA CAGT	60.1	518	INTRON	Ca_12993	O	--
Ca8_P2_14757174	Ca8	14757174	TAAAAAAA/TAAAAAAA	CATGGAATCCAAATCGA TGA	ACCTCCCTCCAAACA AATC	60.2	477	DRR	Ca_12993	O	--
Ca8_P2_14759340	Ca8	14759340	TTA/T	TTTGGTTCCTTGTGG AGC	CAAATTCAGTTGGCTC AGCA	60.0	694	INTERGENIC	--	--	--
Ca8_P2_14764445	Ca8	14764445	TGG/TG	GGCATCATAGTGTGAG ACCAA	ACGCGCCAGAAATATA AACG	60.1	609	INTERGENIC	--	--	--
Ca8_P2_14770790	Ca8	14770790	ACC/AC	TAAGGAGTTGGGTGCT TGCT	TTTGGCAAACACTTGTA AAATGA	59.6	461	INTERGENIC	--	--	--
Ca8_P2_14772954	Ca8	14772954	CAA/CAAAA	CGGATTAATAAGTGTG GTCG	ACATCGTTGCACAACG TCAA	60.2	331	INTERGENIC	--	--	--
Ca8_P2_14774361	Ca8	14774361	T/TAA	TCGATCCTTACGGTTAA CATCA	GAATATCCGTGTGGGA TTGC	60.2	477	INTERGENIC	--	--	--
Ca8_P2_14774559	Ca8	14774559	ATTTTTTTT/ATTTTTTTTTTTTT	TCGATCCTTACGGTTAA CATCA	GAATATCCGTGTGGGA TTGC	60.2	477	INTERGENIC	--	--	--
Ca8_P2_14776665	Ca8	14776665	T/TTAA	CCAACTCTGGTGGTTG GTCT	GCTTGGGGTTTGTAA TACG	59.3	583	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14776948	Ca8	14776948	ATCTCTCT/ATCTCT	CGAAGAAGACCGGCT AAAT	GAGCACAACGTTTGAA AAGGA	60.3	737	DRR	Ca_12990	--	--
Ca8_P2_14778020	Ca8	14778020	AACTAT/AACTATAATACTAT	TTGGCATTATATGTGG ACC	TGACTCACGATCAGTT GGC	59.8	750	DRR	Ca_12990	--	--
Ca8_P2_14779785	Ca8	14779785	TCCCC/TCCCCC	CCATTGTTATCCTCCCA ACC	AATCTTAATCCGGCCC AAAC	60.2	881	INTRON	Ca_12990	--	--
Ca8_P2_14779908	Ca8	14779908	AAGA/AA	AATCACCATTITTCGG CTA	AATCTTAATCCGGCCC AAAC	60.2	423	INTRON	Ca_12990	--	--
Ca8_P2_14780556	Ca8	14780556	TAAAAAAA/TAAAAAAA	CTCCAACAACCACCAC CTT	GTCCATGACGTGTCAC CGTA	60.5	531	INTRON	Ca_12990	--	--
Ca8_P2_14781231	Ca8	14781231	T/TG	ATCGTTGGTCCTTGTT TGG	AAATGGCAGGACACAT TGTT	57.9	608	INTERGENIC	--	--	--
Ca8_P2_14783369	Ca8	14783369	ATTTT/ATTTT	GCAACAATTGTGCAGAT GAA	AGGCCTTCAGAAAAGC AACA	60.0	216	INTERGENIC	--	--	--
Ca8_P2_14785334	Ca8	14785334	TAAAAAAA/TAAAAAAA	TTGGAAGGGAGTGCTA GTGG	TTAATGCACCCCTGA TTTC	59.8	600	INTERGENIC	--	--	--
Ca8_P2_14789753	Ca8	14789753	CAAAAAA/CAAAAAA	TGTGATTGATTGACAGT GTAAGGA	AATATGTTGCCCATC CCA	59.9	447	INTERGENIC	--	--	--
Ca8_P2_14792182	Ca8	14792182	TA/TAA	TCCATTGAAGACACATA CGTCA	CATGCACACACACACA CACA	59.6	225	INTERGENIC	--	--	--
Ca8_P2_14794782	Ca8	14794782	TAAAAAAA/TAAAAAAA	ATCAGTCATGTTGTG GCAA	CAGTCGAGTGATGGT CAGT	59.9	386	INTERGENIC	--	--	--
Ca8_P2_14795209	Ca8	14795209	AAATAATAATAATAATAATAA/A AATAATAATAATAATAATAA	CAACTGACCATGCACTC GAC	TTGCGACTATGGCTTC CTTT	59.8	462	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_14806329	Ca8	14806329	AGT/A	GAGGGGAGGAGAGTAG GGAA	TATTGCTATTGTTGCAG CCG	59.9	579	INTRON	Ca_12988	F	--
Ca8_P2_14807243	Ca8	14807243	CTTTTT/CTTTTT	ACTTGAGTTCCAACCT CCC	GCTGAGGAAAGAACCA GTGC	60.0	432	INTRON	Ca_12988	F	--
Ca8_P2_14808806	Ca8	14808806	TG/T	TTCCCAACCCAAAGTAG CTC	TTTGATATTGTTGTTGG CGA	57.6	553	INTERGENIC	--	--	--
Ca8_P2_14811835	Ca8	14811835	GAAAAAAAA/GAAAAAAAA	GCAATTGCAACCACTTG AAA	AGGACATTGTGTGGTG GTGA	59.8	189	INTERGENIC	--	--	--
Ca8_P2_14814560	Ca8	14814560	CAAAAAAAAA/CAAAAAAAAA	TTTCAAAGCTAACTCGA AAATGG	TTCTCCTTGGTGCTTCT CCA	60.9	651	INTERGENIC	--	--	--
Ca8_P2_14815482	Ca8	14815482	GTTT/GTTTTT	CTTGAGAAAGCACCA GGAG	GTGCCACACAAATGA CAAT	59.3	568	INTERGENIC	--	--	--
Ca8_P2_14815632	Ca8	14815632	TTTTC/TTTCTTTC	CCAGAAAAAGGCCAAT CAAA	TGCGAATTGGGATTAA ACAA	59.0	457	INTERGENIC	--	--	--
Ca8_P2_14815696	Ca8	14815696	A/ACTTT	CCAGAAAAAGGCCAAT CAAA	TCCAATCGAAGAGAAA ATCAAAA	60.1	676	INTERGENIC	--	--	--
Ca8_P2_14815814	Ca8	14815814	ATTTTT/ATTTTTT	GCACATGTGTTGGTC TTGT	TCCAATCGAAGAGAAA ATCAAAA	60.1	319	INTERGENIC	--	--	--
Ca8_P2_14819613	Ca8	14819613	GTTTTTTT/GTTTTTTTTT	TCTACCCCCAAGCAAT CAA	TGATCGCGGATGAATT ACTG	59.6	518	DRR	Ca_12987	D	bHLH
Ca8_P2_14819862	Ca8	14819862	AAACTTAAGTACTATATCTA/AACTTAA GTACTATATCTAACTTAAGTACTATATC TA	TCATCCGCGATCAACTA ATTT	ACCCTAGGGGTATGGT GGAC	59.9	536	DRR	Ca_12987	D	bHLH
Ca8_P2_14820833	Ca8	14820833	TTATATATATATA/TTATATATATATATA	ACATCCGTGATGGTCA CACA	GGGAATGGTGAAATCA ATGC	60.1	530	DRR	Ca_12987	D	bHLH

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca8_P2_15925485	Ca8	15925485	TAAAAAAAAA/TAAAAAAAAA	GCTTGATTCTTTGTGG GGA	AGCACTGCATTTCTCA CCC	60.3	650	INTERGENIC	--	--	--
Ca8_P2_15928480	Ca8	15928480	TAA/TAAA	CGAACCATGTGAAAGC ACAC	GCACGGCCTATTGTTC AGAT	60.1	573	INTERGENIC	--	--	--
Ca8_P2_15939977	Ca8	15939977	TATAAATAAATAAATAAATAAATAA A/TATAAATAAATAAATAAATAAAT AAATAAA	ACTAGTGATTTTCGCGC GTT	CCTTCAAATTTGCATT TCCC	60.6	858	DRR	Ca_15501	--	--
Ca8_P2_15943108	Ca8	15943108	ATTTTTTTTT/ATTTTTTTTTT	CAAAGATGCTATCTCT CACACGC	GGCCATTAACTCTCAA CGG	59.6	475	INTERGENIC	--	--	--
Ca8_P2_16066420	Ca8	16066420	AATATATATATATATATATAT/AATATATA TATATATATAT	TATTTTGGGATTTTGGC TCG	AGGAAGAGTGGAGTTG CGAA	60.0	512	INTERGENIC	--	--	--
Ca8_P2_16188595	Ca8	16188595	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	CGCATAGATCGCACATT GTT	ATCTTGGGCCAGCAT AAAT	60.7	668	INTERGENIC	--	--	--
Ca8_P2_162347	Ca8	162347	TAAGTCA/TAAGTCAACTCA	AGTTGCTTTTCATGCGC TTT	ACCCCGTAGTCCTTGA CCTT	59.9	748	INTRON	Ca_11928	L	G2-like
Ca8_P2_1631334	Ca8	1631334	A/ATAATAAT	GCGGCTAACCTAACCA AATTC	TGCTGATTGGCTTCAC TTTTT	59.9	407	DRR	Ca_02445	--	WRKY
Ca8_P2_16315020	Ca8	16315020	TAAA/TAAA	AATGCAAAGCAACAAG GTTTC	TTGTATGCATGTGTGAT GTGTG	58.9	504	INTERGENIC	--	--	--
Ca8_P2_16315069	Ca8	16315069	CTGATGAT/CT	AATGCAAAGCAACAAG GTTTC	GCACATTGAACCCCAT ACAA	59.3	605	INTERGENIC	--	--	--
Ca8_P2_16315111	Ca8	16315111	GAT/G	AATGCAAAGCAACAAG GTTTC	GCACATTGAACCCCAT ACAA	59.3	605	INTERGENIC	--	--	--
Ca8_P2_16316035	Ca8	16316035	CAAAA/CAAAAAA	GGCATCACCCCAAGAC ATAG	CCCTTGATTTTCAATC ACTCC	59.8	352	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_16360078	Ca8	16360078	T/TA	GAAAAATGAAGGAGGT GGCA	GGAAAGAATGTTACGC CTGC	59.7	159	INTRON	Ca_15558	I	--
Ca8_P2_1654587	Ca8	1654587	AC/A	TGGCAATTCTGTCAGTT GGA	GAGCCCATCTGCATTT CATT	60.0	245	INTERGENIC	--	--	--
Ca8_P2_1682124	Ca8	1682124	A/AACATGATT	GCCTCCACAATTGGCA TAGT	TTGCGTTGTGCTTTTC AAC	59.9	467	INTRON	Ca_02439	--	--
Ca8_P2_1777799	Ca8	1777799	TTAATAATAATAAAT/TTAATAATAA ATAATAAT	TCAATTGATTTTCGGTA TCCTTC	AGGCAAAATGACCAATT GAGG	59.9	698	DRR	Ca_02430	--	GRF
Ca8_P2_1779502	Ca8	1779502	AATATATATATATATATATATAT/AA TATATATATATATATATAT	TTGTCAACTCTCCATGT GTGG	TGAGTTGTTGGGTGTG GAGA	60.1	536	INTERGENIC	--	--	--
Ca8_P2_1857269	Ca8	1857269	ATTCCTATTTTCCT/ATTCCT	CACCCGTTCTCATGAA AAT	AAAGGTAAAGGTGGGG GATG	60.0	381	INTERGENIC	--	--	--
Ca8_P2_1947644	Ca8	1947644	TTATATATATATATATATATATATA TATATATA/TTATATATATATATATATA TATATATATATATATATATATA	TTTGCTTCAACACAGC AAG	TTGATTCACACCCATTT TGC	59.4	761	INTERGENIC	--	--	--
Ca8_P2_1966087	Ca8	1966087	GTTT/GTTTT	TCCATGATACAAGCAAG GCA	TGGCCAAATTGAACTA CGA	59.2	698	DRR	Ca_02406	U	--
Ca8_P2_1984439	Ca8	1984439	TGTAGTA/TGTAGTAGTA	TGTGCGTTAGATGTTT CCA	CAGCAAATCCGGAATC CTAA	60.0	290	INTRON	Ca_02404	K	TCP
Ca8_P2_1993541	Ca8	1993541	A/AGGGAATAAAT	ATTTTCATCCCCAACC GTA	GGACTCCAAAGGAAAT GCAA	60.1	666	DRR	Ca_02403	R	--
Ca8_P2_2033135	Ca8	2033135	TC/TCC	ACGCTCGATTTCGAG AGTA	CACTGTGTGGTTGTT CGAC	60.0	828	INTERGENIC	--	--	--
Ca8_P2_2037724	Ca8	2037724	ATTTTTTTTCTTTTTTTCTT/ATTTTT TTTTCTTTTTTTTCTTTTTTTCTT	TTTTGAGGACTTTCGG GTTG	CATTGTCTAGCCCTTG AGC	60.0	448	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_2046372	Ca8	2046372	TAAAAAAAAA/TAAAAAAAAA	CAAGGAAGCAACCGA CAAT	CGATTCAATTGGAAG CCAT	59.9	155	INTERGENIC	--	--	--
Ca8_P2_2100112	Ca8	2100112	ATTTTT/ATTTTT	TTTGCCTGGACAAATA CCA	TGTGGGTTCTTATTG ATGAATT	60.0	300	INTERGENIC	--	--	--
Ca8_P2_2143848	Ca8	2143848	TCA/TCATAAAACA	AGCGCCACATATAAC CGC	ATTACGCACGCACCA TACA	60.0	199	INTERGENIC	--	--	--
Ca8_P2_2172364	Ca8	2172364	GT/GTT	TGGGAGCTACCAGCT TTAC	GCTGTGATCATCGTTT CGTG	60.3	830	DRR	Ca_02379	R	--
Ca8_P2_2256411	Ca8	2256411	GAAAGANNNNNNNNAAGA/GAAAG A	TGCCATCTCTTTGTGT GCT	TAAAGGACCAAGTCGG GAAA	59.5	333	INTERGENIC	--	--	--
Ca8_P2_2295637	Ca8	2295637	TAAAAAAAAA/TAAAAAAAAA	CCACCTATCGAAG ACCA	AACGACAGCCATAAAA GCCA	59.8	864	INTERGENIC	--	--	--
Ca8_P2_2296591	Ca8	2296591	A/AT	CGTATTCTCATTCTCA ATTGGC	TGCAACTTTTAAAAA TGGAGATCAA	59.4	546	INTERGENIC	--	--	--
Ca8_P2_2325798	Ca8	2325798	AATATATATATATATATATAT/AA TATATATATATATATATATATAT	TTTTGAGCGAGCATT TCT	TTGTTGTTCTCCTAAGG TTTTGC	59.7	695	DRR	Ca_02357	C	--
Ca8_P2_24399	Ca8	24399	TGTTTAGGGTTTAGGGTTAGG/TGTT AGGGTTTAGG	CGGATTTAGGGTTTGG GGAT	GCGTCCGACAACCAT TACT	60.0	448	INTERGENIC	--	--	--
Ca8_P2_2633125	Ca8	2633125	T/TGCCGAA	TCATGTGCGCTTGATC TTC	ATCGTAGGTGTGTGCG TTCC	60.0	333	DRR	Ca_02318	--	--
Ca8_P2_2727751	Ca8	2727751	CTATATATATATATATATAT/CTATA TATATATATATATATATATAT	CCCTGGAGTGAATACA ATCTGA	TTTTCGGTTTTATCGCT TTCA	59.7	613	DRR	Ca_02304	L	--
Ca8_P2_2755315	Ca8	2755315	GT/GTGAAGAGCGGTAGATAAT	GGTTGCCCTACAACAC TGCT	TACTCCGCATCAAATG GACT	58.2	602	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca8_P2_2869406	Ca8	2869406	TG/T	CAACTGGATAACCAGCT CCC	CGGCCAAATTGATCAG GTAT	59.8	565	INTRON	Ca_02297	U	--
Ca8_P2_2934699	Ca8	2934699	CTTTTTTTTT/CTTTTTTTTT	TTGCATCTCTAAGATTC TATCTTCCAT	CAGATTTCTCTCTCCA CCA	60.0	612	INTERGENIC	--	--	--
Ca8_P2_3024387	Ca8	3024387	GTTTTTTTTT/GTTTTTTTTT	CGGGAATCAATAGGCT TCAA	CTTTCCTCTGCTACCTT CCC	60.2	772	INTRON	Ca_02279	E	TALE
Ca8_P2_3025400	Ca8	3025400	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	AATTCGTCATCGAGG TTG	CATGACGGGCTCAAGT TTTT	60.1	911	INTERGENIC	--	--	--
Ca8_P2_3035301	Ca8	3035301	ATTTTTTTTT/ATTTTTTTTT	TTAATGACATACATTG TTCCACA	TTGGTCATTCTTTTCT TCTATCTTTC	59.6	365	INTERGENIC	--	--	--
Ca8_P2_3074935	Ca8	3074935	CATATATATATATATATATATAT/CA TATATATATATATATATATATATATA	ATCATGAACACACGGG TCCT	GATGAGGGCAATAAG CTGG	59.7	688	INTRON	Ca_02271	U	--
Ca8_P2_3107484	Ca8	3107484	CTATATATATATATATATATATAT/C TATATATATATATATATATATATAT	CACGCGCCACACTATC ATAA	AGGAAGAGAAGGTGGG TGGT	60.0	884	INTERGENIC	--	--	--
Ca8_P2_3128241	Ca8	3128241	GTTTCGAAAGTTTCGAAAGTTTCGAAAG TTT/GTTTCGAAAGTTTCGAAAGTTT	CAGTTGTCCACCTCC ACTT	CACTTTAACTTCCACC CCC	60.6	856	DRR	Ca_02267	E	--
Ca8_P2_3236663	Ca8	3236663	GATATATATATATATATATATATAT ATA/GATATATATATATATATATATAT ATATATATATATATA	TGCCGACTTTAACAAA TCTCA	TTTGACTTGAAGGATTG GAAGA	58.8	545	DRR	Ca_02257	--	S1Fa-like
Ca8_P2_3313290	Ca8	3313290	TTATATATATATATATATAT/TTATATA TATATATATATATAT	TGGCGTATTGTCAATTC CAA	AAAATTCTGTTTGGGG GACC	60.0	674	INTERGENIC	--	--	--
Ca8_P2_3329060	Ca8	3329060	TTATATTTATATATAT/TTATATAT	CACATGCAGTTTGGCT CAAT	TGTGTCACCTCTTTTG TGTC	59.2	655	INTERGENIC	--	--	--
Ca8_P2_3363189	Ca8	3363189	GTATATATATATATATATATAT/GTAT ATATATATATATATATATATAT	CCAATTAATTTGTTAA GACCATCTG	TAAAAGCAATTTGGGT GGG	59.8	599	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_46677	Ca8	46677	TT/TTAT	CAATCGGACCAATC AAA	TCTGTCTTGTCCTCA CAA	59.2	251	INTERGENIC	--	--	--
Ca8_P2_4691099	Ca8	4691099	AATATATATATATATATA/AATATATAT ATATATATATATA	TAAGAGCCATGCAGAG ACGA	CCATATCCCTCATCTCA TACCG	60.5	755	INTERGENIC	--	--	--
Ca8_P2_4841766	Ca8	4841766	AATATATATATATATAT/AATATATATA TATATAT	TGCAACTCAGCTATGCA TCC	GAGAATGGCAATGAGG TGGT	59.9	719	INTERGENIC	--	--	--
Ca8_P2_4937020	Ca8	4937020	ATTTTTTTT/ATTTTTTT	AGGTCAATCCATTACCC GTC	ATGCTGGTTGTCCTCC TGTC	60.1	845	INTRON	Ca_02063	--	--
Ca8_P2_4957	Ca8	4957	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATA/AAATAATAA TAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA	TTGGTTTCAAGAAGGAT GGC	CGGGTTGAGTTGTTGT TCCT	60.0	738	INTERGENIC	--	--	--
Ca8_P2_497949	Ca8	497949	CATTATTATTATTATTATT/CATTATT ATTATTATTATT	TCTTCTCGCTTTCGCTC TTC	TGTCCATGTGTTTCGAG GAGA	60.2	308	INTRON	Ca_11887	T	--
Ca8_P2_5016373	Ca8	5016373	TAAAAAA/TAAAAAA	TTGTCCGTTATAACATT AAACACTTT	GAAAAGACAACCCCGC ATTA	59.9	279	INTERGENIC	--	--	--
Ca8_P2_5069926	Ca8	5069926	GTTTT/GTTT	AGGTTTCACATCGGAG GTTG	TGGAAGTAGCCATCTT TGGG	60.1	454	INTERGENIC	--	--	--
Ca8_P2_5088604	Ca8	5088604	CAAAAAA/CAAAAAA	CCAAAAAGGTGGAGA TTGA	GTTTCGTAAAGGACGGG ATGA	59.9	577	DRR	Ca_02048	--	M-type
Ca8_P2_5197726	Ca8	5197726	CAATTTAAA/CAATTTAAATTTAAA	GGTTGGGTGGAAGATT CAGA	AGGCTAGTACCCCAA AAGG	60.5	571	DRR	Ca_02034	--	ZF-HD
Ca8_P2_5203286	Ca8	5203286	TATAAAAAATAAAAAATAAAAAATAAA/ TATAAAAAATAAAAAATAAAAAATAAA ATAAAA	TGTAGAGAAAGTGATTG ACCACC	AATTTGGCATGGGAGA CTTG	59.9	643	DRR	Ca_02032	O	FAR1
Ca8_P2_5269336	Ca8	5269336	GG/GGGTCAGG	ATCCAGAATGGAGCAA CTGG	CCACGAGATTCCTGG TAAA	59.9	478	INTRON	Ca_02025	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
Ca8_P2_5862916	Ca8	5862916	CTT/CTTT	GGCCTTGTACATTGA GGG	GCTCGCCTTGCTATG AGTC	60.1	643	INTERGENIC	--	--	--	--
Ca8_P2_5934044	Ca8	5934044	AATATATATATATATATATATATATATATATAT/ AATATATATATATATATATATATATATATATAT ATAT	TGAGGGAAGAAATTGG AGGA	AAAAATAGAGGCGCAT TGGA	59.7	680	INTERGENIC	--	--	--	--
Ca8_P2_6036137	Ca8	6036137	CAAAAAAAAA/CAAAAAAAAA	CACACACATAAATGAAA CGAACG	CATGCTTTGACCATCA GGTG	60.1	576	DRR	Ca_01945	O		NAC
Ca8_P2_6056579	Ca8	6056579	TTATATATATATATAT/TTATATATATATA T	TATTGAGATCCCTTGCC CAG	TGCACGGCAATTACAA CAAT	60.0	493	INTERGENIC	--	--	--	--
Ca8_P2_6100294	Ca8	6100294	TAAAAAAAAAAAAAAAA/TAAAAAAAAAAAAA AA	TGCAAAAACCTTAAACG TATGG	TTAGATGCAAACCCAAA GGG	59.9	792	INTERGENIC	--	--	--	--
Ca8_P2_610757	Ca8	610757	CAAAAAAAAA/CAAAAAAAAA	TTTTTCCGACTTGGTCA TTT	TTTGCGTTACGAATTG ATGA	59.2	178	DRR	Ca_11875	O		--
Ca8_P2_6123465	Ca8	6123465	CTCTTTTCTTTTTCTTTTTCTT/CTCTTT TTCTTTTCTTTTTCTTTTTCTT	GAAACATTGCAAAATG CAA	GTGTTTCGTGGGAGAC ACCT	60.0	804	INTRON	Ca_01934	O		NAC
Ca8_P2_6138115	Ca8	6138115	AATATATATAT/AATATATATATAT	CTTTTTCCGATCCAACG TGT	AGGTCCAAATTGCTA GGCT	58.0	589	INTERGENIC	--	--	--	--
Ca8_P2_6168624	Ca8	6168624	TCTACAACG/T	GGTGCTTTGCAAACTG GATT	TGATTTAGGGTGATGT GGCA	59.9	613	INTERGENIC	--	--	--	--
Ca8_P2_6253206	Ca8	6253206	TTATATATATATATATATATAT/TTATATA TATATATATATAT	ACCCGTTATGAAACGA GTGC	CAGTAATCGGAGAAAA CCCG	59.6	602	INTERGENIC	--	--	--	--
Ca8_P2_6307106	Ca8	6307106	TATACATATAATACAT/TATACAT	GCAATTCAACGAAAATG CAA	CCACTAAGTCATTTGCA AGGC	59.8	942	INTERGENIC	--	--	--	--
Ca8_P2_6311569	Ca8	6311569	CAATAATA/CAATA	TTTTTGGCCTAGTACCT GCAT	CCAGGCCAAGCCATAA GTAG	59.7	143	DRR	Ca_23580	BK		--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_728618	Ca8	728618	GTATATATATATATATATATATATAT GTATATATATATATATATATATATAT T	TGAGGGGCATCTAGAA GGAA	GCAAGTTAAACCATCT TTCGG	60.0	504	INTERGENIC	--	--	--
Ca8_P2_7288711	Ca8	7288711	TTATATATATATATATATATATATATA TATATATAT/TTATATATATATATATAT ATATATATATATATATATATATATAT	TACACCTGAGTCCGCT ACCC	CAAACGACGACTTCCC AAAT	60.0	633	INTERGENIC	--	--	--
Ca8_P2_7323946	Ca8	7323946	GA/GAACAA	CAGTAATTCGCCATCC ACC	ACGTGAAAGCAGTTGA AGGA	58.5	911	INTERGENIC	--	--	--
Ca8_P2_7336892	Ca8	7336892	TTATATATATATATATATATA/TTATATAT ATATATATATATATATA	AAAGGACCTTAGCGAA AATTGA	TAGCGCAAACTGGAAG GAGT	60.0	497	INTERGENIC	--	--	--
Ca8_P2_75382	Ca8	75382	ATTTTTTTTTT/ATTTTTTTTTTTT	GAAATTTTCTTCGAGG CCA	CGGGACTTGAGGTGAA TCAT	59.9	610	INTERGENIC	--	--	--
Ca8_P2_7560237	Ca8	7560237	GTTT/GTT	AGATGCTAACCCGCGT ATTG	TGGAAGTAGCCATCTT TGGG	60.1	662	DRR	Ca_10632	--	--
Ca8_P2_7560262	Ca8	7560262	TAAAAA/TAAAAA	GGGGGTTGAATAGGGA TTTT	TGGAAGTAGCCATCTT TGGG	60.1	194	DRR	Ca_10632	--	--
Ca8_P2_7563427	Ca8	7563427	A/ACTAGG	TCCGCTGCTAGCTCTTC TTC	TGGGAGGGAGTTCTTG AATG	60.0	353	INTERGENIC	--	--	--
Ca8_P2_7563623	Ca8	7563623	G/GATTCAATA	TCCGCTGCTAGCTCTTC TTC	TGGGAGGGAGTTCTTG AATG	60.0	353	INTERGENIC	--	--	--
Ca8_P2_756775	Ca8	756775	CTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATT/CTTATTATTA TTATTATTATTATTATTATTATTATT ATTATT	TTGTTTATCGTTGGCT CCC	TGACTTAGGAAAAATTG AACTCAGAA	59.7	501	INTERGENIC	--	--	--
Ca8_P2_763423	Ca8	763423	TTATATATATATATAT/TTATATATATA TATATATAT	AAACTGCATTGTAAAT GACGAC	CGTTGGACTTGTGAAC GAGA	59.9	729	INTERGENIC	--	--	--
Ca8_P2_7656693	Ca8	7656693	TATGTGAATG/TATGTGAATGTGAATG	CCTAGTTCACCAAAC GGG	GAAAGGTCAATGTCCC GAAA	59.9	441	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_7927639	Ca8	7927639	ATT/AT	GCCAGACCATAAGTAG GCCA	GCAACTGGATTGCTGG ATTT	60.1	509	DRR	Ca_11430	J	--
Ca8_P2_7938264	Ca8	7938264	TTATATA/TTATATATA	CACGGGGAAAAGTTGA TTTG	CACCAAAATACCCCAT TTG	59.9	697	INTERGENIC	--	--	--
Ca8_P2_7948182	Ca8	7948182	TCA/TCACA	GCCGCAAAGAAGAGAA GAGA	TGCCCAAGTCACTAAT GCTG	59.9	443	INTERGENIC	--	--	--
Ca8_P2_7948249	Ca8	7948249	ACTCTCT/ACTCT	GCCGCAAAGAAGAGAA GAGA	TGCCCAAGTCACTAAT GCTG	59.9	443	INTERGENIC	--	--	--
Ca8_P2_7950561	Ca8	7950561	CAAAAA/CAAAAA	GTCCTTTGGCCTCCAATC AAA	TGGAGTTGGCCAATA ATTT	59.3	359	INTERGENIC	--	--	--
Ca8_P2_7950688	Ca8	7950688	A/AT	GTCCTTTGGCCTCCAATC AAA	TGGAGTTGGCCAATA ATTT	59.3	359	INTERGENIC	--	--	--
Ca8_P2_7950841	Ca8	7950841	AAAT/AAATAAT	TGTGTTGACCCAACCTCC AAA	AGCCACTTGGTTGTGT TTGA	59.2	450	INTERGENIC	--	--	--
Ca8_P2_7951970	Ca8	7951970	TAAAAAAAA/TAAAAAAAA	GCAACCATAAAAGAGCA AGTTGA	AGAGCAACACCATTTT GAAGG	59.2	377	INTERGENIC	--	--	--
Ca8_P2_7952607	Ca8	7952607	GAAAAA/GAAAAAAA	CCTTCAAAATGGTGTG CTCT	GTCATTTTGCCGATCA CCTT	59.9	676	INTERGENIC	--	--	--
Ca8_P2_7953093	Ca8	7953093	T/TC	AAGGTGATCGGCAAAA TGAC	CAGCCCTTCAGTGTCA TGAGT	60.3	609	INTERGENIC	--	--	--
Ca8_P2_7953809	Ca8	7953809	TACCTCAA/TACCTCAAACCTCAA	ACCTGCGACAGTGAA CATA	GAAAACGAGGCGTAA CGAG	59.9	360	INTERGENIC	--	--	--
Ca8_P2_7954393	Ca8	7954393	TAA/TA	CTCGTTTACGCCTCGTT TTC	CCGTAGCATGAGAGTG ACCA	59.9	561	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
Ca8_P2_7954421	Ca8	7954421	CATATATATATATATATATAT/CATAT ATATATATATATATATATAT	CTCGTTTACGCCTCGTT TTC	CCGTAGCATGAGAGTG ACCA	59.9	561	INTERGENIC	--	--	--
Ca8_P2_7954496	Ca8	7954496	CATATA/CATATATA	TTTCGTCGTATAAAGAC GGAGAG	CCGTAGCATGAGAGTG ACCA	59.9	545	INTERGENIC	--	--	--
Ca8_P2_7955526	Ca8	7955526	TCTC/T	CATGCAAGAGAAGGGA AAGAA	GTGTGGGAGAGAAAGC ATCC	59.7	296	INTERGENIC	--	--	--
Ca8_P2_7955567	Ca8	7955567	TTCTCTCTCTCT/TTTTCTCTCTCTCTCT CT	CATGCAAGAGAAGGGA AAGAA	GTGTGGGAGAGAAAGC ATCC	59.7	296	INTERGENIC	--	--	--
Ca8_P2_7955692	Ca8	7955692	AC/A	AGGATGCTTTCTCTCCC ACA	TGTGCTGCTTCTAGAC AAATCAA	60.1	441	INTERGENIC	--	--	--
Ca8_P2_7956165	Ca8	7956165	GTTATATAATATTA/GTTATATAATATTA TTATATAATATTA	TTGATTTGTCTAGAAGC AGCACA	CACCTCTTGGCTGAGT TGGA	59.0	476	DRR	Ca_11432	--	G2-like
Ca8_P2_7987942	Ca8	7987942	AATATATATATATATATATATA/AATAT ATATATATATATATATATATATA	TTTATGTTTGCAATTTGC GGA	ATTGCACACGTGTAAA GCCA	60.2	701	DRR	Ca_11437	I	G2-like
Ca8_P2_8003394	Ca8	8003394	CAAAAAAAAA/CAAAAAAAAA	TCTCTCAATTCATGCTA TGGAAAA	ACCCGCATGTGATCAT GTTT	61.2	703	INTERGENIC	--	--	--
Ca8_P2_8012245	Ca8	8012245	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATAT ATATATATAT	GGGAGGGAGTATAATG GCAA	TTAGAATGAGTGTCATT TCAACAAA	57.9	626	INTERGENIC	--	--	--
Ca8_P2_8041385	Ca8	8041385	TAGAGAGAGAGAGAGAGAGAGA/TAGA GAGAGAGAGAGAGAGA	CGGCGCGAATTTAGAG TTAG	GTTTCTGCCACTCTCTT CGG	60.0	212	INTRON	Ca_11441	U	M-type
Ca8_P2_8075837	Ca8	8075837	ATACT/ATACTTACT	TTGAGCCAAAAGCCTC CTTA	TTTTCAACAAAATGTGC GGA	60.1	824	INTERGENIC	--	--	--
Ca8_P2_807972	Ca8	807972	AAGAGAGAGAGAGAGAGAGAGAGAGA GAGA/AAGAGAGAGAGAGAGAGAGAGA GAGAGA	CCCTTTCACGCCAATAA AGA	AATCCTTAACCCCTCCCT CCA	59.8	565	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_8084553	Ca8	8084553	CAGTTGAGCCAAAAG/C	TCACCCTACAACATGAC CGA	GTAACCCAAGGCACCA CTGT	59.9	478	INTERGENIC	--	--	--
Ca8_P2_8084688	Ca8	8084688	CATA/CA	TCACCCTACAACATGAC CGA	ATGGATGCAACACCAA AATG	59.3	977	INTERGENIC	--	--	--
Ca8_P2_8087038	Ca8	8087038	GAGAA/GA	TTATCCCGGCGTCAAG TAAG	CAAGGATTTAATGCCG GAGA	60.0	153	INTERGENIC	--	--	--
Ca8_P2_8094119	Ca8	8094119	AGAAG/AGAAGGAAG	GTCCAGATGATGCGAG GAAT	TTTCTGCTGTGTTGC AAAG	60.0	406	INTRON	Ca_11444	--	bZIP
Ca8_P2_813049	Ca8	813049	ACGCG/ACG	ACTTTCACCGAAACCG GAA	AGAAGTCAAGCGAAC GAAA	60.0	372	INTERGENIC	--	--	--
Ca8_P2_8171636	Ca8	8171636	TTATATATATATATAT/TTATATATATA TATATATAT	TTGGATGGCAACAATA TCAAT	AAAATTTGTGGTTGGCT TGC	60.0	682	INTERGENIC	--	--	--
Ca8_P2_8240879	Ca8	8240879	TC/TCC	GTCGCCGCTACGAGAT AAAC	TTTGTGCTGATGGTGA TGGT	60.0	729	INTERGENIC	--	--	--
Ca8_P2_8245162	Ca8	8245162	TAAAAAAAA/TAAAAAAAAA	AAAAGTGCCAGCATTT ACA	TCCCTCATCTCCATTCC AAG	60.0	574	DRR	Ca_11459	I	--
Ca8_P2_8272916	Ca8	8272916	TTAT/TT	TGGCACAGAACTTCG ATTG	TTACCGCCTCTCCTTT TCA	59.8	727	INTERGENIC	--	--	--
Ca8_P2_8273148	Ca8	8273148	GT/GTGAT	GTCACCAAGTCAACAGT CACG	TTACCGCCTCTCCTTT TCA	59.8	550	INTERGENIC	--	--	--
Ca8_P2_8287736	Ca8	8287736	ATTTTTTTT/ATTTTTTTT	AACAAGCCATTCCATT AGG	TCGACGTCTTTGCTTCT GTG	60.2	308	DRR	Ca_11462	J	--
Ca8_P2_8289194	Ca8	8289194	CTTTTT/CTTTT	TTGACACTCCAGCACT AGG	GTAGCCCGAGTCTCAG TTGG	59.9	704	DRR	Ca_11461	J	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_8306898	Ca8	8306898	GATATATATATATATATATATATATAT AT/GATATATATATATATATATATATAT	TTGTAATTTGCATT TCATCG	TCCTCATACCCACT GTTTG	59.9	527	INTERGENIC	--	--	--
Ca8_P2_8312325	Ca8	8312325	AAATAGGAATGTTTA/AAATAGGAATGT TTAATAGGAATGTTTA	CGGCGATCATTAGGA GAAA	ATTTTGAACAAGCGGA CCTG	60.1	561	INTERGENIC	--	--	--
Ca8_P2_8427403	Ca8	8427403	TAAAA/TAAAAA	TGCCATGCAAGTGTTC AAT	GTCCACGATGTTGACG TGAC	60.0	456	INTERGENIC	--	--	--
Ca8_P2_8516306	Ca8	8516306	CTTTTTTTTT/CTTTTTTTTTTT	GACCATCTCAAAGTCCC CAA	TGGTGGTTGATTTTAG ATGAAGTG	60.3	290	INTERGENIC	--	--	--
Ca8_P2_8551012	Ca8	8551012	TAAAAAAAA/TAAAAAAAA	TCGATTGCAATATTTGT TTTAGGA	ATCCCAACCCCTAAG TTTG	60.0	382	INTERGENIC	--	--	--
Ca8_P2_8623323	Ca8	8623323	ATTTTTTT/ATTTTTTTT	GGGGTGATTATGGAGC AAGA	GGTCACGTGTGTTCCA AGAA	59.6	963	INTERGENIC	--	--	--
Ca8_P2_8624257	Ca8	8624257	ATTAAAGC/ATTAAAGCTCAACTTTAA AAGC	CTTTGATTGGGGTTTTG GAA	TGGTGACAATTATTTT CCCGT	60.5	664	INTERGENIC	--	--	--
Ca8_P2_8624418	Ca8	8624418	CAAAAATTTAGAAAAAT/CAAAAATTTAG AAAAATTTAGAAAAAT	TCCTTTCAATGGACTGG TGA	GTCCCGAGCATGACGT TTAT	60.0	888	INTERGENIC	--	--	--
Ca8_P2_8624597	Ca8	8624597	TAAAAAAAA/TAAAAAAAA	CAATTCTGCATCCTAA CCAAA	GTCCCGAGCATGACGT TTAT	60.0	384	INTERGENIC	--	--	--
Ca8_P2_8685363	Ca8	8685363	TG/TGG	TAGGGATTGTCGTGG GTAA	TGGAAGCGTAGGGTG TTAG	60.1	494	DRR	Ca_11500	L	FAR1
Ca8_P2_8765354	Ca8	8765354	TTATATATATATATATATATATATATA TATATATATA/TTATATATATATATATA TATATATATATA	TGCACAAGTTGCGACA AAAT	ATGGAAATGTTGACGG TGGT	60.1	733	INTERGENIC	--	--	--
Ca8_P2_8771102	Ca8	8771102	AATTAATTTA/AATTAATTTATTAATTTA	TCATAGAAATTTGGAGG CGG	GTGCTGTTATTTGCAC CCCT	60.0	742	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_8774113	Ca8	8774113	T/TCGACG	CCACATGAGTGTGTG AGGG	CGCTAATAATGACACAT TCGCT	59.3	655	DRR	Ca_11507	--	SAP
Ca8_P2_8774191	Ca8	8774191	G/GTTA	GATTTCATATGGGTG GTCC	CGCTAATAATGACACAT TCGCT	59.3	397	DRR	Ca_11507	--	SAP
Ca8_P2_8834989	Ca8	8834989	CT/CTTT	CAGCTCTGAGGGGTGG TTTA	TCTGCCTTTGAACTCC GTC	60.4	494	INTERGENIC	--	--	--
Ca8_P2_8836804	Ca8	8836804	TAAAAAAAA/TAAAAAAAA	TGAAGTGCAGAGAAGGA TTCA	AGCCGCCTCTCTCTTC TCTT	59.9	350	INTERGENIC	--	--	--
Ca8_P2_884207	Ca8	884207	T/TC	AAAAGGACAGTGATCG TGCC	ATAACTTTTTCGCGG GCTT	60.1	543	INTRON	Ca_11831	O	--
Ca8_P2_8844959	Ca8	8844959	TA/T	TTTGCTCCTCCTCTTC TGC	CCATTTGAGATTCATCA CCG	58.9	205	INTERGENIC	--	--	--
Ca8_P2_8845260	Ca8	8845260	ATTTTTTTTT/ATTTTTTTTT	TTTGCTCCTCCTCTTC TGC	TCGTGTTATCCAACCC ACTCT	59.5	697	INTERGENIC	--	--	--
Ca8_P2_8845622	Ca8	8845622	TAAAAAAAA/TAAAAAAAA	AGAGTGGGTTGGATAA CACGA	TTGGCAGCTAGCCTAT CACA	59.6	367	INTERGENIC	--	--	--
Ca8_P2_8848853	Ca8	8848853	TAAAAAAAA/TAAAAAAAA	GTTGGGCTAGTGGGG TTTG	TGTACTTTTAGTGCC GGG	60.0	589	INTERGENIC	--	--	--
Ca8_P2_8848887	Ca8	8848887	TAAAAAAAA/TAAAAAAAA	GTTGGGCTAGTGGGG TTTG	TGTACTTTTAGTGCC GGG	60.0	589	INTERGENIC	--	--	--
Ca8_P2_8851801	Ca8	8851801	GT/GTTATATGCTAT	CAATGAGAGCAAGAGA TCCAA	ATTTGTTAGCGTGGCG TTTT	59.7	480	INTERGENIC	--	--	--
Ca8_P2_8857167	Ca8	8857167	ATTTTT/ATTTTT	GCCCAATTTGTTCTTG GAA	ACTTGGCCAATCTTGT TCG	60.1	929	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_8857874	Ca8	8857874	AATATATATATATAT/AATATATATATATATATATATATAT	CTACGAAGCGCAATGT CAAA	GAGACACAACATGGGC ACAC	60.0	458	INTERGENIC	--	--	--
Ca8_P2_8858717	Ca8	8858717	TCG/TCGTAAACG	TTATTGGACCATCCGCA TTT	TAACGCCATGGTGTCT GTGT	60.0	515	INTERGENIC	--	--	--
Ca8_P2_8858935	Ca8	8858935	TAA/TA	TTATTGGACCATCCGCA TTT	TTTTGGGTTACCTTGG CTTG	60.0	750	INTERGENIC	--	--	--
Ca8_P2_8860098	Ca8	8860098	GAAAA/GAAAAA	ATGCATCCACTCCCAGA AAC	TGTTTTGGTTGTGTCC CAGA	60.0	512	INTERGENIC	--	--	--
Ca8_P2_8860779	Ca8	8860779	TAA/TA	TCTGGGACACAACCAA AACA	CAATTGCATGTGATTCA GCC	60.1	517	INTERGENIC	--	--	--
Ca8_P2_8860891	Ca8	8860891	GAAAAAA/GAAAAAA	AGCCTCTCTCACCCCAA AAT	TCAATGGCCTGTGAAT TAAGC	60.1	424	INTERGENIC	--	--	--
Ca8_P2_8862222	Ca8	8862222	TAAAAAAA/TAAAAAA	AGGTTTCGAACCATGC ATTT	TGCGAGTCACATGAAT TTCG	60.8	753	INTERGENIC	--	--	--
Ca8_P2_8863320	Ca8	8863320	CTTTTTTT/CTTTTTTTT	TTCCTCCATTGACCACT TCC	ACCAACATCCAAAAATC CCA	60.0	544	INTERGENIC	--	--	--
Ca8_P2_8868822	Ca8	8868822	TATTTATTAATTTATT/TATTTATT	TGGTGGTTCAAAGGTA AGGG	AAAACGACGGTGTGAC ATATTTT	59.7	830	INTERGENIC	--	--	--
Ca8_P2_8869164	Ca8	8869164	TAAAAAA/TAAAAAA	TGAGATGCTCTCCATCT CCAT	AAAACGACGGTGTGAC ATATTTT	59.7	575	INTERGENIC	--	--	--
Ca8_P2_8869239	Ca8	8869239	TT/TTGT	TTTTTATTATTACGCG AATTGG	GGTAGCGCAATTCTCA AAATG	59.7	702	INTERGENIC	--	--	--
Ca8_P2_8871176	Ca8	8871176	T/TA	AGGACAAGCTCCACCA ACAT	TTACTTGATGCCCCCA CTTC	59.9	271	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_8873400	Ca8	8873400	TTA/TTATTATTCATA	TTTCTTGTCTGGCTT CCA	TGCATCACGTATATGA CCCAT	60.1	797	INTERGENIC	--	--	--
Ca8_P2_8874188	Ca8	8874188	TA/T	TATGTCTTCAACCGCCA CAA	GACTGTGCCTTGCCTC TCTC	60.1	427	INTERGENIC	--	--	--
Ca8_P2_8874438	Ca8	8874438	CAAAA/CAAAAA	TATGTCTTCAACCGCCA CAA	GACTGTGCCTTGCCTC TCTC	60.1	427	INTERGENIC	--	--	--
Ca8_P2_8874457	Ca8	8874457	CAAAA/CAA	TATGTCTTCAACCGCCA CAA	GACTGTGCCTTGCCTC TCTC	60.1	427	INTERGENIC	--	--	--
Ca8_P2_8875804	Ca8	8875804	AAAATCAATT/AAAATCAATTCATTCAA ATCAATT	TGCCCTTGCAACTATGA ATG	GGTATTGGGTCGGTTT CTGA	59.8	729	INTERGENIC	--	--	--
Ca8_P2_8877426	Ca8	8877426	C/CTTT	TCAACGTGACGAATCTA TCAAA	AAGTCACATTAGCATG GCCC	60.0	598	DRR	Ca_11518	--	--
Ca8_P2_8881428	Ca8	8881428	CA/CAA	CCAAAGTCAACTGGTCA AAGG	TCGTGAACCTGCTGAA TTGG	59.8	790	INTERGENIC	--	--	--
Ca8_P2_8882024	Ca8	8882024	CTTTT/CTTT	CCAATTGAGCAAGTTCA CGA	GAAAATCCGTGGAATG ATGG	60.1	367	DRR	Ca_11519	--	--
Ca8_P2_8882090	Ca8	8882090	T/TTCCAAAC	ATCATTCCACGATTTT CCA	TGAAAACAAAACAAGAA ACAGAAA	58.1	108	DRR	Ca_11519	--	--
Ca8_P2_8882248	Ca8	8882248	CTTTTTTTTT/CTTTTTTTTTT	ATCATTCCACGATTTT CCA	AATCACGCTCGCACC AAAT	60.5	694	DRR	Ca_11519	--	--
Ca8_P2_8885048	Ca8	8885048	ATTTTTT/ATTTTTTT	GTGTGGAAGCACGAGA CAGA	AAAGGAACATTGTTGG ACCG	59.8	723	DRR	Ca_11520	C	--
Ca8_P2_8886436	Ca8	8886436	ATTT/ATT	GGAGTGGCGAGATTTT TGAG	ACAAGGTCAGCTTTGG GATG	60.1	891	DRR	Ca_11520	C	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_8886584	Ca8	8886584	ACA/ACATATAAAAAATCTGTTCA	CATTTCACACCTACAAC ACG	AAGGTTTTGGTCCTGC AATG	60.0	536	DRR	Ca_11520	C	--
Ca8_P2_8899028	Ca8	8899028	TACACACACACA/TACACACACAC ACA	CCTCCAAGGTTTCTC CTTC	CATTGCTGTTTGACT GCAC	60.3	809	INTRON	Ca_11521	G	--
Ca8_P2_8899206	Ca8	8899206	AT/A	GTGGATGACAAAACCT CGTG	TTCTCATATGCCCTCC AAC	59.9	633	INTRON	Ca_11521	G	--
Ca8_P2_8900727	Ca8	8900727	A/AC	AGTGGGGGCATTGTG ATTA	GAGAAAGTTCACAGGC TGGC	60.0	628	INTRON	Ca_11521	G	--
Ca8_P2_8901973	Ca8	8901973	TCTCTCTCAC/TC	TTGCAATGGTTCAAGCT ACG	TCATTTATCACCTACGG CCC	59.8	393	INTRON	Ca_11521	G	--
Ca8_P2_8903957	Ca8	8903957	AT/ATT	TGCTTTGTTCAATTGCT TGC	ATTGAATGCAGATTTC GGC	60.2	679	INTRON	Ca_11521	G	--
Ca8_P2_8907150	Ca8	8907150	ATT/AT	ATTCTTCGTCCAAACAT GGC	GGAGGGGGAACATTT GGTA	60.2	866	INTERGENIC	--	--	--
Ca8_P2_8907769	Ca8	8907769	TAA/TAAA	TACCAAAGTTTCCCCC TCC	GAGAGCTGAAATTGAC TCACAAGA	60.1	527	INTERGENIC	--	--	--
Ca8_P2_8908078	Ca8	8908078	ATTTTTTTT/ATTTTTTTTT	TACCAAAGTTTCCCCC TCC	TGCAACAAATTGAATG CGAA	60.1	958	INTERGENIC	--	--	--
Ca8_P2_8909443	Ca8	8909443	TATATATACA/TA	TTGCAAGAGCATGAAG AACG	TCATGGGATGGTGAAT GCTA	59.9	457	DRR	Ca_11522	--	--
Ca8_P2_8910515	Ca8	8910515	GAAAAAAAA/GAAAAAAAA	TTTCATCAATGGCAAG TCA	CGATTGTTCTGGTTGT CCCT	60.0	530	DRR	Ca_11522	--	--
Ca8_P2_8920440	Ca8	8920440	TAAAAAAAA/TAAAAAAAA	TGTTTCATGTAAGCCATT GGG	TCCAAACCCATTTCAC CTC	59.8	540	INTRON	Ca_11522	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_8921856	Ca8	8921856	CAAAAA/CAAAAAAAAA	ATGTCATGATGGACCC CATT	GAAAGCAAAGAACGA CCCA	60.2	552	DRR	Ca_11523	--	--
Ca8_P2_8922615	Ca8	8922615	GT/GTT	TGGGTCGTTCTTTGCTT TTC	TCTTGACCCCTATCG AATC	60.0	611	DRR	Ca_11523	--	--
Ca8_P2_8922765	Ca8	8922765	ATCT/ATCTACTCT	GATTTCGATAGGGGTGC AAGA	GGCAAGTGCCTGGAAG TTAG	59.9	335	DRR	Ca_11523	--	--
Ca8_P2_8924623	Ca8	8924623	GTTTTTTTT/GTTTTTTTTT	TAAGCGTAAATAGGCG CCAG	GGGAGGAAAAGAGGA GGTTG	60.0	188	INTRON	Ca_11523	--	--
Ca8_P2_8935135	Ca8	8935135	TAA/TAAA	CTCTGGGTCCCAATTCA AGA	TGTTGCCACAAGAGA CTGG	59.9	511	INTRON	Ca_11524	--	--
Ca8_P2_8936295	Ca8	8936295	TAAT/TAATGAGATACACAAT	TTAGGCACCATCCCTAC GTC	TGGTCAACAGAGAAAG GGCT	59.8	339	INTRON	Ca_11524	--	--
Ca8_P2_8936332	Ca8	8936332	AC/A	TTAGGCACCATCCCTAC GTC	TTTCTGGAGCCAAGAC AGGT	59.8	571	INTRON	Ca_11524	--	--
Ca8_P2_8936394	Ca8	8936394	ATTT/ATT	TTAGGCACCATCCCTAC GTC	TTTCTGGAGCCAAGAC AGGT	59.8	571	INTRON	Ca_11524	--	--
Ca8_P2_8936631	Ca8	8936631	TAGA/TA	TTAGGCACCATCCCTAC GTC	CCAAAGGTTGTGAAGG GAGA	60.1	862	INTRON	Ca_11524	--	--
Ca8_P2_8936937	Ca8	8936937	AT/AATT	CAGCCCTTTCTCTGTG ACC	AAAGGAAGTGCGAGCA AAAA	60.0	715	INTRON	Ca_11524	--	--
Ca8_P2_8937565	Ca8	8937565	ATTATA/ATTATATTAATTTTATA	TTTTTGCTCGCACTTCC TTT	TGCATGCTTATGTTTAT GGTAGG	59.1	687	INTRON	Ca_11524	--	--
Ca8_P2_8938068	Ca8	8938068	A/AC	AAGCATGCATTTAATTT ATCCAAA	AAATCTGCACCCTCAA CACC	60.0	500	INTRON	Ca_11524	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_8938717	Ca8	8938717	G/GATA	GGTGTGAGGGTGACG ATTT	GCAAGACATTACGTT GCAC	60.3	751	INTERGENIC	--	--	--
Ca8_P2_8940251	Ca8	8940251	TAAAAAAAA/TAAAAAAAAA	TGCATTTTAACCTTGT ACATCG	TACCGGAGAAAGCCAC AAAC	60.1	770	INTERGENIC	--	--	--
Ca8_P2_8940349	Ca8	8940349	TAAAAA/TAAAAA	TGCATTTTAACCTTGT ACATCG	TACCGGAGAAAGCCAC AAAC	60.1	770	INTERGENIC	--	--	--
Ca8_P2_8954679	Ca8	8954679	TAAAAA/TAAAAA	ATCCATCGAGCAAGTC GTTT	TTGTCTCTCTGTACTT CCTCC	59.6	425	INTERGENIC	--	--	--
Ca8_P2_8956561	Ca8	8956561	TG/TGATCG	GCCATGCCATCCTTGAT AAT	ATGTCCAACATCTGCTT CCC	59.9	628	INTERGENIC	--	--	--
Ca8_P2_8956894	Ca8	8956894	A/AC	ATGGGAAGCAGATGTT GGAC	TGCACCAAAATATGGAT GTGA	59.8	120	INTERGENIC	--	--	--
Ca8_P2_8964218	Ca8	8964218	AGG/AGGG	GGCTGGCCTCTACAAC TGAG	AGGGCCACAACACTCC CTAT	60.8	221	INTERGENIC	--	--	--
Ca8_P2_8964234	Ca8	8964234	A/AT	GGCTGGCCTCTACAAC TGAG	AGGGCCACAACACTCC CTAT	60.8	221	INTERGENIC	--	--	--
Ca8_P2_8968316	Ca8	8968316	GTTTTTTT/GTTTTTTTTT	TGTTGAGCATACCATC GGA	TCGTGTCTCATGTTCT GCCT	59.4	780	INTERGENIC	--	--	--
Ca8_P2_8968364	Ca8	8968364	GTT/GTTT	TGTTGAGCATACCATC GGA	TCGTGTCTCATGTTCT GCCT	59.4	780	INTERGENIC	--	--	--
Ca8_P2_8968772	Ca8	8968772	TGAGACACG/T	CCTCAAAGTGGAGA AACA	TTTGCCAATGTTGCTAG CTG	60.0	376	INTERGENIC	--	--	--
Ca8_P2_8969277	Ca8	8969277	TAAAAA/TAAAAA	GCAACATTGGCAAAA GTGA	CACATGGCCGTGGGTA AAT	61.6	534	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_8972356	Ca8	8972356	TC/T	TCCCATGACATCACAAAG	TGAGAAAATTTGGCAA GGG	60.0	592	INTERGENIC	--	--	--
Ca8_P2_8979684	Ca8	8979684	A/AAT	GTCTTGCGCCCAATTATGT	TTGAGGAATTTCCGC ATTC	60.0	476	INTERGENIC	--	--	--
Ca8_P2_8980500	Ca8	8980500	AG/AGAATACGTTTATG	TTGTTTTAGATCTGGC GGG	TTTGCGCCCACTTTTAG AAC	60.2	257	INTERGENIC	--	--	--
Ca8_P2_8994344	Ca8	8994344	A/AGG	TTCACCTCAACGGTTGT GGA	CGAAAATTCAAAATGAA GGAACA	60.3	665	INTERGENIC	--	--	--
Ca8_P2_8995565	Ca8	8995565	CCTCT/CCTCTCT	GTTGCAAAGTCAACGG GTTT	TGAAAATTCGAAATGTT GATTCATCT	60.1	330	INTERGENIC	--	--	--
Ca8_P2_8995674	Ca8	8995674	ATTTTT/ATTTTTTTT	GTTGCAAAGTCAACGG GTTT	TTTTAAAAAGTGTGTTGT ATTAGGGAA	58.0	443	INTERGENIC	--	--	--
Ca8_P2_8996810	Ca8	8996810	TTATATATATATATATATATAT/TTA TATATATATATATATATATAT	AGTTTATGCGGGCGAT TATG	TACCATATCCCACCC ACG	60.4	513	INTERGENIC	--	--	--
Ca8_P2_8996867	Ca8	8996867	AAATAA/AAA	AGTTTATGCGGGCGAT TATG	TACCATATCCCACCC ACG	60.4	513	INTERGENIC	--	--	--
Ca8_P2_8997118	Ca8	8997118	GTGGGATGGGA/GTGGGA	AGTTTATGCGGGCGAT TATG	CCGTGAATGCAGTTAC TTTTG	58.4	707	INTERGENIC	--	--	--
Ca8_P2_8998721	Ca8	8998721	TCC/TC	TTAACGACGAAAATGAA TTAAAAA	AAGTATGCATTTGTTGC CTTCA	59.7	546	INTERGENIC	--	--	--
Ca8_P2_9004500	Ca8	9004500	TA/TAA	CAATTTTGCACTTGATA GCCAA	GTGCTGCGTAGTGACC GTTA	59.9	233	INTERGENIC	--	--	--
Ca8_P2_9005048	Ca8	9005048	GTTTTTTTT/GTTTTTTT	TAACGGTCACTACGCA GCAC	CGGTGGCCACATTACA TACA	60.3	809	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_9025436	Ca8	9025436	T/TA	TTGTAACACCCGTTTT TCG	GCCCTCAGATGAGAGT CAGG	59.9	447	INTERGENIC	--	--	--
Ca8_P2_9057136	Ca8	9057136	TAAAAAA/TAAAAAAA	GCGGAGACGCACTAC TGTT	TGGCTTTGTGAAGTCC AAGA	59.4	599	DRR	Ca_11528	--	--
Ca8_P2_9078335	Ca8	9078335	AATTAATTTTGAT/AAT	TCTTGATCTTCACTTA GCAATGG	AAACAAAACCATGATG GGGA	60.0	713	INTERGENIC	--	--	--
Ca8_P2_9081856	Ca8	9081856	ATT/AT	TGGCACCACTCATATT TCA	CCTTTTCCACCTTGCA T	59.9	322	INTERGENIC	--	--	--
Ca8_P2_9084472	Ca8	9084472	TACTTCA/TA	GGGCCAAAAAGTTTCA CAAA	TCCATTTCCTTAATTT CCC	60.0	661	INTERGENIC	--	--	--
Ca8_P2_9085524	Ca8	9085524	GA/GAA	TAACTTCCCACTCCAC GTC	GAAGATTGTCTCAATG GCCC	59.5	573	INTERGENIC	--	--	--
Ca8_P2_9085711	Ca8	9085711	AGGG/AGG	ATGTATTTGGCAGCAGA GGG	CAAGAGGGAATCTCTT GGGG	60.9	473	INTERGENIC	--	--	--
Ca8_P2_9087628	Ca8	9087628	ATATTATTATTATT/ATATTATTATTATTA TT	TTGGACCCCATCTTACT TGG	TGTAGCATCCCATTTTC CACT	59.4	741	INTERGENIC	--	--	--
Ca8_P2_9088156	Ca8	9088156	TAAAAAA/TAAAAA	AGTGGAATGCGGATG CTACA	CACAAATTTCAACGACA AATCG	60.4	534	INTERGENIC	--	--	--
Ca8_P2_9088516	Ca8	9088516	CTTT/CTT	CGATTTGTCGTTGAAT TTGTG	CCATACAAAACACAAG GTGTCG	60.3	479	INTERGENIC	--	--	--
Ca8_P2_9089194	Ca8	9089194	TAATAAAATAAAATAAAATAAA/TAATA AAATAAAATAAA	CGCGTTCCCAATGTTT AAT	CCCTAATCTTCACCAAC CGA	59.9	513	INTERGENIC	--	--	--
Ca8_P2_9101430	Ca8	9101430	AATAT/AAT	CAAGGTTCTCCAGAAAC CCA	ACACGTGTGCGCTCAA AATA	60.3	671	DRR	Ca_11533	--	C2H2

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_9101623	Ca8	9101623	CT/CTTT	CAAGGTTCTCCAGAAACCA	ACACGTGTGCGCTCAAATA	60.3	671	DRR	Ca_11533	--	C2H2
Ca8_P2_9102997	Ca8	9102997	TTAAGT/TTAAGTAAGT	TTCGAAAACGGAAAAATTGA	AGAATTGCTCCTTGCCAAAA	59.8	633	DRR	Ca_11533	--	C2H2
Ca8_P2_9103038	Ca8	9103038	CAAAAA/CAAAAAA	TTCGAAAACGGAAAAATTGA	AGAATTGCTCCTTGCCAAAA	59.8	633	DRR	Ca_11533	--	C2H2
Ca8_P2_9109692	Ca8	9109692	ATTTTTTTTT/ATTTTTTTT	GGTTGAGAAAACAACC CCCT	GAAAGTTGGGGAACGTG ACCA	59.9	256	INTERGENIC	--	--	--
Ca8_P2_9109737	Ca8	9109737	TTATATAT/TTATATATAT	GGTTGAGAAAACAACC CCCT	GAAAGTTGGGGAACGTG ACCA	59.9	256	INTERGENIC	--	--	--
Ca8_P2_9114161	Ca8	9114161	AT/A	AAGGCAACCACATGGA AAAG	TGCCCCATATACGTTT CAAT	60.0	674	INTRON	Ca_11534	--	--
Ca8_P2_9116617	Ca8	9116617	CA/CAA	TGTGACAGTGCCAAAT CCAT	TCTATGAAGTCTGTC GCTT	60.0	465	DRR	Ca_11535	--	--
Ca8_P2_9117684	Ca8	9117684	CAA/CAAA	CGCAAATTCAGCGAAG TACA	GGACCTTGGCAGTTTG GATA	59.9	370	DRR	Ca_11535	--	--
Ca8_P2_9127131	Ca8	9127131	TTATATATATATATA/TTATATATATATA	TGCTCATAGCCAGCCTT TCT	CCGTTTCGACAACACC TTTT	60.0	418	INTERGENIC	--	--	--
Ca8_P2_9129065	Ca8	9129065	TAG/TAGAAG	TCCATGGACCTTCACTC CTC	GCCTTCTTCACTTTGT GCTC	60.0	619	CDS (large-effect mutations)	Ca_11536	Q	Nin-like
Ca8_P2_9131797	Ca8	9131797	AAGA/AA	TTCGCTTCAGATTTCCT TTT	TCAACTCTTCAACCAC TGGC	60.3	447	DRR	Ca_11536	Q	Nin-like
Ca8_P2_9134873	Ca8	9134873	CTT/CTTT	GGCCTTGGGCATATGA ATTA	GTGATGATTTTGGCTT GCCT	60.1	113	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_9137514	Ca8	9137514	GTTTT/GTTTTT	TTTTGGGTATCATTA GCC	TCGTTTGGGAGATTTC GAGT	59.7	536	INTERGENIC	--	--	--
Ca8_P2_9149110	Ca8	9149110	CTTTTTT/CTTTTTT	GCAAAAAGTGAAGGATT CGC	TGCATGCAGTAAAAAG TATCCA	58.4	557	INTERGENIC	--	--	--
Ca8_P2_9151971	Ca8	9151971	ATTT/ATT	CTGAGCAATGCATCTG GTGT	ACCGTTGTTTGATTTCG ACC	59.8	646	INTRON	Ca_11539	O	--
Ca8_P2_9152450	Ca8	9152450	ATT/ATTT	CAGCCTGTTCAAAATG CAA	GCATTTGAGGATGCTG GATT	60.0	257	INTRON	Ca_11539	O	--
Ca8_P2_9153262	Ca8	9153262	CA/CAAGTA	CAGAACTCTGCGGTC AACA	TGCTGCCAGAACTTAT CGTG	60.0	431	INTRON	Ca_11539	O	--
Ca8_P2_9153656	Ca8	9153656	TAAAAAA/TAAAAAAA	CAGCACGATAAGTTCT GGCA	GGGGAATAGAGTGGGA TGCT	60.3	420	INTRON	Ca_11539	O	--
Ca8_P2_9153702	Ca8	9153702	AAAGAAG/AAAG	CAGCACGATAAGTTCT GGCA	GGGGAATAGAGTGGGA TGCT	60.3	420	INTRON	Ca_11539	O	--
Ca8_P2_9154259	Ca8	9154259	AC/A	ATGGCCAAATTCATGGA AGA	AAAAGAAAGTTGCCCA GGCT	60.2	667	INTRON	Ca_11539	O	--
Ca8_P2_9154611	Ca8	9154611	CAAA/CAAAA	CGGCACATCAAATTGC AGT	CCAGTAGGAAGCAAGC CAAG	60.0	655	INTRON	Ca_11539	O	--
Ca8_P2_9155571	Ca8	9155571	A/AT	GGCGCAGTTCTTCCTAT GAG	CCAACGGTTACATCAA GGCT	60.0	610	INTRON	Ca_11539	O	--
Ca8_P2_9170028	Ca8	9170028	AA/ACA	TGTGTGGTCCAACAAG GAGA	CTGTTGCGTTGAAGCA GGTA	60.1	454	INTRON	Ca_11540	E	bZIP
Ca8_P2_9177154	Ca8	9177154	CAAAA/CAAAAAA	TTCCCCAACAATTTTTC ACG	GGATCCAATGAGCGAT GAAG	60.6	338	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_9184889	Ca8	9184889	AT/ATT	CGAAAAATTTTACCCCA TACC	CGAATAAGGCAGATT CCCA	60.0	585	INTERGENIC	--	--	--
Ca8_P2_9189253	Ca8	9189253	AG/A	TGTGTGAACATGAGAA CCCC	AGGTTCCAATGGATTTT GACA	59.3	808	INTERGENIC	--	--	--
Ca8_P2_9198698	Ca8	9198698	CAAAAAA/CAAAAAAA	GGACCATGTTTCATGCG ACTA	GAATCTGTCCTTGGA GCTG	59.8	437	INTERGENIC	--	--	--
Ca8_P2_9199467	Ca8	9199467	ATT/AT	AGTCCCAAGGACAGA TTCA	GCAAAGATATGATTGG GCGT	59.9	692	INTERGENIC	--	--	--
Ca8_P2_9201647	Ca8	9201647	CA/CAA	GTCTCGATCGCAAGTC ACAA	GATATATACGGCTGAC GGCG	60.5	300	INTERGENIC	--	--	--
Ca8_P2_9201705	Ca8	9201705	GATGTATTATGTAT/GATGTAT	GTCTCGATCGCAAGTC ACAA	GATATATACGGCTGAC GGCG	60.5	300	INTERGENIC	--	--	--
Ca8_P2_9205823	Ca8	9205823	ATTTTTTT/ATTTTTTTT	CCAAATGAGGTGTAGC TGGC	AAGTGTGCAAAAGGT TGGG	60.0	522	INTERGENIC	--	--	--
Ca8_P2_9205968	Ca8	9205968	GT/GTATT	CCAAATGAGGTGTAGC TGGC	AAGTGTGCAAAAGGT TGGG	60.0	522	INTERGENIC	--	--	--
Ca8_P2_9210660	Ca8	9210660	TT/TTGGT	TGACGACTCATTTTCG CAG	CCATACACCATGCATT GACC	59.7	493	INTERGENIC	--	--	--
Ca8_P2_9215036	Ca8	9215036	GTTTTTTT/GTTTTTTT	CATCCTCTGGTTGGAC GACT	TTTTTCCCCGACACAT AAG	59.8	837	INTERGENIC	--	--	--
Ca8_P2_9216048	Ca8	9216048	TA/T	GATCGCATGAGCATTAA CGA	CGCCAATTGCTCTTTG GATT	59.9	159	INTERGENIC	--	--	--
Ca8_P2_9218033	Ca8	9218033	ATTTT/ATTTT	CAAAATCAGGTGTTGG CTGA	CGGTGTCAAAGTCAGG GAAT	60.0	730	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_9220067	Ca8	9220067	C/CTA	AAAATTAGGGGAACA CAGGA	GTATGTGTGGTGCCAT TTGC	59.9	909	DRR	Ca_11542	--	--
Ca8_P2_9220136	Ca8	9220136	ATTT/ATT	AAAATTAGGGGAACA CAGGA	GTATGTGTGGTGCCAT TTGC	59.9	909	DRR	Ca_11542	--	--
Ca8_P2_9220373	Ca8	9220373	CAAA/CAA	ACCATTCAAGTAGCCGA CCA	GGCATCACCTCGAAA ACTA	60.1	651	DRR	Ca_11542	--	--
Ca8_P2_9230220	Ca8	9230220	CTTATTTATTTATTTATTTATTTAT TTATTTATTTATTT/CTTATTTATTTATTT ATTTATTTATTTATTTATTTATTTAT TT	TTGGATTCCCAAGCAAA ATC	GATGACCGAGGAAGTG GAAG	59.7	799	INTERGENIC	--	--	--
Ca8_P2_9274060	Ca8	9274060	AA/AATA	AACAACAGAGCCTGCG AACT	TCCATGTTTCCGGTTTT CAT	60.2	486	INTRON	Ca_11549	--	NAC
Ca8_P2_9274401	Ca8	9274401	C/CTACG	AACAACAGAGCCTGCG AACT	TCCATGTTTCCGGTTTT CAT	60.2	486	INTRON	Ca_11549	--	NAC
Ca8_P2_9300142	Ca8	9300142	CTTTTTTTT/CTTTTTTTTT	AAGGCCAACAAATGCAA AAC	GCAATCCACAGGTA TGCT	60.0	362	DRR	Ca_11551	Q	--
Ca8_P2_9314240	Ca8	9314240	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATAT AT	CCTCCGAGTCAAAATCC AAA	GTAATTTGCGTCGT GTGG	60.0	417	INTERGENIC	--	--	--
Ca8_P2_9327905	Ca8	9327905	GTCTC/GTC	GCATGGAAGTATGCCT CCTC	AATTGAGAACCATTTTG CCG	59.9	698	DRR	Ca_11554	Z	B3
Ca8_P2_9355298	Ca8	9355298	TTCT/TT	GAAGAGCTAACAGTTG GCGG	GGGAATTGGCAAGTAG TGGA	59.9	431	INTRON	Ca_11556	AR	--
Ca8_P2_9357060	Ca8	9357060	TATTA/T	CTTTGTTGCGTTGTTCC GTT	CATCATCCACGGGTGA CATA	60.2	620	INTERGENIC	--	--	--
Ca8_P2_9359795	Ca8	9359795	TAAAA/TAAAAA	GGTAGGGTTCGGGTAG GGTA	TGCACCCGCACTTATA AAAA	59.2	631	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_9364522	Ca8	9364522	ATT/ATTT	TTGTCGGTGAGATTGT GTGAA	AAAGATTGTGATTTGG CGG	59.9	802	INTERGENIC	--	--	--
Ca8_P2_9390120	Ca8	9390120	TTAAAATAAAATA/TTAAAATAAAATAAA ATA	TGGACGGTTTAATTTAT TCTCACTC	CTCGTGAGTCACATTG CACA	59.4	583	INTERGENIC	--	--	--
Ca8_P2_9390144	Ca8	9390144	CATATATATATATATATAT/CATATATAT ATATAT	TGGACGGTTTAATTTAT TCTCACTC	CTCGTGAGTCACATTG CACA	59.4	583	INTERGENIC	--	--	--
Ca8_P2_9397792	Ca8	9397792	ATTTTTT/ATTTTTTT	CCGCTCAAAATCATCGT ACA	ACGGGCATCTAATGTT GAGG	60.0	244	INTERGENIC	--	--	--
Ca8_P2_9398534	Ca8	9398534	AG/A	TGATGCATGGATTATT CGTT	CGATCAACTCAACCCG ATTT	59.9	771	INTERGENIC	--	--	--
Ca8_P2_9403569	Ca8	9403569	T/TCAATA	ATCAACCACCGCTCAAA ATC	GCAATTACGGGCATCT AACG	60.5	258	INTERGENIC	--	--	--
Ca8_P2_9405815	Ca8	9405815	C/CCT	ATCCTGATCGTAGGGC ATGA	GTCGTGACGTATTGGT GTGG	59.9	857	INTERGENIC	--	--	--
Ca8_P2_9406855	Ca8	9406855	AT/ATT	AATCTTCCCATGTCCAG CAC	GAAATACCAAGACCCC ATGC	59.2	572	INTERGENIC	--	--	--
Ca8_P2_9406950	Ca8	9406950	CTTTTTT/CTTTTTTTT	AAGTGCTTGTGCTTTT GGG	TGCAAATACCAATTGCCA AGT	59.0	499	INTERGENIC	--	--	--
Ca8_P2_9417050	Ca8	9417050	A/AC	ACACGAAATTGCTCAG CCT	AACCGGCTCTCTTAA CCGT	59.9	697	INTERGENIC	--	--	--
Ca8_P2_956545	Ca8	956545	ATA/ATAGTA	TAACTCAAGGGAAGC CTCA	GTGGGTGGGTAGCTGA ACAT	59.9	850	INTERGENIC	--	--	--
Ca8_P2_9950946	Ca8	9950946	CTT/CTTGTCGATT	ACCATGGCTTATTGGTC AGC	TGGCATAATGTCAGAC GCAT	60.1	310	INTRON	Ca_18394	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca8_P2_9953316	Ca8	9953316	TTGTGT/TTGTGTGT	AGCAGCAACAACCGTC TTTT	AAAAATCGATCGGGTG CATA	60.3	312	DRR	Ca_18394	--	--
Ca8_P2_9960024	Ca8	9960024	CATAATAATAAAT/CATAATAATAATA ATAATAATAAT	CCATTGGGATGTTTGCT TTT	GCTCATGTGGTGGTGT TTTG	60.0	280	INTRON	Ca_18395	--	--
Ca8_P2_9960226	Ca8	9960226	C/CT	CAAAACACCACCACATG AGC	TGATTGGGACGAACAA CAAA	59.9	184	INTRON	Ca_18395	--	--
Ca8_P2_9974436	Ca8	9974436	CA/CTAGTTTCTGTA	TTAGAAACAACGTTTCG GGG	CACCATGGTTTCTCAT GTGG	59.8	302	INTERGENIC	--	--	--
scaffold10_P2_68796	scaffold10	68796	GATAATAATAATAATAATAATAATAA TAATAA/GATAATAATAATAATAATAATA ATAATAATAATAATAA	AAAGCAACCAATGGG CATA	ATGAATGGAAGACGTG ACGA	59.1	657	INTERGENIC	--	--	--
scaffold10_P2_87632	scaffold10	87632	ATTTT/ATTT	AGCGAATTCGGAGTGA GAAA	ACACGAACGGGGATTA TGAA	60.2	324	INTERGENIC	--	--	--
scaffold10_P2_90045	scaffold10	90045	ATT/ATTT	AGTTGTTACAATCCACC GGC	TTTTACTGTTACGCGC AAG	60.1	255	INTERGENIC	--	--	--
scaffold10_P2_92559	scaffold10	92559	TGTC/T	TGGGGTTTAGGGTGTC ACAT	AAAGTCCAACAATCTCC CCC	60.2	381	INTERGENIC	--	--	--
scaffold1003_P2_13636	scaffold1003	13636	GAAGTAAAG/GAAG	TGCCACTATCGGGCTA ATTT	ATTTTCGCATCCAATTA CCG	59.8	885	DRR	Ca_27802	QR	B3
scaffold1003_P2_41332	scaffold1003	41332	G/GAGCGGT	GGGATTTGAAGGTGCT GAAA	TAGTGCCACAACCAA CTCA	60.2	452	INTERGENIC	--	--	--
scaffold1003_P2_41466	scaffold1003	41466	AAAGA/AAAGAAGA	GGGATTTGAAGGTGCT GAAA	TAGTGCCACAACCAA CTCA	60.2	452	INTERGENIC	--	--	--
scaffold1006_P2_105717	scaffold1006	105717	CTTTTTTTTTTTTT/CTTTTTTTTTTTTT	TTCACGGGTGTGCCATC TGT	TTATTGTCGCGTTTGGT TTG	59.6	536	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1006_P2_621524	scaffold1006	621524	AATATATATATATATATATATATATA/A ATATATATATATATATATATATATA	TGGGCCACCACTATT GACT	GTGATTGCGCCATGA TTAG	59.1	803	INTERGENIC	--	--	--
scaffold1006_P2_624934	scaffold1006	624934	CT/CTTAAAGAATT	TCCATTGCATAAAAGTT TTGTTT	TCATTCTTGCCTCTCC CTT	59.8	123	INTERGENIC	--	--	--
scaffold1006_P2_655490	scaffold1006	655490	GTTTTTTTT/GTTTTTTTTT	CTTTGGTTGTGCAATG GTG	ATGCCTTCATCAACTTT GGG	59.9	615	INTERGENIC	--	--	--
scaffold1006_P2_681915	scaffold1006	681915	ATTTTTTTTT/ATTTTTTTTTT	GGGATAGGAACAAAGA GCCC	TGGAAGGCTACCGAAT ATGG	59.9	949	INTERGENIC	--	--	--
scaffold1008_P2_12678	scaffold1008	12678	TC/T	TCTTGGTTGTAACCCTT GGC	GGGCTGATGCCATAAA CACT	60.0	727	INTERGENIC	--	--	--
scaffold1008_P2_20458	scaffold1008	20458	T/TATA	TGTTTGACTGATGTTAA GTGTGC	GGGGTGCAGATTCTG ATGT	59.9	562	INTERGENIC	--	--	--
scaffold1010_P2_106136	scaffold1010	106136	TTATATATATATATATATATAT/TTA TATATATATATATATATATATAT	TTTGAAAATCCCAATT GCC	TGGAGGTGAACACTT TCCC	59.9	708	INTERGENIC	--	--	--
scaffold1010_P2_21084	scaffold1010	21084	ATGC/ATGCTGC	TGTAACCCGTGTGGAT GAA	ACCGGTTTGTGATTGT CCTC	59.8	729	INTERGENIC	--	--	--
scaffold1010_P2_93835	scaffold1010	93835	GTTT/GTTTT	CGCCACCTTTGTTAGT CAT	CTGGTGCAAAAAGCAA GACA	60.0	589	INTERGENIC	--	--	--
scaffold10103_P2_4446	scaffold10103	4446	A/AC	GGGTTCTCGTCAGAT TTCA	AATGGAATAAGGGTTT CCCG	60.0	625	INTERGENIC	--	--	--
scaffold1013_P2_33362	scaffold1013	33362	TAAA/TAAAA	TCATTACTGCCATAAT TGAAA	CAATCACGCTCAATGC CTAA	59.8	437	INTERGENIC	--	--	--
scaffold1013_P2_39772	scaffold1013	39772	AATATATATATATATATATATATAT AT/AATATATATATATATATATATATAT AT	ACGAAACAGGGAGGTT TGTG	CGGTGAATCCTTTACG GAGA	60.1	624	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1027_P2_152594	scaffold1027	152594	CAA/CA	TGAGTGCACGGATTG TAAA	CTCAGCCCCTGACTTA ATGC	59.8	692	INTERGENIC	--	--	--
scaffold1027_P2_78051	scaffold1027	78051	T/TCTGATG	CGGTCTCAACCTCTCC CATA	AAATCCACAATCTCC CCC	60.0	453	INTERGENIC	--	--	--
scaffold10285_P2_986	scaffold10285	986	CTAGGAAAAA/CTAGGAAAAATTAGG AAAAAA	CGAAACTCAGAAAGG CGAC	GCCTTATGTGAAAGA CACCA	60.0	513	INTERGENIC	--	--	--
scaffold10320_P2_1199	scaffold10320	1199	CTT/CT	ATTTGGCGTTTGCGATA GAC	GCCAGGCCAGACCATA AGTA	60.1	702	INTERGENIC	--	--	--
scaffold10356_P2_1034	scaffold10356	1034	GCCCAAT/GCCCAATGGATTCCCAAT	CAATTCCGGATCCTTCT TGA	CACCTATGCAAAAAGG GGGA	59.9	839	INTERGENIC	--	--	--
scaffold1036_P2_204998	scaffold1036	204998	AAATTGGAATTGGAATTGGACTTGGAA TTGGACTTGGAAATTGGAA/AAATTGGAA TTGGACTTGGAAATTGGACTTGGAAATTG GAA	GCAAGCGACTATGGGT AAGG	TACATAGTTACGGAGC CGCC	60.1	273	INTERGENIC	--	--	--
scaffold1036_P2_76905	scaffold1036	76905	ATTT/ATT	AGGGAGGACGAAAATG ACCT	TGTGCATCCAAAAGGT GTGT	60.0	361	INTERGENIC	--	--	--
scaffold1038_P2_2468	scaffold1038	2468	AGGG/AGG	TCCAGATGAAATCGAG GACC	TTTTCGGACTAGACGA TGGG	60.1	440	INTERGENIC	--	--	--
scaffold1038_P2_720	scaffold1038	720	TGG/TG	CGAAAAATCGCCAGAA AATA	TCCTGGTCCTCGATTT CATC	60.0	842	INTERGENIC	--	--	--
scaffold1039_P2_3089	scaffold1039	3089	ATTTT/ATTT	CGAAGTTCCTTTCAGCC AAC	CCCATCCTTCTTCTTGA CCA	60.0	358	INTERGENIC	--	--	--
scaffold1039_P2_32679	scaffold1039	32679	T/TGTTG	TTCCCTAGATCCTTCGC AGA	TGGATGGTAATCCAAC GTGA	59.8	623	INTERGENIC	--	--	--
scaffold1039_P2_41739	scaffold1039	41739	AATATATATATATATATATA/AATATAT ATATATATATATATATA	CTTGGGAAGTGGAGAG CAAG	ACCTTCACGTTTCGATTA CGG	60.0	809	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1046_P2_11369	scaffold1046	11369	GA/G	AGCCTAGGGAGGACGA ATGT	TACCAATCCTGTGCAT CCAA	59.9	464	INTERGENIC	--	--	--
scaffold1046_P2_17706	scaffold1046	17706	ACC/AC	CATTGGATGCACAAGAT TGG	AGGTCATTTTCGCCTC CCT	59.9	871	INTERGENIC	--	--	--
scaffold1046_P2_20332	scaffold1046	20332	TAAAAAAA/TAAAAAAA	GCGCAACAAACCTAT GTGA	TCAGGTCATTTTCGTCC TCC	60.1	788	INTERGENIC	--	--	--
scaffold1046_P2_21076	scaffold1046	21076	GAAA/GAAAA	GGAGGACGAAATGAC CTGA	ACCGATCTTGTGCATC CAAT	60.3	671	INTERGENIC	--	--	--
scaffold1046_P2_2129	scaffold1046	2129	TAAAAAAAAAAAAAAAAA/TAAAAAAA AAA	CCAATGACACAAATGAC CGT	CATTTTCGTCTCCTTA GGC	58.8	498	INTERGENIC	--	--	--
scaffold1046_P2_31524	scaffold1046	31524	AGGGGGGGG/AGGGGGG	AGGGAGGACGAAATG ACCT	TTGTTGGCCAATTAGG GTTT	59.3	395	INTERGENIC	--	--	--
scaffold1047_P2_103054	scaffold1047	103054	TC/T	TGCATTCCCTATGGTCA ACA	CTTCATCAGCAAGCAT CCAA	59.9	564	INTERGENIC	--	--	--
scaffold1047_P2_103068	scaffold1047	103068	GTTT/GTTTT	TGCATTCCCTATGGTCA ACA	CTTCATCAGCAAGCAT CCAA	59.9	564	INTERGENIC	--	--	--
scaffold1047_P2_132182	scaffold1047	132182	TTTGC/T	TTTCTTTGGGCCCTCC TAT	AGTTTCCTTTGTCGCC CTTT	60.1	705	INTERGENIC	--	--	--
scaffold1047_P2_163635	scaffold1047	163635	ATTTTTTTTT/ATTTTTTTTT	GGTGGCATCTAACCAT CCAA	GGAAGGAAGGGATATG GGAA	60.1	198	INTERGENIC	--	--	--
scaffold1047_P2_282094	scaffold1047	282094	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	GTCACGGAGACAATC CACT	TTGAGGGGTGGGAGTT AAAA	59.4	280	INTERGENIC	--	--	--
scaffold1047_P2_308070	scaffold1047	308070	T/TA	TGTTGTTGACCCATACA AAATCA	ATGAAAACAAAACCC GCAG	60.0	561	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1047_P2_312163	scaffold1047	312163	A/AG	TGATGAAAAGCAGCA CTGG	TTGGATTCATGTGTGA GTGG	57.9	688	INTRON	Ca_17199	I	--
scaffold1047_P2_313122	scaffold1047	313122	GAAAAAAAA/GAAAAAAAAA	AAAATCCACACGTCGG AAG	TCAAAAGATCGCAGTT GTGTG	59.9	354	INTRON	Ca_17199	I	--
scaffold1047_P2_313941	scaffold1047	313941	ATTTTTTTTT/ATTTTTTTTT	GATGGTGGTTTGGATG CAG	TGGATAAACCATTCGAA TAGAGC	59.5	283	INTRON	Ca_17199	I	--
scaffold1047_P2_327752	scaffold1047	327752	TT/TTTATCGT	TTTATCGTGTGGAAGG CTCC	CAAACTAATCCATGGC ACG	59.0	528	INTERGENIC	--	--	--
scaffold1047_P2_35139	scaffold1047	35139	CGGGG/CGGG	CTTGACTAAGTTCGCTG CCC	TTTCAAACATGGGGTG GTCT	60.2	266	INTERGENIC	--	--	--
scaffold1047_P2_419626	scaffold1047	419626	C/CAAACATG	CCGATGAAAATCACCC ATC	CCATTGATAAAGCGTG TACGG	60.4	327	INTERGENIC	--	--	--
scaffold1047_P2_43221	scaffold1047	43221	ATTTT/ATTTT	AAGTTTAATGGGTTTGG CCC	GGCAATTTTGTGTGTT CGTT	59.8	771	INTERGENIC	--	--	--
scaffold1047_P2_461378	scaffold1047	461378	TTATATATATATATATATA/TTATATAT ATATATATATATATATA	TATATGCTTGACGAG GCTG	ACTCCAAAAGCACCGA CAAT	59.6	514	INTERGENIC	--	--	--
scaffold1047_P2_461476	scaffold1047	461476	TAAAA/TAAAAA	TATATGCTTGACGAG GCTG	ACTCCAAAAGCACCGA CAAT	59.6	514	INTERGENIC	--	--	--
scaffold1047_P2_465736	scaffold1047	465736	CTATATATATATATAT/CTATATATATA TATATATAT	AGGCAATGAGAGGGG AGTT	GCATCGCGTGTGTCA CTAT	59.8	346	INTERGENIC	--	--	--
scaffold1047_P2_498106	scaffold1047	498106	GAT/GATAT	CGCCACTATTTAAAATC GCC	GGGTGGTGCCTGTAG TTAT	60.0	646	INTERGENIC	--	--	--
scaffold1047_P2_500508	scaffold1047	500508	ATTTTT/ATTTTTTT	CCTCAAATTAGGGAGA CCCC	ACACTCATTCGATTGG CCTC	60.1	562	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1047_P2_512253	scaffold1047	512253	GTTTTTTTTT/GTTTTTTTTT	TCTCTTGAATCCCTG AAA	ACCATGGGGTTCCTAT GACA	60.1	766	INTERGENIC	--	--	--
scaffold1047_P2_52364	scaffold1047	52364	TA/TAA	GGTGGTGAAACCTCAC CCTA	TTCAACAAATGCATTC ACG	58.2	383	DRR	Ca_17175	R	Trihelix
scaffold1047_P2_527453	scaffold1047	527453	GTTTTTTTTT/GTTTTTTTTT	ATCAGAGGCAAAGTGC CAAT	TACCCAGGCTTTTCTCA TGG	60.1	378	INTERGENIC	--	--	--
scaffold1047_P2_5356	scaffold1047	5356	CAAAAAAAAA/CAAAAAAAAA	GAAAGAGGCAGAACAC CAGC	AAAGGCAGGGAATCAA AGGT	59.9	732	INTRON	Ca_17174	QI	bHLH
scaffold1047_P2_5457	scaffold1047	5457	GAAAAAAAA/GAAAAAAAA	GAAAGAGGCAGAACAC CAGC	AAAGGCAGGGAATCAA AGGT	59.9	732	INTRON	Ca_17174	QI	bHLH
scaffold1047_P2_564643	scaffold1047	564643	TTATATATATATATATATATATATAT TA/TTATATATATATATATATATATAT TATATA	TGACACATGCCAACACT TCA	CTTCCGTTTtaggtcc CTCC	59.9	453	INTERGENIC	--	--	--
scaffold1047_P2_595067	scaffold1047	595067	GTT/GTTT	AGGAACGCCTGGAGAA AGAT	CGCACCTAAACCTCCT TTCA	60.2	507	INTRON	Ca_17227	Z	--
scaffold1047_P2_59966	scaffold1047	59966	TTATAT/TTATATATAT	GGGTCTTCAAGTCCATT CCA	TGCCCATATTGAAGCTT TCC	60.0	266	CDS (FRAME SHIFT)	Ca_17176	G	--
scaffold1047_P2_70412	scaffold1047	70412	GT/G	ATCCCTGGCTCAGGTA TGTG	CAGGTCCCTCTACCTC TCCC	60.1	343	INTRON	Ca_17177	Z	Dof
scaffold1047_P2_72978	scaffold1047	72978	CAAGAAG/CAAG	TCCCGAGCCACTACTTA TGC	ACCAACATTGATCAGT GGCA	60.0	409	DRR	Ca_17177	Z	Dof
scaffold1047_P2_81313	scaffold1047	81313	TAA/TAAA	TTGTACAGGTGTCTGC CGAG	GCCCGTTAGAGTCTTC ACCA	60.3	448	INTERGENIC	--	--	--
scaffold1047_P2_93852	scaffold1047	93852	ATT/AT	GGCTCCTTTGGTGGA GTGA	TCATCATCCTATTGCAG CCA	60.2	484	INTRON	Ca_17178	--	bZIP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1047_P2_98317	scaffold1047	98317	TAAAAA/TAAAAA	GGGTTTtagGCCCTCA ATTT	ATTACTGACCGGCAC AACA	59.1	526	INTERGENIC	--	--	--
scaffold1049_P2_104237	scaffold1049	104237	AATATATATATATATATATA/AATATAT ATATATATATA	CCTTGCCATTTTGAAC GAT	CGAAATTGGAATTGGA TTGG	60.1	880	INTERGENIC	--	--	--
scaffold1049_P2_156023	scaffold1049	156023	TC/T	TCACCAATACGTTAACC ACCAA	CGCCAAGTTTACTATG TGCTG	59.8	248	INTERGENIC	--	--	--
scaffold1049_P2_185142	scaffold1049	185142	AATATATATATATATATATATATAT ATATAT/AATATATATATATATATATAT ATATATATATATATAT	TCGAGAACACGTGACA TCTTAAA	GGTGCAAGGTCACAAG GAAT	60.0	555	INTRON	Ca_26778	--	Trihelix
scaffold1049_P2_293719	scaffold1049	293719	TCC/TCCC	CGTTTTTCAAAGCGAG GGTA	GCCCTCAGATGAGAGT CAGG	59.9	439	INTERGENIC	--	--	--
scaffold1049_P2_75199	scaffold1049	75199	ACC/AC	ACGTTCTGAGGGAAT TGTG	GTAAAGGGTCACCAAC CGAA	59.8	828	INTERGENIC	--	--	--
scaffold1050_P2_128046	scaffold1050	128046	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATATAT	TGGTAGGGCCTAAATT GCAC	TACGGTCCAAGCAGTC AATG	59.7	763	INTRON	Ca_25916	I	--
scaffold1050_P2_178063	scaffold1050	178063	G/GA	GTGATCGTCTTCGATT GGT	ACACGCATGAATCGTC CATA	60.0	516	INTERGENIC	--	--	--
scaffold1050_P2_56968	scaffold1050	56968	AT/ATTATT	TGAGGTGTGTCTCAAG GAGTG	TCACATGTGTGCATGG TAGC	59.1	740	INTERGENIC	--	--	--
scaffold1052_P2_11395	scaffold1052	11395	GTATATAT/GTATATATAT	GGTAACCAATCCGAAG ACGA	GCCCTCAGATGAGAGT CAGG	59.9	518	INTERGENIC	--	--	--
scaffold1052_P2_118703	scaffold1052	118703	AT/A	AAGGCACATATGCCATT GTAA	TACATGCATGCCGTAA TGGT	59.8	499	INTERGENIC	--	--	--
scaffold1052_P2_147202	scaffold1052	147202	TGGGG/TGGGGG	AACCAACCCGTTTTTCA TCA	TCATCAACCTCCATCAT CTTCA	60.5	506	INTRON	Ca_27109	J	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1055_P2_340197	scaffold1055	340197	T/TCC	TGTTGTTTCGGCATACG CAT	ACATACTCCCTCACTCC CCC	60.2	823	INTERGENIC	--	--	--
scaffold1055_P2_340342	scaffold1055	340342	ATTAT/A	TGTTTCGGCATACGACAT CAA	ACATACTCCCTCACTCC CCC	60.2	820	INTERGENIC	--	--	--
scaffold1055_P2_340491	scaffold1055	340491	TT/TATCT	TGCAATAAAGCTTTTGA AGTGG	ACATACTCCCTCACTCC CCC	60.2	413	INTERGENIC	--	--	--
scaffold1055_P2_340641	scaffold1055	340641	ATGGGGGAGTG/ATG	TGCAATAAAGCTTTTGA AGTGG	AAGTTGTGTCAACATT GCCA	60.0	813	INTERGENIC	--	--	--
scaffold1055_P2_49567	scaffold1055	49567	GAAAAA/GAAAAA	CCCCCTAAAAATTAGTTT CGTCC	TGCTCAGTGTGTTGGT GTCA	59.9	529	INTERGENIC	--	--	--
scaffold1055_P2_56180	scaffold1055	56180	GGGAGGAG/GGGAGGAGGAG	GCACCGTGAGTAAATT CGGT	CTTGGGCTGCTAAGAA TTGC	60.0	577	INTERGENIC	--	--	--
scaffold1055_P2_56306	scaffold1055	56306	CATATATATATATATATAT/CATATATAT ATATATATATAT	GCACCGTGAGTAAATT CGGT	CTTGGGCTGCTAAGAA TTGC	60.0	577	INTERGENIC	--	--	--
scaffold1055_P2_90943	scaffold1055	90943	AATATATATATATATATA/AATATATAT ATATATATATATA	TACGGGATCGCGAGTA ATTCT	GCTGTTAGCCCAGTTT TTGG	59.7	724	INTERGENIC	--	--	--
scaffold1056_P2_116197	scaffold1056	116197	ACCGAGCCGAGCCGA/ACCGAGCCGA GCCGAGCCGAGCCGA	ACCTTGTGGATGGCAG TTTC	TGGCATTGATGATGGC TTTA	60.0	342	INTERGENIC	--	--	--
scaffold1056_P2_135454	scaffold1056	135454	TG/T	GCTACGGTGTTAGGGA ACCA	CTATCACGGGTCTCCA CGAT	60.0	879	INTERGENIC	--	--	--
scaffold1056_P2_142810	scaffold1056	142810	TAAAAAAAAA/TAAAAAAAAA	TTGCTCCTACGTATCCC CAG	TGGCCACAAGAAGACA ATGA	60.2	705	INTERGENIC	--	--	--
scaffold1056_P2_142961	scaffold1056	142961	ATTTTTTTTT/ATTTTTTTTTT	CCGACGGCGGTAATAA TAAG	TGGCCACAAGAAGACA ATGA	60.2	404	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1056_P2_148159	scaffold1056	148159	TTAGATAGA/TTAGA	TGAAAGAATGTGAAAG ACATGG	AAATGGTATTGGGACG AACG	59.7	493	INTERGENIC	--	--	--
scaffold1056_P2_152264	scaffold1056	152264	TTATATATATATATATATATATATATA TATA/TTATATATATATATATATATATA TA	ATTAGAATTTGGCCGCC TCT	TGCCTTGAGCACTTAG TGGA	59.6	532	DRR	Ca_27025	--	--
scaffold1056_P2_180865	scaffold1056	180865	AT/ATT	TCAAAGCCAAAGCAAGA AGG	TGTGAAAGCGCTATGT GACC	59.9	517	INTERGENIC	--	--	--
scaffold1056_P2_26804	scaffold1056	26804	C/CG	GCGAGTCAAGAAATTC GGC	GTATCCCCAGCTCGTT TCAA	60.1	640	INTERGENIC	--	--	--
scaffold1056_P2_46055	scaffold1056	46055	GTTTTTTTTT/GTTTTTTTTT	TAGGTCTCATAGCCCC GATG	TGCATACGCGAGAAGA AATG	60.0	592	INTERGENIC	--	--	--
scaffold1056_P2_72718	scaffold1056	72718	GAA/GAAA	TTCTCCGCATATTTGAA TTCCT	TTGCGATGACCAAACA AATG	60.5	206	INTERGENIC	--	--	--
scaffold1056_P2_90510	scaffold1056	90510	TAAAAA/TAAAAA	ACCGGAGGAAACTCCA AAGT	CTCAAGTTGGCAGGTC ACAA	59.9	641	INTERGENIC	--	--	--
scaffold1060_P2_10684	scaffold1060	10684	TAGAGAGAGAGAGAGAGAGAGA/TA GAGAGAGAGAGAGAGAGAGAGA	CTCCAAAGGGACAAAC ATGA	AGTTGCACTGGGGTTA ATGG	59.9	738	INTRON	Ca_21773	--	ERF
scaffold1060_P2_170102	scaffold1060	170102	GGGGGTG/GG	CGAGTGCAATGTTGA GAGA	TGCAATGTTCTTATGC CAA	60.1	403	INTERGENIC	--	--	--
scaffold1060_P2_170379	scaffold1060	170379	GTTTTT/GTTTTT	ACGTGGAGATTGAAGA GCGT	TCCCATAACGAAATG GGTC	59.8	591	INTERGENIC	--	--	--
scaffold1060_P2_267698	scaffold1060	267698	CTTTTTTTTT/CTTTTTTTTT	TGTTCTATGGCCACAA ATG	ATCCTAGCACTCCAAG CCAA	59.8	857	INTERGENIC	--	--	--
scaffold1060_P2_305887	scaffold1060	305887	CA/CAA	CGGTGACATAAATGAC CGTG	CAAAATGGACAAAATTG GGG	60.0	392	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1065_P2_96300	scaffold1065	96300	GTTTTTTTTTTT/GTTTTTTTTTTT	TATGTCCAGGTTTCATG CCA	TCTAAATTGATCGGCG TTGA	59.4	496	INTERGENIC	--	--	--
scaffold1067_P2_190632	scaffold1067	190632	GTTT/GTTTTT	TCGCGTAGTGGTAGCC TTCT	TCACAAGGAGGCTCT ATGG	60.2	182	INTERGENIC	--	--	--
scaffold1067_P2_197044	scaffold1067	197044	GAAA/GAAAA	AACCTCCCATCCTAGT CCT	TCTGCTAATGCGCTTC CTTT	60.1	391	INTERGENIC	--	--	--
scaffold1067_P2_202690	scaffold1067	202690	AC/ACC	GCAGCCCATTTACGTT TGT	CGAATTCTCTTCTCCT CCC	60.1	595	DRR	Ca_24425	--	--
scaffold1067_P2_203101	scaffold1067	203101	ATTTTTTTT/AATTTTTTTTTT	TGAAACTGGGAGGAGG AAGA	CAGTGCATGGAGAAA TCAA	59.8	418	DRR	Ca_24425	--	--
scaffold1067_P2_214347	scaffold1067	214347	AAGCAGTGC GG	GATAGGAGCATTGCGT GGAA	TCAAAGCGAAAACCCA TTTC	60.1	658	INTERGENIC	--	--	--
scaffold1067_P2_229129	scaffold1067	229129	CTTTT/CTTTT	ACATGGTTCGGAAACG TAGG	TCCATGCAAGAAGAGC TCAA	59.7	341	INTERGENIC	--	--	--
scaffold1067_P2_238607	scaffold1067	238607	T/TCGAC	AGCATGCGGTATGTTAA GGG	CAAACCTCCGATAGCA AAAA	60.1	197	INTERGENIC	--	--	--
scaffold1067_P2_241904	scaffold1067	241904	TCCCC/TCCC	TCGCTTCTCCTGTTC TGT	TTCCCTCATTCAACTCG TCC	60.1	414	INTERGENIC	--	--	--
scaffold1067_P2_242965	scaffold1067	242965	CAT/CATAT	TTTCTTCGCTAGCCGT GTT	TCTTGTGTTGGGTAA GGGC	60.0	941	INTERGENIC	--	--	--
scaffold1067_P2_243242	scaffold1067	243242	A/AC	TTATTGTTGTTGCTTGG GCA	TCTTGTGTTGGGTAA GGGC	60.0	447	INTERGENIC	--	--	--
scaffold1067_P2_243320	scaffold1067	243320	TATCCAAAT/TATCCAAATCCAAAT	TTATTGTTGTTGCTTGG GCA	TCTTGTGTTGGGTAA GGGC	60.0	447	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1067_P2_243478	scaffold1067	243478	TTCT/TT	GCCCTTAACCCAACACA AGA	GAACGGCCACAACCTA CATT	59.9	230	INTERGENIC	--	--	--
scaffold1067_P2_243540	scaffold1067	243540	AGGGTTGGG/AGGG	GCCCTTAACCCAACACA AGA	CTCCCGTTGTGGAAC TATT	60.0	594	INTERGENIC	--	--	--
scaffold1067_P2_243805	scaffold1067	243805	CAAGCCT/CAAGCCTAAAGCCT	GCCCTTAACCCAACACA AGA	AGGCGACCCTATACCG AAGT	60.0	643	INTERGENIC	--	--	--
scaffold1067_P2_244025	scaffold1067	244025	A/AT	ATTAGGACGCGGGCTA TCTT	AGGCGACCCTATACCG AAGT	60.0	155	INTERGENIC	--	--	--
scaffold1067_P2_263503	scaffold1067	263503	A/AGCTAGTCAGC	CAGTGAGTAGCAAGCA AGCG	CCCAGCCTAGTGACAT CCAT	60.0	445	INTERGENIC	--	--	--
scaffold1067_P2_264019	scaffold1067	264019	TCT/CTGCT	ATGGATGTCACTAGGC TGGG	CGCAGCGCAGTAGTGA GTAG	60.0	299	INTERGENIC	--	--	--
scaffold1067_P2_266043	scaffold1067	266043	CTTTTTTTT/CTTTTTTTT	ATCCAGAATGGAGCAA CTGG	CGGAGAAATCCGTTTT GCTA	60.2	575	INTERGENIC	--	--	--
scaffold1067_P2_70308	scaffold1067	70308	AATATATATATATATATATATATAT ATATATATATAT/ATATATATATATATAT ATATATATATATATAT	TGAATTTTATGGGTTTC GTTTG	GTTCGACATGCGGGTA AGTT	60.0	540	INTERGENIC	--	--	--
scaffold1080_P2_33120	scaffold1080	33120	TCTGGGTGC/TC	GCTTGGAACAGCCTC AGAC	CAGGGTGGTACTGCAA TGTC	60.0	521	INTERGENIC	--	--	--
scaffold1080_P2_5284	scaffold1080	5284	GT/G	TCCCTCGTTGATTGCAA AAC	ATCCCCATTCTTAACG CCT	59.8	837	INTERGENIC	--	--	--
scaffold1081_P2_39164	scaffold1081	39164	T/TC	TTCAAATTCACCAACAT TTCA	GGCCGTTGTACTGCA AAAT	60.0	774	INTERGENIC	--	--	--
scaffold1081_P2_86270	scaffold1081	86270	GAAAAAA/GTAAAAAAA	TTATTCGGGCCTGTCAA AAC	CATGCGTTCCTTGTGG TAGA	59.7	251	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1081_P2_86497	scaffold1081	86497	ATGT/ATGTGT	TTATTCGGGCTGTCAA AAC	GGGGGTTTAGATTCGG TAAGA	59.3	858	INTERGENIC	--	--	--
scaffold1081_P2_88052	scaffold1081	88052	TT/TTGT	TGAGCATGGCTAAGTT GCAC	AAGGGAAGGGCATAA TGTT	59.7	522	INTERGENIC	--	--	--
scaffold1082_P2_19861	scaffold1082	19861	TCCTAAACCT/TCCTAAACCTAAAC CT	TTTGGCACTTATTGGAC GAA	CGGTTTCGGGTTTATG GTTA	59.8	676	INTERGENIC	--	--	--
scaffold1082_P2_21212	scaffold1082	21212	ACCTAAACCCTAAACCCTAA/ACCTAA CCCTAA	TTGGACGAAGTCAAT GAAT	CGGTTTCGGGTTTATG GTTA	59.8	687	INTERGENIC	--	--	--
scaffold1082_P2_23104	scaffold1082	23104	TCTAAACCCTAAACCCTAAACC/TCTAA ACCCTAAACCCTAAACCCTAAACC	TAACCATAAACCAGAA CGC	TTTTGGGATTTTGTCT TTGG	59.0	227	INTERGENIC	--	--	--
scaffold1083_P2_122050	scaffold1083	122050	C/CT	AAGCCTAGGGAGGAGC AAAA	AACGAATCATGTGCAT CCAA	59.9	772	INTERGENIC	--	--	--
scaffold1083_P2_74707	scaffold1083	74707	AATATATATATATATATATATATATAT ATATAT/AATATATATATATATATATAT ATATAT	ATCTCGGGTGTGAAA ATTG	GGTTCCTAGCACCAT AGCA	60.1	546	INTERGENIC	--	--	--
scaffold1085_P2_1906	scaffold1085	1906	AG/A	TCCAACGACACAAAGAC AGC	TTGGATTAACTGCG GTCA	60.1	608	INTERGENIC	--	--	--
scaffold1087_P2_12601	scaffold1087	12601	CTT/CTTT	GCTTAGGCAGCCACAA AATC	CGGTTATTGATATCAC GGGT	60.0	732	INTERGENIC	--	--	--
scaffold1087_P2_13529	scaffold1087	13529	TTTTATTTATTTATTTATTTATTTAT TTATT	TTCCGCATAACCTAAG TGCC	CCATGCTAATGGATG TGTC	60.1	521	INTERGENIC	--	--	--
scaffold1087_P2_13993	scaffold1087	13993	TC/TCCGGC	TGGGTTGTACCGTTAAT TGG	CAGCTCAAGACTTTGA TCTTGG	59.1	408	INTERGENIC	--	--	--
scaffold1087_P2_14399	scaffold1087	14399	CGAGAGA/CGAGA	TGGGTTGTACCGTTAAT TGG	ACCCCAATATTGCCAT GAA	60.0	810	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1087_P2_15154	scaffold1087	15154	GTTTTTTTTT/GTTTTTTTTTTTTT	TTCATGGCAATATTGG GGT	AAC TTGATTCTGGCCA ACG	60.1	623	INTERGENIC	--	--	--
scaffold1087_P2_23029	scaffold1087	23029	CTTTTTTTTT/CTTTTTTTT	TGCACCACGAGATCTT GAAA	CGTTGATACATAACAAA AATACAAACA	58.5	597	INTERGENIC	--	--	--
scaffold1087_P2_23220	scaffold1087	23220	T/TG	TGTGGGATATCAAGTT TGGA	AAAAATGCACGGGACA AATA	58.0	704	INTERGENIC	--	--	--
scaffold1089_P2_12635	scaffold1089	12635	ACCCATATC/AC	CTCGTCGGACCATCATT TTT	ACTCTGATGCGCTTCC TGAT	60.0	534	INTERGENIC	--	--	--
scaffold1089_P2_210915	scaffold1089	210915	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TTTGAAATGAAGTTTTC CGGT	AGTGTGGGGGCTTTC TTTT	60.0	378	DRR	Ca_24284	--	--
scaffold1089_P2_648	scaffold1089	648	ATT/ATTTT	CTTGGGAAGTGGAGAG CAAG	GCCAATGTGGGACTTT CCTA	59.9	701	DRR	Ca_24272	--	--
scaffold1089_P2_94153	scaffold1089	94153	T/TATAG	GTCGCCCAGGATCTCA ATTA	ACAACATGGAAGTTGC ACCA	60.0	664	INTERGENIC	--	--	--
scaffold1092_P2_108212	scaffold1092	108212	AGGG/AGG	TCCTCCCAGGCTTATT CTT	TTGCCTAAAAACCCGA ATTG	59.9	544	INTERGENIC	--	--	--
scaffold1092_P2_121415	scaffold1092	121415	AT/A	AGGTCATTTTCGTCTCT CCT	AATCCAATGGCACAAA CACA	59.8	648	INTERGENIC	--	--	--
scaffold1092_P2_141767	scaffold1092	141767	TA/TAA	TTAGCCAATCTTGTGCA TCG	TCAGCCTAGGAAGGAC GAAA	59.9	482	INTERGENIC	--	--	--
scaffold1092_P2_146207	scaffold1092	146207	GTTTTTTTT/GTTTTTTTTT	TCATTTTCTCCTCGCT TGG	TTCGGAATGAATAAGC CGAG	60.2	737	INTERGENIC	--	--	--
scaffold1092_P2_146775	scaffold1092	146775	GTTT/GTT	CTTCCTCCCTCGGCTTA TTC	AGGGAGGACGAAAATG ACCT	59.9	365	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1092_P2_155639	scaffold1092	155639	TA/T	AGGTCATTTTCGTCCTCCT	TGGATGCACAAGATTG GAAA	60.0	169	INTERGENIC	--	--	--
scaffold1092_P2_65384	scaffold1092	65384	GTTTTTTTT/GTTTTTTT	AACCAATCTTGTGCATC CAA	AACCCTAGGGAGGACG AAAA	59.9	778	INTERGENIC	--	--	--
scaffold1092_P2_81977	scaffold1092	81977	G/GA	GCGATCTTCTTGGGTG AGAG	GAATAAGCCTGGGGAG GAAG	60.0	426	INTERGENIC	--	--	--
scaffold1101_P2_3795	scaffold1101	3795	TCC/TC	TTGGCTCATTGCTTGAG TTG	AGCCAAGGAGGATGA AAAT	59.9	214	INTERGENIC	--	--	--
scaffold1102_P2_7455	scaffold1102	7455	CAAAA/CAAAAA	AGGGAGGACGAAAATG ACCT	AACCAATGTTGTGCAT CCAA	59.8	470	INTERGENIC	--	--	--
scaffold1107_P2_74968	scaffold1107	74968	GTTTT/GTTTT	ATCACCACGACAAATG GGT	GGAGGGTTTTGGTTG GAAT	60.0	268	INTERGENIC	--	--	--
scaffold1109_P2_109368	scaffold1109	109368	GCAGAAAATAAATTAATCAGAAAATAA TTAATCAGAA/GCAGAAAATAAATTAATC AGAAAATAAATTAATCAGAAAATAAAT AATCAGAA	TTGGTTTATTTGGGTG GGA	AATAGGGTGGGATGCA AAGA	59.4	753	INTERGENIC	--	--	--
scaffold1109_P2_114315	scaffold1109	114315	ATTT/ATT	TCCCTACTCGTAATCGA CGC	ACTCAGCCCGGTATA GAGC	60.6	392	INTERGENIC	--	--	--
scaffold1109_P2_14028	scaffold1109	14028	ATTTTTTTTTTT/ATTTTTTTT	TTTGAAACCTCACCA GGG	TAAACTGTCAGGGCG AAGA	60.8	416	INTERGENIC	--	--	--
scaffold1109_P2_14081	scaffold1109	14081	GTT/GTTAATT	TTTGAAACCTCACCA GGG	TATAAACTGTCAGGG CGAA	58.2	418	INTERGENIC	--	--	--
scaffold1109_P2_17585	scaffold1109	17585	CTATATATATATATATATATATATAT/C TATATATATATATATATATATATATAT AT	TTTGGGAGGAACACTG CTCT	TCTTCCCCTTGATGTT CTG	60.0	792	INTERGENIC	--	--	--
scaffold111_P2_128540	scaffold111	128540	ATTTTTTTTTTT/ATTTTTTTTTTTT	AACGGGAATGGACTTT ACGA	TATGACAATCCCCGAC AACA	59.8	507	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1128_P2_138078	scaffold1128	138078	TAAAAAAAA/TAAAAAAAA	GCCTAAACGATGAATG CGT	TGTTGCAAAGCAAGAA GCAC	60.2	230	DRR	Ca_23729	--	--
scaffold1128_P2_145120	scaffold1128	145120	CTATATATATATATATATAT/CTATATA TATATATATATATATATATAT	ATGTGGCCCTTTTACAG CAC	ATGTGAATCCCACCAG GAAA	60.2	533	INTERGENIC	--	--	--
scaffold1128_P2_151757	scaffold1128	151757	CTTTTTTTTTTTTT/CTTTTTTTTTTT	TTTGACTCCCACTTAT GGC	TGTTTCGCCTCTTGG AGTC	60.4	597	INTERGENIC	--	--	--
scaffold1128_P2_163033	scaffold1128	163033	CTTTTTTTTTTT/CTTTTTTTTTTT	TTTGCACTTCAGACGCA AAG	TCTAAATGCAAGAGCG GATG	59.0	480	INTERGENIC	--	--	--
scaffold1128_P2_198535	scaffold1128	198535	CAAAAAAAAA/CAAAAAAAAA	TAGGGGACTGTCTCGG ATTG	GGATCCTCACTTGCAA GACC	59.7	653	INTERGENIC	--	--	--
scaffold1128_P2_235846	scaffold1128	235846	C/CAGTTG	CCTTGCAAGAATCCATC CAT	AAATCCCTTCATCCAAA CCC	60.0	752	INTERGENIC	--	--	--
scaffold1128_P2_24531	scaffold1128	24531	AATATATATATATA/AATATATATAT ATATA	AAACCTGAAAGAAATC TGCG	TTCTCGATCTTGGTTG GCAT	60.6	456	INTERGENIC	--	--	--
scaffold1128_P2_261287	scaffold1128	261287	AG/A	CCACTGGTGCTTTTCCT TTC	TGGGATCTTGACCCA AACC	59.6	375	INTERGENIC	--	--	--
scaffold1128_P2_27905	scaffold1128	27905	TAA/TAAA	GTGGCACCTCGGTAAA CAGT	TCACCTATCACGGGTC AACA	60.0	187	INTERGENIC	--	--	--
scaffold1128_P2_307507	scaffold1128	307507	CTTTTTTTTTTTTT/CTTTTTTTTTTT	GCAATGCTAACACGA GCAA	CGTGGTGAGTGAGAC TGAA	59.9	799	INTERGENIC	--	--	--
scaffold1128_P2_348170	scaffold1128	348170	TAAAAAAAA/TAAAAAAAA	GGTATGGTCCCGATT GAAG	GCCTAGCCTGACCTAT TCCC	60.1	678	INTERGENIC	--	--	--
scaffold1128_P2_349270	scaffold1128	349270	AATATATATA/AATATATATATA	CCAGAAATAACGCACC CAT	TGGTTCACCCCTTAAC GGC	60.0	486	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1128_P2_376844	scaffold1128	376844	CTTT/CTT	GAAAAGGGGGTTTGA TTGT	GCAGCTGTCTTTGACG ATTG	59.6	757	INTRON	Ca_23737	U	--
scaffold1128_P2_377037	scaffold1128	377037	ATTT/ATT	CAGCAGCAGTGTGTTT TGG	TCCGACCAACTCAATC ATCA	60.0	820	INTRON	Ca_23737	U	--
scaffold1128_P2_394662	scaffold1128	394662	A/ACAAT	AACAAAAGCAAGGCAG GCTA	GGAGATCTGAACGAAG CAGG	60.0	595	INTERGENIC	--	--	--
scaffold1128_P2_412881	scaffold1128	412881	AATTAATA/AATTAATTAATA	CCATGATAAAGGAACT CCAAAA	CAAATTGAAAAGTGGG GCAT	59.8	505	DRR	Ca_23739	--	--
scaffold1128_P2_413406	scaffold1128	413406	TAA/TA	GACCTCCCAAGGCAT TTTT	CCGGTCATCCAACAGA AAGT	60.0	600	DRR	Ca_23739	--	--
scaffold1128_P2_45001	scaffold1128	45001	CAAAAAAAAA/CAAAAAAAAA	ATGGGAAGGAACAACA ATGC	CACAAAATTAAACCCAA ATTGACA	60.0	453	INTERGENIC	--	--	--
scaffold1128_P2_46039	scaffold1128	46039	ATTTTTTTTT/ATTTTTTTTT	CGAATGCAAGTTCGTG GTAA	TGTCATTGGGCAGAC ACAT	60.0	510	INTERGENIC	--	--	--
scaffold1128_P2_483765	scaffold1128	483765	GTCAAACTAACTAAAT/GTCAAACT TAACTAAATCAAACTAACTAAAT	CAGGATCCTCCGTATT GGA	TTCTTCCGGCATGATT TTC	60.0	639	INTERGENIC	--	--	--
scaffold1131_P2_125252	scaffold1131	125252	ATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT TTCTTATTATTATTATTATTATT ATTATTATTATTATTATT	TGTAGGCAGGAAGCGC TAAT	AGGTGGGGAATTCCTA GGTG	60.2	523	INTERGENIC	--	--	--
scaffold1131_P2_12797	scaffold1131	12797	CAAAAAAAAA/CAAAAAAAAA	AAATGTTATTGCCAG CTTTT	TTCAAAGGCATAGTTT GGC	60.1	331	DRR	Ca_25661	K	--
scaffold1131_P2_139740	scaffold1131	139740	GAAAAAA/GAAAAAA	AGAAAGGCTCAACGA CCAA	AAGATGCGTTGAGAAG CGAT	60.0	737	INTERGENIC	--	--	--
scaffold1131_P2_17672	scaffold1131	17672	TTATATATATATATATATAT/TTATA TATATATATATATAT	AGGGTACGAGCAAGGT CAAA	TTCCAATTCATCTTGGG AGC	60.0	862	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1131_P2_25992	scaffold1131	25992	ATTTT/ATTTT	GTTTCTTTGCATGTG CCA	TCTAAATTGGCTCTGCA TGAAA	59.9	483	DRR	Ca_25663	K	--
scaffold1131_P2_41349	scaffold1131	41349	GATATATATATATATAT/GATATATAT ATATATAT	TTGGATGTCGCATGAAT TTT	GAGGGAAATTCAGCTT GGTG	59.7	689	INTERGENIC	--	--	--
scaffold1131_P2_44779	scaffold1131	44779	ATTTTTTTTT/ATTTTTTTTTT	ATTCGTGCAGAGCCA ATTT	TACGGGTGGGTACATT TGGT	60.0	673	DRR	Ca_25666	Z	--
scaffold1132_P2_44686	scaffold1132	44686	TTATATATATATATATAT/TTATATA TATATATATAT	ATTTCCAGCATGCCAAT TTC	ATTGGAGAAACCTTC CGCT	60.1	417	INTERGENIC	--	--	--
scaffold1133_P2_19326	scaffold1133	19326	ATTTT/ATTTT	CGCTGTCTGTGCATT GGAT	AGGGAGGACGAAAATG ACCT	59.9	647	INTERGENIC	--	--	--
scaffold1133_P2_49225	scaffold1133	49225	TG/T	AGGTCATTTTCGTCTCCT CCT	TTGAATGCCCAAGATT CGTT	60.4	170	INTERGENIC	--	--	--
scaffold1134_P2_22100	scaffold1134	22100	TAAAAAAAAA/TAAAAAAAAA	TTTTACAGCGCTTTTGG ACA	TGGAGATGATTGCAA TGGA	60.0	588	INTERGENIC	--	--	--
scaffold1135_P2_14111	scaffold1135	14111	TTAAATAAATAATAA/TTAAATAATAA ATAAATAA	TCTGGCACATGAACCTC AGC	CACTCGACAATTGGGA GGTT	60.0	532	INTRON	Ca_26843	--	SAP
scaffold1135_P2_47902	scaffold1135	47902	TTATATATATATATATATAT/TTATA TATATATATATATATATAT	TGCTTTGAAACTATTTT TGCG	CATCCATTTTGACATGA CCG	59.8	353	INTERGENIC	--	--	--
scaffold1135_P2_64475	scaffold1135	64475	TTATATATATATATAT/TTATATATATATA TATAT	TTGGGTCGTGGTTTTC AAT	GGTGTGTCTGTGATT TGCCCTT	59.0	314	INTERGENIC	--	--	--
scaffold1135_P2_67023	scaffold1135	67023	TAAAAAAAAA/TAAAAAAAAA	TTTGGCCATGTGTATGA ATTG	TCAAGTATGAATCACG GCTGA	59.3	773	INTERGENIC	--	--	--
scaffold1135_P2_72246	scaffold1135	72246	ACTT/ACTTCTT	AAACCGAAAACCGAAAA CCT	CAATGTAGTTTGTCTAA GAAGTGCAA	59.0	667	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1135_P2_74034	scaffold1135	74034	AAACCCT/AAACCCTTAACCCT	CAAAACCCTAAACCCAA CCC	AGGTCATTTGGTCTT GGTG	58.9	358	INTERGENIC	--	--	--
scaffold1135_P2_74988	scaffold1135	74988	TCTAAACCCTAAACCCTAA/TCTAAACC CTAAACCCTAAACCCTAA	ACCCAAACCCTTAACCT TCC	CGGTTGCGGTTTATGG TTTA	59.7	291	INTERGENIC	--	--	--
scaffold1135_P2_9704	scaffold1135	9704	GTTTGTGCT/GT	TTTCGGTTGGGTTTGCT TAC	TACCCGTGCTCAACAT CAAG	59.7	704	INTERGENIC	--	--	--
scaffold1139_P2_1257	scaffold1139	1257	CT/CTTT	TCTCAACGGAGCGGT AATC	AAACTCCACATGGATG GGTC	59.6	388	INTERGENIC	--	--	--
scaffold1139_P2_1393	scaffold1139	1393	CT/CTTT	TCATCCAGTGTGGGT ACAA	TTGTGTGTGTTGGAGA TGAGC	59.7	313	INTERGENIC	--	--	--
scaffold1139_P2_1605	scaffold1139	1605	TAACAACAA/TAACAACAACAA	TCATCCAGTGTGGGT ACAA	TTTGAGAATTTGGGAT GGAAA	59.4	785	INTERGENIC	--	--	--
scaffold1142_P2_4296	scaffold1142	4296	T/TGA	AGGTCATTTTCGTCTC CCT	TTGCATGCACAAGATT GGTT	60.1	268	INTERGENIC	--	--	--
scaffold1145_P2_15770	scaffold1145	15770	ATATTATTATTATTATTATTA/ATATT ATTATTATTA	TGGCACAACATCATCAT CATT	GCGCATTCTTCATCTTC TCC	59.9	496	INTERGENIC	--	--	--
scaffold1145_P2_16689	scaffold1145	16689	AAAGTAAATAAGTAAAA/AAAGTAAAT AAGTAAATAAGTAAAA	GGCCAAATGCCAAATCT CTA	TAGGAAAAGGGAAACC CACC	60.2	683	INTERGENIC	--	--	--
scaffold1145_P2_3948	scaffold1145	3948	ACTTCT/ACTTCTTCT	AATCCTCAAAGCCCTCA CCT	TTTTGGAACCTTCGTCC TTT	58.7	750	INTERGENIC	--	--	--
scaffold1145_P2_67865	scaffold1145	67865	AT/A	AAGCGTACCTGTGGGA ATTG	TTTACCGCGCTGAAAA GACT	60.0	921	INTERGENIC	--	--	--
scaffold1145_P2_7358	scaffold1145	7358	TAAAA/TAAAAAA	TGAATTTTCCAAGTATT GCATCC	GTTAAGGGACCGCAAG AACA	60.1	614	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold115_P2_52073	scaffold115	52073	GA/GACTA	CAATTACACAAACGCC CCT	TTGGCCTCCCTAGGCT TATT	60.1	577	INTERGENIC	--	--	--
scaffold1151_P2_18791	scaffold1151	18791	CTTT/CTTTT	AGCCGTCATGACTTTT TCC	ACGGACCCTTTGTGA GACA	60.5	392	INTERGENIC	--	--	--
scaffold1151_P2_20156	scaffold1151	20156	TGGGGG/TGGGG	TGCACTTCGGAACTTT CAT	ATATACCATGCACCCC CTCA	60.0	345	INTERGENIC	--	--	--
scaffold1152_P2_115530	scaffold1152	115530	T/TA	ACAAGATGGGACAAAC AGCC	TCCTTTTCATCCTCCGT TTG	60.0	460	INTERGENIC	--	--	--
scaffold1152_P2_143309	scaffold1152	143309	AATATATATATATATA/AATATATATAT ATATATATATATATA	CCGCGAGTAATCCGA TAAA	AAGGCTTTTGCCTAA AGTT	60.1	671	INTERGENIC	--	--	--
scaffold1153_P2_18767	scaffold1153	18767	GAAAAAAAA/GAAAAAAAA	TTGGAGACGAAACAT GAGTCT	AGTTCATCAACACCACA TCAGTG	59.9	472	INTERGENIC	--	--	--
scaffold1153_P2_40058	scaffold1153	40058	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AAT/AAATAATAATAATAATAATAATA AATAATAATAATAATAATAATAATAA TAATAATAAT	CATGTACATCGGCTTTG GTG	CGATCGCATCCTTATC ACG	60.2	632	INTERGENIC	--	--	--
scaffold1153_P2_42028	scaffold1153	42028	TTATATATATATA/TTATATATATATAT ATATATATATA	GGAGGTGGAGTACAGC AGCA	TCATTGGCTCTCCTTAA GTGTT	58.0	793	INTERGENIC	--	--	--
scaffold1153_P2_79420	scaffold1153	79420	CAAAAAAAAA/CAAAAAAAAA	AAAATGGGGTTTAGCC GAGT	TGATTCTTCCAAGTTT TCG	57.8	456	INTERGENIC	--	--	--
scaffold1159_P2_27402	scaffold1159	27402	TG/TGG	AGGGAGGACGAAATG ACCT	CCTTCCTGGCTTGT CTTG	59.8	345	INTERGENIC	--	--	--
scaffold1161_P2_1009	scaffold1161	1009	TA/T	CGTAAAGGATTCACG CACT	TTGATTTGGGATTTTC CTC	59.9	656	INTERGENIC	--	--	--
scaffold1174_P2_25258	scaffold1174	25258	A/AAG	AACCAATCTTGTGCAAC CAA	GGTGGACAAAAATGGC CTAA	59.8	871	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1180_P2_206096	scaffold1180	206096	AATATATATATATATATA/AATATATATATATATATATATATA	CCATGTGGTTCTTTTGG ATTT	AACCTCGCCATTGTCA TCC	59.9	548	INTERGENIC	--	--	--
scaffold1180_P2_208476	scaffold1180	208476	TA/T	TAAGAGGGGCTTGTGA CCCC	CCAACCTAATATTCATG CCACA	59.7	216	INTERGENIC	--	--	--
scaffold1180_P2_209213	scaffold1180	209213	ACTAT/ACTATTCTAT	TTGATTTTGTACATGTT GTGCTT	TTGAGGGGTGGCAAGT TTAG	60.1	607	INTERGENIC	--	--	--
scaffold1180_P2_216830	scaffold1180	216830	TTATATATATATATATATATAT/TTATA TATATATATATATATATATATAT	AAGCGTCTTCTTTTGGG GAT	CATATGCACGTAAATC GCCT	60.0	345	INTERGENIC	--	--	--
scaffold1180_P2_227229	scaffold1180	227229	GAT/GATGTGCTAGTTTTAT	CCCGGTATCATGTAACA CCC	ATCAGTCACGCGCACAA TAAA	60.3	330	INTERGENIC	--	--	--
scaffold1180_P2_240851	scaffold1180	240851	CAAAAAAAAA/CAAAAAAAAAA	AAAACAAGAAGGGGCA ACCT	GCGTTATTGACCCACT TTGG	60.4	232	INTERGENIC	--	--	--
scaffold1180_P2_241101	scaffold1180	241101	ATTTTTTTTTTTTT/ATTTTTTTTTTT	AAAACAAGAAGGGGCA ACCT	TAAATCAGAGGATGCG GGTC	60.0	760	INTERGENIC	--	--	--
scaffold1180_P2_247801	scaffold1180	247801	TATTCATTCAATTCATT/TATTCATT CATTCAATTCATTCAAT	TGAAAACCTGAAAGGG CAAC	CTTCAATATGCGGGTC GTTT	60.0	413	INTERGENIC	--	--	--
scaffold1180_P2_257090	scaffold1180	257090	TAAGA/TA	AATTAAACTCTCGCAT TCAAAA	TGTTTGATTGTGTAAAC ACCCCA	60.1	676	INTERGENIC	--	--	--
scaffold1180_P2_2599	scaffold1180	2599	ATT/ATTTT	GAGAGGTCATGGCACC CTTA	GAGCAACACATTGCAT GTCC	60.1	166	INTERGENIC	--	--	--
scaffold1180_P2_276953	scaffold1180	276953	AT/A	CGTCCAACCTCCCTTCCT TTT	CTTTTATGTGCGGTG ACTGA	58.8	519	INTERGENIC	--	--	--
scaffold1180_P2_2913	scaffold1180	2913	A/AC	GAGAGGTCATGGCACC CTTA	TCTTGCCCAACGTTTTA CAT	58.1	513	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1180_P2_29648	scaffold1180	29648	TA/T	TGGAGAAGGGAATGTT AAGTTT	TCCATCTCTCAACAATG GCA	60.2	682	INTERGENIC	--	--	--
scaffold1180_P2_36749	scaffold1180	36749	CTATTTATTTATTTATTTATTTATT T/CTATTTATTTATTTATTTATTTATT	TACGGTTCGATCTCATG CAA	TGCCTCTTCCCCTGTTT CTA	59.8	419	DRR	Ca_25737	--	G2-like
scaffold1180_P2_3744	scaffold1180	3744	GA/G	GTGCACGAAAGTGTGG CTTA	ACTTTACCATTGCCTTC CCC	60.2	766	INTERGENIC	--	--	--
scaffold1180_P2_74787	scaffold1180	74787	CTGATTGTGAA/CTGATTGTGAAATGAT TGTGAA	TGGGAAATAACATGCT GCAA	AGCGCTGTAAAAGGTG CATT	59.9	629	DRR	Ca_25738	--	--
scaffold1180_P2_77893	scaffold1180	77893	TCAAGGGCAAGGGCAAGGGCAAGGGC AAGGGCAAG/TCAAGGGCAAGGGCAAG GGCAAGGGCAAG	GGATGATGGAAAAGGA AGCA	TTCCCTCGTTGGATTTT GTC	59.9	146	INTERGENIC	--	--	--
scaffold1180_P2_82368	scaffold1180	82368	GAAAAAAAA/GAAAAAAAAA	AATCCCATTCAGGTAAC CGT	CATGCTATAAAATTTCA GCTGGTTT	59.9	742	INTERGENIC	--	--	--
scaffold1181_P2_11241	scaffold1181	11241	TAA/TAAA	CCATAAACCTGAACCC AAA	AAGGGTTAAGGGTCTA CGTCA	57.7	381	INTERGENIC	--	--	--
scaffold1181_P2_5285	scaffold1181	5285	CAAAAA/CAAAA	CCAAAAACCAAAACCT AAAACC	GCAAAATTGTCACATTGA TTTGG	59.5	381	INTERGENIC	--	--	--
scaffold1181_P2_6020	scaffold1181	6020	AACAAATAC/AAC	AAACCCTAAATCCCAA CCC	TTTAGGTCATTTGGCC TTTTT	59.1	465	INTERGENIC	--	--	--
scaffold1181_P2_6839	scaffold1181	6839	GAAAAAAAA/GAAAAAAAA	GACCCTAGACCTTAAC CCTT	TCAATTTTGTGCTGTG CCA	57.6	176	INTERGENIC	--	--	--
scaffold1182_P2_6830	scaffold1182	6830	CAAA/CAAAA	TGGAATTGGTGACATA GGCA	TGTGGTTGATTCATG CTGT	60.0	361	INTERGENIC	--	--	--
scaffold1183_P2_109517	scaffold1183	109517	TAAAAAAAA/TAAAAAAAAA	TTCCATGGTGAGAAG ATGA	CCCAAAAGCTCACAGC TAGG	60.0	450	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1183_P2_131590	scaffold1183	131590	AATATATATATATATATATATATATATATATATAT/AAATATATATATATATATATATATATATATATAT	GAAATGGGTTTCGCGT AGAG	TTTGGCTCGAAGGCTT TTTA	60.0	428	INTERGENIC	--	--	--
scaffold1183_P2_142757	scaffold1183	142757	TAAAAAAAAA/TAAAAAAAAA	TCAAATCCATTGGTCCC TTT	AAAGATGCATTGCCA GGAC	60.1	916	INTERGENIC	--	--	--
scaffold1183_P2_145947	scaffold1183	145947	AATATATATATATATATATATATA/AAATATATATATATATATATA	AGGAAGCCCAAGTTCC AAAT	TTGTCCAAATGGTACA GCCA	60.0	691	INTERGENIC	--	--	--
scaffold1183_P2_19426	scaffold1183	19426	CCTAAACCTAAACGCTAAACCCCTAAA CGCTAAACCCCTAAA/CCTAAACCCCTAAA CGCTAAACCCCTAAA	TGATGAAGAGCCAGCA CAAC	TGTGTGGGGCATTGAC TTTA	60.0	405	INTERGENIC	--	--	--
scaffold1183_P2_239750	scaffold1183	239750	CTTTTTTTTT/CTTTTTTTTTTT	CCCTTCCGTGAGGTGA CAAA	CCGGTGGATATGATGA GCTT	59.9	403	INTERGENIC	--	--	--
scaffold1183_P2_5183	scaffold1183	5183	GA/GAAGTTGATTACGGGTA	CATTGAGCGGGGTAT AGAA	TTTCTCTATTGCACCTG GGG	60.1	564	INTERGENIC	--	--	--
scaffold1183_P2_73283	scaffold1183	73283	AAGAGAGAGAGAGAGAGAGAGA/AAGA GAGAGAGAGAGAGAGAGAGA	TGAAAGTTGTTCTTGCA CCG	TGGTTCCAATTTTCCTC TGG	59.9	624	INTERGENIC	--	--	--
scaffold1183_P2_85712	scaffold1183	85712	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT	TGCAAAACCGCATTCTA GTG	AAAAGCGCTGTAAATG GTGC	60.3	769	INTERGENIC	--	--	--
scaffold1185_P2_47365	scaffold1185	47365	AAATAATAATAATAATAATAATAATA /AAATAATAATAATAATAATAATA	TTCTTATAGGCATGAT TTCTTGA	TCGTTTTGGTGTGGT TTCA	60.0	809	INTERGENIC	--	--	--
scaffold1185_P2_67322	scaffold1185	67322	GATATATATATAT/GATATATATAT	CAATTCCCACAGGTAC GCTT	GACGCGAAAACAACAT TTCA	59.7	683	INTERGENIC	--	--	--
scaffold1185_P2_67468	scaffold1185	67468	T/TAGGGTGA	CAATTCCCACAGGTAC GCTT	GACGCGAAAACAACAT TTCA	59.7	683	INTERGENIC	--	--	--
scaffold119_P2_16292	scaffold119	16292	AACA/AACACACA	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGGCT CGG	59.9	513	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold119_P2_16337	scaffold119	16337	T/TAA	AGGAAGAGTGGAGTTG CGAA	TATTTGGATTTTGGCT CGG	59.9	513	INTERGENIC	--	--	--
scaffold119_P2_35751	scaffold119	35751	A/AG	ACTCATATGCAAAATGC CCC	TTATGCTGGAGATGGG AAGG	60.0	444	INTERGENIC	--	--	--
scaffold1193_P2_13465	scaffold1193	13465	TAA/TAAA	TGAAGCATATTCTGAGG GGG	AGCCGTCATGACTTTT GTCC	60.1	477	INTERGENIC	--	--	--
scaffold1193_P2_241880	scaffold1193	241880	ATTT/ATTTT	AGTGAAACCAACGCCA AAAC	CACACGAATACGATTC CAGC	60.0	134	INTERGENIC	--	--	--
scaffold1193_P2_249452	scaffold1193	249452	GATATATATATATATATATA/GATATA TATATATATATATATA	TTTGCAACATCACAACC ACA	GGCTTTTACAACGCTTT TGC	59.9	851	INTERGENIC	--	--	--
scaffold1193_P2_51363	scaffold1193	51363	CTATTATTATTATTATTATTATTATT ATTATTA/CTATTATTATTATTATTAT TATTATTATTATTATTATTATTA	ATACACGCAAAATCGCA TGA	TGCCAAACTACCTTCC CATC	59.9	351	INTERGENIC	--	--	--
scaffold1193_P2_63134	scaffold1193	63134	C/CAAAA	AGCCAAAGGCATGTGA AATC	GGTGGAGAATGAAACG GAGA	60.1	842	INTERGENIC	--	--	--
scaffold1193_P2_7288	scaffold1193	7288	TCAA/TCAATTTAAGCAA	AATGCTTCCAGAAAAC CGA	TGATCTGATGGCTGAC TTTCA	59.4	367	INTERGENIC	--	--	--
scaffold1195_P2_21554	scaffold1195	21554	CTTATTATTATTATTATTATTATT/CT TATTATTATTATTATTATTATT	AAGGGTGCAACCGTAT TGAG	GAAAGGCTCAAACGAC CAAA	60.2	594	INTERGENIC	--	--	--
scaffold1195_P2_72002	scaffold1195	72002	TTG/T	AGGCCGAGTGAGTTGA GTGT	CATCAGCCCTCTAA CCAA	60.1	864	INTERGENIC	--	--	--
scaffold1196_P2_103885	scaffold1196	103885	GAAAAA/GAAAAA	CAACTTGTTTCACCCGA CCT	GGATTTGTGGACAAGG GAGA	59.9	478	INTERGENIC	--	--	--
scaffold1196_P2_112009	scaffold1196	112009	AGGGGGG/AGGGGGG	GTTCTCCCTTCACGT TCA	TGTTAGTGTTTTTGGT GGCA	60.0	525	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1196_P2_117323	scaffold1196	117323	ATTTTTTTTTT/ATTTTTTTTT	TGGACTTTGCTTCTGT TTGG	GTGCCCAACAAACACT TGAA	59.6	523	INTERGENIC	--	--	--
scaffold1196_P2_165815	scaffold1196	165815	TTATATATATATAT/TTATATATATATAT T	CCACCTTGGAGTGTTC GAT	ATGCCTCGCCTTCTCA CATA	60.8	705	DRR	Ca_26185	V	--
scaffold1196_P2_182114	scaffold1196	182114	CTTTTTTT/CTTTTTTTT	GGGGGAGGATGAAGAT GAAT	TTGTGTGCTCTAGGAA CCGA	59.4	650	INTERGENIC	--	--	--
scaffold1196_P2_184515	scaffold1196	184515	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/TTAT TATTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATTATT ATTATT	AGAGGCAACAAGAAC CGAA	TGCTGCTGAGCGGAA TACA	60.4	376	INTERGENIC	--	--	--
scaffold1196_P2_20385	scaffold1196	20385	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA AA	GTCAATTGAGTTGCGA CGAA	TCACAAATCATCCTTC CCC	59.7	562	INTERGENIC	--	--	--
scaffold1196_P2_206626	scaffold1196	206626	ATT/ATTT	TTCTGCCAAGTCCCAT TTC	TAAAGGATTCCCACTG TGCC	59.9	699	URR	Ca_26186	--	Trihelix
scaffold1196_P2_27427	scaffold1196	27427	AATATATATATATAT/AATATATATATATA TATAT	ATGTTTTGGATTTTGGC TCG	GGGGGAGGAAGAAGAT GAAG	60.0	385	INTERGENIC	--	--	--
scaffold1196_P2_44249	scaffold1196	44249	TTATATATATATATATATATAT/TTATATA TATATATATATATATATATAT	ACCCAATAGAGGTGCA ACCA	CCATTGGAATTGCGA CTTT	59.9	593	INTERGENIC	--	--	--
scaffold1196_P2_70371	scaffold1196	70371	GAAAAAAAAA/GAAAAAAAAA	TTCGCAACTCCACTCTT CCT	ACCGTTGTATTCTGC GGTC	60.0	677	INTERGENIC	--	--	--
scaffold1197_P2_10258	scaffold1197	10258	AC/A	CGTTCTTGATCGGATT GAT	GATATGGTCCGCCAG AAAA	59.9	390	INTERGENIC	--	--	--
scaffold1197_P2_113023	scaffold1197	113023	ATTTTTTTT/ATTTTTTTTT	TTGATGATCCAACGGTT CAA	TCCAGCATTTTCAGCAA TCA	60.3	681	DRR	Ca_24062	S	--
scaffold1197_P2_185392	scaffold1197	185392	TTCTCTCTCTCTCTCTCTCTCTCTTT CTCTCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTTTCTCTCTCTCTC	CGACCCCATGAACCT CAAT	TTGAGACCGGGTTTAG GATG	59.9	502	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
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scaffold1197_P2_209617	scaffold1197	209617	ATTTT/ATTT	GCCCTCAGATGAGACT CAGG	AATGTGAACTCGCCA AGAC	60.1	514	INTERGENIC	--	--	--
scaffold1197_P2_244953	scaffold1197	244953	TAAAAAA/TAAAAAAA	CACTTTTGTTCATCG CCA	ACTGTGATCCGGTGAT TTGA	58.9	574	INTERGENIC	--	--	--
scaffold1197_P2_285281	scaffold1197	285281	ATTTTTTTTT/ATTTTTTTTT	AGTTTGCCATTCCAACC ATC	TCCCACAACAAAATTCG TCA	59.9	467	INTERGENIC	--	--	--
scaffold1197_P2_356235	scaffold1197	356235	TTATATATATATATATATATA/TTATAT ATATATATATATATATA	GGTTTGAAAGTGATG GGTG	GCGATTACGGTACCAC GAGT	60.0	499	INTERGENIC	--	--	--
scaffold1197_P2_480954	scaffold1197	480954	TAAAAAAAAA/TAAAAAAAAA	AATTCAATGGAGTTGCC ACC	CAGCCACCACCTTCAA CTTT	60.1	883	INTERGENIC	--	--	--
scaffold1197_P2_5120	scaffold1197	5120	GT/GTT	TCGAGCTCAATTGGTA GTG	GAGAGCTACCGTGCA CACA	60.1	486	INTERGENIC	--	--	--
scaffold1197_P2_540966	scaffold1197	540966	ACCC/ACC	TAACTGGCGTTAAGA ACGG	TTGAGGGACATATTTG GGC	59.8	901	INTERGENIC	--	--	--
scaffold1197_P2_75749	scaffold1197	75749	TTTATTATTATTATTATTATTAT/ TTTATTATTATTATTATTATTATT AT	TAACCCAAAATCCCAA CCA	TGGATCGCATAACTCC ATGA	60.0	396	INTERGENIC	--	--	--
scaffold1197_P2_87034	scaffold1197	87034	GATATATATATATATATATATATAT/ GATATATATATATATATATATAT	CCGATCAACCCGTTAA ATC	ATCTTCAGGGTGGAGG CTCT	60.2	310	INTERGENIC	--	--	--
scaffold12_P2_118625	scaffold12	118625	AATATATATATATATATATATATAT ATATATATATATATATAT/AATATATAT ATATATATATATATATATATATATA TAT	ATCTTTTGGTTCCCG ATT	TGGGTTTTAGTTTTTC CCC	60.0	337	INTERGENIC	--	--	--
scaffold12_P2_154021	scaffold12	154021	AATATATATATATATATATATATAT ATATATATAT/AATATATATATATAT ATATATATATATATAT	TCGAGTTTGCAAAGGC AAC	ATGCCAATTGCCAAG CTAA	60.6	350	INTERGENIC	--	--	--
scaffold12_P2_16589	scaffold12	16589	TTATATATAT/TTATATATATAT	AGTTTTGCAATCACGTG CAG	GGTGCAAAAACGTCT CCTA	58.9	214	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold12_P2_16684	scaffold12	16684	AAATTGTTTCAATTGTTTC/AAATGT TTTC	AGTTTTCACATCACGTG CAG	AAGCTGCATCTCAACC TCGT	60.0	611	INTERGENIC	--	--	--
scaffold12_P2_16767	scaffold12	16767	CA/C	AGTTTTCACATCACGTG CAG	AAGCTGCATCTCAACC TCGT	60.0	611	INTERGENIC	--	--	--
scaffold12_P2_16857	scaffold12	16857	CA/CAATTAAA	AGTTTTCACATCACGTG CAG	AAGCTGCATCTCAACC TCGT	60.0	611	INTERGENIC	--	--	--
scaffold12_P2_271141	scaffold12	271141	TACA/TA	TGATGATTTTGATCGG AAA	CCGTGAAACTTCGGA CAGAG	59.8	854	INTERGENIC	--	--	--
scaffold12_P2_279489	scaffold12	279489	ATTTTTTTTT/ATTTTTTTTTT	AAGACGAAGCTGGACA AGGA	ATCTCCCCCTTTTGAC GAT	59.8	555	INTERGENIC	--	--	--
scaffold12_P2_296676	scaffold12	296676	ATT/ATTT	GGAACCAAGACTTTGG GTGA	CCAATACTTGC GTGG AACT	60.0	715	INTERGENIC	--	--	--
scaffold12_P2_317806	scaffold12	317806	CAAA/CAAAA	TTGATCAATGCACGAG GAA	AAGACGCATGAGGTTT TGCT	59.9	633	INTERGENIC	--	--	--
scaffold12_P2_352195	scaffold12	352195	GAAA/GAAAAA	GTTGTCCGGCGTATATT GCT	TCATCAAAGGCATGCA AATC	59.6	572	INTERGENIC	--	--	--
scaffold12_P2_58042	scaffold12	58042	TA/T	GTGAAAGCGCTGTAAA AGGC	TCTTGGAGGTGCCAAC TTCT	59.8	459	INTERGENIC	--	--	--
scaffold1202_P2_177457	scaffold1202	177457	TAT/TATCATTTAGAGGAAT	CAGGCCTGGGTAACT TTGA	CACACTGGGTGTCCT TCTT	60.0	397	DRR	Ca_24666	--	--
scaffold1202_P2_178836	scaffold1202	178836	CCG/CCGTAAGGCG	TCTGACATGTGTGCA GTCA	GCCACACCGTGCTACC TATT	60.0	406	CDS (FRAME SHIFT)	Ca_24666	--	--
scaffold1202_P2_179416	scaffold1202	179416	G/GCCGAATCAACTAGCCCC	AATAGGTAGCACGGTG TGGC	TCACATGGAACCTTCC CCTC	59.9	431	INTRON	Ca_24666	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1202_P2_179607	scaffold1202	179607	AG/AGG	AATAGGTAGCACGGT TGGC	TCCCTTGCCTACATTG TCC	59.9	814	INTRON	Ca_24666	--	--
scaffold1202_P2_184065	scaffold1202	184065	C/CATGATTGGTT	CATCGAGTCTTTGAACG CAA	TCACAAATGGCAACGT GTTT	60.0	319	DRR	Ca_24667	--	--
scaffold1202_P2_25847	scaffold1202	25847	CTTTTCTTTTTTTTTC/CTTTTCTTTTT TTTTCTTTTTTTTTC	TTGTCCACAGTGGCATA TTGA	TGGCAGATATGGGGT GTAT	60.0	737	INTERGENIC	--	--	--
scaffold1202_P2_54722	scaffold1202	54722	AATATATATATATATATATATAT/AA TATATATATATATATATAT	GCACCGTAGCAATGGT ACAAA	TGGCGGCTGAAACTC TAAT	59.8	298	INTERGENIC	--	--	--
scaffold1202_P2_6534	scaffold1202	6534	TAAAAAA/TAAAAA	AGTGCCCTCGTCAAC AAAC	TTACAGCGCGTGTGA AAAG	60.1	824	DRR	Ca_24658	--	--
scaffold1202_P2_82133	scaffold1202	82133	ATGTGTGTGTGTGTGTGTGTGTGTG TGTGTGTGTGT/ATGTGTGTGTGTGT GTGTGTGTGTGTGTGTGTGTGTGT	AACACATCCGGGTTCC ATTA	TTTGATCCATTGGCCT AGC	60.0	739	INTERGENIC	--	--	--
scaffold1202_P2_82238	scaffold1202	82238	AATATATATATATA/AATATATATAT ATATA	AACACATCCGGGTTCC ATTA	TTTGATCCATTGGCCT AGC	60.0	739	INTERGENIC	--	--	--
scaffold1202_P2_83479	scaffold1202	83479	GTATATATATATATAT/GTATATAT ATATAT	ACGGTGTAGGCAAGAT GGAC	AGGATGCATGGGATGA AAAG	59.9	458	INTERGENIC	--	--	--
scaffold1206_P2_920	scaffold1206	920	A/AC	TATCACCTATCAGAGCG GGG	GAGTTATTCGGGTGGG GAAT	60.0	546	INTERGENIC	--	--	--
scaffold1215_P2_12684	scaffold1215	12684	TAAAAAAA/TAAAAA	TCTCTCCCGATTGGTC ATT	TTTGCTCCTCTTCTCT GGC	59.7	588	INTERGENIC	--	--	--
scaffold1215_P2_12961	scaffold1215	12961	GAAAAAAA/GAAAAA	GCCAGAAGAAGAGGAG CAAA	AAACATTCAATCACCA GGGA	59.3	470	INTERGENIC	--	--	--
scaffold1215_P2_13648	scaffold1215	13648	TAAAAA/TAAAAA	TCGTGGGACTAAAAC GAGGA	CGCACATATGAATGAT CCCA	60.3	576	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1215_P2_14063	scaffold1215	14063	GGGATCAT/G	AATTGAAGGAAGATGG AAAACA	ACAAACTGGAGGGCAA CAAC	60.0	822	INTERGENIC	--	--	--
scaffold1215_P2_14252	scaffold1215	14252	CTTT/CTT	TGGGATCATTCATATGT GCG	ACAAACTGGAGGGCAA CAAC	60.0	447	INTERGENIC	--	--	--
scaffold1215_P2_36211	scaffold1215	36211	TAGA/TA	GGCTGGTAACCTCTCAA AGCG	TTTTCTTTTGCGGGAAA TTG	60.0	457	INTERGENIC	--	--	--
scaffold1215_P2_41563	scaffold1215	41563	GATATATATATATATATATATA/GATA TATATATATATATATATA	CCCTTCATTTCCTTCG ATA	GAAGCAGGCTTCGATG GATA	60.3	415	INTRON	Ca_28164	--	G2-like
scaffold1215_P2_44629	scaffold1215	44629	TAAAA/TAAAA	AAACATCTCCTTTGTGT TGCTGA	AATCTTTTCGCTCAACAA TGCT	59.0	391	URR	Ca_28164	--	G2-like
scaffold1215_P2_45663	scaffold1215	45663	ATT/ATTT	TGGCTTTTGTATTTTCAG AGTTGG	AGTGGGACCATGATTT TTGAA	59.3	492	INTERGENIC	--	--	--
scaffold1215_P2_45939	scaffold1215	45939	ATTTT/ATTT	TTTCAAAATCATGGTC CCAC	GGGGTGGTGTCTATCT TTGC	59.4	337	INTERGENIC	--	--	--
scaffold1219_P2_16394	scaffold1219	16394	ATTTTTTT/ATTTTTTTTT	GGCCGAAAAGGTGATC AGTA	TGAAACTCAACATTGTG GGAA	59.0	493	INTERGENIC	--	--	--
scaffold1219_P2_23613	scaffold1219	23613	TTATATATATATATATATATATATAT/T TATATATATATATATATATATATAT	CCCCGCTCTGATAGGT GATA	TGCCAAATTGATTTTCG TAAT	57.2	451	INTERGENIC	--	--	--
scaffold1219_P2_40006	scaffold1219	40006	GTATATATATATATAT/GTATATATAT ATATAT	TGGTTTAATGTTGGCAA ATGG	ATCCAGTTGGTGAGGA AAAA	57.1	317	INTERGENIC	--	--	--
scaffold1219_P2_44692	scaffold1219	44692	ATTTTTTTTT/ATTTTTTTTT	TGAAGCTGGGGTATTA AACTTACC	AAACATTAGTCCCTCGT GTTAAAAA	59.4	627	INTERGENIC	--	--	--
scaffold1219_P2_7175	scaffold1219	7175	AT/ATT	GGAAACCTCACCTAC CACA	TGGGTCGTTCTTTTG GAGT	59.6	925	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1219_P2_7693	scaffold1219	7693	CAA/CAAA	ACTCCAAAAGAACGAC CCA	GGACATTCTCACCTG CAAC	60.5	104	INTERGENIC	--	--	--
scaffold1221_P2_73998	scaffold1221	73998	AATATATATATATATATATATATAT ATATATAT/AATATATATATATATATAT ATATATATATATATATATATAT	ACGGCACCGTGAGTAA ATTG	GAAACTACCGAGCAAA TGCC	59.7	840	INTERGENIC	--	--	--
scaffold123_P2_240930	scaffold123	240930	TAAAAAAAAA/TAAAAAAAAA	TACCCGTGCTCAACATC CTT	GGGCATTGTAAAAGGT ACGA	59.9	663	INTERGENIC	--	--	--
scaffold123_P2_272489	scaffold123	272489	ACAAAT/A	GCGTTTTATGGTTGCT GGT	GCGAGATGTAGGCTTT GTGG	60.8	657	INTERGENIC	--	--	--
scaffold123_P2_361645	scaffold123	361645	TCA/TCAAAGAACTCTTCCCAACA	ATCCACCCACCCTTTCT TTC	CAGAGCAACCAGGAAC AACA	59.9	293	CDS (large-effect mutations)	Ca_24703	QR	B3
scaffold123_P2_66916	scaffold123	66916	CAAA/CAAAA	AACGTACTGCCTATCAC GGG	TTTGGCGTGTCATATT TGA	59.9	532	INTERGENIC	--	--	--
scaffold1231_P2_75096	scaffold1231	75096	TGG/TG	CCATCTTCTCCTCTGT CGC	TTCTCCACAAATCCAA CCA	58.9	430	INTERGENIC	--	--	--
scaffold1231_P2_80038	scaffold1231	80038	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATATA TATATATATATATATATA	TATGCATATGGGCCTA GCCT	TCACATTTCTTGTGTG TTTGACT	58.7	653	INTERGENIC	--	--	--
scaffold1238_P2_133463	scaffold1238	133463	AC/ACC	CCAAGAGAAAGTTTCCT GCAT	TGAACTTTGAATTCTGG GGC	60.1	193	INTERGENIC	--	--	--
scaffold1238_P2_155840	scaffold1238	155840	CATATATATATATATAT/CATATATAT ATATATAT	CCAGTAAATCTTCGCT CGC	TTGGTATTGAACTCGG AGGC	60.1	682	INTERGENIC	--	--	--
scaffold1238_P2_42907	scaffold1238	42907	AATATATATATATATA/AATATATATAT ATATATATATA	TATTTTGATTTTGGCT CGG	AGGAAGAGTGGAGTTG CGAA	60.0	502	INTERGENIC	--	--	--
scaffold1238_P2_52116	scaffold1238	52116	TA/TAA	ATTCAAACCAAACCC TCC	TAAATCGTGTGACCC GTGA	60.0	110	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1239_P2_4253	scaffold1239	4253	TC/TCC	TCGAGTGGTACGAAA TCCC	TCCCAGTCCTCGATT CATC	60.0	539	INTERGENIC	--	--	--
scaffold1239_P2_4656	scaffold1239	4656	T/TC	TCGAGTGGTACGAAA TCCC	TCCCAGTCCTCGATT CATC	60.0	539	INTERGENIC	--	--	--
scaffold1240_P2_105707	scaffold1240	105707	A/AG	ACATGGAACCCATCCAA AGA	GCCCTCAGATGAGAGT CAGG	59.9	268	INTERGENIC	--	--	--
scaffold1240_P2_120572	scaffold1240	120572	CATATATATATATATATATATA/CATA TATATATATATATATATATA	CACTGCAGCACTACCT CCAA	GCAGATAGCGTTGTGG TCAA	59.9	499	DRR	Ca_26525	I	--
scaffold1240_P2_70748	scaffold1240	70748	CA/CAA	TTCCTTCATCACCCCTT ACG	TTGAGGATATACACGG GCAA	59.0	668	INTERGENIC	--	--	--
scaffold1240_P2_74630	scaffold1240	74630	CTATTATTATTATTATTATTATTATT ATTATTATT/CTATTATTATTATTATTATT ATTATTATTATTATTATTATT	GACGCATATGAGCAGG CTTT	TCTGTTGTCGTACAG GGTC	59.6	858	INTERGENIC	--	--	--
scaffold1242_P2_2626	scaffold1242	2626	AATATATATATATATATA/AATATATATAT ATATATATA	TGGTGTGGAGTCATG TTTTTC	TTCTCAACTGACGCAT GAGG	60.0	388	INTERGENIC	--	--	--
scaffold1242_P2_49543	scaffold1242	49543	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	TTTCATCAGTGATATTG ACCGTG	AACGGCCGCATACAAT TAAC	59.9	535	INTERGENIC	--	--	--
scaffold1242_P2_8493	scaffold1242	8493	GTATATATATATATAT/GTATATATAT ATATATATAT	TATAACGCCCTGAACCC AAA	TGGGTGGGAGTAATTT TTCG	59.8	363	INTERGENIC	--	--	--
scaffold1244_P2_7980	scaffold1244	7980	A/AAC TTG	TTCAACAAAAACCCAC CAT	TGTTTCAACCATAGA GGGC	59.9	398	INTERGENIC	--	--	--
scaffold1244_P2_9459	scaffold1244	9459	TACATCGATTGGACATCGATT/TACAT CGATT	GCCCCAGACTTCAACT TCA	AACCCCTCAAATGCGTC AATC	59.9	266	INTERGENIC	--	--	--
scaffold1246_P2_7947	scaffold1246	7947	TAAA/TAAA	TGGATGCACAAGATGG GT TA	TCAGGTCATTTTCGTCC TCC	60.1	871	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1247_P2_7950	scaffold1247	7950	CTTT/CTT	TGGATGCACAATGTTG GTTT	GGCTTGTCAATTCGGT CATT	59.9	528	INTERGENIC	--	--	--
scaffold1252_P2_109685	scaffold1252	109685	ATTTTTTTTTTT/ATTTTTTTTTT	TGTGCATCCAATAAGTG GGA	TAAAGGACCAAGTCGG GAAA	59.5	423	INTERGENIC	--	--	--
scaffold1252_P2_112875	scaffold1252	112875	CATATATATATATATATATAT/CATAT ATATATATATATATATATATATATAT	TTGGAAGGAGCCCTTA CCTT	TGAAAAGGGGTAGGCA ACAC	60.0	787	INTERGENIC	--	--	--
scaffold1252_P2_13940	scaffold1252	13940	CAATCGATTAACAAATCGATTA/CAATC GATTA	TTGGTAAATCAACTGGG CAA	TGGCAATGGGCTAATT TCTC	60.0	519	DRR	Ca_27776	--	--
scaffold1252_P2_46977	scaffold1252	46977	CTTTTTTTTTTT/CTTTTTTTTTT	CATGTTGACATCGTTG GAC	ACGCATATATCGGATG CACA	59.9	557	INTERGENIC	--	--	--
scaffold1252_P2_66355	scaffold1252	66355	AGGGGGG/AGGGGGG	AGGTGGGTTGAGTTGT CAGG	TTGACTCTGGGAAGT TGGG	60.1	808	CDS (FRAME SHIFT)	Ca_27777	--	--
scaffold1252_P2_88493	scaffold1252	88493	CTT/CT	TTGGAAGGAGCCCTTA CCTT	TCTCCCTCCTCCTCCA TTT	60.0	343	INTERGENIC	--	--	--
scaffold1252_P2_98018	scaffold1252	98018	CA/CAA	TTTGCCAATCGATTATC GTG	TGCACAAGTCAGTAGC ACCC	59.9	561	INTERGENIC	--	--	--
scaffold1256_P2_617	scaffold1256	617	ATTTTTTTTTTT/ATTTTTTTTTT	TCCAACCCCTCACAAA TCA	TTGGACTACGGGTTAG TGGG	59.8	914	INTERGENIC	--	--	--
scaffold1259_P2_75294	scaffold1259	75294	A/ATGACAAAGGGAAGAGG	TCCACAGAACCTGCAG ACAG	GCTGGATAAGCATTGC CATT	60.1	709	INTRON	Ca_27885	I	--
scaffold1269_P2_2823	scaffold1269	2823	AC/ACC	CTTGTTGGATGCCAA GATT	CATTTTCGTCTCTCT GGC	59.8	570	INTERGENIC	--	--	--
scaffold127_P2_152263	scaffold127	152263	TCTAATCGATTGC/TCTAATCGATTGCC TAATCGATTGC	TCGACTTGTCATCGCT TTG	CTCTCTGCTCGAAAT CCG	59.9	836	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold127_P2_188350	scaffold127	188350	CTTTTTTTTTTT/CTTTTTTTTTT	ACCCGGAAACCTAAC ATTG	CCACTCGTGGTCGGTT AAGT	60.0	860	INTERGENIC	--	--	--
scaffold127_P2_256092	scaffold127	256092	TC/T	TTTCAGGCAATTTTCGA ACC	ATTATGTGAAAGCGCA AGGC	60.2	797	INTERGENIC	--	--	--
scaffold127_P2_270423	scaffold127	270423	AATTTTCATTTTCATT/AATTTTCATT	GCCACATATCTTGTG CCT	TTCAAGCACATACTGCA CCAG	59.9	687	INTRON	Ca_26800	--	--
scaffold127_P2_304621	scaffold127	304621	GTATATATATATATAT/GTATATATAT ATATAT	AAGGAGTGAATTTGTG TGTTACACT	GGCGGCTTGTGATAAA GGTA	60.1	246	INTERGENIC	--	--	--
scaffold127_P2_61054	scaffold127	61054	AG/AGG	TATGCTTCCACCTTCCC ATC	GACTAAGGAAGAGCAT GGCG	60.0	475	INTERGENIC	--	--	--
scaffold1272_P2_125862	scaffold1272	125862	CAAA/CAA	CTCTCATCTGAGGGCA AAGC	ATTGGCAACACAGGG ACTC	60.0	387	DRR	Ca_26855	--	Trihelix
scaffold1272_P2_21606	scaffold1272	21606	TC/TCC	TTCTTTCCACACAACC ACA	CCATCTTCTCCTCTGT CGC	60.0	362	INTERGENIC	--	--	--
scaffold1272_P2_47790	scaffold1272	47790	GAAAAAAAA/GAAAAAAAA	ATGCAATTGAGATGGAA GGG	TCTCCACAAGGCTCCT CAGT	60.0	304	INTERGENIC	--	--	--
scaffold1274_P2_6685	scaffold1274	6685	T/TGTG	TCATTTTCGTCCTCCT TGG	ACACACCTATTGGACG CACA	60.0	272	INTERGENIC	--	--	--
scaffold1275_P2_6195	scaffold1275	6195	CAA/CAAGAGATAA	TGTTGCCTCGTAATTCA ACG	CAGGGACTAAAACGT TTGCTG	58.9	556	INTERGENIC	--	--	--
scaffold1275_P2_8880	scaffold1275	8880	CAAAAA/CAAAA	GGCAAGGTTGACAATT GGT	GAGTTTGGCTTCGAT CACC	59.7	723	INTERGENIC	--	--	--
scaffold1276_P2_1178	scaffold1276	1178	CTTTT/CTTTTTT	TCAGCCATGACTTGAG GTTG	CTCACTTGGTCCCAT GCTT	60.1	361	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1278_P2_65072	scaffold1278	65072	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TTATTATTATTATTATTATT	TGGGTAGCAGTAATAAT GGCA	TGAGCAAGATGTGTTT GTGG	59.7	341	INTERGENIC	--	--	--
scaffold128_P2_160289	scaffold128	160289	TAGAGA/TAGA	TCTTTTATCCATTGATT GCGA	AGTGGAACAAGTGCGG GTAG	60.2	763	INTERGENIC	--	--	--
scaffold128_P2_194983	scaffold128	194983	TA/TATCA	AAAATCCCTATTCAACC CCC	TACAAAACAAATCGGCT CCC	59.9	978	DRR	Ca_21439	--	TALE
scaffold128_P2_256571	scaffold128	256571	ATT/ATTT	GCCAATCGATTACCTC AAA	CACCTATGCAAAAAGG GGGA	59.9	451	INTERGENIC	--	--	--
scaffold128_P2_256699	scaffold128	256699	TG/TGG	GCCAATCGATTACCTC AAA	TGCCTTAACTGACAAA GGGG	60.1	715	INTERGENIC	--	--	--
scaffold128_P2_397526	scaffold128	397526	TAA/TA	TGTCGACTGTGACTTG GGC	GGGGATTGATGTTGG GTTA	59.5	419	INTERGENIC	--	--	--
scaffold128_P2_43105	scaffold128	43105	AATATATATATATATATATATAT ATA/AATATATATATATATATATAT TA	CCTGATTTCTCCGTCG AAA	ACTCGCAGCAAAACATC CTCT	60.0	691	INTERGENIC	--	--	--
scaffold128_P2_435902	scaffold128	435902	AT/A	AAACCTCTTTGCAATGG TGC	AGTGAAACCAACGCCA AAAC	60.0	877	INTERGENIC	--	--	--
scaffold128_P2_437260	scaffold128	437260	ATTTTTTT/ATTTTTTT	TGTGCGTATATACAGT AAAATCGT	GCACTTTCTGGAACCC TTGC	59.9	526	INTERGENIC	--	--	--
scaffold128_P2_547816	scaffold128	547816	CAAA/CAA	CAACGCAACATAACACC CAG	GGAAAGTTGCTCACCA CCAT	60.0	361	INTERGENIC	--	--	--
scaffold128_P2_549134	scaffold128	549134	GAAAAAAAA/GAAAAAAAAA	TTTAACGAATCACCATG CCA	CATGCATTACCCTCAA GCTG	59.3	425	INTERGENIC	--	--	--
scaffold128_P2_588046	scaffold128	588046	TAA/TAAA	AGTACTGAGCCCCCTG GTTT	ATGATGTTGTAGCGATT GCG	59.7	308	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold128_P2_593763	scaffold128	593763	GC/G	TGCCCATATGTAGCA GCAA	CTGTACCACTTTAGG CGGC	59.8	374	INTERGENIC	--	--	--
scaffold128_P2_593944	scaffold128	593944	CAA/CAAAA	TGCCCATATGTAGCA GCAA	ATAGAGATGAGGTGG GCCT	59.9	704	INTERGENIC	--	--	--
scaffold128_P2_608753	scaffold128	608753	GAIAAAAAAAAAAAAA/GAIAAAAAAAAA AAA	TACCTACGGACAGGA GTGG	CTTTGGCATCCCATGT TCT	59.9	656	INTERGENIC	--	--	--
scaffold128_P2_732668	scaffold128	732668	A/AC	GCTCAAAGCACATGAC AGGA	CATTTTGAACCAAAGCA GCA	59.8	479	INTERGENIC	--	--	--
scaffold128_P2_747239	scaffold128	747239	TCCC/TCC	GGTGTGTTTGTGACGT TGGA	GGAGGACGAAAATGAT CGAA	60.0	646	INTERGENIC	--	--	--
scaffold128_P2_747253	scaffold128	747253	G/GT	GGTGTGTTTGTGACGT TGGA	GGAGGACGAAAATGAT CGAA	60.0	646	INTERGENIC	--	--	--
scaffold128_P2_820749	scaffold128	820749	A/AT	GTTTTGACCAGCTCTCC TGC	CTCAGTCGAACCTACG AGGC	60.0	666	INTRON	Ca_21452	D	--
scaffold128_P2_853519	scaffold128	853519	CCATACATA/CCATACATACATA	AACACATCCGGGATCC ATTA	AATGACGACGACGATG ATGA	60.1	551	INTRON	Ca_21452	D	--
scaffold128_P2_88977	scaffold128	88977	TTTATTATTATTATTATTATTATT/TT TATTATTATTATTATTATTATTA	ACAATGGCATAAGCGG TAGG	TCGATTGCTAGTTTTG CAC	59.1	905	INTERGENIC	--	--	--
scaffold1281_P2_139435	scaffold1281	139435	TTATATATATATATATATATATATAT/TT ATATATATATATATATATATATATATAT ATATATAT	TCCGGAGGCATGAATA TTGT	TATGCATCCAAGGTGA TGGA	59.9	451	DRR	Ca_21509	--	--
scaffold1281_P2_1507	scaffold1281	1507	TAAAAAAAA/TAAAAAAAAA	CGATTTCCCACTCGAAA TGT	TTTTGGTTTCTTTTGGG TTTTT	59.0	786	INTERGENIC	--	--	--
scaffold1281_P2_1615	scaffold1281	1615	CTTT/CTTTT	CGATTTCCCACTCGAAA TGT	TTTTGGTTTCTTTTGGG TTTTT	59.0	786	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1281_P2_171001	scaffold1281	171001	ATTTTT/ATTTT	TGAGGCGACCAATCT ACCTG	GAAATTTTCACGTCTAC AGCGA	59.4	197	INTERGENIC	--	--	--
scaffold1281_P2_323883	scaffold1281	323883	GATATATATATATATATA/GATATATA TATATATATATA	TCACTCCTTGTAATCG GCA	CGGGCCTATTCTCATC CATA	59.9	802	INTERGENIC	--	--	--
scaffold1281_P2_350867	scaffold1281	350867	TAAAAAAAAA/TAAAAAAAAA	TGACTCGTCAACGTATT CCG	TTAAGCTGGCATTCCA TCC	60.0	662	INTERGENIC	--	--	--
scaffold1281_P2_376337	scaffold1281	376337	GTTTTTTTTT/GTTTTTTTTT	TGTTTAGCGCTAGTT GGC	TCGATTATCGTAGGG AAGG	60.1	665	INTERGENIC	--	--	--
scaffold1281_P2_381985	scaffold1281	381985	CAATAAATAAATAAATAA/CAATAA ATAAATAAATAAATAA	GGTAGGGTCCCCCACT CTTA	AGGATCCGAATTAATG GCAG	59.0	845	INTERGENIC	--	--	--
scaffold1281_P2_440047	scaffold1281	440047	CTTTTTTTT/CTTTTTTTT	TTGGTTGGTAGAGTTGT GCG	CTCACCCTGCTTCAA TTTT	60.4	190	INTERGENIC	--	--	--
scaffold1281_P2_46557	scaffold1281	46557	T/TTTGC	CAATTCGACATGCATT GCT	AATTCATGCACCGTCA ATT	59.3	650	DRR	Ca_21505	K	--
scaffold1281_P2_469460	scaffold1281	469460	GAAAAAAAAA/GAAAAAAAAA	TCTCTGGCAACCGTTCT TCT	ACCTCGTTGAGACAG CTTT	59.9	566	INTERGENIC	--	--	--
scaffold1281_P2_471713	scaffold1281	471713	AATATATATATATA/AATATATATATAT A	GAGCATTGTGACAAAT TGAGC	CGGGAATCTTGATGA ATCG	60.4	541	INTERGENIC	--	--	--
scaffold1281_P2_472602	scaffold1281	472602	CATA/CATATATA	CAAATGGAGTTATTGC ATTG	AGCAGTGCTTCAACT ATGC	59.2	569	INTERGENIC	--	--	--
scaffold1281_P2_473339	scaffold1281	473339	GATATATATATATATATA/GATATA TATATATATATA	ACGCATGGATATTGCA GTCA	TCCGATTGTGACCAG TTTTT	59.5	783	INTERGENIC	--	--	--
scaffold1281_P2_492209	scaffold1281	492209	TAAAA/TAAAA	GGAATGGAACACATT CAACA	GAATGCTTGAGAACT TTGGG	58.8	499	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1281_P2_504417	scaffold1281	504417	GAA/GAAAA	TGCATGTTTGTCTGCAATGA	CAGGCATTTGCCTCAATT	60.1	525	INTERGENIC	--	--	--
scaffold1281_P2_50837	scaffold1281	50837	CTTTTTTTTTTT/CTTTTTTTTTTTTTTT	CGAAACACATTTACAA AACCA	TGGTAAAGGGGTATT CCATTG	59.9	558	INTERGENIC	--	--	--
scaffold1281_P2_52152	scaffold1281	52152	TGG/TG	ACCCGCATGTGATGGA TAAT	TTGGTGGCATGCCTTT ATT	60.3	321	INTERGENIC	--	--	--
scaffold1281_P2_88056	scaffold1281	88056	G/GA	TGTGGCTTTGAGAATGATCG	TCCCTCCTTCACAAAATGTC	60.1	676	INTERGENIC	--	--	--
scaffold1281_P2_9349	scaffold1281	9349	CAAAAAAAAA/CAAAAAAAAAAAAA	CCAAACCAATTGAATCATGC	CATATGCTTTGTGTACGGG	60.0	496	INTERGENIC	--	--	--
scaffold1281_P2_93995	scaffold1281	93995	CGCCCGGCCCGGCCCGG/CGCCCGGCCGCGCCCGGCCCGG	AGCAAATTGACCACACACA	TGGACCAAGGATACGTGA	60.0	288	INTERGENIC	--	--	--
scaffold1283_P2_64512	scaffold1283	64512	AT/A	AGGTCATTTTCGTCTCCTCCT	ATTTGGGAATTTCCGCTCT	59.9	560	INTERGENIC	--	--	--
scaffold1292_P2_7985	scaffold1292	7985	CAAAAAAAAA/CAAAAAA	TTGCTGTACCCAATCCTTG	TTTGGGATTTAGGGTGTCA	60.2	575	INTERGENIC	--	--	--
scaffold1292_P2_8345	scaffold1292	8345	AATATATATATATATATATATATATATATATATA/AATATATATATATATATATATATATA	TCACAATTGGACCGAGATGA	GACTGGTTTGACCTGCGTT	60.2	608	INTERGENIC	--	--	--
scaffold1293_P2_66330	scaffold1293	66330	AGCCT/A	TCGATTGTCCAATGGATTGT	AAGCAATCAAGCAAGATGGA	59.8	294	INTERGENIC	--	--	--
scaffold1294_P2_29929	scaffold1294	29929	CT/C	CCAAAGGAGGACGAAATGA	CTTGTGCATCCAATAGGGT	59.8	389	INTERGENIC	--	--	--
scaffold1294_P2_33981	scaffold1294	33981	AT/A	GGAGGACGAAAATGACCAAA	TGTGCATCCAATAAGCGTGT	60.1	562	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold1307_P2_6228	scaffold1307	6228	A/AG	ACACACCTATTGGACG CACA	AGGTCAATTCGTCCT CCCT	59.9	377	INTERGENIC	--	--	--
scaffold1308_P2_11986	scaffold1308	11986	TACAACAACAAC/TACAACAACAACAAC	CCAAAGGAGGACGAAA ATGA	TGCATAATCGATTGCG ACAT	59.9	718	INTERGENIC	--	--	--
scaffold1308_P2_16327	scaffold1308	16327	ACCC/ACC	AGGGAGGACGAAAATG ACCT	CCAATTGGGGTTTTTAA CCA	59.5	488	INTERGENIC	--	--	--
scaffold1308_P2_98092	scaffold1308	98092	ATCTCCCTC/ATC	TCTTCACGAGCATCGAT TTG	AGTTGGAGGTGGTGAA GGTG	60.0	387	INTERGENIC	--	--	--
scaffold1309_P2_26842	scaffold1309	26842	ATTT/ATTTT	CGCCTTTCCAATTCCAT CTA	AAATGCCCAACATCT GAC	59.8	348	INTERGENIC	--	--	--
scaffold1309_P2_49935	scaffold1309	49935	CATATATATATATATA/CATATATATATA TATATATA	TGGGTGCTATTGCAAT CAA	TTTTGCTTCGACACTGT TGC	60.0	245	INTRON	Ca_26762	--	Trihelix
scaffold1309_P2_58470	scaffold1309	58470	CTTTT/CTTTT	TGGGTAACGTAACCTA CGGC	ATCCGGTAAAAATCTCC GCT	59.9	951	DRR	Ca_26763	--	--
scaffold1309_P2_88698	scaffold1309	88698	TAAAAAAA/TAAAAAAA	AGCAATTGCAGCTTGT GATG	AAAGCGTTGTGGAATC GAAC	60.1	931	INTRON	Ca_26765	--	Nin-like
scaffold131_P2_8818	scaffold131	8818	GCT/GCTCT	ACAGACTTCCAGCCCT TCA	GCCTCCGAGTTCAATA CCAA	60.1	417	INTERGENIC	--	--	--
scaffold1312_P2_4504	scaffold1312	4504	GATATATATATATATATATA/GATATA TATATATATATATATATATA	TTTGCAACATCACAAAC ACA	CAAGCGCTATGTGACC TCCT	60.4	584	INTERGENIC	--	--	--
scaffold1312_P2_58670	scaffold1312	58670	TAAAAAAA/TAAAAAAA	TTGCCTAAGATCTTTGA AAATCAG	CGAGAAATTAATGCTT GTTCCA	59.3	835	INTERGENIC	--	--	--
scaffold1312_P2_62434	scaffold1312	62434	AAGCAG/AAG	ATGTTTTCTTGCGTTTG GTC	ACTTCTGCGCATCACA ACTG	60.1	418	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1312_P2_88981	scaffold1312	88981	AGTACGTA/AGTA	GACTCCGTGGAATAAC GATCA	TGTGTCCACAAAATAC CACA	59.7	837	INTERGENIC	--	--	--
scaffold1312_P2_89732	scaffold1312	89732	ATTTTTTT/ATTTTTTTT	TTCATTACGCCATTGAC ACTTT	ACAATGTGTGCCAAC AAAA	59.9	457	INTERGENIC	--	--	--
scaffold1313_P2_102532	scaffold1313	102532	AATATA/AATA	GCTGTCTTTTCTGCTTC GCT	CACCAAATGCGTTGTA GCAC	60.2	396	INTERGENIC	--	--	--
scaffold1313_P2_117997	scaffold1313	117997	ATG/ATGCGTG	CTCAGTCGAACCTACG AGGC	GTTTCAACCGCATCCA ATTT	59.8	512	INTERGENIC	--	--	--
scaffold1313_P2_155204	scaffold1313	155204	GTCAAACCTAGCGAGATCAA/GTCAAA CTCTAGCGAGATCAAACCTAGCGAGAT TCAA	AGCGTCACAGCCTATC CATC	TGCATAATCGATTGGC ACAT	59.9	385	INTERGENIC	--	--	--
scaffold1313_P2_168778	scaffold1313	168778	TA/TATCGTTCA	CAATTGTTCTGTCTCC ATT	AACACAATTTTGTGGG CCAG	60.8	273	INTERGENIC	--	--	--
scaffold1313_P2_180679	scaffold1313	180679	ATTTTTTTTTT/ATTTTTTTTTT	TCAGGGTTAGGTCATC AGGG	AGGGAGGCAAAATTCG CTAT	60.1	554	INTERGENIC	--	--	--
scaffold1313_P2_212064	scaffold1313	212064	CAAAAA/CAAAAAA	AATTGTCAGCACGTCCA CTA	TAACCCGAGTTGGTG AATC	59.8	524	INTERGENIC	--	--	--
scaffold1313_P2_40012	scaffold1313	40012	ACATTCAAGAA/ACATTCAAGAATAAGC ATTCAAGAA	ACACTCGTGCAAACTGA TCG	CTTTGTTGGTGCGTGT GTTC	60.2	721	INTERGENIC	--	--	--
scaffold1315_P2_121793	scaffold1315	121793	TG/TGG	TACGTGTTAACGTGGT GGA	TCCATTGATCCGCCTT CTAC	60.0	312	INTERGENIC	--	--	--
scaffold1315_P2_172506	scaffold1315	172506	TTATATATATATATAT/TTATATATATA TATATATAT	TTTCCCTTTTGTTCGG ATG	CATGTTTGAAAAGTG GTTTCG	60.4	528	URR	Ca_26616	R	--
scaffold1316_P2_13036	scaffold1316	13036	AATTATTATTATTATTATTATT/AATT ATTATTATTATTATTATTATT	ACATGCACAGAGAATG CCAA	GTGCCAGTCGATTGCC TAAT	60.1	631	DRR	Ca_28021	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1323_P2_6638	scaffold1323	6638	ATTT/ATTTT	GGCCACTGACTTGCA TGTA	TTGTGCATCCAATACG GTG	59.0	717	INTERGENIC	--	--	--
scaffold1324_P2_108053	scaffold1324	108053	AATATATATATATATATATATATA/AAT ATATATATATATATATATA	TAGACGCATGAACACCT TGC	ACCCGATTTTTACCCGT ACC	59.9	249	INTERGENIC	--	--	--
scaffold1324_P2_215253	scaffold1324	215253	ATCTTCTTCTTCTT/ATCTTCTTCTTCTT CTT	CCAAATTCAAATTGCAA GACC	CAATCGCCTTTTTATTG GGA	59.9	219	INTERGENIC	--	--	--
scaffold1324_P2_227334	scaffold1324	227334	TG/T	TTGGTGACATTTAGCAT TTCTCA	GTCCTTTGTGTCGTGG GTCT	60.0	511	INTERGENIC	--	--	--
scaffold1324_P2_235091	scaffold1324	235091	CGTTGT/CGT	TCTTGTTGTAAACCCTT GGC	TTTCGACAAAAGGTTCT CCG	60.2	431	INTERGENIC	--	--	--
scaffold1324_P2_236638	scaffold1324	236638	GAAAA/GAAAA	ATGCACCTTGAAAGGG TTTG	TTCGAGGAGGTTTTG ATTG	60.0	597	INTERGENIC	--	--	--
scaffold1324_P2_238269	scaffold1324	238269	CTTTCCTTTTCTTTCTTTT/CTTTC TTTTCTTTT	ACGGTAGCTTTAACGA GCGA	CAATTGAGTTGCGACG AGAG	59.6	567	INTERGENIC	--	--	--
scaffold1324_P2_242020	scaffold1324	242020	ATT/ATTT	TGACTTTTGACGATCG TTC	GTTCATACCTGTGGA TGCG	60.1	809	INTERGENIC	--	--	--
scaffold1324_P2_244504	scaffold1324	244504	CATATATATATATATATATATATATAT ATATATAT/CATATATATATATATATAT ATATAT	TTGTTTTCTAACCGCG AAG	CGATTGAGTTGCAACG AGAG	59.6	370	INTERGENIC	--	--	--
scaffold1324_P2_252648	scaffold1324	252648	T/TCTTTCAAC	CCTATAGGCCCACTAA GCCC	TTGCAAGCAAACCTCAC GAT	59.5	587	INTERGENIC	--	--	--
scaffold1324_P2_252816	scaffold1324	252816	CGTGAAGT/CGT	TGTTAACATGATCAGGC CCA	ACATAGCGCCACAACA TGAA	60.1	789	INTERGENIC	--	--	--
scaffold1324_P2_253776	scaffold1324	253776	ATTTTTTTTTTT/ATTTTTTTTTT	GAGTGCTCCTTGACAC TGAA	ATGAAGACCAAGCCAT CCAC	59.9	514	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1324_P2_255649	scaffold1324	255649	CTTTTTTTTTTT/CTTTTTTTT	CCTTGAGGCAGTGAT TTGT	GAGCTACCCCAATGGT TGAA	59.9	613	INTERGENIC	--	--	--
scaffold1324_P2_255844	scaffold1324	255844	GAAAAA/GAAAAAA	CCTTGAGGCAGTGAT TTGT	GAGCTACCCCAATGGT TGAA	59.9	613	INTERGENIC	--	--	--
scaffold1324_P2_255890	scaffold1324	255890	ATTTT/ATTTT	CCTTGAGGCAGTGAT TTGT	GAGCTACCCCAATGGT TGAA	59.9	613	INTERGENIC	--	--	--
scaffold1324_P2_256337	scaffold1324	256337	CAAAA/CAAA	TTCAACCATGGGGTA GCTC	TTCACCTGAATATTTTG TGGA	58.2	474	INTERGENIC	--	--	--
scaffold1324_P2_266713	scaffold1324	266713	AATCTATTATCTATTATCTATTAT/AATC TATTATCTATTAT	TGTATGCATCAACAATG TCAAGA	TCAGAGGATGTGGCAT AGAGG	60.2	160	INTERGENIC	--	--	--
scaffold1324_P2_266796	scaffold1324	266796	CA/CAA	TCTCTATGCCACATCC TCTG	CACAAATAGTTGTACAT TGGTTGC	58.6	238	INTERGENIC	--	--	--
scaffold1324_P2_267973	scaffold1324	267973	A/AT	CCAAGGCACACACAAAT GAA	AGAGAATAACCCGCAC GTTG	60.1	344	INTERGENIC	--	--	--
scaffold1324_P2_268436	scaffold1324	268436	A/AGTTCG	CAACGTGCGGGTTATT CTCT	GGCACGTGAAGTCCAC TTTT	60.2	358	INTERGENIC	--	--	--
scaffold1324_P2_269742	scaffold1324	269742	AATATAT/AATATATAT	GCGTTGATGATTTCATGT GTTG	CCAACACAGGGGAGTT CTGT	60.0	916	INTERGENIC	--	--	--
scaffold1324_P2_270833	scaffold1324	270833	GTT/GT	ACAAATCGGCCACTG AATC	TCCCGTTTCATCTCTCTC ACC	60.2	500	INTERGENIC	--	--	--
scaffold1324_P2_272116	scaffold1324	272116	TGGGG/TGGG	CCCCGCTCTGATAGTT GATA	TGTTTGTGATGCGAGC ATTT	60.3	767	INTERGENIC	--	--	--
scaffold1324_P2_272202	scaffold1324	272202	GTTTTTTT/GTTTTTTTT	CCCCGCTCTGATAGTT GATA	TGTTTGTGATGCGAGC ATTT	60.3	767	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1331_P2_79941	scaffold1331	79941	TACACA/TACACACA	TTTATGCCCAATCTCA GCC	CCTCTGAAATCCCTTT GGA	59.1	493	INTERGENIC	--	--	--
scaffold1331_P2_83953	scaffold1331	83953	AG/AGG	TCCTTTCACTATAAAT CTCCGC	AGCGGTTCTAGGATA TTGA	57.3	471	INTERGENIC	--	--	--
scaffold1331_P2_86212	scaffold1331	86212	G/GT	AGTCCCCATGTAATTGT CACG	TTTTTGTAATGAGAG GGG	58.8	711	INTERGENIC	--	--	--
scaffold1332_P2_4491	scaffold1332	4491	TCCCC/TCCCCC	CCCTCCATATCTCCAG AAA	AGCACAAACCCAAATC ACA	59.0	512	INTERGENIC	--	--	--
scaffold1332_P2_500	scaffold1332	500	TAAAAAAA/TAAAAAAA	CCAAATTTGAAGTCGG GAG	ACACGGGTCGTACAAC TTGA	59.1	443	INTERGENIC	--	--	--
scaffold1332_P2_5878	scaffold1332	5878	ATTTTT/AGTGTTTTTTT	TGATAAAACCAAGGCC TGC	GCCCTGCATAATTTCT TGC	59.7	668	INTERGENIC	--	--	--
scaffold1332_P2_7636	scaffold1332	7636	ATA/ATAAGATTGATGTTTA	ATGGACATCTCATCCCC TTC	CCAAGAGTTGTAGTTG AGTTCGT	57.6	417	INTERGENIC	--	--	--
scaffold1332_P2_8212	scaffold1332	8212	CTTTTTTT/CTTTTTTTTT	ACGAACTCAACTACAAC TCTTGG	TCAGACACTACCCGAC ATCAA	59.2	624	INTERGENIC	--	--	--
scaffold1332_P2_8473	scaffold1332	8473	ATTTTTTT/ATTTTTTTTT	CACAATTTCTTTCTAT GTGTGGA	AACCCGTCACACAGGA AGTC	60.0	894	INTERGENIC	--	--	--
scaffold1332_P2_9986	scaffold1332	9986	ATGTTGTTGT/ATGTTGT	CCAATTCTCCGGTACTC CAA	GACGATTTCTCCACCC TTGA	60.1	808	INTERGENIC	--	--	--
scaffold1335_P2_44772	scaffold1335	44772	CATC/CATCGATC	CTCATGGAGAAGGAGC TTGG	CCATCTCGTGCAACTC TTCA	60.0	673	INTRON	Ca_28106	S	--
scaffold1335_P2_45191	scaffold1335	45191	AAGCTAGCTA/AAGCTA	TGAAGAGTTGCACGAG ATGG	ATGCCTCATTTCCCAAC AAG	59.9	198	DRR	Ca_28106	S	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1335_P2_46035	scaffold1335	46035	G/GC	TTGACCTCCTAGCATG GCT	GGTTAAAGTGGGGT CGTT	60.1	411	DRR	Ca_28106	S	--
scaffold1335_P2_46272	scaffold1335	46272	TC/T	TTCGTGCAACTGACGC TAAC	CCATTTGGATTTAAAG AAGCC	59.0	345	DRR	Ca_28106	S	--
scaffold1337_P2_40902	scaffold1337	40902	ATTT/ATTTTCAACTTTT	TAGCATGCAAATCAGGT TGC	CCCGACAAAATAGAC CGAA	59.9	425	INTERGENIC	--	--	--
scaffold1337_P2_46228	scaffold1337	46228	AAAACCCTAAACCCTAAA/AAAACCCTA AACCCTAAACCCTAAA	AAACCCCAACCTTAA CCC	TTGGGACATTCGGTT TTTG	60.7	353	INTERGENIC	--	--	--
scaffold134_P2_102999	scaffold134	102999	AATATATATATATATATA/AATATATAT ATATATATA	AAATGGCGACTTCCAC TTG	AAAAACCTTTGGGAAAT CGG	60.2	485	INTERGENIC	--	--	--
scaffold134_P2_175874	scaffold134	175874	TTATATATATATATATATATATATATA TATA/TTATATATATATATATATATATA TATATATATA	TCGTTTATCTCTTCAAT GGCG	CTGACCATCACACAGC AAAA	58.2	583	INTERGENIC	--	--	--
scaffold134_P2_183719	scaffold134	183719	ATT/ATTT	GTGTGACCAGAAATG GCCT	TTGGCATACAAAGCA TCAC	59.5	203	INTERGENIC	--	--	--
scaffold134_P2_206711	scaffold134	206711	TTTTTCTTTTCTTTTCTTTT/TTTT CTTTTCTTTTCTTTTCTTTT	CTCAGTTGGTAGAGCG GAGG	TGAAAGAGGACCACCC AAAC	59.9	545	INTERGENIC	--	--	--
scaffold134_P2_276694	scaffold134	276694	GAA/GA	GAGCAGCACATTTTGC TCA	TTGATTTGGGTTGTA CCCA	61.0	567	DRR	Ca_22585	--	ERF
scaffold134_P2_302608	scaffold134	302608	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT/ TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTAT	GGATTTTCTTGGGCT CTTC	TGTTTTGTACGGAG GGAG	60.0	408	DRR	Ca_22588	--	CAMTA
scaffold134_P2_357959	scaffold134	357959	CAGCAGGAGCAGGA/CAGCAGGA	GGAGATCAACAGCAGC AACA	CTTCCTGAACAAACCC CAAA	59.9	805	CDS (large-effect mutations)	Ca_22591	--	--
scaffold134_P2_38499	scaffold134	38499	CAT/CATAT	CCACTGAAGTTGCAACA AGC	TCCGAGAGTTCCCACT TTTG	60.2	250	DRR	Ca_22578	O	C2H2

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold134_P2_47232	scaffold134	47232	TAA/TA	CTGCCATGCATACAACA ACC	ACGCGTGCATGAGTTC AAT	60.3	176	INTRON	Ca_22578	O	C2H2
scaffold134_P2_60134	scaffold134	60134	AATATATATATATATATATAT/AATATA TATATATATATATATAT	TGCACATTGGAGTTTGA GATG	TCTAAGGCCTAACCA CGGA	59.7	541	INTRON	Ca_22578	O	C2H2
scaffold134_P2_74789	scaffold134	74789	CATATATATATATATATATA/CATATA TATATATATATATATATA	CTGCCATGCATACAACA ACC	GGAATCAAACCAATCAA ACTCA	58.9	552	INTRON	Ca_22578	O	C2H2
scaffold134_P2_76041	scaffold134	76041	ATTT/ATT	TTACCCAATTTTGGG TTG	GCATACCCGCGTTAG AGTA	60.1	897	INTRON	Ca_22578	O	C2H2
scaffold135_P2_10445	scaffold135	10445	TA/TAA	TCGGATTCAATCTCCTT TGG	CGTTGTATGATCTTGG GGCT	60.0	864	INTERGENIC	--	--	--
scaffold135_P2_113512	scaffold135	113512	A/AG	GCTTATTGGGAGAAGC GTTG	GCCCTCAGATGAGAGT CAGG	59.9	514	INTERGENIC	--	--	--
scaffold135_P2_3944	scaffold135	3944	TAAA/TA	CACCGTAGTGTGGTGG TGAG	ATCCTTACGGGGTTA TTGC	60.0	855	INTERGENIC	--	--	--
scaffold135_P2_58991	scaffold135	58991	AATATATATATATATATATATATAT ATATATA/AATATATATATATATATATA TATATATATATATATATATATATA	TGATTGTTGCTCTGCTG CAT	AACCACTCAAGTGTTT GGGC	60.0	616	INTERGENIC	--	--	--
scaffold135_P2_95600	scaffold135	95600	ATTTTTTTTT/ATTTTTTTT	TTGTTTTAACCTTGCC GGG	TTGAGTTTCAAACCA CATGT	59.4	608	INTERGENIC	--	--	--
scaffold1351_P2_200127	scaffold1351	200127	CTTTTTTTTT/CTTTTTTTTT	TTAGTGAACCAACCAG GACA	TCAGAAGGTGAGTGCC AGTG	60.0	693	INTRON	Ca_21997	R	--
scaffold1351_P2_240725	scaffold1351	240725	CTTTTTTTTT/CTTTTTTTTT	AACCAATCATTGATGAA AAACA	TGCTTTGGTTAGAGTT GGCA	59.5	387	INTERGENIC	--	--	--
scaffold1351_P2_255814	scaffold1351	255814	CTTTTTTTTT/CTTTTTTTTT	TTGGAGCCATTATGAG GGAG	TTGCTTGCAACTACAAT GAGG	59.0	354	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1351_P2_275138	scaffold1351	275138	TTTTATTATTATT/TTTTATT	TCATCGCAGGTGTACC ATGT	GAACAAGTGGGTGAAG GCAT	60.0	544	INTERGENIC	--	--	--
scaffold1351_P2_275377	scaffold1351	275377	AT/ATT	ATGCCTTCACCCACTTG TTC	CAATTCCCACAGGTAC GCTT	60.0	526	INTERGENIC	--	--	--
scaffold1351_P2_27985	scaffold1351	27985	TC/TCTGC	GCATCCTTGAATTCGGT TGT	CCCCCTTTTGCATAAG TGA	59.9	673	INTERGENIC	--	--	--
scaffold1351_P2_28068	scaffold1351	28068	ATTTTTTT/ATGATTTTTTTT	GCATCCTTGAATTCGGT TGT	CCCCCTTTTGCATAAG TGA	59.9	673	INTERGENIC	--	--	--
scaffold1351_P2_304204	scaffold1351	304204	ATTTTTTTTT/ATTTTTTTTTT	TCAGGAAATGAGGACC AACA	CTCGTGTCTCAAACT CAAGGA	59.5	609	INTERGENIC	--	--	--
scaffold1358_P2_2710	scaffold1358	2710	GT/GTAT	AAGCATGCTGAAGGGA GAAA	AAACATTTTCAACGCG TTC	60.0	717	DRR	Ca_28053	--	--
scaffold1358_P2_778	scaffold1358	778	AC/A	TCCACAAGAAAACCTCC ATTG	AGTGAAACCAACGCCA AAAC	60.0	522	INTERGENIC	--	--	--
scaffold1359_P2_74591	scaffold1359	74591	ATTTTTTTTT/ATTTTTTTTTT	TGGGTGGGAGTAATTT TTCG	TTAAAGAGATTGCTG CGGT	60.0	297	DRR	Ca_26683	KR	G2-like
scaffold136_P2_1128	scaffold136	1128	TCTGAAGTGAAGTGAAGTGAAC/TCTGA ACTGAAGTGAAGTGAAGTGAAC	ACCAGGAAAAGAAGAA GGGC	TTGGTTTATTGGGTTG GGA	60.0	412	INTERGENIC	--	--	--
scaffold136_P2_12993	scaffold136	12993	CTTTTTTTTT/CTTTTTTTTTT	TTTGAAGTCACCGGA AAAC	CACGATACGAACCATTT CCC	60.2	165	INTERGENIC	--	--	--
scaffold1360_P2_17330	scaffold1360	17330	AAATAAT/AAAT	CGCCGTAAATTGAAACT ATGC	AACCGTGCGAATCTC TTTA	60.0	729	INTERGENIC	--	--	--
scaffold1361_P2_9078	scaffold1361	9078	AATATATATATATATATATATATATAT ATAT/AAATATATATATATATATATATAT ATATATATAT	AGCGGTAGAAAATGGT CCCT	AACGGGAGATTGTG TTTG	59.8	731	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1364_P2_161524	scaffold1364	161524	G/A/G	CCTGTGACAAACAA TCG	GTCGCTCCACTATCAC CCAT	60.0	584	DRR	Ca_28179	--	--
scaffold1364_P2_94304	scaffold1364	94304	AG/A	CCTTGGGAGGACAATA ACGA	CCTTGTGCATCCAATA CGTG	60.0	703	INTERGENIC	--	--	--
scaffold1365_P2_31946	scaffold1365	31946	AATATATATATATATATATAT/AATATA TATATATATATATAT	ATGTTTTGGATTTTGGC TCG	ATCCGGTAAAAATCTCC GCT	59.9	693	INTERGENIC	--	--	--
scaffold1365_P2_59505	scaffold1365	59505	G/GTTTGAAAACAAAGGAT	ACGTGGTGAAATCTTT CGG	ATTTTCACCAAAACATCC CCA	60.0	480	INTERGENIC	--	--	--
scaffold1365_P2_7339	scaffold1365	7339	TG/TGG	GTGCATCCATCCAATAC GTG	GGAGGACGAAAATGAC CAAA	59.9	721	INTERGENIC	--	--	--
scaffold1365_P2_74011	scaffold1365	74011	ATT/AT	CTCAGGCCACATCAATC TCA	AATTCTTGACACGCC TCTT	59.9	606	INTERGENIC	--	--	--
scaffold1365_P2_74375	scaffold1365	74375	CATG/CATGATG	TATTGTGAAGAGCGT GTGC	TGTTGGGATTTGGTTG TGAA	59.8	351	INTERGENIC	--	--	--
scaffold1366_P2_1319	scaffold1366	1319	GATATTAGATTT/GATATTAGATTTAATA TTAGATTT	GCTTCAATCATATCAGG TCGG	TCCACAAGTTATTCGAC GGA	59.1	691	INTERGENIC	--	--	--
scaffold1369_P2_100225	scaffold1369	100225	TAAGAAGA/TAAGA	AATTTTATGGGAAAACC CGC	GGAGAAAATTTGGCTC CATC	58.6	108	INTERGENIC	--	--	--
scaffold1369_P2_197295	scaffold1369	197295	ATT/ATTT	GGAAATATCTCGCAGA CCCA	TCACCAAGCAAACCCA CATA	60.0	517	INTERGENIC	--	--	--
scaffold1369_P2_27617	scaffold1369	27617	CT/CTCATATTAACGTGAT	TGAGTTCAGCGTTCGG TAGA	TTCATGCATGCCGTTAT GTT	60.0	412	INTERGENIC	--	--	--
scaffold1369_P2_35114	scaffold1369	35114	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	AACCGGTAATTTTGATG GACA	TTCCACCATCGTGACA AGAA	60.1	582	DRR	Ca_25520	--	NF-YB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1369_P2_40338	scaffold1369	40338	CTTTTTTTTT/CTTTTTTTTT	TGCACCTTTAAGTTGGG ATG	GGGGGTGCATGATACA AAAC	60.1	742	INTERGENIC	--	--	--
scaffold1369_P2_73748	scaffold1369	73748	TAATTCATAAAGGAATTCATAA/TAAT TCAATAA	GGGGAATTAATTCG CCA	TTGAACAAAAGGTTCC CCAG	59.9	597	INTERGENIC	--	--	--
scaffold1369_P2_80991	scaffold1369	80991	TAAAA/TAAAAA	CGTATTCGGGGAAGA GTCA	GGCAGTAGTGGAATCT GGGA	60.1	425	INTERGENIC	--	--	--
scaffold1370_P2_30670	scaffold1370	30670	AT/ATT	TGGCAATGGCGATGAC TAT	TTTGCTCCTCACGGATT CTT	59.8	683	INTERGENIC	--	--	--
scaffold1370_P2_57901	scaffold1370	57901	CATATATATATATATATATATAT/CAT ATATATATATATATATATATAT	CCGTTTCATCCGCTTACC TTA	TTGCCTTAGTGCTTTTT GGC	60.4	706	INTERGENIC	--	--	--
scaffold1371_P2_80775	scaffold1371	80775	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	TGTCGCACGGATACAA TGAT	AGGCATGGTGTGGAG TCAT	60.4	234	INTERGENIC	--	--	--
scaffold1376_P2_17711	scaffold1376	17711	TTATATATATATATATATATATATA T/TTATATATATATATATATATATAT ATAT	GCCTCCGAGTCAATA CCAA	TCCCTTTGTCAATTCT CGG	60.0	830	INTERGENIC	--	--	--
scaffold1376_P2_39940	scaffold1376	39940	TNNNNNNNNNNNN/TN	CCTGAATCGGTCAACC TTGT	GGGTTTGCATCTTGC ATCT	60.1	612	INTERGENIC	--	--	--
scaffold1380_P2_5644	scaffold1380	5644	ATTTTTTT/ATTTTTTTT	TTTTAGCGGATGTCGTA GGG	TCACAAGGGGACTCT ATGG	59.9	719	INTERGENIC	--	--	--
scaffold1380_P2_9721	scaffold1380	9721	CTGTGTGT/CTGTGT	CGTTGACAACTGAACCA GGA	GCACATTCACTGCCAA GAGA	60.0	429	INTERGENIC	--	--	--
scaffold1382_P2_138950	scaffold1382	138950	TATAATAATAATAATAATAACAATAA TAATAA/TATAATAATAATAATAACA ATAATAATAA	TGGGAATAGGTCAGGC TTTG	AACTGAAAATGCAAGG TCGG	60.1	698	INTERGENIC	--	--	--
scaffold1382_P2_150911	scaffold1382	150911	AT/ATT	CAAGTCTCCCAACTTCC CAA	GCTTGGGGACAAGCAA TAGA	60.2	419	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1382_P2_183210	scaffold1382	183210	GTTTTTTT/GTTTTTTT	CAAAGGTTTGAAAGG CATCA	GGATATGGCACAAGCG AACT	60.1	343	INTERGENIC	--	--	--
scaffold1382_P2_225615	scaffold1382	225615	GTTTTT/GTTTTTTT	AGGTCATTTTCGTCCCT CCT	CCCCCTAGGGTGATAA TGCT	59.9	805	INTERGENIC	--	--	--
scaffold1382_P2_29087	scaffold1382	29087	TAAA/TAAAAA	TGCTTTTGTCGTATAAT TGAGCA	TGATGGACCAGTAGAC CACCT	59.4	317	INTERGENIC	--	--	--
scaffold1382_P2_296530	scaffold1382	296530	TC/T	TACGTCATTTTCGTCCCT CCC	AAACACCAATTGGATG CACA	59.8	579	INTERGENIC	--	--	--
scaffold1382_P2_339331	scaffold1382	339331	CCTT/CCTTCTT	TCAACCCACTTTCACCA TCA	CAGGTCCTGAATTGCC GTAT	60.0	712	INTERGENIC	--	--	--
scaffold1386_P2_13609	scaffold1386	13609	CAAAA/CAAAAA	TTTGTGGTAATTTATGG TTGCTACA	TTTCCGTTTCCTTTGTT TGC	60.1	424	INTERGENIC	--	--	--
scaffold1386_P2_48249	scaffold1386	48249	TAAAAAAAA/TAAAAAAAA	ATAGGCCGTAGGCCAA ACTT	GGCTCTCCATACCACC AGAA	60.1	646	INTERGENIC	--	--	--
scaffold1386_P2_59518	scaffold1386	59518	TAAAAAA/TAAAAAA	GCAAACAGGACCATT CGCT	GAGAGGATTGAGGGAG ATTGA	59.7	909	INTERGENIC	--	--	--
scaffold1386_P2_7932	scaffold1386	7932	ATATT/AT	TTGGACATGACCTATGT GAAAGTT	TTAAGTCCAAAACGCC AACC	60.0	792	INTERGENIC	--	--	--
scaffold1386_P2_8928	scaffold1386	8928	ATTTTTT/ATTTTTTTT	GTGGTGCGCTACATTG GATT	GTGCAAACGACACCTG AAGA	59.9	558	INTERGENIC	--	--	--
scaffold1386_P2_9543	scaffold1386	9543	TAAAAAAA/TAAAAAAA	TCCATTGAATTGTTGT GCAT	ATAAATTACACCCGCG CAAG	60.0	421	INTERGENIC	--	--	--
scaffold1390_P2_71273	scaffold1390	71273	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATATAT ATATATATATATAT	TGAGCTGCGACGAGAG TAGA	TGGAAATGTTTCCCTT TGC	59.9	247	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1408_P2_26856	scaffold1408	26856	TC/T	AACCAATGTTGTGCATC CAA	AGGGAGGACGAAAATG ACCT	59.9	571	INTERGENIC	--	--	--
scaffold1408_P2_29515	scaffold1408	29515	TC/T	TTGGATGAACATTTGGG TCA	ATAAGCCTATGGGGGA CGAA	60.7	341	INTERGENIC	--	--	--
scaffold1408_P2_29853	scaffold1408	29853	AT/A	TGGGTCATTTTCGCCTC CTC	TGGACGCACAAGATTG GTTA	60.1	667	INTERGENIC	--	--	--
scaffold1408_P2_80522	scaffold1408	80522	AC/ACC	AGGTCATTTTCGTCCTC CCT	TGGACAAGAATAAGCC CAGG	60.1	836	INTERGENIC	--	--	--
scaffold1408_P2_92293	scaffold1408	92293	GTTTT/GTTTTTT	AGGTCATTTTCGTCCTC CCT	TAATTGGGCAAGAATG AGCC	60.0	640	INTERGENIC	--	--	--
scaffold1408_P2_94374	scaffold1408	94374	G/GT	AGGTCATTTTCGTCCTC CCT	TGGGTGCACAAGATTG GTTA	60.0	467	INTERGENIC	--	--	--
scaffold1409_P2_12185	scaffold1409	12185	TCC/TCCC	TGTGCATTCAATAGGC GTGT	CCAAGGGAGGATGAAA ATGA	59.9	259	INTERGENIC	--	--	--
scaffold1409_P2_5774	scaffold1409	5774	CTTTT/CTTT	CCAAGCAAGGCATTTTC ATT	TCACACAATTGTTTGG CGT	60.0	523	INTERGENIC	--	--	--
scaffold1409_P2_9222	scaffold1409	9222	AAATAATAATAATAAA/AAATAATAAT AATAATAATAATAATAA	GCTTAAACCCATTGGTC CCT	GGAAGATGTGACGATG CCTT	60.1	516	INTERGENIC	--	--	--
scaffold141_P2_29641	scaffold141	29641	T/TG	AATTTTGGGCATCCAAT CAG	GAGGACGAAAATGACC GAAA	60.1	666	INTERGENIC	--	--	--
scaffold141_P2_45822	scaffold141	45822	TAA/TA	AACACGTGCCATGATC GTAA	ACAGGAATTGAGTCAA CGGC	60.1	551	INTERGENIC	--	--	--
scaffold1411_P2_62993	scaffold1411	62993	CAGA/CA	AAACGGCAATACCGAG TGTC	CGGCCGTTTCTAACAT CATT	60.0	730	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1412_P2_3329	scaffold1412	3329	T/TAGCGGAATATG	TGAACGTAGAGTTTGCA CCG	GGGACTGATTCGTCTC TTCA	60.1	666	INTERGENIC	--	--	--
scaffold1414_P2_190185	scaffold1414	190185	ATT/ATTT	GCTTGTCCGCGTAAC CTTC	TGTGTCGGCGTCGTAC TTAG	59.9	417	DRR	Ca_25542	R	--
scaffold1414_P2_190587	scaffold1414	190587	GAA/GAAA	TCGGATCACGGTCTGA TACA	GAGGCAAATGGGACAA GGTA	59.9	611	CDS (FRAME SHIFT)	Ca_25542	R	--
scaffold1414_P2_38236	scaffold1414	38236	GTTATTATTAT/GTTATTAT	TGGTCCTAGATTTCATC GGG	CGTTATTAAGTACAAC ACAAAACGAA	57.4	871	INTERGENIC	--	--	--
scaffold1414_P2_75044	scaffold1414	75044	AATATATATATATATATATATATA/AAT ATATATATATATATATATATATA	ATCGGTTGCTACGAAAA TCG	GCTCCTTCCATATCCCT TCC	59.9	737	INTERGENIC	--	--	--
scaffold1417_P2_124082	scaffold1417	124082	CTT/CTTT	AAAGGAGCTTTCCTTC CTC	CATGTGGCCTGTGATT TTTG	60.0	445	INTERGENIC	--	--	--
scaffold1417_P2_124243	scaffold1417	124243	C/CG	AAAGGAGCTTTCCTTC CTC	CATGTGGCCTGTGATT TTTG	60.0	445	INTERGENIC	--	--	--
scaffold1417_P2_149554	scaffold1417	149554	AATATATATATATATATATATATA/AATA TATATATATATATATATATATA	ATGTTTTGGATTTTGGC TCG	AGGAAGAGTGGAGTTG CGAA	60.0	522	INTERGENIC	--	--	--
scaffold1417_P2_23009	scaffold1417	23009	CTTATTTATTTATTTATTTATTTAT TTATTTATT/CTTATTTATTTATTTATTTA TTTATTTATTTATT	GCCCATAGGAACAAAAT GGA	AACCTTCCCCTTTCTTT GGA	59.9	323	INTERGENIC	--	--	--
scaffold1417_P2_243147	scaffold1417	243147	A/AG	AGGTAAGGGCTCTTC CAAA	ACGATCCACACCAAAA CACA	59.9	351	INTERGENIC	--	--	--
scaffold1417_P2_250169	scaffold1417	250169	TTTTT/TTTTTCTTTT	GTGGCACCTCGGTAAA CAGT	GTGCAGTCTCTCACGG ACAA	60.0	460	INTERGENIC	--	--	--
scaffold1417_P2_78392	scaffold1417	78392	AATATATATATATATATATATA/AATAT ATATATATATATATATATATATA	TCTTATATGGACTAATC CCCCAA	TTGTGTTTGGGCTTTCA TCA	60.1	436	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1418_P2_42407	scaffold1418	42407	GTTTTTTTT/GTTTTTTTT	TCATCCGATCAAGATCA AACA	AATTGCAATGTAGGCC TTGG	60.0	661	INTERGENIC	--	--	--
scaffold1418_P2_5209	scaffold1418	5209	TATAATAATAATAATAATAATAA TAATAATAAT/TATAATAATAATAATA ATAATAATAATAATAATAAT	CACAATTCACGATTTT CACG	CGGCTAGGTTGACCCT TACA	60.1	819	INTERGENIC	--	--	--
scaffold1419_P2_10604	scaffold1419	10604	ATTTTTTTTTT/ATTTTTTTTT	CCTCTTGCTGCAAAAC AAA	AACTTTTCCGCTGCTT GAA	60.0	294	INTERGENIC	--	--	--
scaffold1419_P2_1062	scaffold1419	1062	TAAACCC/TAAACCCAAACCC	AACCCTGAACCTAAAC GCT	TTTCGATTTTGGGTTT TTG	59.8	753	INTERGENIC	--	--	--
scaffold1419_P2_22458	scaffold1419	22458	AT/A	TCATGCGCATCAAATAC ACA	TTTCAAAATTCGTCGTT GGA	59.1	265	INTERGENIC	--	--	--
scaffold1419_P2_30683	scaffold1419	30683	T/TG	TCCATCTCCAACAACAT CCA	TAATTGCTCTTGCAGT CCTT	59.8	306	INTERGENIC	--	--	--
scaffold1419_P2_33257	scaffold1419	33257	TTATA/TTA	TGCATTTCTTGAAATT GATGG	AAAGGTCGTGAGCAGA GGAA	60.0	595	INTERGENIC	--	--	--
scaffold1419_P2_49527	scaffold1419	49527	TGTAAACC/TGTAAACCGTAAACC	AACCCTTATCGCAGAAC CCT	GGTATTGGGTTTGGGG TTTC	60.3	609	INTERGENIC	--	--	--
scaffold1422_P2_687	scaffold1422	687	TT/TTATGTCAT	AGGTCATTTTCGTCCTC CCT	CAAATGAACATTATTGGA TGCACA	59.9	274	INTERGENIC	--	--	--
scaffold1424_P2_15042	scaffold1424	15042	TC/T	CGACTCAGTTGAGGA GACA	CCCCCTTTTGCATAAG TGA	59.9	668	INTERGENIC	--	--	--
scaffold1424_P2_48624	scaffold1424	48624	A/AT	TAGGTCATTGTCGTCCT CCC	TGGATGCACAAGATCG GTTA	60.1	272	INTERGENIC	--	--	--
scaffold1426_P2_5555	scaffold1426	5555	AG/A	CCTCAGATGAGAGCCA GGAC	ACACCCGTTTTTCAAA GTG	59.9	434	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1426_P2_5828	scaffold1426	5828	T/TTC	AACGGGGTGTACAAT GAGC	CTGGTTTGACAATGCG TTTG	60.1	623	INTERGENIC	--	--	--
scaffold1426_P2_6127	scaffold1426	6127	CTTTTT/CTTTTTT	CGGTATCACCTATCAGA GCGA	TGACTGGTTTGACAAT GCGT	60.2	101	INTERGENIC	--	--	--
scaffold1426_P2_6734	scaffold1426	6734	TCATCAC/TCATCACCATCAC	TTGATACTATGCCACCA CGC	GCATTTTGCTTGTGGA CTCA	59.8	635	INTERGENIC	--	--	--
scaffold1426_P2_7221	scaffold1426	7221	TAAAAA/TAAAAAA	TGAGTCCACAAGCAAAA TGC	GGTTCCTCTTGTTTT GGGT	60.2	494	INTERGENIC	--	--	--
scaffold1429_P2_5490	scaffold1429	5490	TAAAAA/TAAAAAA	TTGGCTCGAAACCCCTAA TTG	AGGTCATTTTCGTCTC CCT	59.9	436	INTERGENIC	--	--	--
scaffold143_P2_167358	scaffold143	167358	GTT/GT	ACACCACCTCTTCATC GTC	GAAGGAGCAGTTGGAG AACG	60.0	737	INTERGENIC	--	--	--
scaffold143_P2_188477	scaffold143	188477	AG/A	AGTTTTGGTCCCTCCCT CAT	TTACGAAATGGTTCC CTT	59.4	477	INTERGENIC	--	--	--
scaffold143_P2_205431	scaffold143	205431	GAAAAA/GAAAAA	TCCATGTCATCAGCAGA AGC	AAATGCTTGACTCCC CCTT	59.9	531	INTERGENIC	--	--	--
scaffold143_P2_5981	scaffold143	5981	CTTGTAATGAGTT/CTTGTAATGAGT TGTAATGAGTT	CGATGGAACCCAGAAA AGAA	TTGCACAAGCGAAATT GGTA	60.3	583	INTERGENIC	--	--	--
scaffold143_P2_67526	scaffold143	67526	TA/TAA	GGATTGTTGGTTCAATT GGG	TTAGGAAATCGATTGG GGTG	59.8	495	INTERGENIC	--	--	--
scaffold143_P2_68109	scaffold143	68109	CATT/CATTTTAATT	CACCCCAATCGATTTC TAA	ACATCTGTTCCCTCCG TGAC	60.0	472	INTERGENIC	--	--	--
scaffold143_P2_88700	scaffold143	88700	TG/TTGAAGCAACCATGTTGG	GACCGTGACCATCATAT CCC	CACCATCTCAAACCCC ATTC	60.2	805	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1430_P2_1269	scaffold1430	1269	ATTTT/ATTTT	TCATGTGCATTTCTACC ACCA	TGATTTCGAGTCAAACC ACCA	60.1	315	INTERGENIC	--	--	--
scaffold1430_P2_8611	scaffold1430	8611	TTAT/TTATAT	TGTTCAATTCACGAGG CAG	GGATTACGATCCGTGG CTAA	59.9	501	INTERGENIC	--	--	--
scaffold1432_P2_2456	scaffold1432	2456	TAAAAAAA/TAAAAAAA	CCATGACATGACCTTAG GGG	CAATGTAATTTGCATCA TAAAGGC	59.8	234	INTERGENIC	--	--	--
scaffold1432_P2_59960	scaffold1432	59960	TTATATATATATATATATATATATAT/T TATATATATATATATATATATATATAT	TGCTTCAATGGTTCAAT CAAA	GAGGTGCATTAGAGAT CACGG	59.7	705	INTERGENIC	--	--	--
scaffold1432_P2_80163	scaffold1432	80163	ATTT/ATTTT	TCTTTGGATGGGTCCA TGT	TGAAAATGTTGTTGGTA GTGGC	59.9	522	INTERGENIC	--	--	--
scaffold1432_P2_80490	scaffold1432	80490	CTTTTTTT/CTTTTTTT	GCCACTACCAACAACAT TTTCA	ATTTGTGTTGTGGGG GAAA	60.1	713	INTERGENIC	--	--	--
scaffold1432_P2_80541	scaffold1432	80541	AAATAATAATAATAATAATAAT/AAA TAATAATAATAATAATAATAAT	GCCACTACCAACAACAT TTTCA	ATTTGTGTTGTGGGG GAAA	60.1	713	INTERGENIC	--	--	--
scaffold1433_P2_21153	scaffold1433	21153	A/AG	TTCCGGGTCAGATTTC AAC	GGTCCTCGATTTCATCT GGA	60.0	417	INTERGENIC	--	--	--
scaffold1433_P2_21769	scaffold1433	21769	AGCATTATTTTC/A	TCCAGATGAAATCGAG GACC	TCATATGTACGTTTCGG GCA	60.0	498	INTERGENIC	--	--	--
scaffold1433_P2_21950	scaffold1433	21950	TAAAAA/TAAAAA	GATGAAATGGAGGACC GAGA	TCATATGTACGTTTCGG GCA	60.0	332	INTERGENIC	--	--	--
scaffold1433_P2_33630	scaffold1433	33630	CAAAA/CAAAA	AGGCGATTTTCGTACCA CAC	CGTGCATTTATGTGC GGTG	59.8	112	INTERGENIC	--	--	--
scaffold1433_P2_9452	scaffold1433	9452	T/TC	GATGAAATCGAGGACC AGGA	TTTCATTGGACTTTTC GGG	59.9	866	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1439_P2_105314	scaffold1439	105314	GAAAAGAAAAAGAAA/GAAAAGAAAA AAAGAAAAAGAAA	AGACCACCATCAGAAG CCAC	TGAGAGGCACGAACGA AAAT	60.8	643	INTERGENIC	--	--	--
scaffold1439_P2_105464	scaffold1439	105464	CTTGAAT/C	AGACCACCATCAGAAG CCAC	TGCTAAATGCCACCGT GTAG	59.8	674	INTERGENIC	--	--	--
scaffold1439_P2_204949	scaffold1439	204949	ATTTTTTTTTTT/ATTTTTTTTTTT	CAGGTCTGAAGTTTCA TGGT	TTGGCTCATCAACCAA TCA	60.0	204	INTERGENIC	--	--	--
scaffold1439_P2_223888	scaffold1439	223888	ATTTTTTTTTTT/ATTTTTTTTTTT	ATCGAGGTACGATACC CGTG	TCACGGTTTTCTTGGG AGAC	60.1	237	INTERGENIC	--	--	--
scaffold144_P2_17136	scaffold144	17136	TA/TAA	CAAGTCTCCCACTTCC CAA	AATCGATTGATTGAGC CCAG	60.0	806	INTERGENIC	--	--	--
scaffold1440_P2_49416	scaffold1440	49416	CAA/CAAA	TGACCGAATTCGCTTA TTC	TAACCAATGCCGCCAC TATT	60.3	261	INTERGENIC	--	--	--
scaffold1446_P2_21277	scaffold1446	21277	TATATA/TATATACATATA	GGCGTTGGAGTCATGT TTTT	TTCTCAACTGACGCAT GAGG	60.0	362	INTERGENIC	--	--	--
scaffold1448_P2_100734	scaffold1448	100734	TT/TTGTCT	CATGGCATTAAACATTC CCC	TTCGAACCCGAGATAA GACG	60.2	294	INTERGENIC	--	--	--
scaffold1448_P2_11427	scaffold1448	11427	CAAA/CAA	AATCCAATGACGCAAC ACA	AGGTCATTTTCGTCTC CCT	59.9	792	INTERGENIC	--	--	--
scaffold1448_P2_114627	scaffold1448	114627	ATTTTTTTTTTT/ATTTTTTTTTTT	ACGTCTCACATCCGATC CTT	TGTCGACTTTGAAAAA GGGG	59.1	671	INTERGENIC	--	--	--
scaffold1448_P2_11627	scaffold1448	11627	CAAA/CAA	AGCCAAGGAAGGACGA AAAT	TGGGCATCCAGTAGGT TCAT	60.3	566	INTERGENIC	--	--	--
scaffold1448_P2_133221	scaffold1448	133221	GTTTTTTTTTTT/GTTTTTTTTTTT	AACCCACCCTCGAAAG AGTT	CGTCGGATATTGGAGG AAAA	59.9	170	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1448_P2_34387	scaffold1448	34387	CAAAAAAAAA/CAAAAAAAAA	CACACATTACCTAACCC	TTCAAAGTTGTGTGCTGCG	59.9	867	INTERGENIC	--	--	--
scaffold1448_P2_99427	scaffold1448	99427	GAATTTAATATAAATTAATTTAATATAA TT/GAATTTAATATAAATTAATTTAATATA AATTAATTTAATATAAATT	CCAGGAAATGACCCCTATT	TTTATTTTAGCGCGGTGTCC	60.1	774	DRR	Ca_26688	--	--
scaffold1449_P2_10267	scaffold1449	10267	TGAGAGAGAGAGAGAG/TGAGAGAGAG AGAG	ACACATATACGCGACCGTCA	AATTCCTGGGACCGTGATT	60.6	722	INTERGENIC	--	--	--
scaffold1449_P2_31742	scaffold1449	31742	AATTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT/AATTATTATT ATTATTATTATTATTATTATTATTATTAT TAT	TGCGAAATCGCAGTTGTTAC	ATGTGACACCCTAAACCCCA	60.1	435	INTERGENIC	--	--	--
scaffold1449_P2_3971	scaffold1449	3971	AATATATATATATATATATATATATATAT AATATATATATATATATATATATATATAT	AGGAAGAGTGGAGTTGCGAA	CTGTAACTGAAGCGCCCTC	60.0	456	INTERGENIC	--	--	--
scaffold1449_P2_4914	scaffold1449	4914	CTTTTTTTTT/CTTTTTTTTT	GGGACTACGAGAACACCAA	ATAGGAGGTGCGATCCGTGTG	60.1	537	INTERGENIC	--	--	--
scaffold1452_P2_1227	scaffold1452	1227	GTATATATATATATATATATATAT/GTAT ATATATATATATATATATATATATATAT	CGAAATCTTTGGGTTTGGGA	ACCTAAATTGGGAGCTCGT	60.0	618	INTERGENIC	--	--	--
scaffold1452_P2_29608	scaffold1452	29608	C/CAG	GAAGCCTTTTCAGCAGGTTG	TAGTGTGCCACCACTCCAA	60.2	648	URR	Ca_27551	R	ZF-HD
scaffold1452_P2_29738	scaffold1452	29738	ATTT/ATTTT	GAAGCCTTTTCAGCAGGTTG	TAGTGTGCCACCACTCCAA	60.2	648	URR	Ca_27551	R	ZF-HD
scaffold1452_P2_30210	scaffold1452	30210	TAAA/TAAA	TGCCCAATTACCACAATCAA	ACCAACCTTCATTTCCTC	60.2	465	INTERGENIC	--	--	--
scaffold1452_P2_30615	scaffold1452	30615	A/AAAAATCTT	TCCATTTTCATGAACCCGATT	TGTACATTGTTCCGTCGCA	60.0	662	INTERGENIC	--	--	--
scaffold1452_P2_37054	scaffold1452	37054	A/AT	TCCAACCTTCGGAAGCTAA	CAAAATGCTAAAAGGGCA	60.1	645	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1452_P2_4003	scaffold1452	4003	TAA/TA	CAGCCACAAAATCAACCTT	ACCCGTTAACGATGATTTGC	59.8	823	INTERGENIC	--	--	--
scaffold1453_P2_554	scaffold1453	554	GTT/GT	ACCAATGCAGTTTACCGAGG	GTGCTGAACCCGTGATAGGT	60.0	126	INTERGENIC	--	--	--
scaffold1455_P2_12569	scaffold1455	12569	TCACCTCCACCTCCACCTCCACCTCCTCACCTCCACCTCCACCTCC	TTATAGCCGTTGGAAGTGGG	TCAGGAAGGAAGAAGGCAGA	60.1	594	INTERGENIC	--	--	--
scaffold1455_P2_13166	scaffold1455	13166	TCCC/TCC	CGAAGGCTTTGTTGAGAAGG	CTTGCCTTGTGCAGATTTGA	60.0	220	INTERGENIC	--	--	--
scaffold1455_P2_18744	scaffold1455	18744	TAAAAAAAAA/TAAAAAAAAA	ATAGCATGCTGCAAGGTGAAC	AAAAGCGTTGTAAACGTGTC	60.2	561	DRR	Ca_27725	--	--
scaffold1455_P2_19091	scaffold1455	19091	CG/C	TATTGGGTGCACCGTTTACA	TTAGTGGTACGGAAATCGC	60.0	438	DRR	Ca_27725	--	--
scaffold1455_P2_21202	scaffold1455	21202	ACC/ACCAAAATCC	CTTTTCGGGCGATTTTCTATA	AACTGTGTATCGGTTTCGCG	60.0	263	INTERGENIC	--	--	--
scaffold1457_P2_19983	scaffold1457	19983	G/GA	TGGCTTCAAATCCACACA	GCGAGCAGAGATTTTTACCG	60.0	468	INTERGENIC	--	--	--
scaffold146_P2_71228	scaffold146	71228	ATATTATTATTATT/ATATTATTATTT	TGAAATAAAACCATAAACGACGA	CATTTTAATGTTTGACTGCATAATGA	59.4	450	INTERGENIC	--	--	--
scaffold146_P2_9554	scaffold146	9554	GTTCTT/GTT	GGTGTGCAAGAGGACTGGAT	AAAAACGAGCCTAGCGTGAA	60.0	508	INTERGENIC	--	--	--
scaffold146_P2_9980	scaffold146	9980	TC/T	CTTTCACATCGGCATTTCCT	GTTTCGTACCTTTCGACCCTAA	60.0	416	INTERGENIC	--	--	--
scaffold1462_P2_12436	scaffold1462	12436	TGG/TGGG	TCAGCCAAAAGCTGATGTG	TTGTCCATGAAAGGATGATATTT	57.5	380	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1462_P2_14707	scaffold1462	14707	CAAA/CAAAA	TTTCGTCAAATAATAC AAATACCATT	ATCAGTGGTCCCGTGA GAAG	60.1	360	INTERGENIC	--	--	--
scaffold1464_P2_34344	scaffold1464	34344	ATCTGTCTGTCTGTCTGTCTGTCTG TG/ATCTGTCTGTCTGTCTGTCTGTCTG	GTTTGTCCTGTCTGTCTG GTCT	TGCAGGTCTGCATTCA AAAG	60.0	697	INTERGENIC	--	--	--
scaffold1464_P2_79010	scaffold1464	79010	AT/ATT	ATCGATTGATTCAGCC AAG	CGTTTTTCAAAGCGAG GGTA	60.2	809	INTERGENIC	--	--	--
scaffold1465_P2_11699	scaffold1465	11699	CTTT/CTTTT	CGAGGCATTTAGCTAG CCTG	CACCCCTTACCTCGAC TGAA	60.1	647	INTERGENIC	--	--	--
scaffold1465_P2_20135	scaffold1465	20135	TTA/TTAGATA	ATAGATCCCCTCAGCC CAAC	TTTCGGTAGTCCCGTT CATC	59.9	604	INTERGENIC	--	--	--
scaffold1465_P2_22512	scaffold1465	22512	ATTT/ATTTT	TTGCTTTGTCTTGGCAA GTG	AACCTCCCATCGAGAA GGAT	59.9	735	INTERGENIC	--	--	--
scaffold1465_P2_29157	scaffold1465	29157	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	AGAGGGGTTTGTGTTT GACG	TGAATTTTGTCTGAAG GCT	60.0	569	INTERGENIC	--	--	--
scaffold1465_P2_3149	scaffold1465	3149	AATATATATATATATATAT/AATATATA TATATATATATATATAT	AAGGCTCAACCTTACGT GGT	TTTTTAGCAATGGCACA ACATT	59.5	558	INTERGENIC	--	--	--
scaffold1465_P2_36700	scaffold1465	36700	CAAAAAAAAAAAAA/CAAAAAAAAAA	CTTTCGTTTCGCCTCGT TAG	CCGAAACAACATGTC AAAAA	58.6	393	INTERGENIC	--	--	--
scaffold1466_P2_189254	scaffold1466	189254	CTATATATATATATAT/CTATATATATA TATATATAT	AGCGACTTTCCTTCTG TCA	TCGTGCTTATGCGTGG ATTA	60.2	641	INTERGENIC	--	--	--
scaffold1466_P2_212130	scaffold1466	212130	AAATAATAATAATA/AAATAATAATAATA ATA	TTTTTGGGTCCAGTAGC AGG	CGTAGCCCGAGTTGGA TAAA	60.1	677	INTERGENIC	--	--	--
scaffold1466_P2_216791	scaffold1466	216791	CTCAACCTTCAACCTT/CTCAACCTT	GTCACCCAAGCCAAC TTGT	CTCCCCCTATCCCTA CCAA	60.1	810	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold1483_P2_57089	scaffold1483	57089	GTGAGATTGAGATTGAGATTG/GTGAG ATTGAGATTGAGATTGAGATTG	ACCCAACAAGCAACATC TCC	CATCTTCTCCATTCTC CGC	59.8	751	INTERGENIC	--	--	--
scaffold1483_P2_6428	scaffold1483	6428	TAAAAAAAAAAAAA/TAAAAAAAAA	TAAGTTCATGCCCAT GTC	CAAAAGACACACATAT TGGCA	58.6	573	INTERGENIC	--	--	--
scaffold1483_P2_67485	scaffold1483	67485	TTTAATTAATTAATT/TTTAATTAATT	AAGAGTCGGATGATGC TGCT	TGTGTTTGAATGGCA AAAA	59.9	764	DRR	Ca_26256	R	NAC
scaffold1483_P2_6873	scaffold1483	6873	ATGT/ATGTGT	GCACCACGTGCGATAA CA	TGTGTGAGCGTTATTG GTTTG	59.6	984	INTERGENIC	--	--	--
scaffold1483_P2_69327	scaffold1483	69327	ATT/AT	GCGAAAGCGAAGAGAG AAGA	CATGGTGACTGGAACA CTGG	60.0	551	DRR	Ca_26256	R	NAC
scaffold1483_P2_72991	scaffold1483	72991	G/GT	TCAGAAATGGCGTTCC TTAG	CATTAGTGATTGTGTG CCCG	60.0	815	URR	Ca_26256	R	NAC
scaffold1488_P2_9466	scaffold1488	9466	CAAAAAAAAA/CAAAAAAAAA	TCCATTATGCGTTGAG ACTTTT	TTAGGGTTTAGGGTTT GGGG	60.0	238	INTERGENIC	--	--	--
scaffold1490_P2_1256	scaffold1490	1256	GAAAAA/GAAAAA	CAAAACACCTGTTGGA TGG	AGGTCATTTTCGCTCT CCT	59.9	281	INTERGENIC	--	--	--
scaffold1490_P2_51863	scaffold1490	51863	ATTTTTTTTT/ATTTTTTTTTT	AGCTTCGTGGAGGAGA TTGA	GCAAGAACTCCCAAC AAAA	60.1	522	INTERGENIC	--	--	--
scaffold1493_P2_34927	scaffold1493	34927	AGTGT/AGTGTGT	TCCGGCTCTTCAGATC ACT	CCTCAAACGATTTTCTG GGA	60.0	549	INTERGENIC	--	--	--
scaffold1493_P2_65515	scaffold1493	65515	AC/A	AGGCAATTTGGGATTC CTCT	GGCTGCTTTGAGTTCC TTTTT	59.9	372	INTERGENIC	--	--	--
scaffold1493_P2_75776	scaffold1493	75776	TGGGGG/TGGGGGG	GGCAAAACAAATGGG TCAT	ATTCATTCCCTCACGCA AAC	59.9	699	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1496_P2_126659	scaffold1496	126659	AATATATATATATATATA/AATATATAT ATATATATA	TCGGGGACGAAATTC TTTA	ACGCTTCATTTTACTGC GCT	60.0	490	INTERGENIC	--	--	--
scaffold1496_P2_177599	scaffold1496	177599	CCCAATCGATTT/CCCAATCGATTGCC AATCGATTT	TCGCGTGTCTTGTTC TTG	CGATTGGCAGATTGAT TTTG	59.9	393	INTERGENIC	--	--	--
scaffold1496_P2_233940	scaffold1496	233940	ATTTTT/ATTTTTT	CATTGCCAATCATTATC CCC	TGACAACGACATCAAA GGGA	60.1	620	INTERGENIC	--	--	--
scaffold1496_P2_236426	scaffold1496	236426	AATATATATATATATA/AATATATAT ATATA	TTCAACCTCGAATTTC GCA	AGCGGTGGAGAGAACT CTGA	60.1	764	INTERGENIC	--	--	--
scaffold1496_P2_237245	scaffold1496	237245	CTTTTTTTTT/CTTTTTTTTTT	ACCGCTAAATCGGTGT CAAC	CACCGGAAGAAATGA TTTGA	59.9	776	INTERGENIC	--	--	--
scaffold1496_P2_292609	scaffold1496	292609	GTATA/GTA	GGCTCCATGAGTTGAT GGT	GATGTTCCGTCGTCA AGGT	60.0	460	INTERGENIC	--	--	--
scaffold1496_P2_302763	scaffold1496	302763	ATTTTT/ATTTTTT	AACATCCCATCAGGTTC ACA	TAGGGATGTTTGGGAT GCTC	59.9	583	INTERGENIC	--	--	--
scaffold1496_P2_307581	scaffold1496	307581	T/TA	TGGGTGCACAAGATTG GTTA	AGGTCATTTTGCCTC CTT	59.9	467	INTERGENIC	--	--	--
scaffold1498_P2_4885	scaffold1498	4885	T/TA	ACGAGCATGAATGATG ACGA	TGAAATTGGGAATTGT CCA	58.8	175	URR	Ca_28063	R	B3
scaffold1499_P2_112672	scaffold1499	112672	CTTTGTCAATT/CTTTGTCAATTTGT CAATT	CGGTTACGTTTTTGT ACG	ACCTCCTTCTCGTGT TGC	59.3	391	INTERGENIC	--	--	--
scaffold1499_P2_1155	scaffold1499	1155	AT/A	GGTGAATATCGGTTTAT TGAATTTG	TGAAGGATACATTACG AGATTCATTT	59.4	552	INTERGENIC	--	--	--
scaffold1499_P2_129736	scaffold1499	129736	GTTTTTTT/GTTTTTTTT	CAAGTGAACGTTACAAA AACGTG	CCCTGAGTCATTCACA CCCT	60.0	318	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1499_P2_17023	scaffold1499	17023	TG/TGG	GAGGTTGGTGCTTGA CAAT	AATTTTCAGCCCCCAAT ACC	60.0	676	INTERGENIC	--	--	--
scaffold1499_P2_40257	scaffold1499	40257	GC/GCC	TCTGATCAGCTCTATGC CTCC	GGATGGTTGTTTGAGT GGCT	60.0	157	INTERGENIC	--	--	--
scaffold1499_P2_48638	scaffold1499	48638	AAAAATAAATAAATAA/AAAAATAA TAAATAAA	CCGGGTGTAAGGTTCC ACTA	TTTGCAAAACCAATGA ATACTT	57.8	284	INTERGENIC	--	--	--
scaffold1499_P2_60432	scaffold1499	60432	AATATATATAT/AATATATATATAT	GGTGGGAGCGCTACAT TTTA	TGAACAAAATTAGGGAT GACAAGA	59.9	660	INTERGENIC	--	--	--
scaffold1499_P2_62260	scaffold1499	62260	AAAAATAAATAAATA/AAAAATAAAT AAAAATAAATAAATA	ATGATTGGCTTGGTAGT GCC	TGTGACGATATTTGTC GAATGA	59.0	487	INTERGENIC	--	--	--
scaffold1499_P2_62316	scaffold1499	62316	ATTTT/ATTT	ATGATTGGCTTGGTAGT GCC	ATGCCCAAGCTTCT TATT	59.9	573	INTERGENIC	--	--	--
scaffold1499_P2_74379	scaffold1499	74379	ATTTTTTTTTT/ATTTTTTTTTTTT	CTGCTCGTTGCACCAT AGA	TTTTCTGTTTGGTCCT GGG	59.9	802	INTERGENIC	--	--	--
scaffold1499_P2_85779	scaffold1499	85779	CAAAAAAAAA/CAAAAAAAAAA	TGGATCAACTAGCACCA TCG	CCACCAAAACCAAG GTTA	59.7	606	INTERGENIC	--	--	--
scaffold1499_P2_87098	scaffold1499	87098	AT/ATT	CGAGATTTACAATGAGA TTGTTGG	TTTGCCAATCGATTACC CTC	59.9	460	INTERGENIC	--	--	--
scaffold1499_P2_931	scaffold1499	931	TAAAA/TAAAA	TTCTTATTCACCTGGTT CCTTTT	TTGAAGGATACATTAC GAGATTCA	57.8	734	INTERGENIC	--	--	--
scaffold1499_P2_9817	scaffold1499	9817	CTTTTTTTTT/CTTTTTTTTTT	TGCATTTTCTGCACCT CTG	TGGTTGAGGCACTAGC CTTT	59.9	214	INTERGENIC	--	--	--
scaffold15_P2_144204	scaffold15	144204	CAA/CAA	AGGTTTGAGGATCGGG GTAT	CAAGATTTGGGCAATC TGCT	60.2	757	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold150_P2_4518	scaffold150	4518	ATT/ATTT	TGGACAAGAATTAGCC CAGG	AGGTCATTTTCGTCCTC CT	59.9	436	INTERGENIC	--	--	--
scaffold1504_P2_129111	scaffold1504	129111	TTATATATATATATATATATATA/TTAT ATATATATATATATATATATA	TGGAATGGCGACTTCC TAAA	ACTGGCCATACTCGAA AACG	60.1	206	INTRON	Ca_24092	--	Trihelix
scaffold1504_P2_195079	scaffold1504	195079	TG/TCTGCACGAATTGG	CAGGGCGACCATGTAT TTCT	CTTGCTCTCCAGTTCC CAAG	60.0	319	INTERGENIC	--	--	--
scaffold1504_P2_200103	scaffold1504	200103	CATATATATATATATATATA/CATATA TATATATATATATATA	TCTCCGCATAAGCTTTC GAT	CCGTACCGTTTCTGGG ATTA	59.8	685	INTERGENIC	--	--	--
scaffold1504_P2_225923	scaffold1504	225923	AATATATATATATATATATAT/AATATA TATATATATATATATATATA	AGGAATTACAACGGGG CTCT	AAAAATGTGTCGTGCA ACCA	60.0	288	INTERGENIC	--	--	--
scaffold1504_P2_227426	scaffold1504	227426	TA/TAA	ATGCAGGGTTGGTAGA TGCT	GGTTTGATATATGGCC GGTG	60.0	571	DRR	Ca_24095	O	MYB_related
scaffold1504_P2_290680	scaffold1504	290680	CATATATATATATATATATATATAT AT/CATATATATATATATATATATATAT ATATATAT	CACGTTAGCACTTTCTG GCA	AGCAAATATCCACGAG ACAAA	57.4	736	INTERGENIC	--	--	--
scaffold1504_P2_314477	scaffold1504	314477	GAGCATCAA/GAGCATCAAAGCATCAA	GGAGGGTCAGAGGATG TGAA	TCTGGGAGATGGAGTT GTCC	60.0	615	DRR	Ca_24100	--	Dof
scaffold1504_P2_318748	scaffold1504	318748	A/AC	CACCCAGTTTTGAGG GTAA	TTTGCCAATCGATTATC GTG	59.5	534	INTERGENIC	--	--	--
scaffold1504_P2_323173	scaffold1504	323173	ACTCCTC/ACTC	AGAAGCATTGTTTGGC ACC	CCAAAGCGTGTGTGTA CCCT	60.0	416	INTERGENIC	--	--	--
scaffold1504_P2_378364	scaffold1504	378364	TATATAC/T	TTGTTTCGTTGTGGTTC TGC	GATTTCGCATGCAGCTG AGTA	60.1	467	INTERGENIC	--	--	--
scaffold1504_P2_391760	scaffold1504	391760	CTATATATATATATA/CTATATATATAT ATATATATATATATA	ATCTGAGGACTCTCCA GGCA	CCCCTTTGTCAGTTAA GGCA	60.1	488	DRR	Ca_24103	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1504_P2_5005	scaffold1504	5005	G/GT	TTGCAAAATTTACCTG CCC	CTCCGGGTTTTAGGAT GTGA	59.9	503	INTERGENIC	--	--	--
scaffold1504_P2_55137	scaffold1504	55137	ATTTTTTTTTT/ATTTTTTTTTT	GGACAAGTTCCTG AAGG	AATCCAACCTTCATTG CAT	59.4	375	INTERGENIC	--	--	--
scaffold1506_P2_37155	scaffold1506	37155	GTATTATTATTATTATTATTATT A/GTATTATTATTATTATTATTATTA	TTTGTGCCTTGAAATTG CTG	ATGAAGACCAGAGGAG CGAA	60.0	559	INTERGENIC	--	--	--
scaffold1508_P2_47207	scaffold1508	47207	CATATATATATATAT/CATATATATAT AT	AGGAAGAGTGGAGTTG CGAA	TGATTTGGGGGAAAT GTGT	60.0	566	INTERGENIC	--	--	--
scaffold1508_P2_60830	scaffold1508	60830	T/TACA	TCACGGGTCAACACGA TTTA	AGTACATGGCGACCGG ATAG	60.0	247	INTERGENIC	--	--	--
scaffold1508_P2_85452	scaffold1508	85452	TTATATATATAT/TTATATATATATAT	GTTGGTTCCTAGCAC CGTA	CACCCTGGGATTCTTG CTAC	59.6	850	INTERGENIC	--	--	--
scaffold151_P2_11544	scaffold151	11544	GAAAAAAA/GAAAAAAA	TTACAGCGCTTGATTCC ACA	AAGTGCTTCAAGGAAG GCAA	60.0	705	INTERGENIC	--	--	--
scaffold151_P2_141720	scaffold151	141720	T/TA	GCAATGAGGCCACTG AAAT	TGGATGTCAACCACAA CAAAA	59.8	233	INTERGENIC	--	--	--
scaffold151_P2_149033	scaffold151	149033	TAA/TAAA	TAGAAGGTCGTTTCATG GGG	ATATTTTGCCGTGTCCT TCA	60.3	594	INTERGENIC	--	--	--
scaffold151_P2_1987	scaffold151	1987	GAAAA/GAAAAA	GGACATTTGTGAACAA GGCA	TTGGAGCTTATGTGT CCTCAA	59.7	732	INTERGENIC	--	--	--
scaffold151_P2_201828	scaffold151	201828	AAAGAGTA/AA	GGTTTCTCGTGTTTGA GGA	GGAGTGGGATCCTAGT GTGG	59.4	299	INTERGENIC	--	--	--
scaffold151_P2_212725	scaffold151	212725	CAAAA/CAAAAA	GCTAAATAGCATTTACG GTCCC	TTTGGCAATAAATGCTG GAA	59.1	542	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold151_P2_221306	scaffold151	221306	TCCCC/TCCCCC	TTCAAAGGAGATGGTT GCC	ATGACAATTCCAATGCA CCC	60.6	738	INTERGENIC	--	--	--
scaffold151_P2_224586	scaffold151	224586	TAAAAAA/TAAAAAAA	TTGGCATTGGGCTTTT TTC	GAGGCATGCTAACCAG AAGC	60.0	546	INTERGENIC	--	--	--
scaffold151_P2_2506	scaffold151	2506	GTTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTCA TTATTATTAT/GTTATTATTATTATTA TTATTATTATTATTATTATTATT ATTATTATTATTATCATTATTATTAT	GTTTCATCCTAGAGCG CGA	GTGGTTCCTCCCAAC TTGA	59.9	521	INTERGENIC	--	--	--
scaffold151_P2_282143	scaffold151	282143	ATCTTCTTCTTCTTCTTCTTCTTCT /ATCTTCTTCTTCTTCTTCTTCTTCT TCTT	CAGGTTTTAATGAGGC CCAA	GGTCCAACATTGACTA ACGGA	59.8	672	INTERGENIC	--	--	--
scaffold151_P2_294117	scaffold151	294117	ATTTTTTTTT/ATTTTTTTTT	CATTCTTTTTTCTCGCG CAT	CCAAGTCCCCAGAGT CAAA	60.1	656	INTERGENIC	--	--	--
scaffold151_P2_29573	scaffold151	29573	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATATA TATAT	ATGGAGGGAACGTGTT TCTG	CTTGGGAACGGAGAG CAAG	60.0	516	INTERGENIC	--	--	--
scaffold151_P2_35903	scaffold151	35903	AAT/AATAT	ACACACGCATAACACAC GAG	TTGGAGTCATGTGAC CATT	60.0	459	INTERGENIC	--	--	--
scaffold151_P2_4221	scaffold151	4221	AGG/AG	TATAAGCCGAAAATGGC AGG	ATGGCGTTTGGATTGA TGAT	60.2	520	INTERGENIC	--	--	--
scaffold151_P2_4988	scaffold151	4988	G/GT	ATCATCAATCCAAACGC CAT	TCGAGAGCACAACTGA AGTTT	60.0	385	INTERGENIC	--	--	--
scaffold151_P2_50199	scaffold151	50199	CATATATATATATAT/CATATATATAT ATATATAT	AAAAAGGGGCTAAATAT AGCTTG	AACGAAACCACAATTC TGC	57.7	465	INTERGENIC	--	--	--
scaffold151_P2_57230	scaffold151	57230	A/ATTAGAGACCTAC	ATGCAATGCGTATATGC CAA	TTCTGTGTGATTTTGT GGAA	59.9	577	INTERGENIC	--	--	--
scaffold151_P2_68819	scaffold151	68819	ATATTATTATTATTATTATTATTATT ATTATTATTATT/ATATTATTATTATTATT ATTATTATTATTATTATTATTATT	AAATGAATGGAAGACG CGAT	AAAATTCTCTTGAATCC CCATT	58.0	851	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold151_P2_7801	scaffold151	7801	CT/CGAACATTAAAAATTT	GGTGAAACTGGGTGG AAGA	CCCTCTGCAATGTCGG TAAT	60.0	277	INTERGENIC	--	--	--
scaffold151_P2_814	scaffold151	814	ATTTTTTTT/ATTTTTTTTTT	GGAGACTCCCATACATT GGC	TGCTATCCCACTTTGA GCCT	59.8	332	INTERGENIC	--	--	--
scaffold1511_P2_10105	scaffold1511	10105	CAAA/CAA	CAAAGACCTGAGTGT GCGA	CCTCCACGAAGCCTAT TGAA	60.2	602	INTERGENIC	--	--	--
scaffold1511_P2_110106	scaffold1511	110106	TAA/TAAA	TTAATGCAGGGTTTGT GCT	ATTGAAGCCCACTATG GCTG	60.1	396	INTERGENIC	--	--	--
scaffold1511_P2_11468	scaffold1511	11468	ATTTTTT/ATTTTTTTT	CTTCGACACTGTAGCA CCCA	GGGTTTCCCATGTCTC TTCA	59.9	560	INTERGENIC	--	--	--
scaffold1511_P2_116957	scaffold1511	116957	TAAAA/TAAAAA	AATTGCATTGTCGACA CCA	TCCAAGAAACTGCACA TCCA	60.2	159	DRR	Ca_25145	--	--
scaffold1511_P2_122821	scaffold1511	122821	AAA/AAAGGAA	GCCCCAGAATTCAAAGT TCA	TCGCAGATGATTCTGA AACG	59.9	710	INTERGENIC	--	--	--
scaffold1511_P2_126969	scaffold1511	126969	CTTTAAAA/CTTTAAATTTAAAA	CAATGATCAATGCAATT GAAAG	AAGGAAGGGTCATCG TCTT	59.9	552	DRR	Ca_25146	--	--
scaffold1511_P2_135714	scaffold1511	135714	GAAAAAAAA/GAAAAAAAAA	AGGGGCTAGCAAAGG TAAA	GGGAGGCAACCAATT TTAT	60.0	875	INTERGENIC	--	--	--
scaffold1511_P2_136948	scaffold1511	136948	CAATAAAATAAAA/CAATAAAATAAAA TAAAA	TCAAGATTTGCCCTCA ATC	AAACGCAATCCTTGAG TTCG	60.2	357	INTERGENIC	--	--	--
scaffold1511_P2_141828	scaffold1511	141828	ATTTTTT/ATTTTTTTT	GTGTGTCACGAAATGG ATCG	CTTGCCATGTTAATCG GGT	59.8	560	INTERGENIC	--	--	--
scaffold1511_P2_150826	scaffold1511	150826	ATTTTTTTTT/ATTTTTTTTTT	CGACTCAACCAAAAGG GTGT	GATGGTTGCATCCTCC TGAT	59.9	320	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1511_P2_151501	scaffold1511	151501	CATATATATATATATA/CATATATATATA TA	AGCGGATTTTGACTCCT TCA	TGGGGTGGTGATATCC ATCT	60.0	363	INTERGENIC	--	--	--
scaffold1511_P2_151590	scaffold1511	151590	TAAAAAAA/TAAAAAAA	AGCGGATTTTGACTCCT TCA	TGGGGTGGTGATATCC ATCT	60.0	363	INTERGENIC	--	--	--
scaffold1511_P2_152631	scaffold1511	152631	ATTTTTTTT/ATTTTTTTT	AATGCATGTCATCAACG CAA	GCATCCTCTTATGGAC GCAT	60.1	854	INTERGENIC	--	--	--
scaffold1511_P2_160075	scaffold1511	160075	CA/C	CCAGTTGTCCTTGGACT GGT	TTGAAATTCCTGAGGAT GGC	60.0	434	INTERGENIC	--	--	--
scaffold1511_P2_167354	scaffold1511	167354	T/TA	GGCCTGGCCTACTTAA GGTC	GCATGTTCTTGGCCA TTAT	59.8	759	INTERGENIC	--	--	--
scaffold1511_P2_169925	scaffold1511	169925	AATATATATATAT/AATATATATATATATA TAT	TTGTTCCAATTCCTCAA GGG	GGCGATTTTACGTGTA TATGTGAG	59.8	643	INTERGENIC	--	--	--
scaffold1511_P2_178928	scaffold1511	178928	GTTTTTTTTT/GTTTTTTTTT	AAGGCGCCACTTGAAA ATTA	AGGCGGAAAACCTAGC CATT	60.1	336	INTERGENIC	--	--	--
scaffold1511_P2_36830	scaffold1511	36830	ATTTTTTTTT/ATTTTTTTTT	CCGAGTTGGATTGGGT ATTG	TGGTCAACTTGTTTCCT CCA	59.1	447	INTERGENIC	--	--	--
scaffold1511_P2_76591	scaffold1511	76591	ATTTTTTTTTT/ATTTTTTTTTT	GAGATGAAGTCGCCTC TTGG	GAAGTGGCTTCCATGG TGAT	59.9	810	INTERGENIC	--	--	--
scaffold1511_P2_79005	scaffold1511	79005	TAAAA/TAAAA	GAAGGGACTGCGGCAT AATA	TGGGGGATTTTGGAA CATA	60.0	420	INTERGENIC	--	--	--
scaffold1511_P2_87441	scaffold1511	87441	GTTTTTTTTT/GTTTTTTTTT	TGAGTAGCCTTGGCTT CGAT	GAACGGTTACAGGGTG GAGA	60.0	930	INTERGENIC	--	--	--
scaffold1511_P2_91375	scaffold1511	91375	GAAAAA/GAAAAA	TGTTGAACTCATCCCCA ACA	TCCAACCAAGTGCAAA TGAA	60.1	398	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold1515_P2_15616	scaffold1515	15616	TAAA/TAA	TTATTTGAAAGGTGGG TGG	CCATGTCCATGCTCCT TCTT	60.1	464	INTERGENIC	--	--	--
scaffold1521_P2_10780	scaffold1521	10780	CA/CATCGA	TCATGTGAACAATGCA CCA	CCACAGCTTGTCTGTC GGTA	59.9	296	DRR	Ca_26977	--	bHLH
scaffold1521_P2_1157	scaffold1521	1157	CA/C	TCATGTGAACAATGCA CCA	AACTAGGCGCTATACG GGGT	60.0	394	DRR	Ca_26976	--	--
scaffold1521_P2_15206	scaffold1521	15206	T/TTTGAAATAAATTAT	GGGGTTAGGGCTCATA CGAT	GTTGCAGCGTGTGTT CTGT	60.0	821	INTERGENIC	--	--	--
scaffold1521_P2_15603	scaffold1521	15603	GAA/GAAA	TCGTGGTTCAATAATTG GCA	CAAAATAACGATTCGG GCTC	59.5	228	INTERGENIC	--	--	--
scaffold1521_P2_15896	scaffold1521	15896	TAAAAAA/TAAAAAAA	TCGTGGTTCAATAATTG GCA	AAATTAGGCATACAGAA ATGAAGGA	59.5	403	INTERGENIC	--	--	--
scaffold1521_P2_19269	scaffold1521	19269	GATATATATATA/GATATATATA	GAAGAATGGGAACAAT GCGT	TTCTGCAGGGGTAGAA TTGG	60.1	510	INTRON	Ca_26979	--	bHLH
scaffold1521_P2_19418	scaffold1521	19418	CAAAA/CAAA	GAAGAATGGGAACAAT GCGT	CAACGGGCAAAAATGA AACT	60.0	748	CDS (FRAME SHIFT)	Ca_26979	--	bHLH
scaffold1521_P2_20062	scaffold1521	20062	AT/A	AGTTTCATTTTGCCCG TTG	CACGATTTTGAGGGA GAAA	60.0	695	DRR	Ca_26979	--	bHLH
scaffold1521_P2_21280	scaffold1521	21280	A/ACTTAAGGT	TTGAACCCGAAATTTTC CAC	TACGAGGGACGATGTT GTGA	60.1	264	DRR	Ca_26979	--	bHLH
scaffold1521_P2_27144	scaffold1521	27144	TATTTGATGAATTTGATG/TATTTGATG	GCATATGCGGTCCTT AACT	CAATGCAACAAAACATG CCT	59.6	586	INTERGENIC	--	--	--
scaffold1521_P2_922	scaffold1521	922	A/AAATAAATTAT	GTGGAACGTGGAAGGG AGTA	ACTAGGCGCTATACGG GGTT	60.0	739	DRR	Ca_26976	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold153_P2_108120	scaffold153	108120	CTTTT/CTTTT	GGTCCTCGATTTCATCT GGA	GACCGGAGACCCCTTA TAGC	59.9	406	INTERGENIC	--	--	--
scaffold153_P2_28056	scaffold153	28056	GAA/GAA	AATGGCCACGAATCTG AAAG	TGTTTGAAATATGACGC GGA	60.1	518	DRR	Ca_27484	--	--
scaffold153_P2_44040	scaffold153	44040	TC/T	GGATCTCAAGCAATCAA GCA	CGTCAGTCCTGGAAT CAAT	59.9	872	INTERGENIC	--	--	--
scaffold153_P2_81004	scaffold153	81004	TT/TTGGTCAAT	ACTACCAATCGTCTGCT CCG	GGTCCTCGATTTCATCT GGA	60.0	399	INTERGENIC	--	--	--
scaffold153_P2_92221	scaffold153	92221	TAA/TAGAGTTGTCAAA	TCGTCAAAATGGACCA ACA	TGACGTAGAACTATAAA TCGGTGA	57.9	414	INTERGENIC	--	--	--
scaffold1530_P2_10630	scaffold1530	10630	TAAAAAAA/TAAAAAAA	CACACGAATACGATTCC ACG	ACTTTTAGGTGCGCGT GACT	59.9	540	INTERGENIC	--	--	--
scaffold1530_P2_14265	scaffold1530	14265	CA/CAGAAGTGAACAAA	TGATAGATGCAAAAAGG GGG	TTTAGCCATCAACTTTG GGG	59.9	606	INTERGENIC	--	--	--
scaffold1530_P2_16153	scaffold1530	16153	ACCCCC/ACCCCC	TCTCACGGTTGTGAGG ACTG	ACCGTTCTTGTTTCT GACC	59.0	746	INTERGENIC	--	--	--
scaffold1530_P2_16349	scaffold1530	16349	GAAAAA/GAAAAA	TCTCACGGTTGTGAGG ACTG	ACCGTTCTTGTTTCT GACC	59.0	746	INTERGENIC	--	--	--
scaffold1530_P2_16923	scaffold1530	16923	GATATATATATATATATA/GATATATA TATATATATATATATATATA	CATTGTGAGTGGTGTG GACC	TAGCTTCCACGATCT GGCT	60.0	299	INTERGENIC	--	--	--
scaffold1530_P2_17519	scaffold1530	17519	TA/T	GTGCAGTTGAATGAGC CAGA	TTGGAACCCCTTCTCCA ACAC	59.9	508	INTERGENIC	--	--	--
scaffold1530_P2_18656	scaffold1530	18656	GATTAGTAT/GAT	CAGTTGTTACACCTTA TGTTGC	CAACAGATGAATGGC GATG	60.1	196	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1530_P2_18990	scaffold1530	18990	ATTTTGTTTATTTTGTGTT/ATTTGTGTT	CATCGCCATTCATCTGT TTG	CTTGCTTCCATGAATCA ACAA	58.8	623	INTERGENIC	--	--	--
scaffold1530_P2_19122	scaffold1530	19122	AA/AAGA	CATCGCCATTCATCTGT TTG	CTTGCTTCCATGAATCA ACAA	58.8	623	INTERGENIC	--	--	--
scaffold1530_P2_19877	scaffold1530	19877	AA/AATTCGTA	TCATTTCCGCCTTATC AAGA	AGGGCCGATTAACTT TGCT	60.1	205	INTERGENIC	--	--	--
scaffold1530_P2_20086	scaffold1530	20086	ATT/ATTT	AGCAAAGTTAAATCGGC CCT	AGGCCTACGAGGAGAG AAAA	58.1	203	INTERGENIC	--	--	--
scaffold1530_P2_20299	scaffold1530	20299	A/AG	AGCAAAGTTAAATCGGC CCT	CCCATATCCAAGAGTA AAACCAA	59.3	429	INTERGENIC	--	--	--
scaffold1530_P2_21107	scaffold1530	21107	TC/TCC	TCTAAAAGATTTTGAAC CCCAA	TCCAAGGGTGTTAGAA ACGG	60.0	812	INTERGENIC	--	--	--
scaffold1530_P2_23128	scaffold1530	23128	AATATATATATATATATA/AATATATAT ATATATATATATA	TCTCCATTGCACACCCA ATA	GGTGCTGAAATCGGAA AATC	59.5	189	INTERGENIC	--	--	--
scaffold1530_P2_23508	scaffold1530	23508	AG/A	TCTCCATTGCACACCCA ATA	TTTCGCTAATGAAACAT TTGG	57.8	826	INTERGENIC	--	--	--
scaffold1530_P2_23816	scaffold1530	23816	TAAA/TAAA	GCATACCCATGAAGTAA GAATGC	TCACCATCGTGACATT CTCC	59.5	611	INTERGENIC	--	--	--
scaffold1530_P2_24452	scaffold1530	24452	AC/A	AGAAGGAGAATGTCA GATGG	GACGTGTGCTGAACT TCCA	60.0	261	INTERGENIC	--	--	--
scaffold1530_P2_24697	scaffold1530	24697	CTTTTTTT/CTTTTTTTTT	TGGAGAGTTCAGCACA CGTC	CCTCCGGTACCATAAA CCCT	60.1	249	INTERGENIC	--	--	--
scaffold1530_P2_25494	scaffold1530	25494	TAT/TATGTCAAAT	CTTTTTCCGTTTTTCAGC CAC	TTTACCCCTCGGTAAAA CCTC	59.4	607	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1530_P2_25850	scaffold1530	25850	TTTTTTTATTTTATTT/TTTTTTTATTT	TCGATCTTGAGCGAATT TGA	CAATACCAATTTACGAA AATTCA	60.1	482	INTERGENIC	--	--	--
scaffold1530_P2_26371	scaffold1530	26371	CTTTTTTTT/CTTTTTTTTT	CAAAATTTTCAAAACAA ACCCA	AAAGCACCTTTACCAAA AGCA	58.9	454	INTERGENIC	--	--	--
scaffold1530_P2_26727	scaffold1530	26727	CT/CTT	TGCTTTTGGTAAAGGTG CTT	ATTCGCAAAACCAAACTC GAT	59.6	742	INTERGENIC	--	--	--
scaffold1530_P2_26900	scaffold1530	26900	AT/A	CCCATCATAACCTACAA ATTCCA	ATTCGCAAAACCAAACTC GAT	59.6	360	INTERGENIC	--	--	--
scaffold1530_P2_27039	scaffold1530	27039	T/TCA	CGTTTTTCGACATCAAGA TGGTA	TCGCAAAACCAAACTCG ATAA	59.3	134	INTERGENIC	--	--	--
scaffold1530_P2_27186	scaffold1530	27186	CTTATTTAT/CTTAT	TCGAGTTTGGTTTGGC AATA	CGATTGCTCATAAAATC GCTC	59.8	538	INTERGENIC	--	--	--
scaffold1530_P2_27232	scaffold1530	27232	ATTTTTTT/ATTTTTTTTT	TCGAGTTTGGTTTGGC AATA	CGATTGCTCATAAAATC GCTC	59.8	538	INTERGENIC	--	--	--
scaffold1530_P2_27815	scaffold1530	27815	ATTTTTTTTT/ATTTTTTTTT	TTTGAGAGGGCCTTTG GTAA	TCGACAGGTTTGTGTTG TTCG	59.7	405	INTERGENIC	--	--	--
scaffold1530_P2_27996	scaffold1530	27996	CCTATGGTG/C	TTTGAGAGGGCCTTTG GTAA	TCGACAGGTTTGTGTTG TTCG	59.7	405	INTERGENIC	--	--	--
scaffold1530_P2_28367	scaffold1530	28367	CAATTAA/CAA	GGCCCTATGGTGTAT GGTG	TTCGAAGCCATTATGT TGATG	60.0	817	INTERGENIC	--	--	--
scaffold1530_P2_28720	scaffold1530	28720	ATTTTTTTTTTT/ATTTTTTTTT	CAAACTGAGCACACAC GAGA	ATAGTGACATCGGGT GGGA	60.2	510	INTERGENIC	--	--	--
scaffold1531_P2_24929	scaffold1531	24929	AT/ATTCT	TCAGGATTTGGGTTTA GGG	TTTTGTAGTTGTACTCA ATAACAAGGA	57.7	482	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1531_P2_27008	scaffold1531	27008	AC/A	CCTGAAAAGTCCCGAT GAAA	CTAACGCAGAACCTGC AACA	60.1	376	INTERGENIC	--	--	--
scaffold1531_P2_29443	scaffold1531	29443	AG/AGGG	TCCAGATGAAATCGAG GACC	GATTTTCGTTCCACCCT TCA	59.9	621	INTERGENIC	--	--	--
scaffold1532_P2_30786	scaffold1532	30786	TAAAAAAAAA/TAAAAAAAAA	TGGATTGAGAATTTTC CGC	CACCCCGTTTTTATTAG CGA	60.0	161	INTERGENIC	--	--	--
scaffold1532_P2_68652	scaffold1532	68652	CTTTTTTT/CTTTTTTTT	CATTGCACTGCATGCTC TTT	TC TTGCTCACAACACA GCC	60.0	649	INTERGENIC	--	--	--
scaffold1532_P2_69027	scaffold1532	69027	TAAAAATAAAAAATAAAAAATAA AAAAATAAAAAATAAAAA	ACCCAATCTTGGGGGA TAAA	TC TTGCTCACAACACA GCC	60.0	220	INTERGENIC	--	--	--
scaffold1533_P2_14897	scaffold1533	14897	AT/ATT	CTTCGAGCCATTTTGG CAT	CCCTCATAGTTAGGGG GTCC	59.6	563	INTERGENIC	--	--	--
scaffold1533_P2_39114	scaffold1533	39114	CTATATATATATATATATATATAT TAT/CTATATATATATATATATATAT AT	TCCGCGAGAGAGTTAT AGCC	CACGAAACACAATTC TGC	59.2	790	INTERGENIC	--	--	--
scaffold1533_P2_40798	scaffold1533	40798	ATATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTA/ TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTA	GGCAGCACATCATCAT CATC	TTTTCACAAGGCTCAAC TAATTACA	59.3	575	INTERGENIC	--	--	--
scaffold1533_P2_65417	scaffold1533	65417	A/ATAAAT	TGGGTCCATGTTCCATT TTT	TTCCAATCCCCTTGACT CAG	60.0	667	INTRON	Ca_26588	--	--
scaffold1544_P2_14620	scaffold1544	14620	CTTT/CTT	CCAATGGATGAATCTC GGTT	TAGAAGGAACGGAGGG GTTT	59.9	794	INTERGENIC	--	--	--
scaffold1545_P2_178426	scaffold1545	178426	CATATATATATATATA/CATATATATA TATATATATATATATATATATA	ACGGCAAGACCCATAA ACCT	ACCAGCATGATGACCA GACA	60.1	763	INTERGENIC	--	--	--
scaffold1545_P2_216945	scaffold1545	216945	TTAATAATAATAATAATAATAATAAT AAT/TTAATAATAATAATAATAATAAT AATAATAAT	AGGGGAGAAATGGATC GAAA	CTTGTTTCAGCTCGGTT CACA	60.0	649	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1562_P2_128871	scaffold1562	128871	A/ACAG	GGCAATTCCTTGCCCA AAT	TCTTTGGATGGGTCC ATGT	60.2	523	INTERGENIC	--	--	--
scaffold1562_P2_35441	scaffold1562	35441	CATATATATATATATATATATATAT/ CATATATATATATATATATATAT	GTTGGTCCCTAGCAC CGTA	GACGCTTTCACACAG GATA	59.7	805	INTERGENIC	--	--	--
scaffold1562_P2_42332	scaffold1562	42332	AGGGG/AGGG	GGAGGAGAAGGAGGGA TTTG	TATTTTGGATTTTGGCT CGG	59.9	362	INTERGENIC	--	--	--
scaffold1569_P2_32526	scaffold1569	32526	ACC/ACCC	CAGGGCCTTAAACCAT GAAA	GGTTTGGGGTTTGGGA TTTA	60.8	601	INTERGENIC	--	--	--
scaffold1569_P2_32547	scaffold1569	32547	GCCC/GCC	CAGGGCCTTAAACCAT GAAA	GGTTTGGGGTTTGGGA TTTA	60.8	601	INTERGENIC	--	--	--
scaffold1569_P2_32980	scaffold1569	32980	TAA/TA	ATAAACCGAACCGCAAA ACA	GGTTTTATGGTTTAACG GCCT	59.3	714	INTERGENIC	--	--	--
scaffold1569_P2_33746	scaffold1569	33746	T/TC	AAACCCTAAACCCTAAC CCC	ATGGTTTAAGGCGCTT GGTA	58.4	612	INTERGENIC	--	--	--
scaffold157_P2_11932	scaffold157	11932	AATATATATATATATATATA/AATATAT ATATATATATATATATA	TTCTTTGTGCATCTTCGT TGG	CAAAATTTCAAAACAA ACCCA	58.9	576	DRR	Ca_21061	R	Trihelix
scaffold157_P2_127896	scaffold157	127896	A/AGG	TCCTGTAGATTTTCCTG CGG	GTGCAGATTTTCATGC GAGA	60.0	276	INTERGENIC	--	--	--
scaffold157_P2_130500	scaffold157	130500	TC/T	CAATTTTAATCCCGAC CCT	AAATGCCATCGCATAA CCAT	60.2	507	INTERGENIC	--	--	--
scaffold157_P2_139214	scaffold157	139214	ATTTTT/ATTTTTTT	ATGTTTTCATGACGCGA GTG	GCTCCATTTTGTTTTT GGC	59.6	675	INTERGENIC	--	--	--
scaffold157_P2_168277	scaffold157	168277	G/GAAAAA	ACCATGCAAAGACATCC ACA	AAACAAGGTGACTCGT TGGG	60.0	729	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold157_P2_212151	scaffold157	212151	AATATATATATATATATATA/AATATAT ATATATATATATATATATA	CTTAGGGTGAGGGAAG GGAG	CATCTAAGGGCAAAAC GCTC	59.8	542	INTRON	Ca_21071	C	GATA
scaffold157_P2_234593	scaffold157	234593	CTATATATATATATATATATATAT/C TATATATATATATATATATATATAT	TGGTAGCGTGTCAAAAT CAAA	CAAAACCAATTTGAAGC TAAACC	60.3	553	INTERGENIC	--	--	--
scaffold157_P2_248176	scaffold157	248176	CAT/CATAT	TGGAGGGAGTATTGAA AAATATGG	TGCATTGGAAATCAAAA GTGA	59.1	334	INTERGENIC	--	--	--
scaffold157_P2_248333	scaffold157	248333	CAA/CA	TTGTATTGCCTCCATCT CAAAA	TGGAAGTTGTGGATGC AATG	60.5	483	INTERGENIC	--	--	--
scaffold157_P2_249051	scaffold157	249051	TAAA/TAAAAAA	TGCATCCACAACCTCCA AAA	GTGGAGTTGGTGATGG CTTT	60.0	724	INTERGENIC	--	--	--
scaffold157_P2_254172	scaffold157	254172	GAAAAAAAAA/GAAAAAAAAAAAAA	GTTCCAACCTTCATCG GTA	AACGCCCTAGAAAATC CACA	59.6	692	INTERGENIC	--	--	--
scaffold157_P2_254264	scaffold157	254264	TAAAAAAAAA/TAAAAAAAAAAAA	TGGGATGAAAAGGGAG TTTG	TTGACTCTGATGAACG TGCC	59.8	605	INTERGENIC	--	--	--
scaffold157_P2_254639	scaffold157	254639	GTTT/GTTTTT	TGGGATGAAAAGGGAG TTTG	TTGACTCTGATGAACG TGCC	59.8	605	INTERGENIC	--	--	--
scaffold157_P2_255873	scaffold157	255873	GAT/GATAT	TTTGGTCTTGCCTTGA TGA	TGCGGTAAAGGTTGGT TCTC	60.1	888	INTERGENIC	--	--	--
scaffold157_P2_289273	scaffold157	289273	T/TATC	GCACATTCAGTGCCAA GAGA	ATTGAGGGCATTGTCA CTCC	59.9	492	INTERGENIC	--	--	--
scaffold157_P2_308511	scaffold157	308511	CT/CTT	CGCATGTGTTTCGTCT GAAT	AGGAGATTTCGTTGTC ACGG	60.1	479	DRR	Ca_21076	--	--
scaffold157_P2_308958	scaffold157	308958	A/AC	ATGTGGACATGGCACA AGAA	TTTATCTTTCGGATCAC CGC	60.0	677	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold157_P2_322465	scaffold157	322465	TAAGAA/TAA	CACAGGAAGTGGAGGC ATTT	TCAAAGGTTTGACTGG GGTC	59.9	687	INTRON	Ca_21078	--	MYB_related
scaffold157_P2_335191	scaffold157	335191	GAAAAAA/GAAAAAAA	TTCGAAGTTTCGGTAG GGTG	GTCGAATGAAACCCCA ACAC	60.2	543	INTERGENIC	--	--	--
scaffold157_P2_336587	scaffold157	336587	T/TA	TGTAGCGAAAGCAAAT GAA	TTTTAACAAGCCGTGT CCC	60.0	624	INTERGENIC	--	--	--
scaffold157_P2_346679	scaffold157	346679	ATTTTTTTTT/ATTTTTTTT	AAACCCGTTACTCATTC GGA	TAACGGGCTGTGAGCT TTTT	59.9	780	INTERGENIC	--	--	--
scaffold157_P2_347889	scaffold157	347889	TTATATATATAT/TTATATATAT	ACCACGTGTCGTAAATT TGTT	CCCGAGATGTGACCTC GTAT	60.0	338	INTERGENIC	--	--	--
scaffold157_P2_348258	scaffold157	348258	A/AG	ATACGAGGTCACATCTC GGG	GCAACCATTTGCACGT TTTT	60.9	532	INTERGENIC	--	--	--
scaffold157_P2_348726	scaffold157	348726	CTTTTTTT/CTTTTTTT	AGCTAGACGGAGATGC AATGA	TAAAGTTTGGGGAAAT GGCA	60.3	136	INTERGENIC	--	--	--
scaffold157_P2_34896	scaffold157	34896	ATTTTTTTTT/ATTTTTTTTTT	CAACAAATGGCACGA AAA	TGTTTTGGGATCATGG GATAA	60.0	733	INTERGENIC	--	--	--
scaffold157_P2_349077	scaffold157	349077	TA/T	TGCCAATCCCAAACCT TTA	GCGGGACATAACACCT AACG	60.4	369	INTERGENIC	--	--	--
scaffold157_P2_355168	scaffold157	355168	GAAA/GAAAA	CTGTTGAGGTCGGGAA ACAG	CTTCACTTTTGCTGATG GCA	60.0	575	INTRON	Ca_21079	--	SBP
scaffold157_P2_358540	scaffold157	358540	GT/GTT	TGGATGCAATAAAGCA GGTC	GATCTCAACCGCCGAT CTAA	60.2	417	DRR	Ca_21079	--	SBP
scaffold157_P2_358753	scaffold157	358753	ATTTTT/ATTTT	ATTTAGATCGGCGGTT GAGA	AACGTAGCTTTTGTGC GCTA	58.8	216	DRR	Ca_21079	--	SBP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold157_P2_359906	scaffold157	359906	A/ATAG	GATTTTCCTCCACCAT CAA	TCTTGTTTTCTGTATG TGCCC	60.3	439	DRR	Ca_21079	--	SBP
scaffold157_P2_360517	scaffold157	360517	TA/TACA	ACGGGAGAAATATATGT GATTGA	TTGGTGACAAACTTGA ATTTTC	59.3	887	INTERGENIC	--	--	--
scaffold157_P2_433879	scaffold157	433879	TTTATTATTATTATTATTATTATT ATTATT/TTTATTATTATTATTATTAT TATTATTATTATTATT	TTCTACGAGCTGGCCTT GTT	GGTGGTTTTGTAGCGG AAAA	60.0	244	INTERGENIC	--	--	--
scaffold1575_P2_140845	scaffold1575	140845	CAATCGATTCTCTTAATCGATTCTTAA/C AATCGATTCTTAA	CTCTCAACTGAGGGCA AAGC	AGGGTAACAGGGAATT GGCT	60.0	594	INTERGENIC	--	--	--
scaffold1575_P2_195052	scaffold1575	195052	CATATATATATATATA/CATATATATATA TATATA	CTTGGTCTAACCTCAC CCA	CCTGCATGCTTGTTA CTGA	59.9	564	INTERGENIC	--	--	--
scaffold1575_P2_41573	scaffold1575	41573	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AA/AAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAA	TTTGCTATCCTCTTGA GCC	AAGGTGCACATGGGTC ATT	60.2	517	INTRON	Ca_27018	G	C2H2
scaffold1578_P2_76566	scaffold1578	76566	CATATATATAT/CATATATATATAT	TCATTGTTTGTGTTTGG CGT	CTTGTTTTCTCCATGGT CGC	60.6	816	INTERGENIC	--	--	--
scaffold1578_P2_76623	scaffold1578	76623	AGG/AG	TCATTGTTTGTGTTTGG CGT	CTTGTTTTCTCCATGGT CGC	60.6	816	INTERGENIC	--	--	--
scaffold1578_P2_76801	scaffold1578	76801	ATCTCT/ATCTCTCT	CTGATAGTGACACCGG GTTG	CTTGTTTTCTCCATGGT CGC	60.6	664	INTERGENIC	--	--	--
scaffold1578_P2_77306	scaffold1578	77306	T/TG	GCGACCATGGAGAAAA CAAG	TTGGTTGAATCCACACA CAAAT	60.1	563	INTERGENIC	--	--	--
scaffold1578_P2_77372	scaffold1578	77372	AT/ATT	GCGACCATGGAGAAAA CAAG	TTGGTTGAATCCACACA CAAAT	60.1	563	INTERGENIC	--	--	--
scaffold1578_P2_79075	scaffold1578	79075	CT/C	CCAGACCTCATAGATCC CCA	CATGTAAATCGCCGA AATC	58.1	467	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1579_P2_18189	scaffold1579	18189	ATT/ATTT	TAGGCTTCAAGGAAGC TGGA	CCGACTAAAATGGACC GAAA	59.9	354	INTERGENIC	--	--	--
scaffold1579_P2_35194	scaffold1579	35194	CAAAAA/CAAAA	CATTTTAAATTGACAAC TCAATTTTCT	TGAAATAAACCATAAA ACGAAGA	57.1	240	INTERGENIC	--	--	--
scaffold1579_P2_64472	scaffold1579	64472	A/AT	GAGCGAATTGAGAAAC GAGG	TTTTCAAATAAAGTAAC ATTGACAACA	58.3	927	INTERGENIC	--	--	--
scaffold1579_P2_7520	scaffold1579	7520	GTTTT/GTTTT	GGTTCAGCTCATTGCC AAAT	TCCAGCTTCCTTGAAG CCTA	60.1	711	INTERGENIC	--	--	--
scaffold158_P2_121798	scaffold158	121798	GT/GTCCT	ATTGCCCAAAGATGTCC AAG	AATTATTGGCAACGTC CCTG	59.8	410	INTERGENIC	--	--	--
scaffold158_P2_131634	scaffold158	131634	T/TAAC	GTGACTGGTGACTGGG GACT	TTATGCCTGCTGTTCT GCAC	60.0	227	INTRAGENIC	--	--	--
scaffold158_P2_132271	scaffold158	132271	TAAACGTGAGGGACAAAAC/TAAACGTG AGGGACAAAACGTGAGGGACAAAAC	GTGCAGAACAGCAGGC ATAA	CGTGGCGTGACTACAT TGAG	60.3	753	INTERGENIC	--	--	--
scaffold158_P2_18471	scaffold158	18471	GAANNNNNNNNNNA/GAA	GTGTCCTAGGGTTTTTA GGGA	CAGCCATCGTCTTGTC TGAA	60.0	280	INTERGENIC	--	--	--
scaffold158_P2_8453	scaffold158	8453	GTAATAATA/GTAATAATAATA	GTGAGGACCAGCCAC TTTA	TTTCCCAATCGATTGTC TTC	60.0	776	DRR	Ca_27854	--	--
scaffold1580_P2_182265	scaffold1580	182265	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAAT/AAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATAATAATAAT	TTTCATCTTTGAGTGC GAC	GGCACATTAACAATTA TCAACAAA	59.3	835	INTERGENIC	--	--	--
scaffold1580_P2_251123	scaffold1580	251123	CNNNNNNNNN/C	TGTTCTCTAGGGGT GGTG	GGCCATCTTTAAACC CCTT	59.3	569	CDS (FRAME SHIFT)	Ca_20799	B	--
scaffold1580_P2_261599	scaffold1580	261599	TAA/TACAA	GGGTCAAGTTTCAAGG ACGA	AAGTGGGGAACGCATA AGTG	60.0	381	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1580_P2_261643	scaffold1580	261643	A/AAAGGGAACGGTT	GGGTCAAGTTTCAAGG ACGA	AAGTGGGGAACGCATA AGTG	60.0	381	INTERGENIC	--	--	--
scaffold1580_P2_360947	scaffold1580	360947	TATTCATT/TATTCATTCAACATTCAA TT	GCGTCCGTTAAGCTC ACAT	ACAAGCAAGGCGCTGT AAAT	59.9	678	INTERGENIC	--	--	--
scaffold1580_P2_472285	scaffold1580	472285	TC/T	TGATGCAAGAAGCCAC ATCT	CTTGAAAGCCATTGGA GAGC	60.0	677	INTERGENIC	--	--	--
scaffold1580_P2_472375	scaffold1580	472375	CATA/CATATA	TTTTGGTCAGGGGAAG GTTT	CTTGAAAGCCATTGGA GAGC	60.0	578	INTERGENIC	--	--	--
scaffold1580_P2_472426	scaffold1580	472426	CT/CTT	TTTTGGTCAGGGGAAG GTTT	CTTGAAAGCCATTGGA GAGC	60.0	578	INTERGENIC	--	--	--
scaffold1580_P2_473015	scaffold1580	473015	TAAAG/TAAAGGAATTTGTGAAAG	AGCTCTCCAATGGCTTT CAA	ACATTTTCTTTGTGGAC GCC	60.0	651	INTERGENIC	--	--	--
scaffold1580_P2_61955	scaffold1580	61955	AAA/AAATAA	AAGAACGCGATAACCAA AGC	TTGGACCGATGGATCA TTTT	60.1	894	INTERGENIC	--	--	--
scaffold1580_P2_69955	scaffold1580	69955	ATTTTT/ATTTTT	ATCACCAGCCACTTAG GCAA	TCCCTTATGACAATTCA TGGTG	59.7	639	INTERGENIC	--	--	--
scaffold1580_P2_73721	scaffold1580	73721	TAAAAA/TAAAA	TGTGAAAATTGCCAAA ACA	CCCTTCACCTTTGTTT GAA	59.9	454	DRR	Ca_20788	--	S1Fa-like
scaffold1580_P2_99509	scaffold1580	99509	AAATAATAATAATAATAATAATAATA ATAA/AAATAATAATAATAATAATAA TAATAA	TACCAGAAGTGGAGA TCGG	ATCATCAATGTCGTG CTCA	60.1	709	INTERGENIC	--	--	--
scaffold1585_P2_62915	scaffold1585	62915	CATATATATATATATATATATATAT/C ATATATATATATATATATATATATAT	AGGAAGAGTGGAGTTG CGAA	GTTTTGAATTTTGCTC GGA	60.1	522	INTERGENIC	--	--	--
scaffold1586_P2_1838	scaffold1586	1838	AC/ACC	AGGGAGGACGAAAATG ACCT	TGACCAATTTGAGCAT CCA	60.0	471	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1590_P2_10133	scaffold1590	10133	ATTTT/ATTTT	GGGGGAGAAAATTGG TGTT	GTCGGATACACTTGGC CACT	60.0	553	DRR	Ca_27861	--	--
scaffold1607_P2_117990	scaffold1607	117990	CAA/CAAA	TGGGATGTTAACTCCA TACCC	ATATTGGAACCCGTG TGGA	60.1	347	INTERGENIC	--	--	--
scaffold1607_P2_19428	scaffold1607	19428	GTTTTTTTTT/GTTTTTTTTT	AGAGCGATGATTGGA TTGG	TTCAACAACCGCTTCAG ATACA	59.3	190	INTERGENIC	--	--	--
scaffold1607_P2_47435	scaffold1607	47435	CAA/CA	TCACCGATGTGGATT TGA	CGATTATCGCGATCTT GGTT	60.1	806	INTERGENIC	--	--	--
scaffold1607_P2_47493	scaffold1607	47493	TAAA/TAAAA	TCACCGATGTGGATT TGA	CGATTATCGCGATCTT GGTT	60.1	806	INTERGENIC	--	--	--
scaffold1607_P2_47511	scaffold1607	47511	TGC/TGCCACCAAAGC	TGGCAATCGATTGACA AAG	CGATTATCGCGATCTT GGTT	60.1	457	INTERGENIC	--	--	--
scaffold1607_P2_61142	scaffold1607	61142	ACTCTCTCTCTCTCTCTCT/ACTC TCTCTCTCTCTCTCTCTCT	AGACCAGCAAGAAGCA TTGG	CCTTAAAGCAACCGTC CAAA	60.1	473	INTERGENIC	--	--	--
scaffold1609_P2_2922	scaffold1609	2922	A/AAGTTCATT	TGTGTGTTTGTGTCATC GGA	ATCCTTGGGAGGACGA AAAT	59.8	546	INTERGENIC	--	--	--
scaffold1613_P2_106669	scaffold1613	106669	C/CGATATCATAGCCAAG	ACAATTTACGCCACCGA AAG	AGAAGCGACCCCATAG GTTT	60.0	549	INTERGENIC	--	--	--
scaffold1613_P2_109049	scaffold1613	109049	ATATTATTATTATTATTATTATTATT A/ATATTATTATTATTATTATTATT	AACGTGTTCTGGGTGGT AAAA	GCAATCCGAAGACGAT CATT	60.0	451	DRR	Ca_27474	--	--
scaffold1613_P2_98233	scaffold1613	98233	TATGTATAAAGGTAAGGAT/TATGTATA AAGGTAAGGATGTATAAAGGTAAGGAT	GACGCGTAGTTTCGAG GATG	TGGCAAGGAGCAACT TCTT	60.0	651	INTERGENIC	--	--	--
scaffold1613_P2_98434	scaffold1613	98434	A/AG	AAGAAAGTTGCTCCTTG CCA	AGGAGCACTTACCTCC GTTG	59.4	133	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1614_P2_117825	scaffold1614	117825	C/CA	TCTTGTGCGTCCAATAG CTG	AGGGAGGACGAAAATG ACCT	59.9	513	INTERGENIC	--	--	--
scaffold1614_P2_131511	scaffold1614	131511	AATATATATATAT/AATATATATATATAT	CCGCGAGTAATCCGA TAAA	ATCAGCCTAAGGGGA AGAA	60.0	875	INTERGENIC	--	--	--
scaffold1614_P2_164436	scaffold1614	164436	CTCTGAT/CT	AAAACCGCCAAAGAAAT GTG	ATGACATGTGTGAGCC GTGT	60.0	161	INTERGENIC	--	--	--
scaffold1614_P2_188751	scaffold1614	188751	GTTTTTTTTT/GTTTTTTTTTTT	TGAAAGCCAATTCCACT TCC	ACTGGAAGGACAGGCT GATG	60.3	703	INTERGENIC	--	--	--
scaffold1614_P2_8293	scaffold1614	8293	ATATATATATATATAT/ATATATATATATA TATGTATATATATATATAT	CTTCTGATGCCCGATT AAA	AAGATGGAGGAAATGC GATG	60.0	436	INTERGENIC	--	--	--
scaffold1623_P2_14304	scaffold1623	14304	GTTT/GTTTT	GTTGCCGACCATTTTGT CTT	TGGGAAATCGATTAAG CTGG	60.0	651	INTERGENIC	--	--	--
scaffold1623_P2_3625	scaffold1623	3625	TAACAATAGCAAC/TAACAATAGCAACA ACAATAGCAAC	AACAACCGCAACAACAA CAA	GGCGTAGATTTTATCC GCAA	60.1	585	INTERGENIC	--	--	--
scaffold1623_P2_3669	scaffold1623	3669	TCAATAACAACAA/TCAATAACAACAATA ACAACAA	AACAACCGCAACAACAA CAA	GGCGTAGATTTTATCC GCAA	60.1	585	INTERGENIC	--	--	--
scaffold1626_P2_121557	scaffold1626	121557	TTTATTATTATTATTATTATT/TTTAT TATTATTATTATTATTATTATT	AGAGGCAAAACAAGAAC CGAA	AGCCGAGAAAATAACT CGCA	60.0	311	INTERGENIC	--	--	--
scaffold1626_P2_32567	scaffold1626	32567	AACATACAT/AACAT	GACAGCTTTGCTGAGTT CCC	CCCGTAGAGGCAGTA CGTT	60.0	647	INTERGENIC	--	--	--
scaffold1630_P2_106951	scaffold1630	106951	TCA/TCATAACA	AACGTATAATAAACCGA ACTTGTCAA	TCTTCGCTTTGTAGTTT TACTTCAT	57.9	405	INTERGENIC	--	--	--
scaffold1630_P2_113194	scaffold1630	113194	GAA/GAAA	TCCAGATGAAATCGAG GACC	GGCGTAGAACCCGAAA CATA	60.0	239	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1630_P2_37737	scaffold1630	37737	ATCTTC/A	GGTCCTCGATTTCATCT GGA	TTTGGCAATTAATTTT GTGATATT	58.1	948	INTERGENIC	--	--	--
scaffold1630_P2_6306	scaffold1630	6306	T/TA	GTACCACCCGACAAAA TGG	TCCAGATGAAATCGAG GACC	60.0	530	INTERGENIC	--	--	--
scaffold1631_P2_223207	scaffold1631	223207	TGAAAAGAAAAGAAAAGAAA/TGAAAAG AAAAGAAAAGAAAAGAAA	GGCCAAACTTTTAGCAT GGA	TGATTGATCATGGGGT TGTC	60.2	349	INTERGENIC	--	--	--
scaffold1631_P2_244465	scaffold1631	244465	AC/ACAGCAGC	AAATCTGCCAGGTGGA CATC	TTTTGGGCTATGGAGT TTGG	59.9	661	INTERGENIC	--	--	--
scaffold1631_P2_32782	scaffold1631	32782	AATATATATATATATATATACATATAT ATATA/AATATATATATATATATACATA TATATATA	GTCCACTCCGTTTCG GTAA	GTCGCTTCAAAGTTG GCTC	60.0	625	INTERGENIC	--	--	--
scaffold1631_P2_32889	scaffold1631	32889	TGGTTTAAAAA/T	GTCCACTCCGTTTCG GTAA	GTCGCTTCAAAGTTG GCTC	60.0	625	INTERGENIC	--	--	--
scaffold1632_P2_26463	scaffold1632	26463	AAGTAG/AAG	ACGTTTGTGTCGACG GTT	ATCCAATCCACTTCTTT CCG	59.0	554	DRR	Ca_26993	--	--
scaffold1632_P2_26495	scaffold1632	26495	T/TGTG	ACGTTTGTGTCGACG GTT	TGATCCAAGAAGCCAC ACAC	59.7	734	DRR	Ca_26993	--	--
scaffold1632_P2_4788	scaffold1632	4788	AATATATATATATATATATATA/AAT ATATATATATATATATA	TTTTGGGTGGGATTTA CGA	ACCAATGCATGGTGT GAAA	59.8	465	DRR	Ca_26992	--	--
scaffold1632_P2_53974	scaffold1632	53974	GATATATATATATATA/GATATATATA TATATATATA	TCTAGCCGAAAGAA TGGA	ATGATCCAAGAAGCCA CACA	59.1	205	INTRON	Ca_26994	--	--
scaffold1632_P2_93666	scaffold1632	93666	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATATA TATATATA	TGTCCTTCTCATTGGGA ACC	CACCCATTTAAGCTCG GAAA	60.1	376	DRR	Ca_26995	--	--
scaffold1633_P2_157653	scaffold1633	157653	G/GT	CCACGAGATGATTCCAT GTG	CCTATCACGAGTCAGC ACGA	60.0	204	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1634_P2_10764	scaffold1634	10764	A/AC	TGGATGCACAAGGTG GTTA	AGGTCATTTTCGTCCTC CCT	59.9	555	INTERGENIC	--	--	--
scaffold1635_P2_33794	scaffold1635	33794	TTC/T	TAACCAAAGGTTCCACA GCC	TGTTAGGAGGATCTCA CGGG	60.1	424	INTERGENIC	--	--	--
scaffold1635_P2_43553	scaffold1635	43553	ATTTTTTTTT/ATTTTTTTTTT	TCCATGCCTCATAAATG CAA	AAGGTCCAAGAGCAA GTGA	59.8	150	INTERGENIC	--	--	--
scaffold1635_P2_72622	scaffold1635	72622	A/AG	GCACGATCATTTGGTG TTG	TTGACTGATGTTAAGTA TGCACG	57.9	867	INTERGENIC	--	--	--
scaffold1635_P2_74246	scaffold1635	74246	TCCC/TCCCC	GGTAAACGTGTGTTGC ATGG	GGAGTACCATAGGCCA ACGA	60.0	258	INTERGENIC	--	--	--
scaffold1638_P2_54887	scaffold1638	54887	TAAA/TAAA	CTTGGGAAGTGGAGAG CAAG	AAAAACCTCCGAGCCA AAAT	59.9	166	INTERGENIC	--	--	--
scaffold1638_P2_61231	scaffold1638	61231	TTATATATATATATATATATATATA TATA/TTATATATATATATATATATATA TATATATATA	TTGGAAGTGAATTGTCA ACG	TGGGTGCTATTGCAA TCAA	60.1	572	URR	Ca_27429	--	--
scaffold1638_P2_85676	scaffold1638	85676	AATATATATATATATATATATA/AATAT ATATATATATATATA	TCATCCTCGACGAAATA GGG	AAATGTTTCCATGCCCTC TGG	59.9	275	INTERGENIC	--	--	--
scaffold1643_P2_106009	scaffold1643	106009	ATT/ATTGTT	TGACCCATATGTGTAA GGG	GCACACAAATATGTCG CGTT	59.6	771	DRR	Ca_26269	--	--
scaffold1643_P2_107792	scaffold1643	107792	TTATATATATATATATATATAT/TTATA TATATATATATATAT	GGCGATTTTACATTTAT ACGTGAG	ACATATGGGTCAAACC CGTC	59.5	402	INTERGENIC	--	--	--
scaffold1643_P2_109664	scaffold1643	109664	CTATATATATATATATATATATATA TATATATATAT/CTATATATATATATATAT ATATATATATATATATATATAT	TTATGCTTTGTGTCATG GGC	CCAACCCAAATTGAACA GGT	59.7	550	INTERGENIC	--	--	--
scaffold1643_P2_126701	scaffold1643	126701	TAAAAAA/TAAAAA	CAATCAAAACCAACAGG CTT	TCCCCCAACAGAAATT GAG	59.9	505	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1643_P2_147473	scaffold1643	147473	AAATAATAATAATAATAATAA/AAAT AATAATAATAATAATAATAA	ATGGTGGTGCAAAC TACA	CAAGCGTAGTGCAAG TGTGA	60.1	677	INTERGENIC	--	--	--
scaffold1643_P2_152357	scaffold1643	152357	GGGAAATAGAGGAAA/GGGAAA	AGGAGGATGACTCAG TACCA	TTTGAATTCATCCCTG CAA	59.1	680	INTERGENIC	--	--	--
scaffold1643_P2_162985	scaffold1643	162985	CATATATATATATATATATATATAT ATATA/CATATATATATATATATATATA TATATA	CATTATACCCCAACG TAT	CGCTTTTAAATGTCG CTC	59.9	411	INTERGENIC	--	--	--
scaffold1643_P2_163768	scaffold1643	163768	AATATATATATATATATATATATAT A/AATATATATATATATATATATATA TATATATA	ATTCCAGCATGCCAAT TTC	CTTCCAGAACTAGCC GCAC	60.0	719	INTERGENIC	--	--	--
scaffold1643_P2_166219	scaffold1643	166219	AAA/ACGAATGCTAATAA	TGGTAGCGCTATAAC CCTGTT	TCCTGAACACCCCTAG TTGC	60.1	444	INTERGENIC	--	--	--
scaffold1643_P2_166873	scaffold1643	166873	CAAAAAA/CAAAAAA	GCAACTAGGGGTGTT AGGA	ATGCACACTGTTGCA CCTT	59.2	610	INTERGENIC	--	--	--
scaffold1643_P2_167442	scaffold1643	167442	AC/A	GCCGTTTACAGTGCTT TTCA	AAGCAGCGCGTTTTTA GAAG	59.8	123	INTERGENIC	--	--	--
scaffold1643_P2_167883	scaffold1643	167883	TTATATATATATATATATATA/TTATAT ATATATATATATATATA	CCCATTTGAGCTCGAAA AAC	ACCGTTCTGATTTCTGT GGC	60.0	200	INTERGENIC	--	--	--
scaffold1643_P2_169454	scaffold1643	169454	CAAAAAAAAA/CAAAAAAAAA	GTCATTTTGCGTAGT GGG	TTTCCGGTCAACACTC ATCA	60.1	133	INTERGENIC	--	--	--
scaffold1643_P2_171022	scaffold1643	171022	TTTA/TTTAATTA	TAACCCCATCAAAATTG GGA	TCTTGAAGGAGCGGGT AGAA	59.9	563	INTERGENIC	--	--	--
scaffold1643_P2_180974	scaffold1643	180974	ATGATGAATCTTGATGAATCTTGATGA T/ATGATGAATCTTGATGAAT	CCCACGCTCTTTAGCA GTC	TTTCACTTTCCCGCTTC TGT	59.9	859	INTERGENIC	--	--	--
scaffold1643_P2_192850	scaffold1643	192850	TATAATA/TATA	GAGGGGGAGAAAGCTG AGAG	TGCTGACATGATTGTT GATGTG	60.6	535	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
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scaffold1643_P2_192933	scaffold1643	192933	CG/C	GAGGGGGAGAAAGCTG AGAG	TAGCATGCTGGAATT GCTG	60.0	604	INTERGENIC	--	--	--
scaffold1643_P2_201235	scaffold1643	201235	TAG/TAGGATTTTACAG	GAAATTAATGTTGTT TAGAAGGG	TAATGAAAATTGCCCC AAA	60.1	515	INTERGENIC	--	--	--
scaffold1643_P2_204321	scaffold1643	204321	AT/ATCCGCT	ATGGTTTGCGTGCTCTT CTT	ACAAATGGAGGGACGA TGAA	60.3	809	INTERGENIC	--	--	--
scaffold1643_P2_204405	scaffold1643	204405	TCC/TC	TGCGAAATCGCAGTTG TTAC	ACAAATGGAGGGACGA TGAA	60.3	712	INTERGENIC	--	--	--
scaffold1643_P2_207870	scaffold1643	207870	TTAT/TT	CGAATATTGCTTTTCAA AACACC	GGCGAAAACAAGATTT CCAT	59.0	327	INTERGENIC	--	--	--
scaffold1643_P2_207973	scaffold1643	207973	TAAA/TAAAA	CGAATATTGCTTTTCAA AACACC	GGCGAAAACAAGATTT CCAT	59.0	327	INTERGENIC	--	--	--
scaffold1643_P2_210197	scaffold1643	210197	ATTTTT/ATTTTTTT	AATACAGCGAAAAAGCT CGC	TCGAAAAGAAATCGAG ACCG	60.3	710	INTERGENIC	--	--	--
scaffold1643_P2_210297	scaffold1643	210297	ATTTT/ATTT	AATACAGCGAAAAAGCT CGC	TCGAAAAGAAATCGAG ACCG	60.3	710	INTERGENIC	--	--	--
scaffold1643_P2_210380	scaffold1643	210380	CTTT/CTTTT	AATACAGCGAAAAAGCT CGC	TCGAAAAGAAATCGAG ACCG	60.3	710	INTERGENIC	--	--	--
scaffold1643_P2_210540	scaffold1643	210540	ATTTTTTT/ATTTTTTTTT	CACACAATCACAAATT TTCTCAA	AAAGAAATCGAGACCG TTGC	59.3	419	INTERGENIC	--	--	--
scaffold1643_P2_211018	scaffold1643	211018	TGTA/T	TTCTCTCCACCGCTAAC TCG	ATGGTGGGGTATGAA TGAA	59.9	611	INTERGENIC	--	--	--
scaffold1643_P2_211096	scaffold1643	211096	TTCT/TT	ACGGTCTCGATTCTTT TCG	ATGGTGGGGTATGAA TGAA	59.9	585	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
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scaffold1643_P2_211215	scaffold1643	211215	G/GT	TTCATTACATACCCAC CAT	CTCTCAGCTTTCTCC CCTC	60.5	222	INTERGENIC	--	--	--
scaffold1643_P2_213932	scaffold1643	213932	TA/TATAA	CGGATTCGTCTCTGA AGC	CATTGGTGCAAGTTGT CGTC	60.2	662	INTERGENIC	--	--	--
scaffold1643_P2_4999	scaffold1643	4999	CAAAAAA/CAAAAAA	CTCCCAGCCTCTGTAC TGG	AGGCAAGCCATTGAAA GAAA	59.8	449	INTERGENIC	--	--	--
scaffold1644_P2_10189	scaffold1644	10189	CTTTTTT/CTTTTTTT	GTTTCGTTATGGTCGC CAGT	GGGAGGCAACCCAATT TTAT	60.0	244	INTERGENIC	--	--	--
scaffold1651_P2_11506	scaffold1651	11506	GTTTTTTTTTTT/GTTTTTTTTTT	TGACATGTTGGCATCG TTT	ATCATGCTCCAAGGTT GCTT	59.7	784	INTERGENIC	--	--	--
scaffold1651_P2_11557	scaffold1651	11557	GAAAAAAAAA/GAAAAAAAAA	TTCTAAGTTGGGGTG GTGG	ATCATGCTCCAAGGTT GCTT	59.7	426	INTERGENIC	--	--	--
scaffold1651_P2_11966	scaffold1651	11966	ATTTTTT/ATTTTTTT	AAATTGTTGCTTGGGA CAA	GTCCGAATTTGTTTT GGTG	60.2	290	INTERGENIC	--	--	--
scaffold1651_P2_12361	scaffold1651	12361	GTTTTTTT/GTTTTTTTT	AAATTGTTGCTTGGGA CAA	TGACGTCATGACCTGC ATT	60.1	882	INTERGENIC	--	--	--
scaffold1651_P2_13370	scaffold1651	13370	TATTAATTAATTAATT/TATTAATTAATTA ATTAATT	CCTTGAGTTCGACACT GGT	TGGTGACCGTGAATT GTTG	57.9	337	INTERGENIC	--	--	--
scaffold1651_P2_13586	scaffold1651	13586	CAAAAAA/CAAAAAA	CCTTGAGTTCGACACT GGT	CAGGATGTGAACCGTA AATCTTC	59.9	547	INTERGENIC	--	--	--
scaffold1651_P2_13892	scaffold1651	13892	TAAAAA/TAAAAA	CAACAATTACAGGTCA CCA	CACTTTCGATCTCTCCA TTTTT	57.5	652	INTERGENIC	--	--	--
scaffold1651_P2_14250	scaffold1651	14250	ATATTTTAAGGTATTTTAAGGTAT/ATAT TTTAAGGTAT	AAAAATGGAGAGATCG AAAGTG	TTGATGCTAGGGGGAT TTTG	59.9	553	INTERGENIC	--	--	--

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scaffold1651_P2_16309	scaffold1651	16309	CATA/CATATA	TGCCAAGCATTGTTTC CAC	TCCCTTTTACATCCCT CCC	60.1	497	INTERGENIC	--	--	--
scaffold1651_P2_16500	scaffold1651	16500	CA/CAAA	GGGAAGGGATGTAAAA GGGA	ACGTCGTGATTGTGC TTCA	60.3	231	INTERGENIC	--	--	--
scaffold1651_P2_16843	scaffold1651	16843	GACC/GACCACC	GGGAAGGGATGTAAAA GGGA	AAAATCTGGCCTGGAC CTG	60.1	510	INTERGENIC	--	--	--
scaffold1651_P2_16898	scaffold1651	16898	TAAA/TAAA	TAAGCATGGTATGGG GAAA	CTAAGCCTGAGTTGG CCTG	60.0	921	INTERGENIC	--	--	--
scaffold1651_P2_17729	scaffold1651	17729	GATAT/GATATAT	TCTCTTGGGTGATTTT CGG	ACACCCAAACTCTGTT GGC	60.0	561	INTERGENIC	--	--	--
scaffold1651_P2_18006	scaffold1651	18006	A/AG	TGATTGGGGCATACA TTTT	ACACCCAAACTCTGTT GGC	60.0	171	INTERGENIC	--	--	--
scaffold1651_P2_18574	scaffold1651	18574	CA/C	CTGGATTGGAATTGTCA GCA	TCACGCACACTCCATC TCTC	60.0	679	INTERGENIC	--	--	--
scaffold1651_P2_18823	scaffold1651	18823	AG/A	GAGAGATGGAGTGTGC GTGA	AACCCAGAACTCGAGC TGAA	60.0	461	INTERGENIC	--	--	--
scaffold1651_P2_22832	scaffold1651	22832	CA/CAAAA	GTCCAGCAAAAGTCGT GTGA	TTGAAGGCATTCTCCA TCC	60.0	675	INTERGENIC	--	--	--
scaffold1651_P2_5134	scaffold1651	5134	GAAAAAA/GAAAAA	ATGGCACAAGTCTCCC AACT	GGGGCCACTTAGGGT GTAT	60.1	276	INTERGENIC	--	--	--
scaffold1651_P2_5742	scaffold1651	5742	TTGTGATGTGA/TTGTGATGTGATGTGA TGTGA	CCCAATGAAATGATCG GAAC	CCGCAATGCACACAT AAAC	60.0	881	INTERGENIC	--	--	--
scaffold1651_P2_7041	scaffold1651	7041	ATTT/ATT	TGGTTTTAAAGTTTGG TGCG	AACCAACAGATCACAT GGCA	60.0	484	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1651_P2_9845	scaffold1651	9845	TAAAAAAAAA/TAAAAAAAAA	AACGGAGGAAGAACAT GTGG	TCACACAAGCATTCCC AAAA	60.1	364	DRR	Ca_27410	--	--
scaffold1654_P2_60242	scaffold1654	60242	ATTTTTTTTT/ATTTTTTTTT	CCAGACATGTTGAACC CTTG	ATTCAAACCCGAAAGT GGTG	59.8	478	INTERGENIC	--	--	--
scaffold1659_P2_269627	scaffold1659	269627	AATATATATATATATATATAT/AATATATA TATATATATATATATAT	CACCGTAGTGTGGTGG TGAG	CGGTGAATCCTTTACG GAGA	60.1	531	INTERGENIC	--	--	--
scaffold1659_P2_317032	scaffold1659	317032	TTATATATATATATATATATATA/TTAT ATATATATATATATATATATA	TCCATTGGCGACACATA AAA	CCTCCCAAAGGCATTA ACAA	59.9	615	INTERGENIC	--	--	--
scaffold1659_P2_366802	scaffold1659	366802	CATATATATATATATATATATATATAT ATATATATATA/CATATATATATATATATA TATATATATATATATATATATATATAT ATATATA	CGCGCAAATTGTCAGA TAAA	CGCAATATGTAGTACC CGCA	59.6	677	INTERGENIC	--	--	--
scaffold1659_P2_87919	scaffold1659	87919	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	TCCCCAAAAGTAAACC CCT	GCTGTCCCAACCACT TTGT	60.0	556	INTERGENIC	--	--	--
scaffold1659_P2_96268	scaffold1659	96268	GTTT/GTTTT	TTGCTCACTACCACGCT ACG	CACCAAAGCACATCCA TTCA	60.5	382	INTERGENIC	--	--	--
scaffold166_P2_12607	scaffold166	12607	C/CGCCA	CCAAGCAACAACAACC CTT	CATCCCGTTGGAGAAC AACT	60.0	523	INTRON	Ca_26425	--	GRAS
scaffold166_P2_156163	scaffold166	156163	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATAT AT	GTACGAAAATCGCCCA AAAA	TTTCCCTCCAAACACAC ACA	60.0	530	INTERGENIC	--	--	--
scaffold166_P2_227311	scaffold166	227311	TTATATATATATATATATATATATATA TA/TTATATATATATATATATATATATA TATATATA	CATCTCGTGGTCATCA TTG	TGATTCTGTAAACACC CAAA	58.7	551	INTERGENIC	--	--	--
scaffold166_P2_24696	scaffold166	24696	AATATATATATATATATATATATA/AAT ATATATATATATATATATATATA	GCATTCTACCGTCAAAA TGAAA	TTTTCTGTTGCAAACT GTCTGA	59.9	696	INTERGENIC	--	--	--
scaffold166_P2_251960	scaffold166	251960	CTTTTTT/CTTTTTT	CTTGCCCATACATTGCA CAC	GAGGACTGGACGTACC CTTG	59.6	905	DRR	Ca_26429	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold166_P2_55169	scaffold166	55169	ATTTTTTTTTTT/ATTTTTTTTTT	TGGTGGGGTACTTGT TCACT	GAAGCCCGAGTTTACA AAGG	58.8	507	INTERGENIC	--	--	--
scaffold1661_P2_39949	scaffold1661	39949	AGG/AG	TTCTCATAACGAGGGG CATC	ATGCAGCTCAAAAGCC CTTA	60.0	270	INTERGENIC	--	--	--
scaffold1661_P2_65252	scaffold1661	65252	TTTATTATTATTATTATTATTATT ATTATT/TTTATTATTATTATTATTAT TATTATTATTATTATTATT	GGCTAGACGAGTTCGA CGAT	GGAGTTGCCTTGTGG AAAA	60.1	843	INTERGENIC	--	--	--
scaffold1661_P2_70196	scaffold1661	70196	A/AGT	CAGCTTATGCGGAGAC AAGA	AACATGGACAACAACG ACGA	60.0	303	INTRON	Ca_27588	--	--
scaffold1661_P2_91058	scaffold1661	91058	AATATATATATATAT/AATATATATATA TATATAT	GTTGGATCCCTAGCAC CGTA	AAAAATGAAAAGGGGA GCGT	59.9	905	INTERGENIC	--	--	--
scaffold1661_P2_95250	scaffold1661	95250	CATATATATATATATATATATA/CATA TATATATATATATATATATATATATA ATA	TGAAGATGATGTCGTAA GGAGG	CGTCGAACCTGTTAGC CCT	60.4	773	INTERGENIC	--	--	--
scaffold1664_P2_59110	scaffold1664	59110	AAAAGAGAAAGAGAAAGAGAAAGAGA/ AAAAGAGAAAGAGAAAGAGAGA	TTGTTTGACCAACATT CCA	TGAATTGGGTCGGTGA ATTT	60.2	294	INTERGENIC	--	--	--
scaffold1664_P2_9660	scaffold1664	9660	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	TGGTCACCACGTGTCA TTTT	ATGATTGCTTCGGATTA CGG	59.9	584	INTERGENIC	--	--	--
scaffold167_P2_12696	scaffold167	12696	AT/ATCAATATGTTTGT	TTTTTGTTTGTGCCATT GGA	AGGGAGGACGAAATG ACCT	59.9	465	INTERGENIC	--	--	--
scaffold167_P2_133725	scaffold167	133725	GATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT/G ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTAT	TTTCTTGTTTCTCAACC CCG	TTCGCTCCTCTTTATGG TGG	60.2	650	INTERGENIC	--	--	--
scaffold167_P2_29049	scaffold167	29049	CTTT/CTT	TTACCGGCTATTCTAGC CTC	TCCCTTAATTTCTGTC CCT	59.9	508	INTERGENIC	--	--	--
scaffold167_P2_297313	scaffold167	297313	T/TA	CCGTCAAACACAAACCT CCT	TGGTTTTACGCCAAC ATTA	60.0	661	DRR	Ca_24156	C	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold167_P2_338487	scaffold167	338487	GATATATATATATATATATATATAT ATA/GATATATATATATATATATATA	TTTGCAACATCACAAAC ACA	TTACAGCGCTTTTCCAA CAA	59.5	707	INTERGENIC	--	--	--
scaffold167_P2_342564	scaffold167	342564	CATATATATATATA/CATATATATATA TATATA	GCGCAAATTGCCAGAT AGAT	CGACATTGTAGCACCC CTTT	60.0	508	DRR	Ca_24157	--	--
scaffold167_P2_353330	scaffold167	353330	A/AGTTCTCCCATC	CATGCAGTTTCAAATGG TGC	TGCTAAGTTGATGCAG CAGG	60.2	472	INTERGENIC	--	--	--
scaffold167_P2_376893	scaffold167	376893	CATATATATAT/CATATATATATAT	CCGTTATTTCGTGCCTTT TGT	ATTGGAAGAAATGGGG AACC	60.0	650	INTERGENIC	--	--	--
scaffold1679_P2_2481	scaffold1679	2481	CGGGTTTAGGGTTTAGGGTTTAGGGTT /CGGGTTTAGGGTTTAGGGTT	TTACGGTTTTGCGTTTA GGG	AACCAAAATCCGACAC CCTT	60.6	503	INTERGENIC	--	--	--
scaffold1681_P2_934	scaffold1681	934	ATTTT/ATTTT	GAGATTTTCGTACCACC CGA	TCCAGATGAAATCGAG GACC	60.0	797	INTERGENIC	--	--	--
scaffold1682_P2_8324	scaffold1682	8324	TTGTGT/TTGT	AGGTCGTTTTTCGTCTT CCT	CACCCAATGACACCAA TGAA	60.2	693	INTERGENIC	--	--	--
scaffold1684_P2_69381	scaffold1684	69381	TAA/TA	CGGGTTGTACAAAATC GCT	CAGCGATGGCTAGTGT TTGA	60.0	458	INTERGENIC	--	--	--
scaffold1687_P2_165898	scaffold1687	165898	ATAGTA/ATA	TACCCACACTCATGCTC CAA	GGTTGTAGAGAAAACA TCCAGACA	59.6	428	INTERGENIC	--	--	--
scaffold1687_P2_41522	scaffold1687	41522	CAAAAAAAAA/CAAAAAAAAAA	CGCATCAATCAAAATG TCG	TGTTTTCCGTCTCCAAT TCC	59.9	775	INTERGENIC	--	--	--
scaffold1687_P2_74331	scaffold1687	74331	T/TTGAACCG	CTGCCGAACCCCAACT ATAA	CGTATTTGCAACAAGC TGGA	59.9	481	INTERGENIC	--	--	--
scaffold1696_P2_4415	scaffold1696	4415	ATTTTTTTTT/ATTTTTTTTT	ATAACCCGAACCTCAAA CCC	TGTTTGAAATATGACGC CGA	60.1	645	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1696_P2_5390	scaffold1696	5390	TGTTTCGGGTTTCGGGTTTCG/TGTTTC GGGTTTCG	TTGAAGTACGAAATCG CCC	TTCGTTATGCGGTCAA ACCT	60.5	813	INTERGENIC	--	--	--
scaffold17_P2_137838	scaffold17	137838	GTTTTT/GTTTT	TCTCTCATTGTTTCGCA TCG	CGAACCAATTGCTCTC CATT	60.1	632	INTERGENIC	--	--	--
scaffold17_P2_204969	scaffold17	204969	T/TAGCAAGA	CAACTTGCACTCTTGTT GGC	TCGATTTCCCAATGGAT TTT	59.2	380	INTERGENIC	--	--	--
scaffold17_P2_48815	scaffold17	48815	TTATAT/TTAT	CCGACCAAGCAATCAG AAAT	AGGAAGAGTGGAGTTG CGAA	60.0	590	INTERGENIC	--	--	--
scaffold1701_P2_101096	scaffold1701	101096	TT/TTCT	AGGTCATTTTCGTCTC CCT	GCCCTCAGATGAGAGT CAGG	59.9	515	INTERGENIC	--	--	--
scaffold1703_P2_131019	scaffold1703	131019	TGAAGAAGAAGAAGAAGAAG/TGA AGAAGAAGAAGAAGAAGAAG	CCAAAACGATTTCCCTT CAA	TTTCCAAAAGTGACCG AACC	59.9	234	INTERGENIC	--	--	--
scaffold1703_P2_198406	scaffold1703	198406	TC/T	TGTTATTCATAGCCTCG GCC	ATGGGAATGCTTGACT GGAG	60.1	716	INTERGENIC	--	--	--
scaffold1703_P2_201168	scaffold1703	201168	AG/AGG	CTTCGCGATTCTTCGTT TTC	CCGGATGGTTATTTGT CGAT	59.6	496	INTERGENIC	--	--	--
scaffold1703_P2_243731	scaffold1703	243731	TTATATATATATATATATAT/TTATATAT ATATATATATATATA	GAGAAAGGAGGGAATT TGGC	TATTTTGGATTTTGGCT CGG	59.9	296	INTERGENIC	--	--	--
scaffold1703_P2_299119	scaffold1703	299119	TAAAAAAAAA/TAAAAAAAAA	GGGCTCACCCACATAT TTTC	TTGCGATGCTTAGATT CTCC	59.4	732	INTERGENIC	--	--	--
scaffold1703_P2_32747	scaffold1703	32747	CTTTTTTTTTTT/CTTTTTTTTTTT	TGCCTTTACCTTGCTC TCT	GTACGGGTTCTGTTGA TTCG	60.4	497	INTERGENIC	--	--	--
scaffold1703_P2_74830	scaffold1703	74830	GATATATATATATATATATATATATAT ATATATAT/GATATATATATATATATATAT ATATATATATATATATAT	GAGAAACGAGCATGCA TCAA	GATTCCCCTAACCAAC AGCA	59.9	577	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1704_P2_11771	scaffold1704	11771	AATATA/AATATATA	AACGATCAAGAGTCGC AAAA	ACCCTAAACCCTAAAG CCCA	59.8	347	INTERGENIC	--	--	--
scaffold1704_P2_9054	scaffold1704	9054	ATTTTTT/ATTTTTT	TGTGACATCTCTGCCTC CTG	AACATCAGTCAAGCAC ACAAAAA	59.7	356	INTERGENIC	--	--	--
scaffold1704_P2_91879	scaffold1704	91879	CAAA/CAA	TCAACGATTTTCCAAAA CGAC	ATGCCGCGGTTTACTT AATG	60.0	116	INTERGENIC	--	--	--
scaffold1704_P2_9435	scaffold1704	9435	GAAAAAAA/GAAAAAAA	TTTTTGTGTGCTTGACT GATGTT	GAAATTTGGACGAAAA CGGA	59.9	715	INTERGENIC	--	--	--
scaffold1706_P2_77077	scaffold1706	77077	A/AT	AACGTACTGCCTATCAC GGG	TTCCGTGGAATTTGAAA ACC	59.8	740	INTERGENIC	--	--	--
scaffold1706_P2_85712	scaffold1706	85712	ATTTTTTTTT/ATTTTTTTTT	ACACCCCAACAATACGT GGT	ATAAAGCGCCGCTGAA GTAA	60.0	832	INTERGENIC	--	--	--
scaffold1708_P2_11531	scaffold1708	11531	AATATAATTTATT/AATATAATTTATTATA TAATTTATT	TCACCTTCTTCGTTGTT TGC	GCGCATAAGTCACAAG TCCA	59.9	734	INTERGENIC	--	--	--
scaffold1708_P2_11960	scaffold1708	11960	ATTTTTT/ATTTTTT	TGAGTTGCTTGTCAGC CTTG	TGGTACAACCACAAATA GGTAAGG	59.3	444	INTERGENIC	--	--	--
scaffold1708_P2_12799	scaffold1708	12799	TA/T	TCTGATGGTTAAAGTAT TGGTGGA	GAACATGTGAAGGAGA CACAATTC	59.9	409	INTERGENIC	--	--	--
scaffold1708_P2_13060	scaffold1708	13060	ATTTTTT/ATTTTTT	GAATTGTGTCCTTCA CATGTTC	GCAGCAACGTCAAGAA CTCA	60.2	523	INTERGENIC	--	--	--
scaffold1708_P2_14932	scaffold1708	14932	GTTT/GT	GCCATTTGGTGTTG ATAG	CTGCTTGAGGACAAGC AACA	60.2	901	INTERGENIC	--	--	--
scaffold1708_P2_15520	scaffold1708	15520	TAAAAAAA/TAAAAAAA	GCTTGTCTCAAGCAG CAAT	TTTGGTGAGATTGCGT GAAG	59.8	212	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1708_P2_16189	scaffold1708	16189	TAAAAA/TAAAAAA	CTCAAAGGGGCTAGCA AATG	AGGTGTGATCTTTGG GCCT	60.9	196	INTERGENIC	--	--	--
scaffold1708_P2_26035	scaffold1708	26035	AAGTTAATA/AAGTTAATAGTTAATA	TATTTTGGATTTTGGCT CGG	TTGATCAGGGGAGGAA GATG	60.0	393	INTERGENIC	--	--	--
scaffold1708_P2_36464	scaffold1708	36464	TAA/TA	CGGGATGGTGGCATAA TATC	TTCCCGGTAGCACCTA TCAG	60.1	436	INTERGENIC	--	--	--
scaffold1708_P2_40978	scaffold1708	40978	ATTTTTTTTT/ATTTTTTTTT	GACACCCCTAACGCCA AAAA	GCGTTTGCGAAATCGT AGTT	60.3	395	INTERGENIC	--	--	--
scaffold1708_P2_42594	scaffold1708	42594	AATATATATATATATATATATA/AATAT ATATATATATATA	TTTTTCCCCACAATGGT GAT	AGGAAATCTAAGTGC CATGC	58.3	547	INTERGENIC	--	--	--
scaffold1708_P2_49501	scaffold1708	49501	AATATATATATATA/AATATATATATA	TTCCAACAATGACGATC TGC	TTTGAACGAAATTGAAA ACCG	60.0	659	INTERGENIC	--	--	--
scaffold1708_P2_5816	scaffold1708	5816	GTTTTTT/GTTTTTTT	ACCCACATGGTTGAG GTAA	CAAATTTGCGCACACTT TCTT	60.3	569	INTERGENIC	--	--	--
scaffold1708_P2_66436	scaffold1708	66436	ATTTTTTTTT/ATTTTTTTTT	TGTGATAAATTTGGTGT TGTTTCG	TGGTTTTGAGCCATTT GTCA	60.1	686	INTERGENIC	--	--	--
scaffold1708_P2_68435	scaffold1708	68435	TCC/TCCC	GAAAAAGCGCTGTAAT GGC	CATTGAGACGTGAGC AAAA	60.0	510	DRR	Ca_27642	--	--
scaffold1708_P2_87295	scaffold1708	87295	AG/A	TGACTGTTTGC GTGTC TCC	ATCCCATGGTGGGAAT TGTA	59.9	336	INTERGENIC	--	--	--
scaffold1708_P2_87311	scaffold1708	87311	ATTTTT/ATTTTT	TGACTGTTTGC GTGTC TCC	ATCCCATGGTGGGAAT TGTA	59.9	336	INTERGENIC	--	--	--
scaffold1708_P2_88337	scaffold1708	88337	AATATATATATATA/AATATATATATAT ATA	TTTGCCACTGACTTGCT TTG	GAGAAAGGAGGGAATT TGGC	60.0	567	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1708_P2_88410	scaffold1708	88410	GAAAGGAAAAGGAAAAGGAAAAG/GAAG GAAAAGGAAAAGGAAAAGGAAAAG	TTTGCCACTGACTTGCT TTG	GAGAAAGGAGGGAATT TGCC	60.0	567	INTERGENIC	--	--	--
scaffold1709_P2_3728	scaffold1709	3728	ACAATCGATTGTCAATCGATT/ACAAT CGATT	TTTGCCAAATCGATTAC CTC	GCATAAGTCAGTGGCA CCCT	60.1	152	INTERGENIC	--	--	--
scaffold171_P2_107206	scaffold171	107206	ATT/ATTT	ATTTCCACATCACCCA AAA	AAAATCATTATTACCA TAAGTGGA	58.0	458	INTERGENIC	--	--	--
scaffold171_P2_109052	scaffold171	109052	T/TG	TCAATTGCACAAACAAT TAGTTAAAA	TGCGAGCATGAGAAGT TGTT	59.6	144	INTERGENIC	--	--	--
scaffold171_P2_122262	scaffold171	122262	GTTTTT/GTTTTTT	GAAGTTGAGCGCAATG TTGA	ATAAAGGGTGACGTG GCAG	60.0	297	INTERGENIC	--	--	--
scaffold171_P2_125471	scaffold171	125471	A/AT	TCCAATCGATTTGCTT GTT	CCAAAAATTGGAGGATG TGCT	59.9	576	INTERGENIC	--	--	--
scaffold171_P2_130237	scaffold171	130237	GAA/GAAAA	CATGCGTGTCTAGGCA TTTG	TGAATTCATGCCAGC ATAA	60.0	341	INTERGENIC	--	--	--
scaffold171_P2_140695	scaffold171	140695	A/AG	TTGTTTGGCATTTCAC AGG	GGTCCCTCTCCCTCC ATAC	59.8	166	INTERGENIC	--	--	--
scaffold171_P2_150122	scaffold171	150122	CAATAATAATAATAAT/CAATAATAA TAATAAT	CGAGTTGAGGTTCTTTC GGT	GGCACAGTGGGATATT GCTT	60.0	770	INTERGENIC	--	--	--
scaffold171_P2_190541	scaffold171	190541	GAA/GAAA	CTCTGATCAGCTCCATT CCC	CTAGGGCTCCTCCTTC GACT	60.0	160	CDS (FRAME SHIFT)	Ca_25949	--	--
scaffold171_P2_198627	scaffold171	198627	AACACACACACACACAC/AACACACA CACACACACACAC	CCCGTGTTTGAAACTTT TATTT	TGCTTGCTCTCCATTAG GGG	60.1	450	INTERGENIC	--	--	--
scaffold171_P2_214990	scaffold171	214990	ATTTTTTTTT/ATTTTTTTTT	GTGGGAGGTGCATTCT GATT	AAGGAGTACCACCCCA TTCC	60.1	465	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1718_P2_51267	scaffold1718	51267	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATA A	GCGGAGAGAGACATTG TGGT	TGCCACCCCTTTCTCT TAT	58.6	805	INTERGENIC	--	--	--
scaffold1722_P2_108250	scaffold1722	108250	TA/TAATAATAATA	CAGCAGAACCTGAAGC AACA	TTTGCGACGTTTGATC GTTA	60.3	616	INTERGENIC	--	--	--
scaffold1722_P2_109185	scaffold1722	109185	GAAAAAAAA/GAAAAAAAA	TAGGATGAAATCCCC ACA	TCCTCTTTGATTTTCAG CCC	59.2	416	INTERGENIC	--	--	--
scaffold1722_P2_132942	scaffold1722	132942	TGG/TG	ATGGTGGATACTTGGG TGGG	CCCTGTAAGAAACGTG CCAT	60.0	206	INTERGENIC	--	--	--
scaffold1722_P2_65936	scaffold1722	65936	A/AT	CGTAGCGATAAACCT GGGA	CGGGCCAGAATACTTA CAGC	59.7	802	INTRON	Ca_26630	G	--
scaffold1722_P2_66255	scaffold1722	66255	TG/T	CCAGAGACGATGGACA AGGT	CGAACGGGTAGTTGAC GATT	60.0	649	CDS (FRAME SHIFT)	Ca_26630	G	--
scaffold1723_P2_1064	scaffold1723	1064	ACTCTC/ACTC	CCTCATAGTTTCGACT GGGA	GCGCCCTCACATAATG TTTT	60.0	467	INTERGENIC	--	--	--
scaffold1725_P2_28680	scaffold1725	28680	TTT/TTTATT	GATTCAGTGGCCGATTT TGT	TTGGACGAAAAAGGAG GAAA	59.7	917	INTERGENIC	--	--	--
scaffold1725_P2_40521	scaffold1725	40521	TCCCC/TCCCCC	GCTCGCCATTCACCTT TTC	ACATAATCAAGGGTCA GCCG	60.0	583	INTERGENIC	--	--	--
scaffold1725_P2_45623	scaffold1725	45623	ATATTATTATTATTATTATTATTATT AT/ATATTATTATTATTATTATTATTA TTATTATTATTAT	CGTCATGTCCATTTGTC TCG	TGGTTTGACAAGGGGA AGAC	59.9	313	INTERGENIC	--	--	--
scaffold1728_P2_16942	scaffold1728	16942	CATATAT/CATAT	GTATCAACAGCAGAGG GGGA	CGAAAAAGCGACAAAG AAGG	60.0	515	INTERGENIC	--	--	--
scaffold1729_P2_80183	scaffold1729	80183	TCCCCC/TCCCCC	TGGCCATCTCCCACTC TAC	TGGGAAAGCTTCAAAA TTGC	60.2	754	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1730_P2_100035	scaffold1730	100035	TAAAAAAAAA/TAAAAAAAAA	ACGGGACGGCTATCAG TATG	GGCGTAATTGCACATT CCAT	60.7	612	INTERGENIC	--	--	--
scaffold1730_P2_118697	scaffold1730	118697	G/GCATAACAATA	ATGCAACCACCTTTGTA GCC	GCACTCTTCCAACACC AACA	59.7	692	INTERGENIC	--	--	--
scaffold1730_P2_124256	scaffold1730	124256	AATATATATATAT/AATATATATAT	CGACTCTCACAACGAG TGGA	TTGGAAGGAGCCCTTA CCTT	60.1	764	INTERGENIC	--	--	--
scaffold1730_P2_28639	scaffold1730	28639	AAATA/AA	CTACGTGAGGAGGATC TCGC	ACCACAATGTAAACACC CCGT	60.0	396	INTERGENIC	--	--	--
scaffold1730_P2_47298	scaffold1730	47298	TTTCTGTTTT/TTTCTGTTTTGAAATCTC TTCTGTTTT	GTAAGTGAAGCGCTTT CGC	ATTGGCAGACATCCAT TTCC	59.8	506	INTERGENIC	--	--	--
scaffold1730_P2_64331	scaffold1730	64331	ACATATGATTTTCATAT/ACATAT	TTGGATGTTTTCGCTTA CCA	CAAGTAGTGGTGAAC CGGG	60.4	882	INTERGENIC	--	--	--
scaffold1730_P2_67455	scaffold1730	67455	AATATATATA/AATATATATATA	CTTTTGATGCCCCGATT AAA	CAACACCGTTTTTCTCC GTT	60.0	539	INTERGENIC	--	--	--
scaffold1730_P2_67896	scaffold1730	67896	T/TCC	AACGGAGAAAAACGGT GTIG	TTGGAAGGAGCCCTTA CCTT	60.1	233	INTERGENIC	--	--	--
scaffold1730_P2_70178	scaffold1730	70178	TGGGG/TGGGGG	TGCCGAGAATATACCA GGG	GGAGGCATTGTTTCCT CAAA	60.1	484	INTERGENIC	--	--	--
scaffold1730_P2_84197	scaffold1730	84197	TAAAAAAAAA/TAAAAAAAAA	GCCTTTCTCAATTTGGG TCA	TTGATGGAAACAACA CCCA	59.8	584	INTERGENIC	--	--	--
scaffold1730_P2_87897	scaffold1730	87897	T/TTA	TTGAGGCGTCAAGCTA ATGA	CGAGCAACCCCAACT TAGA	60.2	707	INTERGENIC	--	--	--
scaffold1731_P2_39857	scaffold1731	39857	AATATATATATATATATAT/AATATATA TATATATATAT	ATGTTTTGGATTTTGGC TCG	GCACCGTGAGTAAATT CGGT	60.0	704	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold174_P2_111558	scaffold174	111558	TAAA/TAAAA	CCAATCAACATCATTC ATGC	ATTGGTGGTGCCTAA GTGG	59.9	556	INTERGENIC	--	--	--
scaffold174_P2_111791	scaffold174	111791	TGGGG/TGGG	CCGGATATAACAGCC ACAC	ATTGGTGGTGCCTAA GTGG	59.9	289	INTERGENIC	--	--	--
scaffold174_P2_11363	scaffold174	11363	CAAAAAAAAA/CAAAAAAAAA	TTATGTCGTTCTAGG GGC	TGTGTGCAATAGGGAT GGAA	59.9	744	INTERGENIC	--	--	--
scaffold174_P2_119537	scaffold174	119537	GTATATATAT/GTATATAT	AAAATGGTGTGTTTGT AAGCA	CAATAAGGCACATGTT CAAGC	58.3	617	INTERGENIC	--	--	--
scaffold174_P2_128651	scaffold174	128651	CAAAAA/CAAAAAA	GTTTTCCACCACCCCA TGT	GGGGTGAGAGAGATG GTGAA	60.0	949	INTERGENIC	--	--	--
scaffold174_P2_136798	scaffold174	136798	TG/T	GAAGGTAGACGTTGG GACA	CTGTGGACGACCTTT GGAT	60.0	585	INTERGENIC	--	--	--
scaffold174_P2_140361	scaffold174	140361	TAAAAAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CGGGTGAATGTGGCTT TATT	TTTCTTGTTTGGACCC CTG	59.9	395	INTERGENIC	--	--	--
scaffold174_P2_159321	scaffold174	159321	ATTTTTTTTT/ATTTTTTTTTT	CTAACGAGTCTGCAAC GCAA	TGAAAGGTAATAATCG GTGCG	60.0	319	INTERGENIC	--	--	--
scaffold174_P2_169758	scaffold174	169758	CG/C	GTCATCACAGGAAG GGGA	TCGAAAGTTGGTGTGA AAAGC	60.3	326	INTERGENIC	--	--	--
scaffold174_P2_192515	scaffold174	192515	GTTTTTTTTT/GTTTTTTTTT	ATGGTGATGGTGTGAG GGAT	CTGGCTATATAACGG CGCT	59.4	691	INTERGENIC	--	--	--
scaffold174_P2_192838	scaffold174	192838	GATA/GATAAACATCTTTTCATA	GCGCCGTTTATATAGC CAGT	AAATCCACACTAACATT GAAAACTT	57.4	355	INTERGENIC	--	--	--
scaffold174_P2_19539	scaffold174	19539	GAAAAAAAAA/GAAAAAAAAA	CGATGATGTTGAAGT GGTG	GGGTGGCTGTGAACTT TTGT	60.0	225	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold174_P2_198856	scaffold174	198856	AC/A	AATACATGTTGCGGG ACTT	AGGATGTTGCATTGTT GGA	59.0	750	INTERGENIC	--	--	--
scaffold174_P2_199120	scaffold174	199120	A/AC	TGAGTGCAATCGTAACA CCAA	TGGTGAGTTGGGAATC TTCA	59.1	455	INTERGENIC	--	--	--
scaffold174_P2_201342	scaffold174	201342	CTTT/CT	TTGCAATATTTTCATT GCC	CAGGGACATTGTCAAC CCTT	59.8	579	INTERGENIC	--	--	--
scaffold174_P2_206548	scaffold174	206548	GCTCTCTCTCT/GCTCTCTCT	ACCAAAGCAAAAGCTCC TCA	TTATTACAGAGGTCTCT GGC	60.1	455	INTERGENIC	--	--	--
scaffold174_P2_209676	scaffold174	209676	TCCCC/TCCCCC	AAGATCTCCCATGCCTC CTT	TTGGAAAAACACGAGTG CAAG	59.9	365	INTERGENIC	--	--	--
scaffold174_P2_225469	scaffold174	225469	CAAAAAAA/CAAAAAAAA	GTGATTTGCACTTCAAG CGA	CCGAGGATGATGGTCA ATTT	59.8	653	INTERGENIC	--	--	--
scaffold174_P2_230745	scaffold174	230745	CTTTT/CTTTT	GAGCTTCACGTGCAAA GAAA	CCTTGACATGGCTTGT TCCT	60.1	702	INTERGENIC	--	--	--
scaffold174_P2_279541	scaffold174	279541	ATTTTTTT/ATTTTTTT	AATGTAGCAGCAACCA CCC	TTGATGCATTGCTTCT CGC	60.0	602	INTERGENIC	--	--	--
scaffold174_P2_284121	scaffold174	284121	ATATTTATTTATTTATTT/ATATT TTTATTTATTT	GCTTGAAGTTGTTGCC TCC	CCGAGTTTGCATGCCT TAAT	60.1	776	INTERGENIC	--	--	--
scaffold174_P2_306482	scaffold174	306482	CTTTTTTTTT/CTTTTTTTTT	GGTGCTTCCATCCTTA TGA	AGTTTTGGTGTCGTT CCG	60.0	590	DRR	Ca_21718	--	--
scaffold174_P2_320880	scaffold174	320880	GTTTTTTT/GTTTTTT	TCCCCAGTGAAGAAG AAGA	GGGTTTGATTGGTTA GACG	59.3	673	INTERGENIC	--	--	--
scaffold174_P2_327909	scaffold174	327909	ATTTTTTTTTT/ATTTTTTTTTTT	TGGCAACCACAAGGAG TGTA	TCAAAGGGAAAACAAT TGACA	59.5	661	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold174_P2_329032	scaffold174	329032	TAAAAAAAA/TAAAAAAAA	TAGCTCCCTTTGCGAT TCA	GGCAAACCGTGTGTTT CAC	60.4	545	INTERGENIC	--	--	--
scaffold174_P2_350136	scaffold174	350136	GAAAAGGTGTTTAA/GAA	GTGTTGTGATCCCTG CCT	GCCATCATTCTAAAGCA GCC	59.8	576	INTERGENIC	--	--	--
scaffold174_P2_351289	scaffold174	351289	CT/C	TTTAGTCAAGCTCCGCC ACT	AGAGCAAGGCCTCACA AAAA	60.0	836	INTERGENIC	--	--	--
scaffold174_P2_351626	scaffold174	351626	GAAAAAAAAA/GAAAAAAAAA	CCTCGATCACTTCGTCT ACCA	AGAGCAAGGCCTCACA AAAA	60.0	478	INTERGENIC	--	--	--
scaffold174_P2_358784	scaffold174	358784	TTATATATATATAT/TTATATATATATAT T	CAACGTTGTAGGTGAC GTGG	AGAGGGAGAAGTCGTT GCTG	59.6	756	INTERGENIC	--	--	--
scaffold174_P2_359071	scaffold174	359071	GAAAAAAAAA/GAAAAAAAAA	TCTGTCAATTGAGCTGC GAC	CGTCCATGAAAAGAGG GAAA	60.0	446	INTERGENIC	--	--	--
scaffold174_P2_360382	scaffold174	360382	TGAACAAATACGAACAAATACGAACA/T GAACAAATACGAACA	GGTGAAAGATTTTGTG GAACC	CCACAAGCCATGTTT CTCC	60.5	819	INTERGENIC	--	--	--
scaffold174_P2_373713	scaffold174	373713	TAAAAAAAAA/TAAAAAAAAA	AGTTGATTCGCTCATGG GTT	TCCACAAAGCACACATA CATCA	60.0	307	INTERGENIC	--	--	--
scaffold174_P2_376719	scaffold174	376719	ATTTTTTTTT/ATTTTTTTTTT	TCGAGTCCCAACACAT GGTA	GCAGAGGTCATGGGAT TCAT	59.9	503	INTERGENIC	--	--	--
scaffold174_P2_3876	scaffold174	3876	TAAAAAA/TAAAAAA	CATGCACTAGGAAAAAC AGTAGC	TTTCTTTCTTCAATTGG TGTGTTG	58.3	808	INTERGENIC	--	--	--
scaffold174_P2_4247	scaffold174	4247	GAAAAAAAA/GAAAAAAAA	AAAGCATCCATTACGAT AAAAACA	GGCTTGAAAGACGAA TCAA	60.2	456	INTERGENIC	--	--	--
scaffold174_P2_426186	scaffold174	426186	ATTTTTT/ATTTTTT	ATGTTGAAGTCGGGAA AACG	TCATGCGTTGTTGGAT CTGT	60.1	950	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold174_P2_426917	scaffold174	426917	CTTTTTTTTTTT/CTTTTTTTTTT	CCTTGCATTCAAATCCG ACT	CGGATGAAGATGTGGA GGTT	59.9	356	INTERGENIC	--	--	--
scaffold174_P2_434745	scaffold174	434745	CAA/CAAA	TTTTGCCATTCCAAGTT TCC	TTGATCTCGTGAAGTTT GCG	60.0	350	INTRON	Ca_21723	A	C3H
scaffold174_P2_436474	scaffold174	436474	CGT/C	GCACCTATTAGGGTTTG GCA	TTTAAGGCCTGGAGAG CAAA	60.0	180	INTRON	Ca_21723	A	C3H
scaffold174_P2_445968	scaffold174	445968	TC/T	CAAGCCTTTTAAAGCACT GCC	AAATTCCTACCATTTCC CCC	60.0	729	INTRON	Ca_21723	A	C3H
scaffold174_P2_448504	scaffold174	448504	ATGGCCTGGCCTGGCCTGGCCTGGCC T/ATGGCCTGGCCTGGCCTGGCCTGGC CTGGCCTGGCCTGGCCT	CATGGAAGTGGGATG GGAA	TGGAATGGCTATCGAA TATGG	59.8	315	INTRON	Ca_21723	A	C3H
scaffold174_P2_450819	scaffold174	450819	AT/A	AAGATCACCGTGCAAAA AGG	GCCTCCACGACCACTA CAAT	60.0	433	INTRON	Ca_21723	A	C3H
scaffold174_P2_468434	scaffold174	468434	GAA/GAAA	CCCCCTTTTGCATAAG TGA	CGACTCACGTTGAGGA GACA	60.0	492	DRR	Ca_21724	--	--
scaffold174_P2_486953	scaffold174	486953	GTTTT/GTTT	CAATTCGAATGTTTTG CGA	GTCCGTGTCCACCCA TAAC	60.1	103	INTERGENIC	--	--	--
scaffold174_P2_490723	scaffold174	490723	ATTTTT/ATTTTTT	GCCGTTGCCTTATTTG TGT	TTTTTCTTCAGCTTGAT GTTGAT	58.1	574	INTERGENIC	--	--	--
scaffold174_P2_491079	scaffold174	491079	TAAAAAAAAA/TAAAAAAAAA	CCGTCGTATTCAAAATA ATCCC	ACGACGACCAACATTC CTTC	60.0	764	INTERGENIC	--	--	--
scaffold174_P2_65721	scaffold174	65721	GTGATTCCT/GT	TGAGAACTGCAACCAA CTGC	TATCGCTACACCAATG CACC	59.6	440	INTERGENIC	--	--	--
scaffold174_P2_7119	scaffold174	7119	TAAAAAAAAA/TAAAAAAAAA	CCCCAACAAATGGAG TTGT	GGTCCTTAAAGGGTCA CTTGC	60.0	649	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold174_P2_82773	scaffold174	82773	AAGAG/AAG	AACCGTCAAGGGTGTG AAAG	ACTCTTGTGAAGCAT GGGG	60.1	506	INTRON	Ca_21709	--	--
scaffold1740_P2_2698	scaffold1740	2698	TAA/TA	CGATTGGCCATACAG GAAT	CCCATCTACATACCCAT CCG	60.0	498	INTERGENIC	--	--	--
scaffold1745_P2_1655	scaffold1745	1655	A/AAAACC	ACGCAAAACACGATTT GGA	TCATTTTCGTCTTCCCT TGG	60.0	376	INTERGENIC	--	--	--
scaffold1750_P2_124578	scaffold1750	124578	A/AGTGCGAAAT	TTACGATCACCAGCCAT GAA	TCCAAAGAGACCACTC TTCTCA	59.1	730	INTERGENIC	--	--	--
scaffold1750_P2_133035	scaffold1750	133035	AC/A	TGCAATACGAGATAG GGGG	ACAACATAAACCCAAA CGC	59.7	463	INTERGENIC	--	--	--
scaffold1750_P2_20087	scaffold1750	20087	ANNNNNNNNN/ANNN	GGGCTTGGTTGTGAGA GAGT	CAATTTAAGCAAACCTGG CCC	59.6	508	CDS (FRAME SHIFT)	Ca_24922	OE	WRKY
scaffold1750_P2_254547	scaffold1750	254547	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAAATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTATTA TAAATATTATTATTATTA	ATTAGGATGTCGAACG GTGG	ACCCTTTGGTTAGGGT GTGA	59.3	787	INTERGENIC	--	--	--
scaffold1751_P2_176898	scaffold1751	176898	GAAAAAAAAA/GAAAAAAAAA	TCAAACTTTTCCGCTG CTT	AAGAATAAGCCAGGG AGGA	60.0	419	INTERGENIC	--	--	--
scaffold1751_P2_273516	scaffold1751	273516	GTTATTATTATTATTATTATTATTAT TATTATTATTATTAT/GTTATTATTATTAT TATTATTATTATTATTATTATTATTATTA TTAT	CGCAATCTGAACAAAT ACGAA	CAACCTGACAACCCCA GACT	60.0	439	DRR	Ca_23934	--	--
scaffold1751_P2_293380	scaffold1751	293380	TAAAAAAAA/TAAAAAAAA	ACCGCCATTACATCAA AGC	GGCCAGACAACCTTTA CCAA	60.0	731	INTERGENIC	--	--	--
scaffold1751_P2_362076	scaffold1751	362076	ATTCTGCATT/ATTCTGCATTGTTCTGC ATT	CTGCATTTTGATGTGCT GCT	TGGTCTACCCGGTGT CTTC	60.0	428	INTERGENIC	--	--	--
scaffold1751_P2_403529	scaffold1751	403529	ATTTTTTT/ATTTTTTTT	TCCCTTTTGCTCTTGT TGG	GCATGCTAACATGGCT CTGA	60.0	783	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1751_P2_488458	scaffold1751	488458	ACC/AC	GGCTAAATTACATCTGT GGTCCC	AAGATCGGTTGTCTTG GGTG	60.0	599	INTERGENIC	--	--	--
scaffold1751_P2_572927	scaffold1751	572927	TAGACAGAC/TAGAC	TGTGATGGGCCAAAGT GTTA	ACAATCGGTGGAACGA ACTC	60.0	486	INTERGENIC	--	--	--
scaffold1751_P2_587681	scaffold1751	587681	TAATAACAATAA/TAATAA	ACCAGAGCATCCAAAC CAC	GTTAGTGCTCCATCCC CTCA	60.1	720	INTERGENIC	--	--	--
scaffold1754_P2_6786	scaffold1754	6786	CATAT/CAT	CGTAGAACCCGGAACA CAGT	GATGAAATCGAGGACC AGGA	60.0	213	INTERGENIC	--	--	--
scaffold1755_P2_33248	scaffold1755	33248	ACTCTCT/ACTCT	ATCAACGAAGCGAAGA GGAA	AAATCGGGATAATGCA CCTG	59.8	459	INTERGENIC	--	--	--
scaffold1755_P2_33561	scaffold1755	33561	CT/CTT	CAGGTGCATTATCCCG ATTT	CCAGGTTATGTCCCCA AATG	60.0	404	INTERGENIC	--	--	--
scaffold1756_P2_3220	scaffold1756	3220	CTATATATATATATATA/CTATATATAT ATATATATATATATATATATA	TCGTTTTTGAGTGAAC CAA	CGGTGTGCTAAGCATG AAAA	59.9	493	INTERGENIC	--	--	--
scaffold1756_P2_43727	scaffold1756	43727	CATATATATATATATATATATATAT/C ATATATATATATATATATATATATATA TATAT	GTTGGTTCCTAGCAC CGTA	GGCTGTTAGCCCAGTT TTTG	59.7	658	INTERGENIC	--	--	--
scaffold1756_P2_5242	scaffold1756	5242	CGGTA/C	GGTGAGTCTTTTGCC TCAA	TTGGATGAAGGCCATA AAGG	59.9	665	INTERGENIC	--	--	--
scaffold1757_P2_1167	scaffold1757	1167	CTT/CTTATT	AAGCGTACCTGTGGGA ATTG	TTAATGAGGGGCTGAA TTGG	59.9	259	INTERGENIC	--	--	--
scaffold1757_P2_3033	scaffold1757	3033	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	TGCAGCCACTCTTGTT AAA	CAAACGACGAAAACAC AAACA	59.7	156	INTERGENIC	--	--	--
scaffold1757_P2_47237	scaffold1757	47237	ATTTTTTTTTT/ATTTTTTTTTT	ATGCTACTGGACAACC CGAC	TGTCAGCTTAAATGTAT TTTTGTTTTT	58.8	594	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1773_P2_13836	scaffold1773	13836	TT/TTAATCGAGT	AATCCAATGACGCAAC ACA	GCCCAATTCGGGTTTT TAAT	60.0	655	INTERGENIC	--	--	--
scaffold1773_P2_16488	scaffold1773	16488	T/TA	TGGGTGCACAAGATTG GTTA	AGGTCAGTTTCGTCCT CCCT	60.1	667	INTERGENIC	--	--	--
scaffold1777_P2_21660	scaffold1777	21660	GT/GTT	ACTGTGCGTTAAGAATG GGG	GTGCAGTCTCTCACGG ACAA	60.0	772	INTERGENIC	--	--	--
scaffold1777_P2_282839	scaffold1777	282839	CCAGATGCA/CCA	TGCATCAGTATCTGCCT TCG	TTCTTTCAAGAGGTCG CAGC	60.7	329	DRR	Ca_23266	L	ERF
scaffold1777_P2_3257	scaffold1777	3257	C/CCCTAGG	ACAAAGCCTCTTGTCGA GGA	TGTTTGGTGTGGGACG AGTA	60.0	726	INTERGENIC	--	--	--
scaffold1777_P2_347891	scaffold1777	347891	ATTTTT/ATTTTTT	CCCAAACTCACGGGA TAAA	ATTTGGGCCCATCATA AACA	60.0	729	INTERGENIC	--	--	--
scaffold1777_P2_402796	scaffold1777	402796	CTTTTTTTTT/CTTTTTTTTTT	GGGTCCAAAGCCCAT AAGT	TATGGATGGTGAGCGT CAAA	60.1	594	INTERGENIC	--	--	--
scaffold1777_P2_402849	scaffold1777	402849	GAAAAAA/GAAAAAAA	TTAAGGCGTGAGATTT CGG	TATGGATGGTGAGCGT CAAA	60.1	309	INTERGENIC	--	--	--
scaffold1777_P2_47085	scaffold1777	47085	T/TAAAACTTG	CTCAACAGGGCAACT CATT	AGAGGCGAAACAAAGT GCAT	59.9	698	INTERGENIC	--	--	--
scaffold1777_P2_513940	scaffold1777	513940	C/CT	ATGCTGTCTTGCTG GATG	CGCTTTATTTCAATT GCTG	59.9	205	DRR	Ca_23271	BK	MYB_related
scaffold1777_P2_612675	scaffold1777	612675	CTATATATATATATATATATAT/CTAT ATATATATATATATATATATATATATA	CATGCATCCATATCCC TCT	CGGAACAACTCTTGCA GTGA	60.0	765	INTERGENIC	--	--	--
scaffold1777_P2_617759	scaffold1777	617759	AAT/AATATAT	AACCTCTGCATAAGAC GGA	TAAGCAGCGACGTCAA GAAA	59.8	598	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1777_P2_624284	scaffold1777	624284	A/ACTTT	TGGGGTTTAGGGTGTC ACAT	CCTTCCCTCAAACAA ACA	59.9	632	INTERGENIC	--	--	--
scaffold1778_P2_1269	scaffold1778	1269	C/CG	ACTTCCGCGCTAGATTT CAA	TCCTGGTCTCGATTT CATC	60.0	282	INTERGENIC	--	--	--
scaffold1779_P2_131414	scaffold1779	131414	CAAAAAAAAA/CAAAAAAAAA	TTGTTTCTCCCGATTT TGG	TTCCATATCACACGGAA CCA	59.8	275	INTERGENIC	--	--	--
scaffold1779_P2_131497	scaffold1779	131497	ATTTTTTTT/ATTTTTTT	TTGTTTCTCCCGATTT TGG	TTCCATATCACACGGAA CCA	59.8	275	INTERGENIC	--	--	--
scaffold1779_P2_132071	scaffold1779	132071	ATTTGTTGTTGTT/AT	ATGGAAAAGTGCTGCA AAAA	TTTCGCCCTCAATTTCA AAC	60.1	688	INTERGENIC	--	--	--
scaffold178_P2_605	scaffold178	605	AACACAC/AACAC	CAATAGGCCAAGGAAG GACA	ACATTGAGGCCATTTTC GTC	59.9	236	INTERGENIC	--	--	--
scaffold1783_P2_30730	scaffold1783	30730	CAAAAAAAAA/CAAAAAAAAA	GCCTACAGAGTGAGCA AGGG	AATGCAATGCAAAACCA CAA	60.0	633	INTERGENIC	--	--	--
scaffold1799_P2_8536	scaffold1799	8536	GTTTTTT/GTTTTT	AGGTCATTTTCGTCTC CCT	TGGATGCACAAGTTG GTTA	60.0	369	INTERGENIC	--	--	--
scaffold1802_P2_20448	scaffold1802	20448	CG/C	ATTTTCTCCGCTTCCGA TTT	AAGGAAGCGCACTAGC AGAG	59.9	816	INTERGENIC	--	--	--
scaffold1804_P2_176118	scaffold1804	176118	AATATATATATATATATATAT/ATA TATATATATATATATATATATAT	AGCCCTGTTTGATTCC TTT	TGAGCGTTCTAGTATC CACCTC	58.5	765	INTERGENIC	--	--	--
scaffold1804_P2_232610	scaffold1804	232610	AAAT/AAATTAAT	GGTGAGCCACCTTCAT TTGT	CATCATGTCAAGGCC TTCT	60.1	345	INTERGENIC	--	--	--
scaffold1804_P2_234281	scaffold1804	234281	TAAAAAAAA/TAAAAAAAA	TATCAATCGGAAAG GCTG	TGAACATGCAGGATTT CCAA	60.0	491	INTRON	Ca_25515	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1816_P2_53172	scaffold1816	53172	ACCC/ACC	TGTTGTTGACAAGCCTA CCA	TGTTGCTCATTTCTCTA CCA	60.2	502	INTERGENIC	--	--	--
scaffold1816_P2_53607	scaffold1816	53607	ATATATAATTTATATAATTTATATAATTT/ ATATATAATTTATATAATTT	TGGTGAGGAAATGAGC AACA	ACAAAATGAAGTGCG GAAG	60.1	679	INTERGENIC	--	--	--
scaffold1816_P2_56032	scaffold1816	56032	CAA/CAAA	TGGCATGCTTGTGTAC GAAT	CGAACCGTTAAACATG GCTT	60.0	456	INTERGENIC	--	--	--
scaffold1822_P2_17416	scaffold1822	17416	GTT/GTTT	AAGCACCAATTACCGA GGTG	TTGTATTTGGCGTGTG CGTA	60.0	720	INTERGENIC	--	--	--
scaffold1822_P2_17500	scaffold1822	17500	GTT/GTTT	AAGCACCAATTACCGA GGTG	TTGTATTTGGCGTGTG CGTA	60.0	720	INTERGENIC	--	--	--
scaffold1825_P2_121683	scaffold1825	121683	AATATATATATATATAT/AATATATATATA TAT	TGCAAAAGTGCCGATAA CAAG	TATTTTCCAACACCGCA ACA	60.0	803	INTERGENIC	--	--	--
scaffold1825_P2_148138	scaffold1825	148138	TA/T	GTTTTGGCGTTGGTTTC ACT	TGAATATGAGAGTTTG GGTTGTTC	59.4	539	INTERGENIC	--	--	--
scaffold1825_P2_148166	scaffold1825	148166	ATTTTTTTTTT/ATTTTTTTTT	GTTTTGGCGTTGGTTTC ACT	TACGTGTATATTCGCG CACC	59.6	904	INTERGENIC	--	--	--
scaffold1825_P2_2570	scaffold1825	2570	GTTT/GTTTT	AGCTTGGTCCCATGTTA AGC	TCCAATGTGATCCATG CAGT	59.9	133	INTERGENIC	--	--	--
scaffold1830_P2_4465	scaffold1830	4465	CTATA/CTA	CCAAGGGAAGACGAAA ATGA	TGCATCCAACAGGTGT GTTT	60.0	665	INTERGENIC	--	--	--
scaffold1835_P2_10086	scaffold1835	10086	GCC/GCCC	TGGTTAACCTTGCAACA CAA	GGATGCTTGAATTATG CCGT	59.9	672	INTERGENIC	--	--	--
scaffold1835_P2_11243	scaffold1835	11243	GAACAACAAC/GAACAAC	AAACGCATCCCGTAAAT CAG	CGATTGCCCTAGAAAA TGGA	60.0	610	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1835_P2_26452	scaffold1835	26452	TT/TTCTTATCAT	GCATCATGGGGATGAC CTAA	TTGGTTCCCTTAGAAT AGCC	59.5	592	URR	Ca_27910	--	--
scaffold1835_P2_8124	scaffold1835	8124	TCAACAACA/TCAACA	TCATTGCTCCTTTGAGT TGC	ATTGCCACAGATACC GCTC	60.1	453	INTERGENIC	--	--	--
scaffold1835_P2_8173	scaffold1835	8173	CAA/CA	TCATTGCTCCTTTGAGT TGC	ATTGCCACAGATACC GCTC	60.1	453	INTERGENIC	--	--	--
scaffold1835_P2_8463	scaffold1835	8463	TAAAAAAA/TAAAAAAA	GAGCGGTATCTGTGGC AAAT	CGGTTTGTGGCTTTCC TAAA	60.1	486	INTERGENIC	--	--	--
scaffold1835_P2_9432	scaffold1835	9432	T/TACAAGATCTC	AAATCAGGTCACCGAG CATT	TGTTTCGTTCAACACTT GGA	60.1	251	INTERGENIC	--	--	--
scaffold1844_P2_100029	scaffold1844	100029	ACCTTC/AC	TTTGCAAGGCAACCATA ACA	ATTGAAGGAGGGGAT CCAA	60.6	831	INTERGENIC	--	--	--
scaffold1844_P2_100460	scaffold1844	100460	AAAGAA/AAA	GGATCCCCTCCTTCAA TTC	AATTCGCCACAACCTC CTG	60.1	219	INTERGENIC	--	--	--
scaffold1844_P2_101225	scaffold1844	101225	CTTTTTTTTT/CTTTTTTTTT	CCTTCGCGAAACTCACT GAT	TTGGAATTCTTCGCAG CTT	60.0	116	INTERGENIC	--	--	--
scaffold1844_P2_108556	scaffold1844	108556	TAAAAAAA/TAAAAAAA	TCCTCCAGGAAAAGTT GCAT	TTGACAATTCGGTGTT GGA	59.9	725	DRR	Ca_24142	--	TALE
scaffold1844_P2_111038	scaffold1844	111038	ATTCTTC/ATTCTTCTC	AAAATCAGCGGTCGAA AGAA	ATGGGTGTGTGTGTC CTCA	59.8	730	INTRON	Ca_24143	--	--
scaffold1844_P2_115955	scaffold1844	115955	TAAAAAAA/TAAAAAAA	TGAACGCAATCAATTGG CTA	AGGAGTCAACAATGTT CCCG	60.0	695	INTERGENIC	--	--	--
scaffold1844_P2_123387	scaffold1844	123387	GTT/GTTT	TCGCGTAGTGGTAGCC TTCT	TCACAAGGGAGGCTCT ATGG	60.2	181	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1844_P2_136314	scaffold1844	136314	CTTTTTTT/CTTTTTTTTT	CCACCATTGAATCAAGT CCA	GACTCCATACAGGGCC GTC	60.5	354	INTERGENIC	--	--	--
scaffold1844_P2_146939	scaffold1844	146939	TT/TTAGACTTGT	CAATCAAAATTGGTCTA GCCG	TCAAAATGGGCCAGTG TTTT	60.3	274	INTERGENIC	--	--	--
scaffold1844_P2_150266	scaffold1844	150266	T/TG	CATGTAATAAAAAGTTT GGATCCTCAT	TTCCGATTCGAGAATT TTG	60.0	489	INTERGENIC	--	--	--
scaffold1844_P2_150525	scaffold1844	150525	TAAAAAA/TAAAAAAA	CAAAATTCTCGGAATCG GAA	AACAGACATGCGGGAA TTGT	60.4	408	INTERGENIC	--	--	--
scaffold1844_P2_150641	scaffold1844	150641	TAAAAA/TAAAAA	CAAAATTCTCGGAATCG GAA	AACAGACATGCGGGAA TTGT	60.4	408	INTERGENIC	--	--	--
scaffold1844_P2_150676	scaffold1844	150676	TC/T	CAAAATTCTCGGAATCG GAA	AACAGACATGCGGGAA TTGT	60.4	408	INTERGENIC	--	--	--
scaffold1844_P2_155952	scaffold1844	155952	GAAAAAAA/GAAAAAAA	TCAATCGGTTCTCTCA CAA	TTAAATGCGTTCGACA GATCA	59.3	857	DRR	Ca_24144	--	MYB_related
scaffold1844_P2_165772	scaffold1844	165772	TATATCTCTATATCTCTTAATATCTC	CCCCCTCTTAGGCGTA CTTC	CTTGTTCCGGTACCTC GTGT	60.0	340	INTERGENIC	--	--	--
scaffold1844_P2_166678	scaffold1844	166678	TC/T	GGCTAGACGAGTTCGA CGAC	CTAGATGGTCGCATTC TGGG	60.6	418	DRR	Ca_24145	--	--
scaffold1844_P2_166774	scaffold1844	166774	ATTATTATTATTTTATTATTAT/ATTATT ATTATTTTATTATTATTTTATTATTAT	GGCTAGACGAGTTCGA CGAC	CTAGATGGTCGCATTC TGGG	60.6	418	DRR	Ca_24145	--	--
scaffold1844_P2_167253	scaffold1844	167253	CAAAAA/CAAAA	CCCCAATTTGCGATCAA TAA	TCAAAACTAAGAAACT GCCAA	59.1	694	DRR	Ca_24145	--	--
scaffold1844_P2_167398	scaffold1844	167398	GTATATAT/GTATATATAT	CCCCAATTTGCGATCAA TAA	TCAAAACTAAGAAACT GCCAA	59.1	694	DRR	Ca_24145	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1844_P2_19975	scaffold1844	19975	TAAAAAAAA/TAAAAAAAAA	ACATTGGGACGAGATT CCTG	AGTTAAGAAACCGCGA ATGC	59.4	790	DRR	Ca_24132	--	--
scaffold1844_P2_2095	scaffold1844	2095	AAA/AAATAA	AACATGGGACGAGCTG TTTC	GGGATATTCAATAAGT GAAATTCAAA	58.8	923	INTERGENIC	--	--	--
scaffold1844_P2_2214	scaffold1844	2214	T/TC	TGCAATTATGATCATGC TTTATATG	GGGATATTCAATAAGT GAAATTCAAA	58.8	732	INTERGENIC	--	--	--
scaffold1844_P2_2526	scaffold1844	2526	CA/CAA	GACCTTTGAATTTATCT CTCTTTGAA	TTACAACATGTCAGGC CGAA	60.1	373	INTERGENIC	--	--	--
scaffold1844_P2_28058	scaffold1844	28058	TAAA/TAAAA	CACCAACTTTCTTTCCC CAA	TCTCCGCATTATCACAC ATCA	60.1	601	INTERGENIC	--	--	--
scaffold1844_P2_30819	scaffold1844	30819	GA/G	TGCACTTGCTTATTGGC TTG	CACAGAGAGCATGCCT GAAA	60.1	548	INTRON	Ca_24133	C	--
scaffold1844_P2_33600	scaffold1844	33600	CATA/CA	AAGGCATGACTCGTTG AACC	GGGGAGTTTGAGGGA GAAAC	59.9	497	INTRON	Ca_24133	C	--
scaffold1844_P2_40976	scaffold1844	40976	TAAAA/TAAAA	CACTCGCATTTGCATAG TTCA	ATTGGTGCTTTTGTG GAGG	60.0	578	DRR	Ca_24135	--	--
scaffold1844_P2_79070	scaffold1844	79070	GTTT/GTT	TCCACGATTTTCGATCC TTC	CCGTGTGAGTGCAATT TGAG	60.3	448	INTRON	Ca_24140	R	HD-ZIP
scaffold1844_P2_79139	scaffold1844	79139	CTTTTTTT/CTTTTTTT	TCCACGATTTTCGATCC TTC	CCGTGTGAGTGCAATT TGAG	60.3	448	INTRON	Ca_24140	R	HD-ZIP
scaffold1844_P2_79213	scaffold1844	79213	AGTGTGT/AGTGTGTGT	TCCACGATTTTCGATCC TTC	TCTAGATCCGTGTGAG TGCAA	59.5	455	INTRON	Ca_24140	R	HD-ZIP
scaffold1844_P2_80666	scaffold1844	80666	ATTTTT/ATTTTTTT	CCAGCGCATTTGGTTAA AGAT	TTGATATTGACATTGCG CGTTT	59.4	337	INTRON	Ca_24140	R	HD-ZIP

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1844_P2_94414	scaffold1844	94414	TTTATTAT/TTTATTATTAT	AAGATCGTGAAAGGGC TCAA	TGCTCTCACTACCACC ACCA	60.0	312	INTRON	Ca_24141	--	--
scaffold1844_P2_95332	scaffold1844	95332	AT/A	GAAAAAGCAATGGAAG CAGC	ACACATCACACCCGA TTCA	59.8	450	DRR	Ca_24141	--	--
scaffold1844_P2_99759	scaffold1844	99759	CTT/CT	TTGGAACGAAAAAGGAT TGC	GCTTTGACATCGATT CTCG	60.7	623	INTERGENIC	--	--	--
scaffold1845_P2_43558	scaffold1845	43558	ATTTTTTTTTT/ATTTTTTTTTTT	TTCAAACGAGCAAAAT GAAA	GCGGTGTGTGTCTCCA CTAC	59.2	499	INTERGENIC	--	--	--
scaffold1845_P2_47422	scaffold1845	47422	GA/G	GACCCAACGAGATTC GGTA	TTAGGTAGCATGGCC CAAC	60.0	505	INTERGENIC	--	--	--
scaffold1845_P2_71268	scaffold1845	71268	AATGTA/AA	CAAAGCGATGATCGAA CAAA	TGGATTAAGTTCGG GTCG	59.9	285	INTERGENIC	--	--	--
scaffold1845_P2_79079	scaffold1845	79079	GT/A/G	TGGTTTCAAGGCGATA TGG	TTTTAGTCATGTGAGCA TTGCAT	59.7	850	INTERGENIC	--	--	--
scaffold1845_P2_79664	scaffold1845	79664	ANNNNNNNNN/ANNN	CCTTGATATGCAATGCT CACA	ATCGAGCCTCTTGATAT GGC	59.3	336	INTERGENIC	--	--	--
scaffold1845_P2_83894	scaffold1845	83894	TAAAAA/TAAAAA	AAGTGCATTTGGCGTA TCC	CAACCTGTCTCATG GCAA	59.8	518	INTERGENIC	--	--	--
scaffold1845_P2_89877	scaffold1845	89877	ATTTTTTTTTT/ATTTTTTTTT	GCCTAGCCTGACATATT CCC	TTGCATCTCCAAACAAT CCA	60.0	502	INTERGENIC	--	--	--
scaffold1852_P2_101661	scaffold1852	101661	CTTTTTTTTTT/CCTTTTTTTTTTT	CCCATAATTTATGAAA ATGCCA	TCTCCTGTACCGAGGC TTGT	59.9	463	INTERGENIC	--	--	--
scaffold1852_P2_103209	scaffold1852	103209	ATTTTTTTTTT/ATTTTTTTTTTTTT	TTGAGGACCAATGAGT GTCG	GTAAATTCGGGGTCG AGGT	60.2	553	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1852_P2_12232	scaffold1852	12232	GAAAA/GAAA	GCTTCCGTTCAACCT GAAT	GATTGGTGGGACGATT TGAC	60.2	547	INTERGENIC	--	--	--
scaffold1852_P2_76175	scaffold1852	76175	ATTTTTTT/ATTTTTTTT	GGTGGCTCTCCAACG CTAA	GGTGTGTTGTACAA CTTTTGG	59.8	358	INTERGENIC	--	--	--
scaffold1852_P2_94390	scaffold1852	94390	AT/ATGCTCAACT	GGTCCAACATCGACGC TAAT	CGAGCACACTCCATGG TATC	59.1	234	INTERGENIC	--	--	--
scaffold1852_P2_94526	scaffold1852	94526	ATTTTT/ATTTTT	GGTCCAACATCGACGC TAAT	TCGGATGTTACACACC TCACA	60.0	515	INTERGENIC	--	--	--
scaffold1852_P2_94560	scaffold1852	94560	CTTTTTTTTT/CTTTTTTTTTTTTTT	GGTCCAACATCGACGC TAAT	TCGGATGTTACACACC TCACA	60.0	515	INTERGENIC	--	--	--
scaffold1852_P2_94771	scaffold1852	94771	GGTGTGT/GGTGT	GGTCCAACATCGACGC TAAT	TTTCAGTCATTGATTT CGGA	58.2	531	INTERGENIC	--	--	--
scaffold1852_P2_94935	scaffold1852	94935	ATTGTT/ATT	TACCATGGAGTGTGCT CGAA	TTTCAGAACACAAATCT GCATGT	59.7	765	INTERGENIC	--	--	--
scaffold1852_P2_95480	scaffold1852	95480	TA/TGGAGATGA	TGCATGCTTATTTGCTC TGTG	CCATCCTCGCAAATC ATCT	60.0	492	INTERGENIC	--	--	--
scaffold186_P2_222524	scaffold186	222524	TAAA/TAA	GACGGGAATGGAGATG AGAA	GCAAGTTGTAACACCC CGTT	59.9	381	INTERGENIC	--	--	--
scaffold186_P2_228305	scaffold186	228305	ATTTT/ATTTT	CAATCTTGGCAGGATC CACT	AATGCAGAACAGTTGG AGGG	60.1	550	INTERGENIC	--	--	--
scaffold186_P2_252188	scaffold186	252188	AATATATATATATATA/AATATATATAT ATATA	TACTCCCAATGGCGA CTTC	CATTTGGAAGTTGGTT TGC	60.5	485	INTERGENIC	--	--	--
scaffold186_P2_280943	scaffold186	280943	TTATATATATATATATATA/TTATATAT ATATATATATATATA	TTGTTTGTAACGCTCC CCT	TCCAAGTGGGTCTTT ATCC	60.1	189	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold186_P2_307399	scaffold186	307399	CG/CGGTG	ACCGAATTACTCACGG TGC	GAGATTCCTCCATTCTC AACG	59.5	207	INTERGENIC	--	--	--
scaffold186_P2_331874	scaffold186	331874	CA/CAA	ATTCCAAACCAAACCC TCC	TGTTGGCGTGAAAACC ATTA	60.0	643	INTERGENIC	--	--	--
scaffold186_P2_84410	scaffold186	84410	TG/T	TTCATCTTGTTCACCTC ATCCC	CAAGCCGAGAAACTCA GAGG	60.1	151	INTERGENIC	--	--	--
scaffold1864_P2_14659	scaffold1864	14659	CAAAA/CAA	ACTCAAGATCCATTAC CCG	CATCCACGGAGCAAAA ACTT	60.1	742	INTERGENIC	--	--	--
scaffold1864_P2_14836	scaffold1864	14836	TAAAAAA/TAAAAA	CGCTCTGTTAAGTCGG TTCA	CATCCACGGAGCAAAA ACTT	60.1	251	INTERGENIC	--	--	--
scaffold1864_P2_5957	scaffold1864	5957	AATG/AATGATG	TTGCCCATCTCTCAAGT TTC	CGGATATAAGCATGGC ATCA	59.5	659	INTERGENIC	--	--	--
scaffold1864_P2_5989	scaffold1864	5989	ATAGT/AT	TTGCCCATCTCTCAAGT TTC	CGGATATAAGCATGGC ATCA	59.5	659	INTERGENIC	--	--	--
scaffold1866_P2_113475	scaffold1866	113475	AAATTATTTTACAATTATTT/AAATTATTT	TTAAAAAGACCTCGCC ACC	GAGGAGAAGTCCACGT CAGC	60.0	595	INTERGENIC	--	--	--
scaffold1866_P2_116123	scaffold1866	116123	GAA/GAAA	TTCCACTTATGGTGAGT AATGATG	GCGAGCATGAGAAGT GTTG	59.6	632	INTERGENIC	--	--	--
scaffold1866_P2_139647	scaffold1866	139647	TACACACACACACACACACACACACACACAC ACA/TACACACACACACACACACACACA CA	GCAATGCTCCCTAAT TGA	CAATTTTCTGCACTCTC GCA	60.1	296	INTERGENIC	--	--	--
scaffold1866_P2_44366	scaffold1866	44366	TAA/TAACAA	ACGCTGATTGAAGTTTG GCT	TCTCATGTTCTCCAGT TGCT	59.9	429	INTRON	Ca_26041	R	--
scaffold1866_P2_62792	scaffold1866	62792	AAATAAA/AAATAAATAGAATAAA	TTGCTCCTACGTATCTC CCG	TTAAGTTGGTTTGGGC TTGG	60.0	855	INTRON	Ca_26041	R	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1867_P2_188185	scaffold1867	188185	GTAATAATAATAATAATAATAATAAT AATAATAATAATAATAATGATAATAATA TGATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAAT/GTAATAATAATAATAATA AATAATAATAATAATAATAATAATGATA	TAACGAATTGCTTGGTG TGC	CACAACCTTCACTCATC GGG	59.1	568	INTERGENIC	--	--	--
scaffold1867_P2_19036	scaffold1867	19036	TATAATAATAATAATAATAATGATAA TAATAATAATTAATAATAATAA/TATAA TAATAATAATAATAATAATGATAATA ATAATAATATTAATAATAATAA	ATACCATGCCCTACGT GCTT	GCAACAAAACTGAAA ACGC	59.8	466	INTERGENIC	--	--	--
scaffold1867_P2_226694	scaffold1867	226694	ATTT/ATTTT	ATCGATTTTGCCGTTT TGC	GGAGGGTTTTGGTTTG GAAT	60.0	473	INTERGENIC	--	--	--
scaffold1867_P2_228749	scaffold1867	228749	CGGGG/CGGGGG	TTGGAAGGAGCCCTTA CCTT	TTCCCAACTCCTTCTC CTT	60.0	255	INTERGENIC	--	--	--
scaffold1867_P2_39932	scaffold1867	39932	TAAAAAAAA/TAAAAAAAAA	ATAAATAGGCTGCCGC AACA	TGCTCGTACGTGTGCG GATA	60.3	601	INTERGENIC	--	--	--
scaffold1867_P2_91419	scaffold1867	91419	TAAA/TAA	AGGGAGGACGAAAATG ACCT	AACCAATCATGTGCATC CAA	59.8	171	INTERGENIC	--	--	--
scaffold1869_P2_18992	scaffold1869	18992	CAAAA/CAAAA	CTCGATTTCATCTGGCC ATT	CGAAAGTCGCTCCAAA AGTC	60.0	524	INTERGENIC	--	--	--
scaffold1869_P2_19075	scaffold1869	19075	AG/A	CTCGATTTCATCTGGCC ATT	CGAAAGTCGCTCCAAA AGTC	60.0	524	INTERGENIC	--	--	--
scaffold1869_P2_19531	scaffold1869	19531	GAAAA/GAAA	GACTTTTGAGCGACTT TCG	AACAATGTTTCAGGTTT CGC	60.0	273	INTERGENIC	--	--	--
scaffold1869_P2_20055	scaffold1869	20055	CAA/CAAA	TTTCAGGCGATTTTCGT ACC	ATTGTGTTTCGGGTTTC GAG	60.0	825	INTERGENIC	--	--	--
scaffold1870_P2_21211	scaffold1870	21211	TAAA/TAAA	ATGGACTGAAATCGAG TGGC	CATATAACAAATTGAG TTGCAAAA	57.5	333	INTERGENIC	--	--	--
scaffold1870_P2_24522	scaffold1870	24522	ATTTTT/ATTTT	GATGAAATCGAGGACA GGGA	CGACTCAAATGGACCG AAAT	59.9	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1878_P2_40480	scaffold1878	40480	CTCA/CTCAAGGATTTGATTCA	GCTTGGAACAGCCTC AGAC	ACATTCAAGCGCAGGT CTCT	60.0	612	INTERGENIC	--	--	--
scaffold1878_P2_45211	scaffold1878	45211	TAAAAAAAAA/TAAAAAAAAA	GCCCTCAGATGAGAGT CAGG	GGAGGGTAGGCTTATT TGCC	59.9	780	INTERGENIC	--	--	--
scaffold1878_P2_52641	scaffold1878	52641	GTTTTTTTTTTTTTTTT/GTTTTTTTTT TTT	TGCCATAACCACCAAG ACA	TGTTTTCTGCAACAAAA GCG	60.0	384	INTERGENIC	--	--	--
scaffold1878_P2_54414	scaffold1878	54414	GAAAAAAAAA/GAAAAAAAAA	CCTCGGTGCATTTCTT GTT	GTTTCCAAATTGGTCCT CCA	59.8	565	INTERGENIC	--	--	--
scaffold1878_P2_56174	scaffold1878	56174	TCTTCAAATC/TCTTCAAATCTACTTCAA ATC	CCTTGACCCTACAAGC CAAG	TCATACCTGGCTGATG TTGTG	59.6	896	INTERGENIC	--	--	--
scaffold1878_P2_56484	scaffold1878	56484	TC/T	TTTCTAACTTATGGCTC CCATT	CCGAGCCAAAATCCAA AATA	59.9	381	INTERGENIC	--	--	--
scaffold1878_P2_70253	scaffold1878	70253	AG/A	GGGTCAGCTTGAAATC TTGC	TTGTGGACCACTAAT GGCA	60.0	358	INTERGENIC	--	--	--
scaffold1878_P2_73171	scaffold1878	73171	ATTTTTTTT/ATTTTTTTTT	GGTTGGGTCCTGGTTT GTTA	CCTCTGGATCCAACAC AGGT	60.0	626	INTERGENIC	--	--	--
scaffold1878_P2_7439	scaffold1878	7439	T/TTA	TGGCCTTCGATCTTGA AGT	CATTGGTTTGACCAAC CTTGT	59.7	693	INTERGENIC	--	--	--
scaffold1878_P2_77007	scaffold1878	77007	TAAAAAAAAA/TAAAAAAAAA	TTGCGAGAGCGGTCTT AAAT	CCTCAAGATCTCGTGT GCAA	60.0	358	INTERGENIC	--	--	--
scaffold1878_P2_77102	scaffold1878	77102	TCCCC/TCCCC	TTGCGAGAGCGGTCTT AAAT	CCTCAAGATCTCGTGT GCAA	60.0	358	INTERGENIC	--	--	--
scaffold1878_P2_8070	scaffold1878	8070	CAAAAAA/CAAAAAA	TTGGTTTGAAAAAGGG GTTG	TACGTTGCAATCGTCC AAAA	60.1	468	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1882_P2_6278	scaffold1882	6278	TNNNNNNNNNN/TNNNN	AGGTCATTTTCGTCCTCCT	ACACACCTTTTCGATGCACA	60.2	384	INTERGENIC	--	--	--
scaffold1884_P2_19491	scaffold1884	19491	GAAAAAAAA/GAAAAAAAAAAAAA	GCCCTCAGATGAGAGTCAGG	TGGATCGGCTGACTAAATCC	60.0	629	INTERGENIC	--	--	--
scaffold1885_P2_28543	scaffold1885	28543	ATTTTT/ATTTTT	CCCTTCACCCAGAAATCAA	GATGGATAGGCTGTGACGCT	60.2	419	INTERGENIC	--	--	--
scaffold1885_P2_40287	scaffold1885	40287	GATATATATATAT/GATATATATATATATATATAT	CCATTGTGGTCGTTTAGGCT	CCCAAATGACATCAAAACC	60.0	572	INTERGENIC	--	--	--
scaffold1885_P2_40622	scaffold1885	40622	TAACC/T	CCATTGTGGTCGTTTAGGCT	CCCAAATGACATCAAAACC	60.0	572	INTERGENIC	--	--	--
scaffold1885_P2_47510	scaffold1885	47510	A/AG	GTAGCTTCGGCTACACCGAC	ATTCGGTTGTGCACCTGATG	59.6	664	INTERGENIC	--	--	--
scaffold1886_P2_17788	scaffold1886	17788	TTAT/TT	GAGAGAGGCATTGCACAACA	CGAAATTTCTTTAACGAGGGG	60.0	537	INTERGENIC	--	--	--
scaffold1886_P2_17993	scaffold1886	17993	TA/TAA	GAGAGAGGCATTGCACAACA	CGAAATTTCTTTAACGAGGGG	60.0	537	INTERGENIC	--	--	--
scaffold1893_P2_15562	scaffold1893	15562	TTT/TTCTT	CGGGGCTTAGGTAAGGTAG	CCTTGCCCTTTTATTTCGGT	60.3	401	INTERGENIC	--	--	--
scaffold1893_P2_1948	scaffold1893	1948	ATTT/ATTTT	GGCGTTTGAAGAAATCCTG	AAGCGCTGTAAAGGCTCA	60.0	382	INTERGENIC	--	--	--
scaffold1896_P2_25034	scaffold1896	25034	GAAA/GAAAA	TGGATGCACCAGATTGGTTA	TTGGATCATTTTCGCTCTCC	59.9	601	INTERGENIC	--	--	--
scaffold1899_P2_33484	scaffold1899	33484	GAAA/GAAAA	GAATCCTGGGCTGAATCAA	TTGTCCGTGAGAGACTGCAC	60.0	487	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1918_P2_171227	scaffold1918	171227	AG/AGG	TTTTTCATCTCAAATGG GGG	TGCTCTGATTTTAATTT TTGCTGA	60.1	620	INTERGENIC	--	--	--
scaffold1918_P2_17379	scaffold1918	17379	TAAAAAA/TAAAAAAA	GCGGATGCTATTTAACC GAG	TAATCGGTTGCACCGA AAAG	61.0	107	INTERGENIC	--	--	--
scaffold1918_P2_181372	scaffold1918	181372	TTAAA/T	TCGAAGAGGAAAGTCG AGGA	GGGTCAACTTTGCACA CCTA	58.6	494	INTERGENIC	--	--	--
scaffold1918_P2_186299	scaffold1918	186299	CTTTTTTTT/CTTTTTTTTTT	GGAAATCGTTTTTCCAG GAA	GGGTCATTAGGTGGA CATCA	59.7	477	DRR	Ca_24713	O	--
scaffold1918_P2_187805	scaffold1918	187805	TAAAAAA/TAAAAAA	GTTTCGAGTTTCTCCGTC TGC	AAAACCTTGAGTGTGGG GACG	60.0	309	INTERGENIC	--	--	--
scaffold1918_P2_188965	scaffold1918	188965	CTTTTTTTTTT/CTTTTTTTTTT	GTTGACCGGAAGTGAG TGGT	CTTTGCTTTCTTGGGCT TTG	60.0	625	INTERGENIC	--	--	--
scaffold1918_P2_192055	scaffold1918	192055	GTTTTTTTTT/GTTTTTTTTT	AGAACGGTTGCCAGAG AAGA	ACGGGTTTAGCAGTGT CACC	60.0	659	INTERGENIC	--	--	--
scaffold1918_P2_19944	scaffold1918	19944	CTT/CTTT	TTTATGGGCTCAAGGG AAAA	GCTATGCATTGAGCAA CAGG	59.4	713	INTERGENIC	--	--	--
scaffold1918_P2_199752	scaffold1918	199752	CAAAAA/CAAAAAA	ATTTGCACGAATCGGA CATT	CATAGAGAGTGTGCGA CGGA	60.0	855	INTERGENIC	--	--	--
scaffold1918_P2_20863	scaffold1918	20863	ATTTTTTTTTTTT/ATTTTTTTTTTTTTT TTTTT	ATTATAGCTGTCGCG CCTA	TTAAGACGGTTGAGTT GCGA	59.5	727	INTERGENIC	--	--	--
scaffold1918_P2_22208	scaffold1918	22208	TAAAAA/TAAAA	TATGCCATGGTGAAAT GGA	TGATTGCCACAACACTT CAAA	60.1	449	INTERGENIC	--	--	--
scaffold1918_P2_222970	scaffold1918	222970	CTT/CTTT	GGATTCTTGAAATTA CGTGAA	GTGGTTGCCAAAACCT TCAT	59.8	462	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1918_P2_225038	scaffold1918	225038	TAAAAAAAA/TAAAAAAAA	CATCATCGTTGTTGTG GCT	TTGGTGCCATTGAG TTTG	59.7	591	INTERGENIC	--	--	--
scaffold1918_P2_227255	scaffold1918	227255	ATTTTTTTTT/ATTTTTTTTT	AGTGTGTTTACATCCA CCA	TTGGAAAATTTAAATGA CCGAAA	59.7	579	INTERGENIC	--	--	--
scaffold1918_P2_23098	scaffold1918	23098	GATATAT/GAT	TGTTGTTCAAAATGGGC TTG	GCAGCCAACAAAAGAA CAGA	59.1	712	INTERGENIC	--	--	--
scaffold1918_P2_232188	scaffold1918	232188	GAAAAAAAA/GAAAAAAAA	TTGTTTTTCATGTCACGA TTTTT	TTTTAGCTGCGGGCAT ATTT	59.7	475	INTERGENIC	--	--	--
scaffold1918_P2_234322	scaffold1918	234322	ACACACTACTAGAAAC/A	AAATCATTCGATCAATC AGCA	TTGAATCGGAACATCC ACAA	59.9	746	INTERGENIC	--	--	--
scaffold1918_P2_241986	scaffold1918	241986	TCTA/TCTACTA	TGTTCAATCACTTCGAC ACCA	ATGCTTTTCTTGCGGTT CAT	59.7	685	INTERGENIC	--	--	--
scaffold1918_P2_244671	scaffold1918	244671	ATTTTTTTTT/ATTTTTTTTT	GCATGATTGGTCGATG TGAG	CAAAGGAAAGTGGCAG GAAA	60.2	498	INTERGENIC	--	--	--
scaffold1918_P2_244709	scaffold1918	244709	TCACATACA/TCA	GCATGATTGGTCGATG TGAG	CAAAGGAAAGTGGCAG GAAA	60.2	498	INTERGENIC	--	--	--
scaffold1918_P2_244923	scaffold1918	244923	GTTTTTTT/GTTTTTTT	GCATGATTGGTCGATG TGAG	CAAAGGAAAGTGGCAG GAAA	60.2	498	INTERGENIC	--	--	--
scaffold1918_P2_245522	scaffold1918	245522	ATAATATTAATTAATTAATA/ATAAT ATTAATATTAATTAATTAATA	TCGAACCTTTCTGCA CTT	GAGCCTTGATCTCGTC CTTG	60.0	875	INTERGENIC	--	--	--
scaffold1918_P2_30935	scaffold1918	30935	TCCCC/TCCC	ATCGCAATGGATCAACA CAG	TGCAGTCTCAGGTATG CCAC	59.9	387	INTERGENIC	--	--	--
scaffold1918_P2_31828	scaffold1918	31828	GTTT/GTT	TTCACTTGCTTTTTCG GGG	TGTGCGTATTGGTGCG TATT	60.0	584	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1918_P2_32951	scaffold1918	32951	A/AGAT	AAGAGTGGGGTGGGA ATAG	TCCATATTCGGTAGCC GTTC	59.9	352	INTERGENIC	--	--	--
scaffold1918_P2_33160	scaffold1918	33160	TATAATAATAATAA/TATAATAATAATAA AA	GAACGGCTACCGAATA TGGA	AAAAGGCTAGGCTCAT GCTG	59.6	266	INTERGENIC	--	--	--
scaffold1918_P2_33228	scaffold1918	33228	CTTTTTT/CTTTTTTT	GAACGGCTACCGAATA TGGA	AAAAGGCTAGGCTCAT GCTG	59.6	266	INTERGENIC	--	--	--
scaffold1918_P2_44361	scaffold1918	44361	AC/A	TATCATGGGAAGGGGT GGTA	TTCAGTTACCCCATGT TGA	59.9	472	DRR	Ca_24708	R	E2F/DP
scaffold1918_P2_50368	scaffold1918	50368	TAAAAA/TAAAA	GTTGGTCGGCTTGTC TTTT	AAAGATGTATGCAGTC CGGG	60.0	706	INTERGENIC	--	--	--
scaffold1918_P2_51424	scaffold1918	51424	ACTCTCTCTCTCT/ACTCTCTCTCTCTC T	AAATGCACCGCAAAAAC TTC	TGTGTGAGGGGTTGT TTTG	59.4	134	INTERGENIC	--	--	--
scaffold1918_P2_59144	scaffold1918	59144	TGTTGAAAG/T	AATCTGATCCTACCCAC CCC	TCTTCGAGCATCAACC ATTTC	60.2	230	INTERGENIC	--	--	--
scaffold1918_P2_61432	scaffold1918	61432	CAAAAAAAAA/CAAAAAAAAA	TCCTCACCATGAGAAA TAAACA	ACATGTTGGGAATTG GTGT	60.0	207	INTERGENIC	--	--	--
scaffold1918_P2_62258	scaffold1918	62258	CAAAAAAAAA/CAAAAAAAAA	CGTGGGTGTGGCTAGT TTG	ACAGGTGCGGGTTATG TTGT	60.3	560	INTERGENIC	--	--	--
scaffold1918_P2_62487	scaffold1918	62487	GAAAAAAAA/GAAAAAAAA	CGTGGGTGTGGCTAGT TTG	CTGCAATGGGATTCTGA GTTT	60.1	742	INTERGENIC	--	--	--
scaffold1918_P2_62656	scaffold1918	62656	GCTCTCTCTCT/GCTCTCTCTCT	CGTGGGTGTGGCTAGT TTG	AAGGTATGGCAATAGC GTGG	60.0	868	INTERGENIC	--	--	--
scaffold1918_P2_63025	scaffold1918	63025	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	AAACTCGAATCCCATTG CAG	CACGTGCACACACACA CTCT	59.4	552	INTERGENIC	--	--	--

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								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1918_P2_63244	scaffold1918	63244	A/ACGTC	AAACTCGAATCCCATTG CAG	CACGTGCACACACA CTCT	59.4	552	INTERGENIC	--	--	--
scaffold1918_P2_75612	scaffold1918	75612	GATAATAATAATA/GATAATAATA	TGTGTGGACTTCACTGT CGC	AGGTTTAATTGCCGTTT TGG	59.0	447	INTERGENIC	--	--	--
scaffold1918_P2_78141	scaffold1918	78141	AGCGCGCGCGC/AGCGCGCGCGCGC	TATTTGCGCCACATCGT TTA	TCACGGTTGTGTGAGA TGCT	60.3	482	INTERGENIC	--	--	--
scaffold1918_P2_83893	scaffold1918	83893	AAGAGGATGAAAAGGA/AAGAGGATGA AAAGGAGAGGATGAAAAGGA	TGATTCCAAGAAACGA GGG	ATCCCATGCGATCTCA CTTC	60.0	206	INTERGENIC	--	--	--
scaffold1920_P2_925	scaffold1920	925	A/AC	TGGACGTAGGTTGTTG TGGA	TGCGTTTGTGTCATTG GATT	60.0	790	INTERGENIC	--	--	--
scaffold1923_P2_10722	scaffold1923	10722	ATTTTTTTTT/ATTTTTTTTT	GGCCCCCAATATTTTG GTAA	ATTATTGGCCCCAACT CACA	60.2	383	INTERGENIC	--	--	--
scaffold1923_P2_2833	scaffold1923	2833	CATATATATATATATATATATATATAT ATATATATAT/CATATATATATATATAT ATATATATATATATATATATATATAT	TTTCCCTCCAACACAC ACA	TTTGGCAAAGGAAGC AAAG	60.3	498	INTERGENIC	--	--	--
scaffold1923_P2_6246	scaffold1923	6246	AT/ATGTTTCTCGATTTTT	CTTGATCCCGAGGAAA AACA	ATTGCAATGCACCAAAA ACA	60.0	955	INTERGENIC	--	--	--
scaffold1928_P2_13480	scaffold1928	13480	ATATATATATGTATATAT/ATATATAT	ACCAGGGAGGAAGGAA ATGT	TTGAGTTGCAACGAGA GTGG	60.0	307	INTERGENIC	--	--	--
scaffold1928_P2_14034	scaffold1928	14034	TCC/TC	GGGTTCCAAATCACCTT GAA	CTTATCGGATTGCATTG CCT	60.1	222	INTERGENIC	--	--	--
scaffold1928_P2_15951	scaffold1928	15951	TG/T	ATCTACCCGGCAAACG TCTA	GCTCAAAAAGTCAACG TCAA	60.0	456	INTERGENIC	--	--	--
scaffold193_P2_208565	scaffold193	208565	TTA/TTATA	CGTTCCTGAGGGAATT GTGT	AGTACTGAGCCCCCTG GTTT	60.0	485	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1943_P2_104145	scaffold1943	104145	CTTTTTTTTT/CTTTTTTTTT	TAAAAACCGTTTCGGT CAG	AGTCTGAAATGACGTT GGGA	58.1	685	INTERGENIC	--	--	--
scaffold1943_P2_110297	scaffold1943	110297	AATATATATATATATA/AATATATAT ATATA	TGAACCAACACAGCAG TTCA	TTTATTGGGTGTTTCG GTT	58.0	617	INTERGENIC	--	--	--
scaffold1943_P2_121284	scaffold1943	121284	A/ATTCT	TTGGATCAAAATGCTTG GAAC	TCGACTGTCAATCGC TTTG	60.0	388	INTERGENIC	--	--	--
scaffold1943_P2_16563	scaffold1943	16563	CTTTTTTTTT/CTTTTTTTTT	GTGATTTTTGGGTGTC CAC	TACCTCCCTGGGAC TCAT	60.7	752	INTERGENIC	--	--	--
scaffold1943_P2_179974	scaffold1943	179974	CAAAAAAAAA/CAAAAAAAAA	CCACAAGAAGACAAAG GGGA	TACGTGTGTGATCTG TCGC	59.7	537	DRR	Ca_21921	--	--
scaffold1943_P2_183806	scaffold1943	183806	CTTT/CTTTT	TTACATTTTTGTGATT GTGACC	TCCGAAATATACACC CAAA	59.1	461	INTERGENIC	--	--	--
scaffold1943_P2_184563	scaffold1943	184563	CATATATATATATATATA/CATATATA TATATATATATA	GGATTCCATTTGAAGG CAA	CGCTGACAATCACCA AATC	60.1	607	INTERGENIC	--	--	--
scaffold1943_P2_22239	scaffold1943	22239	TAAAAAAAAA/TAAAAAAAAA	CAC TTCATGTTACCTCG GCA	AGGATGAGGGTGTGA GTGG	60.0	755	INTERGENIC	--	--	--
scaffold1943_P2_243638	scaffold1943	243638	TACACACA/TACACACACA	TGGTGGCATAACTAAGT GTCTCA	AAAGGAACCAAGTTT GGACAG	59.5	181	INTRON	Ca_21926	R	--
scaffold1943_P2_251763	scaffold1943	251763	TAAAAAAAAA/TAAAAAAAAA	CCTTACCCCTCGCACTA TGA	TGGGTCATGTTTCCTT CATT	60.2	623	INTERGENIC	--	--	--
scaffold1943_P2_2994	scaffold1943	2994	TAAAAAAAAA/TAAAAAAAAA	TTTGTAGCCTGCTCGG ATTT	TCCATCGAGACTCATT ATAAGCA	60.1	807	INTERGENIC	--	--	--
scaffold1943_P2_315762	scaffold1943	315762	CAAAAAAAAA/CAAAAAAAAA	TGGTCTGAAACAAGCA CCAA	AAGCGCTGTAAAGGT GCAT	59.9	424	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1943_P2_334484	scaffold1943	334484	GTT/GTTT	CATCGCTAGAGGCAAC AACA	TCCAACGCTTCATTT CCC	59.9	171	INTERGENIC	--	--	--
scaffold1943_P2_341833	scaffold1943	341833	CAAAAAAAAA/CAAAAAAAAA	TTCACCGTCGAAGATT TGA	TTTCCATTCCGTTCTC TCG	60.2	617	INTERGENIC	--	--	--
scaffold1943_P2_361813	scaffold1943	361813	CTTTTTTT/CTTTTTTTT	TTCATGTTTGACCTTC ACAA	GTCGAAGGGGAGAAA GAAG	60.2	318	INTERGENIC	--	--	--
scaffold1943_P2_373287	scaffold1943	373287	GTTTTTTTTT/GTTTTTTTTTTT	TGTGTCTGCATCATCG TTT	AGGGACCAAAGCTGCA ATTA	59.7	715	DRR	Ca_21936	--	--
scaffold1943_P2_375682	scaffold1943	375682	TAAAAAAAA/AAAAAAAAA	TGTGCGGTATTCGAAC AAAA	AGCACGATGCAAGTTA CGAG	59.1	174	INTERGENIC	--	--	--
scaffold1943_P2_393620	scaffold1943	393620	ATC/ATCTTC	TGGTTCTCATGATCGT GTGG	GCGCAAACACAAACAA CAAA	60.7	635	INTERGENIC	--	--	--
scaffold1943_P2_60462	scaffold1943	60462	ATTTTTTTTT/ATTTTTTTTTT	AAATTGGATTCAACAC CATCC	CCATCCACTGCATTG AAAA	59.5	458	INTERGENIC	--	--	--
scaffold1945_P2_1161	scaffold1945	1161	ATTT/ATT	TTCTAGCTGGCTTTTCT CGC	TGCACAAGTCAGTAGC ACCC	59.9	871	INTERGENIC	--	--	--
scaffold1945_P2_12188	scaffold1945	12188	CAAAGAGATA/C	TTCTCCCTCCTCCTCC ATT	GTTGGTTCCTAGCAC CGTA	60.0	270	INTERGENIC	--	--	--
scaffold1945_P2_41834	scaffold1945	41834	CAATAATAATAATAATAATAATA ATAATAA/CAATAATAATAATAATA TAATAATAATAA	ATTGGGAGGAAGAAGA GGGA	ATATGGCGGGTGTAA ATGC	59.7	625	INTERGENIC	--	--	--
scaffold1945_P2_4916	scaffold1945	4916	GTTT/GTT	CGTCAACACAAACCTC CCT	TGGTTTTACGCCAAC ATTA	60.0	659	INTERGENIC	--	--	--
scaffold1945_P2_4979	scaffold1945	4979	ATTT/ATT	CGTCAACACAAACCTC CCT	TGGTTTTACGCCAAC ATTA	60.0	659	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1945_P2_705	scaffold1945	705	GACATA/GA	AGTCCTGACAATCCAA CGG	GCGAGAAAAGCCAGCT AGAA	59.9	238	INTERGENIC	--	--	--
scaffold1945_P2_862	scaffold1945	862	TGG/TGTGGG	AGTCCTGACAATCCAA CGG	AAATCAATTGGCACGT CGAT	60.3	773	INTERGENIC	--	--	--
scaffold1946_P2_1221	scaffold1946	1221	TTATATATATATATAT/TTATATATATA TATATATATATAT	ACATTAATTCGGGG GAGG	CACACTCTCACCCGGC TAAT	60.1	388	INTERGENIC	--	--	--
scaffold1946_P2_1942	scaffold1946	1942	ATTTTTTTTT/ATTTTTTTTTT	TTGTGCCACATGACATC CTT	CCCAAGTTTGATTGCG GCTA	60.1	668	INTERGENIC	--	--	--
scaffold1946_P2_40975	scaffold1946	40975	TGAAAATTTAAG/TGAAAATTTAAGAAAA TTTAAG	AATATACGGTTGTCGCA GGC	GCGGAGAATTCATTG GTTG	60.4	582	INTERGENIC	--	--	--
scaffold1954_P2_1322	scaffold1954	1322	T/TTG	TCCTATATTCGCCCCAC TTG	GTGGCATGGGAGTCTG TTTT	60.0	433	INTERGENIC	--	--	--
scaffold1954_P2_1371	scaffold1954	1371	TA/TAGTAA	TCCTATATTCGCCCCAC TTG	GTGGCATGGGAGTCTG TTTT	60.0	433	INTERGENIC	--	--	--
scaffold1956_P2_120087	scaffold1956	120087	AGG/AG	ATGCGGGTCAGATTTTC AAAC	CTGTGTTTCGGGTTCC ACTT	60.0	813	INTERGENIC	--	--	--
scaffold1956_P2_28195	scaffold1956	28195	CAAAA/CAAAAA	CAGTGTTTTGGGTTCC GAGT	TGGACTTTTCGGCAATT TTC	60.1	435	INTERGENIC	--	--	--
scaffold1956_P2_63720	scaffold1956	63720	GTAAACCATAAAACCATAAAACCATAA AACCATAAAAC/GTAAACCATAAAACC ATAAAACCATAAAAC	TTCGTTATGCAGTCAAA TTTCTAA	TCTGACGAAGAACCCG AAAC	60.2	667	INTERGENIC	--	--	--
scaffold1956_P2_63893	scaffold1956	63893	ATATTATTATTATTATTATTATT/ATA TTATTATTATTATTATTATTATTATT	TTCGTTATGCAGTCAAA TTTCTAA	AAATGGACCAACGTC CGTA	60.2	719	INTERGENIC	--	--	--
scaffold1956_P2_85954	scaffold1956	85954	GGTTTAG/GGTTTAGGGTTTAGTGTTTA G	TAGGCGATTTTCGTACC ACC	ATAACCGAACCTCAAA CCC	60.1	282	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1959_P2_121647	scaffold1959	121647	TGT/TGTCGT	GACACCAGGAGGCATG TTTT	GGAAGGCTTGTCAGCT TGAG	60.1	357	INTERGENIC	--	--	--
scaffold1959_P2_47247	scaffold1959	47247	GC/GCC	TCCTCCTCAAGTTGGA GCAT	ATATTGCATTGCAGTG GTGG	59.4	458	DRR	Ca_26462	K	G2-like
scaffold1959_P2_67541	scaffold1959	67541	GT/G	CCTACGGATGACCTCT CTCG	TAACGGTGAGTTGACG ACGA	60.3	400	INTERGENIC	--	--	--
scaffold1959_P2_83297	scaffold1959	83297	CAAAA/CAAAAA	TTCGGTGGCATAAATTG TGA	TTCAAATGGTCGACAT CCA	59.9	512	INTERGENIC	--	--	--
scaffold1959_P2_84523	scaffold1959	84523	GTTATTATT/GTTATT	ATTCATTTTGACCCCTT CCC	TCCTCGCCAGCTTTAC CTTA	60.0	714	INTERGENIC	--	--	--
scaffold1959_P2_95637	scaffold1959	95637	CAAAAAAAAA/CAAAAAAAAA	AAATTCCAACATGTCC CGA	CGGATCAAATTAGTGC CGTT	60.0	354	DRR	Ca_26466	--	--
scaffold1962_P2_123660	scaffold1962	123660	CAAAAAAAAA/CAAAAAAAAA	CAATTCAAGCACAAAGT GGA	TGCCACCAAAATCGTG ATAA	59.9	606	INTERGENIC	--	--	--
scaffold1962_P2_124223	scaffold1962	124223	T/TATTATTATTATA	TTATCACGATTTTGGTG GCA	TCCCCCAACCAAAATA TCA	60.0	498	INTERGENIC	--	--	--
scaffold1962_P2_125377	scaffold1962	125377	A/AGTCATC	CCTGGTGCAATGATGA GAAA	GCATGTCATTCAAATAG AAATCCTT	59.8	969	INTERGENIC	--	--	--
scaffold1962_P2_159146	scaffold1962	159146	AAATATAAGCAGAAAATTAA/AAATATAA GCAGAAAATTAATATAAGCAGAAAATTA A	CTTTTTACAGCGCTTGT GGG	AAGCCGTGTAATCTGA ACCG	60.1	557	INTERGENIC	--	--	--
scaffold1962_P2_170714	scaffold1962	170714	GTTTTTTTTT/GTTTTTTTTT	TCAAGGACCCAAAGCA CATT	TACTCCCCCTTTGAGC TTGA	59.8	423	INTERGENIC	--	--	--
scaffold1962_P2_80714	scaffold1962	80714	TAA/TAAA	GGATAGCCCAACCAAC TCAA	CCCGTAAGCAATGGAC AAGT	60.0	507	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1962_P2_9879	scaffold1962	9879	CAT/CATAT	ATCAGTGGTCCCCTGA GAAG	AATGGTTTAACGGCAG CTTG	60.1	444	INTERGENIC	--	--	--
scaffold1964_P2_11011	scaffold1964	11011	A/ACTC	ATGTTCTCGCCAATCA TTC	TTCCAAAAGAGGAATG GTGC	60.1	771	DRR	Ca_25209	G	--
scaffold1964_P2_11658	scaffold1964	11658	AACACA/AACA	GCACCATTCTCTTTTG GAA	GATGGACCACCTTCTC TCCA	60.0	553	CDS (FRAME SHIFT)	Ca_25209	G	--
scaffold1964_P2_11803	scaffold1964	11803	TAGAATTATGCAG/TAGAATTATGCAGA ATTATGCAG	GCACCATTCTCTTTTG GAA	GATGGACCACCTTCTC TCCA	60.0	553	CDS (FRAME SHIFT)	Ca_25209	G	--
scaffold1964_P2_120305	scaffold1964	120305	ATTTTTTTTTTTTTTTT/ATTTTTTTTTTT TTT	GATGGAAGAGCCGTAC CAAA	GCACAATAAGAGTGG TTGACG	59.7	542	DRR	Ca_25214	C	--
scaffold1964_P2_156402	scaffold1964	156402	TTATATATATATATATATATATATATAT/T TATATATATATATATATATATATATAT	TGTGTTGGCTCAAATCA AAA	CACAAGTGGTTGTGCA TTCC	60.0	230	INTERGENIC	--	--	--
scaffold1964_P2_172119	scaffold1964	172119	ATTGG/A	TTGTTTTGTAGAAACG CCG	ACCCACATAGCGCAAG ATTC	60.1	313	INTERGENIC	--	--	--
scaffold1964_P2_20327	scaffold1964	20327	TTTCTT/TTT	TGTTGTTTCCAACCACT CCA	TTGGATCGAAATTGG GTGT	60.2	861	INTERGENIC	--	--	--
scaffold1964_P2_21448	scaffold1964	21448	CAAAATAAAATAA/CAAAATAA	GGGTCAGTTCATCCCA TGAC	TATGCATCTTTGTTGAC GCC	59.7	292	INTERGENIC	--	--	--
scaffold1964_P2_8928	scaffold1964	8928	ATTTT/ATTTT	CCTCCACTGCTGAGTT GTGA	AAGCCTAAGCTGCATT GGAA	60.0	651	INTERGENIC	--	--	--
scaffold198_P2_267630	scaffold198	267630	A/AG	TCCTAGAACATGCATCA CGC	AGCCACATCCAAGCA AAAC	60.1	473	DRR	Ca_20909	--	--
scaffold198_P2_274491	scaffold198	274491	ATTTTTTTTTTT/ATTTTTTTTTTT	TGGATTGTCATCCCTT TTT	TGTGTGTTTCGTTCAAC GGT	60.0	293	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1981_P2_288034	scaffold1981	288034	GAAAAAAAAA/GAAAAAAAAA	CTTCAAATAAAACCG CCA	TTTAGGCATTGTTGT GCTG	60.0	179	INTERGENIC	--	--	--
scaffold1981_P2_317439	scaffold1981	317439	TAAA/TAAAA	TCTCATTTGCTCCGAC TCT	TTGTCTCAACAATCTCC CCC	59.9	501	DRR	Ca_21265	--	--
scaffold1981_P2_325613	scaffold1981	325613	GAACA/GAACACACA	GCTGGTCACGGCATT AACT	TGGACCAAAAAGTGGT GTCA	60.0	243	DRR	Ca_21266	--	--
scaffold1981_P2_334417	scaffold1981	334417	CAAAAAAAAA/CAAAAAAAAA	CAATTTATTCAAACGCA AATCG	TGCAAAAACCACAAAC CAAA	60.0	641	INTERGENIC	--	--	--
scaffold1981_P2_337052	scaffold1981	337052	TT/TTTAT	CTTTCCTCAATGCAGA CTTG	GGCTTTTGGGTAGCAT TTGA	60.1	909	INTERGENIC	--	--	--
scaffold1981_P2_345037	scaffold1981	345037	ATTTTTTTTT/ATTTTTTTTT	ACACTTCCAATGCCAAG GTC	TGGCTTGTTGGTTGTGA AATC	59.5	655	INTRON	Ca_21268	--	--
scaffold1981_P2_345913	scaffold1981	345913	ATTTTTTTTT/ATTTTTTTTT	TGTTCAACCACCGTTGTT CAT	ATTGTAGCGTCGTGA TGGG	60.9	739	INTERGENIC	--	--	--
scaffold1981_P2_351360	scaffold1981	351360	TAGACA/TA	AGCTCCACCTCTGATCT CCA	TCACACAACTGTGAGG TCCTG	59.8	308	INTERGENIC	--	--	--
scaffold1981_P2_355117	scaffold1981	355117	TCCC/TCCCC	AAACCTCGAATTTGTT GAATC	GGGGCCTTTCAAATA TCGT	60.2	502	INTERGENIC	--	--	--
scaffold1981_P2_355366	scaffold1981	355366	A/AC	ACGATATTTTGAAAGC CCC	CGCGGATCCAATATCT CACT	60.1	426	INTERGENIC	--	--	--
scaffold1981_P2_355782	scaffold1981	355782	GTTTTTTTT/GTTTTTTTT	CCGCGGATTATAGGTG GAAT	TTTTTCATGCGGTCGT GTAA	60.1	593	INTERGENIC	--	--	--
scaffold1981_P2_356890	scaffold1981	356890	AAATAAT/AAAT	GGACAAAAGGATGCCA CACT	GAGTGGAAGTGGGG AATTT	60.2	505	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1981_P2_357850	scaffold1981	357850	GTTTT/GTTTTT	TCAAGTGTCTATTTG TTGGCA	CCTTTTGCAATTGGT GGT	59.8	559	INTERGENIC	--	--	--
scaffold1981_P2_358146	scaffold1981	358146	TAAAAAA/TAAAAA	ACCAACCAATTGCAAAA AGG	TAAACTTGTGTCCGG AGGC	60.1	553	INTERGENIC	--	--	--
scaffold1981_P2_358821	scaffold1981	358821	ATTTTTTT/ATTTTTTTTT	GCCTCCGACAACAAG TTTA	GACTGAAATGCAATTT AGACCT	59.9	606	INTERGENIC	--	--	--
scaffold1981_P2_360036	scaffold1981	360036	TA/T	TAGCGGTTGTGCAGTG TTTC	AACTAACCCATTGG CGAG	60.0	616	INTERGENIC	--	--	--
scaffold1981_P2_361189	scaffold1981	361189	TAAAAAA/TAAAAA	TCACACGCCTCAAGCAT ATC	CGATCATGCTTCGACC ACTA	59.8	894	INTERGENIC	--	--	--
scaffold1981_P2_361268	scaffold1981	361268	C/CG	TCACACGCCTCAAGCAT ATC	CGATCATGCTTCGACC ACTA	59.8	894	INTERGENIC	--	--	--
scaffold1981_P2_363845	scaffold1981	363845	TTTTATAT/TT	TGCCTAAAATTGTTCCG ACA	AGGATGTTGATGGTTC TCCG	59.9	497	INTERGENIC	--	--	--
scaffold1981_P2_364618	scaffold1981	364618	TATCACA/T	GAGCCAAGTTCAATGTT CCAA	CCGCTCTTAGTGGAC GAAG	60.0	791	INTERGENIC	--	--	--
scaffold1981_P2_366756	scaffold1981	366756	GTTTTTTAAATTTTTAAATTTTTT/GTTT TTTAAATTTTTT	TCGGACTACCTGGCTA TTCAA	GCACCATGAACACCC TACT	59.9	784	INTERGENIC	--	--	--
scaffold1981_P2_367987	scaffold1981	367987	TA/TATAA	GCAACATTGTGTGGCTT GAT	GTTGTTTTGTTCGCCG TTTT	60.0	809	INTERGENIC	--	--	--
scaffold1981_P2_370536	scaffold1981	370536	AAATAATAATAATAATAATA/AAATA ATAATAATA	GGTGTGTTGCTTTTAATA GGCTCA	TCACCACTCTACTCT TTTGTTT	58.4	934	INTERGENIC	--	--	--
scaffold1981_P2_371440	scaffold1981	371440	TAAAAAA/TATAAAAAA	TTTCGTGGTCCTAAAT GCC	AAAAGGGACATGGAAC AACAA	59.3	698	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1981_P2_378498	scaffold1981	378498	AT/ATTT	GATGGTTGCCCAACA ACTT	TCTACCCACGCGAGAG TCTT	60.0	532	INTERGENIC	--	--	--
scaffold1981_P2_378954	scaffold1981	378954	T/TC	AGACTCTCGCGTGGT AGAA	GGAACAAGAAGAAGAA AGAAAACG	59.8	406	INTERGENIC	--	--	--
scaffold1981_P2_379030	scaffold1981	379030	TTTCTTCTTCTT/TTTCTTCTT	AGACTCTCGCGTGGT AGAA	TGATCAATGTGTTTAGG GTTTGA	59.4	824	INTERGENIC	--	--	--
scaffold1981_P2_389878	scaffold1981	389878	TAAAAA/TAAAAAAA	TCATGCCTCTCCATCAC AAA	CCCTAACCATGTTTG GTTCA	59.7	261	DRR	Ca_21270	A	--
scaffold1981_P2_390404	scaffold1981	390404	TTA/TTAAGCTA	CCAAACAATGGTTAGG GTGAA	AAAAGAGGGTGCCAAG GTTT	60.0	516	DRR	Ca_21270	A	--
scaffold1981_P2_393601	scaffold1981	393601	GAAAAAAAA/GAAAAAAAA	ACCTCATCTGGAATGGT TGC	CGGTGTCCAAGTTGTG ATTG	60.0	739	INTRON	Ca_21270	A	--
scaffold1981_P2_405072	scaffold1981	405072	ATATTTAT/ATAT	TGCTCAAAATAAGCTTT TACCTCC	GTAATTAAACGTCCGG GCAA	59.8	743	INTERGENIC	--	--	--
scaffold1981_P2_416755	scaffold1981	416755	A/AT	TGATCGTTTGC GTGTC TTC	TGATCTGCAAAAGCTG TGTA	60.6	502	INTERGENIC	--	--	--
scaffold1981_P2_421228	scaffold1981	421228	CTTA/CTTAATTAA	TTCGATTGGACCACTC ACA	TGAGGCTTATTGATCC AATGATAA	59.8	752	INTERGENIC	--	--	--
scaffold1981_P2_421474	scaffold1981	421474	A/AT	GCGCGAGTATGGGCTT ATTA	ATTGATTGGATGAGGG ACCA	60.1	714	INTERGENIC	--	--	--
scaffold1981_P2_421693	scaffold1981	421693	TAG/T	TCATTGGATCAATAAGC CTCA	ATTGATTGGATGAGGG ACCA	60.1	206	INTERGENIC	--	--	--
scaffold1981_P2_54874	scaffold1981	54874	GAAAAAAAA/GAAAAAAAA	TAGCTTTGGCTGTCCCA GTT	ACCGGCTTAACATTG GGCT	60.0	179	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1984_P2_323626	scaffold1984	323626	T/TCCG	GCTTGTCCGCGTAAC CTTC	ACGATTTTAGAAGAGG CGCA	60.0	601	INTERGENIC	--	--	--
scaffold1984_P2_360060	scaffold1984	360060	G/GAAA	CATATGAGCCGGACCA AGTT	GCTTTGAAGACCGTGT GGAT	60.1	422	INTERGENIC	--	--	--
scaffold1984_P2_363685	scaffold1984	363685	CA/CAA	TCATCACAACCCAAATA AACCA	TCCCAACCCAAATAAC CAA	60.0	856	INTERGENIC	--	--	--
scaffold1984_P2_386637	scaffold1984	386637	GTT/GT	CGGTAAAAAGTGTGCG GATT	TGAATGGAAGTGGGAC AACA	59.9	491	INTERGENIC	--	--	--
scaffold1985_P2_109741	scaffold1985	109741	GAAAA/GAAAAA	TTAAAGTCAAGGGGCA CCAC	TCCAAATCTCATCACA CCG	59.5	602	INTERGENIC	--	--	--
scaffold1985_P2_19601	scaffold1985	19601	TCTTTTCCTTTTCCTTTCTTTT CCTTTTCCTTTTCCTTTTCCTT	AGGAAGAGTGGAGTTG CGAA	TATTTTGATTTTGGCT CGG	59.9	511	INTERGENIC	--	--	--
scaffold1985_P2_97104	scaffold1985	97104	T/TC	GGGCTGTTGTTCGTCA AAAT	AAGGCGTCATATCCC ATAC	59.8	562	INTERGENIC	--	--	--
scaffold1988_P2_7769	scaffold1988	7769	TACACACAATCAAA/TACACACAATC AAA	ACCATACAAGTTCCCG ATC	GAAGGAGCAGTAAGCC ATCG	60.0	725	INTERGENIC	--	--	--
scaffold1990_P2_21364	scaffold1990	21364	GATCCACA/GA	ACACCACTTCGGACAAT TCC	GACCTCATAGCCCCGA TGTA	59.9	401	INTERGENIC	--	--	--
scaffold1990_P2_8359	scaffold1990	8359	TTGAAATGAAAT/TTGAAAT	ACGTCTTTCTTTGTGG TCG	TTAAGCAACAGGCCCA ATTC	60.1	196	INTERGENIC	--	--	--
scaffold1991_P2_100188	scaffold1991	100188	AT/A	TTGTGTAACCTCTGCGT TGC	CATTTGCCAAATCAAC AATTT	58.9	734	INTERGENIC	--	--	--
scaffold1991_P2_99882	scaffold1991	99882	TTATATATATATATATATATATATA TATATAT/TTATATATATATATATATAT ATATATAT	AAACGAAAAATCGTTGT GCC	ATTCGGAACATGT GCCT	59.4	577	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1996_P2_1333	scaffold1996	1333	TG/TGG	CGGATGAATCATTGGG AAAT	AGTGAAACCAACGCCA AAAC	60.0	325	INTERGENIC	--	--	--
scaffold1996_P2_5730	scaffold1996	5730	GAAAAAAA/GAAAAAAA	TGTTAGGAGGATCTCA CGGG	ATTGTTGAAAATTGG CTGC	59.9	823	INTERGENIC	--	--	--
scaffold1999_P2_24246	scaffold1999	24246	TAAAA/TAAAA	GCCTAGGAGGACGAA AATC	AACCAATGTTGTGCAT CCAA	59.8	375	INTERGENIC	--	--	--
scaffold1999_P2_27916	scaffold1999	27916	CAAA/CAAAA	AGGGAGGACGAAAATG ACCT	CTTGGGCATCCAATAG GTGT	59.8	763	INTERGENIC	--	--	--
scaffold1999_P2_29603	scaffold1999	29603	GACA/GACACA	AGGGAGGACGAAAATG ACCT	AACCAATCTTGTGCATC CAA	59.0	670	INTERGENIC	--	--	--
scaffold1999_P2_29835	scaffold1999	29835	TAAAAAA/TAAAAA	AATCCAACGACAACGG AACT	CCGATGTTGTGCATCC AATA	60.3	541	INTERGENIC	--	--	--
scaffold1999_P2_30095	scaffold1999	30095	AT/A	ATCCAACGACAACGGA ACTT	AACCAATGTTGTGCAT CCAA	59.8	939	INTERGENIC	--	--	--
scaffold1999_P2_8100	scaffold1999	8100	GAAAA/GAAAAA	TGGATGCACGAGATTG GTTA	TGCATCCAATAGGCGT TTTT	60.5	938	INTERGENIC	--	--	--
scaffold2_P2_18928	scaffold2	18928	A/AT	GTCAGGCATTCCCTC TACA	TTCGGTTGGTGACCCT TTAC	59.8	118	INTERGENIC	--	--	--
scaffold2_P2_207306	scaffold2	207306	TNNNNNNNNN/T	ACTCCCTCCGTCTCACA ATG	GACGCACGGGTTACAC ACTA	59.6	560	INTERGENIC	--	--	--
scaffold2_P2_207758	scaffold2	207758	CT/C	TAGTGTGTAACCCGTG CGTC	TTTGTTCACACCGATT TGA	59.9	595	INTERGENIC	--	--	--
scaffold2_P2_506138	scaffold2	506138	GTTATTATT/GTTATTATTATTATTAT T	TTCCTTTCTGATTGGGA TGC	TCCTTTACGGCGCTTAT TGG	60.2	492	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2_P2_515747	scaffold2	515747	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	TGGACTGGCATGATTG GATA	ACCACTCAAAGTGT GGGC	60.0	833	INTERGENIC	--	--	--
scaffold2_P2_69919	scaffold2	69919	GC/G	TTCGCAACTCCACTCT CCT	CAACGCAACATAACAC CCAG	60.0	477	INTERGENIC	--	--	--
scaffold2000_P2_14213	scaffold2000	14213	CA/C	AAGCCTAGGGAGGACG AAAA	TGCCACTGTGACTTAT CCAATC	60.0	509	INTERGENIC	--	--	--
scaffold2000_P2_1544	scaffold2000	1544	GAAAAAA/GAAAAAAA	GCCTAGGGATGACGAA AATG	TGTGTTTGCCTCATTG GATT	60.0	566	INTERGENIC	--	--	--
scaffold2000_P2_21522	scaffold2000	21522	AC/A	TGAGCCACTGTTTGA ACAC	CCCAAGAAAGTAGCCA CCAG	59.7	626	DRR	Ca_28045	--	--
scaffold2000_P2_22359	scaffold2000	22359	AATTGGCCT/A	GCTGTGCACTTGATGC TGAT	TGTGTCGTTCCGTGAA CATT	60.0	465	INTERGENIC	--	--	--
scaffold2003_P2_11976	scaffold2003	11976	T/TG	TCATTGGCTTATTCTTG CCC	TAGGGACGACGAAAT GACC	59.9	504	INTERGENIC	--	--	--
scaffold2003_P2_13286	scaffold2003	13286	ATT/AT	CAATCTTGTGCATCCAA TCG	AGGGAGGACGAAATG ACCT	59.9	567	INTERGENIC	--	--	--
scaffold2003_P2_15550	scaffold2003	15550	AC/ACC	AGGACATTTTCGTCTCC CCT	AAGCCACCTATTGGAT GCAC	60.0	430	INTERGENIC	--	--	--
scaffold2003_P2_32381	scaffold2003	32381	ATTTTT/ATTTTTTT	CTGTGGAGTTCTAGGG GCTG	TGGCATAAGAGAGTGG CTCA	59.5	479	INTERGENIC	--	--	--
scaffold2003_P2_33197	scaffold2003	33197	GTT/GTTT	AATTGCGTTTCAAACCT TCG	AAACTGGCCAACAGAG GATG	60.1	344	INTERGENIC	--	--	--
scaffold2005_P2_14756	scaffold2005	14756	TAAAAAA/TAAAAAAA	AAAATCCAACAATCTCC CCC	CGGTCTCAACCTCTCC CATA	60.1	515	DRR	Ca_28003	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2005_P2_22202	scaffold2005	22202	ATTTTTTTTTTT/ATTTTTTTTTT	TTTCCAATCGATTGCTTC	TTTGAATATGAGAGTTGGGTTG	58.2	481	INTERGENIC	--	--	--
scaffold2005_P2_32399	scaffold2005	32399	ATTTTTTTTTTT/ATTTTTTTTTT	CCAGACCAGACTTCGA AAGG	GACTGTCTGTCAGGG CCTA	60.3	549	INTERGENIC	--	--	--
scaffold2005_P2_7768	scaffold2005	7768	AATATATATAT/AATATATATATATATATAT	CCACTTTGCACTTTTGA CCA	GTTTGGCCTATTCCAAT CCC	60.5	498	INTERGENIC	--	--	--
scaffold2010_P2_3634	scaffold2010	3634	AT/ATT	AATCGATTGATTCAGCC CAG	TGATTTCACACGGTCAT CAA	59.9	869	DRR	Ca_27976	--	--
scaffold2010_P2_3846	scaffold2010	3846	CTT/C	TTATTTTCTGGTTGGGA CGG	GCAGCTCACATGGTCA AAGA	60.0	752	DRR	Ca_27976	--	--
scaffold2010_P2_6749	scaffold2010	6749	T/TC	TTCCCTTTGTTGTGTGA TCG	GGGCACCGATGTTACA TAAA	58.4	857	URR	Ca_27976	--	--
scaffold2010_P2_7925	scaffold2010	7925	ATTTTTTTTTTT/ATTTTTTTTTT	AAAGTGCCTTCTTCTTG GCA	ATGTTTTCTTTGGGTT GCG	60.0	564	URR	Ca_27976	--	--
scaffold2018_P2_16998	scaffold2018	16998	CAATAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT/CA ATAATAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAATAA T	AAGGCTCACTTGCAAA GACG	GGTATTGCTGCAGTTT TTGG	58.3	445	INTERGENIC	--	--	--
scaffold2018_P2_24141	scaffold2018	24141	GTCTCTGTTTCTCT/GTCTCTGTTTCTCT CTGTTTCTCT	TTGAGAGGACGTATTC GGCT	GCGGAGATTTTGAAG CAAG	60.0	323	INTERGENIC	--	--	--
scaffold2018_P2_4354	scaffold2018	4354	TGGAG/TG	CATGGTTTTGTTTGTG TGC	TGTTTGCTTTAAGCGAT GTCA	59.5	462	INTERGENIC	--	--	--
scaffold202_P2_100589	scaffold202	100589	A/AG	CATCAAATCACGAATGG CAG	GTTAGGGGAGATGGG GTGAT	60.0	543	DRR	Ca_27126	U	--
scaffold202_P2_103994	scaffold202	103994	ATTTTTTTTTTT/ATTTTTTTTTTTTTT	AAATTGCTTATTTAGTA GTGTCAATCG	AACTCAGCAAAACCCA AAACA	59.6	409	URR	Ca_27127	A	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold202_P2_104373	scaffold202	104373	TAAAAAAAAA/TAAAAAAAAA	TGTTTTGGGTTTGTG AGTT	TGGATGGATTGGATGA ATGA	59.7	180	URR	Ca_27127	A	--
scaffold202_P2_104727	scaffold202	104727	TTA/T	TCATTATCCAATCCAT CCA	TCGAGTGTGATCTCA AGGA	59.5	489	INTERGENIC	--	--	--
scaffold202_P2_17670	scaffold202	17670	ATTTTT/ATTTTTT	TCACAAGGGTAGTTTG GGTT	CTGCCAGCTCACCTCC TATC	60.0	685	INTERGENIC	--	--	--
scaffold202_P2_17816	scaffold202	17816	AAA/AAATAA	TCACAAGGGTAGTTTG GGTT	CTGCCAGCTCACCTCC TATC	60.0	685	INTERGENIC	--	--	--
scaffold202_P2_19978	scaffold202	19978	GT/G	GGAATTTTGCAGAAAC GGA	CTGTCCGCCTAATTTTC GAG	59.8	778	INTERGENIC	--	--	--
scaffold202_P2_20536	scaffold202	20536	CTA/C	TGCATCCAACTTGGTG TGT	ACACCGTTGTTTATGCA CGA	60.0	373	INTERGENIC	--	--	--
scaffold202_P2_22635	scaffold202	22635	CG/C	GGATTACATTCGCTTCT CCG	GCAAACAATGCGAAAC AGAA	59.9	804	INTERGENIC	--	--	--
scaffold202_P2_22768	scaffold202	22768	AT/A	TTGCAATCATGAGGCAA GTC	GCAAACAATGCGAAAC AGAA	59.9	235	INTERGENIC	--	--	--
scaffold202_P2_27689	scaffold202	27689	AC/ACC	CCCAAGATAAACAGCC CAA	CTCCCTTTCTTTCTGT CCC	60.0	318	INTERGENIC	--	--	--
scaffold202_P2_36674	scaffold202	36674	TAAA/TAA	AAATCGGTGTCAACGG TCTC	TTCACGTGTCAATTGG GTTG	59.4	559	INTERGENIC	--	--	--
scaffold202_P2_37860	scaffold202	37860	TAAA/TAA	ATTGGAGGCTGGTTT GTTG	ATCGTGGGGATGAATT TGAA	60.1	539	INTERGENIC	--	--	--
scaffold202_P2_37967	scaffold202	37967	T/TC	ATTGGAGGCTGGTTT GTTG	ATCGTGGGGATGAATT TGAA	60.1	539	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold202_P2_38468	scaffold202	38468	ATT/AT	TTCAAAATTCATCCCCAC GAT	CCAAGTGGTACAATTG GTGTCT	58.9	685	INTERGENIC	--	--	--
scaffold202_P2_39053	scaffold202	39053	CTTTTTTT/CTTTTTTT	GCACCGGAAAATACGT AGGA	ATTATCTTGTGCGCGC CTAA	59.7	359	INTERGENIC	--	--	--
scaffold202_P2_39185	scaffold202	39185	TATG/TATGATG	GCACCGGAAAATACGT AGGA	ATTATCTTGTGCGCGC CTAA	59.7	359	INTERGENIC	--	--	--
scaffold202_P2_39293	scaffold202	39293	CTTTT/CTTTTT	GCACCGGAAAATACGT AGGA	ATTATCTTGTGCGCGC CTAA	59.7	359	INTERGENIC	--	--	--
scaffold202_P2_40650	scaffold202	40650	GA/G	AGGCCCAAGTTTCTT GTTT	CGCAATGATAGCAGGA TTGA	59.8	722	INTERGENIC	--	--	--
scaffold202_P2_61873	scaffold202	61873	GTAAATGAAATAAAATGA/GTAAATG AAATAAAATGAAATAAAATGA	CAGCCCTTGAATTCGAT CAT	GCTGTTTGGCTCAACC ATTT	60.1	331	INTRON	Ca_27125	--	--
scaffold202_P2_93888	scaffold202	93888	A/ACAAGATC	GTGCAGTGAAAGGGTT CCAT	AATTTGATATCGTGGC GGAG	59.9	881	INTRON	Ca_27126	U	--
scaffold202_P2_97456	scaffold202	97456	CTTTTTTTT/CTTTTTTTTT	GTTGCGCTGGTGTATT GGT	GTTGCCGTCTGTTTTTC CAT	60.1	447	INTRON	Ca_27126	U	--
scaffold202_P2_99484	scaffold202	99484	TAAAGTTTATATTTTAAAGTTTATATTT TAA/TAAAGTTTATATTTTAA	CCTCTTTCTCAATTGCA GCC	ATGTTTGGGAGAGCCA TTTG	59.9	792	DRR	Ca_27127	A	--
scaffold2020_P2_7500	scaffold2020	7500	AATA/AA	CTTGCTAGAGCTTGGC GATT	ACATTTCTTTGCGGGT TTG	60.0	569	INTERGENIC	--	--	--
scaffold2022_P2_148143	scaffold2022	148143	GAAAAAAAAA/GAAAAAAAAA	GCCCTCAGATGAGAGT CAGG	TGGTGCCATCTCTCTAT CCC	60.0	731	INTERGENIC	--	--	--
scaffold2022_P2_38786	scaffold2022	38786	A/AC	AAGTGAAATTTTGTGG CGG	GCAGCCACAAATAAGG TGGT	60.0	231	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2023_P2_11681	scaffold2023	11681	CTTTTTTTTT/CTTTTTTTTT	CAAGTCCTCATCCTG GAAA	ATCCAGGGCAGACT CTTT	60.1	611	DRR	Ca_27841	--	--
scaffold2024_P2_1945	scaffold2024	1945	CAAA/CAAAA	GAATGTTAGGGTTCC GGGT	GATGAAATCGAGGACT GGGA	60.0	338	INTERGENIC	--	--	--
scaffold2027_P2_69540	scaffold2027	69540	CTTTTTTTTT/CTTTTTTTTT	CAATTTGCTTGTTTTCG ACG	AAAAATTCCTTTGTGG GGG	60.0	534	INTRON	Ca_26286	--	FAR1
scaffold2027_P2_77087	scaffold2027	77087	AGGGG/AGGGGG	GAAGGACAAGGTCGT CAAA	CAAGAGGGCATCAACC AAAT	59.9	736	INTERGENIC	--	--	--
scaffold2027_P2_955	scaffold2027	955	GAAAAAAA/GAAAAAAA	AGAAAGGCTCAAACGA CCAA	ACAGAGGAAGCTGCCA CCTA	60.0	672	INTERGENIC	--	--	--
scaffold2030_P2_3643	scaffold2030	3643	CGGGTTTAGGGTTTAGGGTTTAGGGTT TAGGGTT/CGGGTTTAGGGTTTAGGGTT TTAGGGTTTAGGGTTTAGGGTT	CAAAAGCCAAATGCAA AAA	CCTTAAACCGAAATC CAAA	58.9	167	INTERGENIC	--	--	--
scaffold2030_P2_4596	scaffold2030	4596	ATT/ATTTT	AGGGTTTAGGATTTTCG CGTT	CATATCAAAAACCCAAA TGACC	58.2	243	INTERGENIC	--	--	--
scaffold2030_P2_4880	scaffold2030	4880	GT/GTCTAAGTCTATT	TTTCGCGTTTAGGTTAA GGG	AAATCGGAACCCAAA ACAC	58.8	742	INTERGENIC	--	--	--
scaffold2033_P2_106803	scaffold2033	106803	CATATATATATATATATATATATATAT ATAT/CATATATATATATATATATATAT ATATATATATATATAT	AAGATGGGAGAAGGAG GGAA	TTTGGATTTGACTCG GAGG	60.0	372	INTERGENIC	--	--	--
scaffold2033_P2_139779	scaffold2033	139779	AATATATATATATATATA/AATATATAT ATATATATATATA	TGTTGGAGGCAAAAT GTCA	TTCCGATCCAAAAGAA GGAA	59.6	685	INTERGENIC	--	--	--
scaffold2033_P2_183883	scaffold2033	183883	CGAAGAAGAAG/CGAAGAAGAAGAAG	CTTGGGGTGGCAAGTA CAGT	TCGAATACATGAATTAA CAAAAGGA	59.0	371	DRR	Ca_26143	--	bHLH
scaffold2033_P2_66509	scaffold2033	66509	TTAT/TTATAT	ACCCAAGAGGATAAGG GCAC	AGCCCTCGAAAAGATA CCAA	58.8	683	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2039_P2_83114	scaffold2039	83114	TAAAAAAAA/TAAAAAAAAA	CCACTCACTCGAATCTG GAAC	GACTCAAAAGCTGGGC ACTC	60.0	661	INTERGENIC	--	--	--
scaffold2039_P2_85275	scaffold2039	85275	AA/AATAATAATA	TTGAAAAGGGTTAATG GACA	TTCACATCCAAGGGAA AACC	59.8	689	INTERGENIC	--	--	--
scaffold2040_P2_102148	scaffold2040	102148	A/AC	TGGTCCTCAACGAACAA CAA	TTGCAAAAGTGAGTGC CTTG	60.0	386	INTERGENIC	--	--	--
scaffold2040_P2_154810	scaffold2040	154810	AATATATATATATATATAT/AATATATA TATATATATAT	ATTTTGGTTCGGAGGC TTTT	TCTCTCAGCCGTTTTT CTT	60.0	539	INTERGENIC	--	--	--
scaffold2040_P2_159577	scaffold2040	159577	CA/CAGGTA	TGAAGAGGGGAATCCA TCTG	TTAACAACCTCTGGTTC GGG	60.0	372	INTERGENIC	--	--	--
scaffold2040_P2_180903	scaffold2040	180903	AATGA/AATGACTATGA	TTGGTTTTTTGGGTGG GGA	ACCAGGAAAAGAAGAA GGGC	59.7	514	DRR	Ca_26621	O	--
scaffold2040_P2_21276	scaffold2040	21276	GT/GTGTATAT	TCCAATTCAGCCCCTCA TTA	TGCTTGGAAGTTTGAT GATTG	60.1	802	INTERGENIC	--	--	--
scaffold2040_P2_238015	scaffold2040	238015	AAGA/AA	CACCGACTTCCAAACAA CG	ATGCCTATCAAGCCAG ATGA	58.3	360	INTERGENIC	--	--	--
scaffold2040_P2_80966	scaffold2040	80966	AATATATATATATATATATATATATAT ATATATATATATATA/AATATATATATA TATATATATATATATATATATATATAT ATATATA	CCATGGAAGGGAGAGA TGAA	CAACAGATTGATGGT TTGAGG	59.5	555	INTERGENIC	--	--	--
scaffold205_P2_120945	scaffold205	120945	TTGTGTGT/TTGTGT	TGCAGCTTTGGTTAGCT TTG	TTGTCCGAACCGTTAA ATCA	59.0	487	INTERGENIC	--	--	--
scaffold205_P2_154624	scaffold205	154624	TTTATTATTATTATTATTATTATTATT TTATTATTATTA	TGGGGATAACTGCAATT CTTTT	AAGATGATTGATTGTCA CACCG	59.9	701	INTERGENIC	--	--	--
scaffold205_P2_183126	scaffold205	183126	TTA/TTATTAATA	TTTTCTTCCTGTACGT TCTTCAC	AAATTTGAATTTCCGT TTTGAA	59.0	560	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold205_P2_40671	scaffold205	40671	AT/ATT	CTACTCTCAATTTCCG CCG	GCACAATCAGAAGCGC ATTA	60.0	761	DRR	Ca_25491	--	--
scaffold205_P2_40693	scaffold205	40693	C/CAAG	CTACTCTCAATTTCCG CCG	GCACAATCAGAAGCGC ATTA	60.0	761	DRR	Ca_25491	--	--
scaffold205_P2_41104	scaffold205	41104	GT/GTCT	TAATGCGCTTCTGATTG TGC	AGGCCGTATTGCTTTT GAGA	59.8	634	INTERGENIC	--	--	--
scaffold205_P2_46882	scaffold205	46882	GAGGA/GAGGAAGGA	GAGAGGATTTGTGTTCCGA	GGAATGCTCAAAGTTGCAT	60.1	235	INTERGENIC	--	--	--
scaffold205_P2_57436	scaffold205	57436	TAAAAAAAAA/TAAAAAAAAA	GGTCGCTGGAGATGTG ACTT	GACGCCAACGACTTTT TTAG	59.7	615	INTERGENIC	--	--	--
scaffold205_P2_75804	scaffold205	75804	G/GCTAGTTAAGAAGAA	TGAAGAGGGGAATCCATCTG	ACTCCAAACGCATAAC CCAG	60.0	745	INTERGENIC	--	--	--
scaffold2051_P2_10215	scaffold2051	10215	ATTTTT/ATTTT	CCTTCCATTCTTTGAGGG	GGCACCAACTAGGTTTGAA	60.0	818	DRR	Ca_25399	R	--
scaffold2051_P2_138485	scaffold2051	138485	CTTTT/CTTTT	ATGTGACCACTCGG GACC	GAACGCTTGGCAAAC CTTT	59.5	337	INTERGENIC	--	--	--
scaffold2051_P2_221582	scaffold2051	221582	ATTTTTTTTT/ATTTTTTTTT	TGTGCGCTTTGTACCT TGG	TGGGTATGGAGCACAC ATTG	60.4	461	INTERGENIC	--	--	--
scaffold2051_P2_225345	scaffold2051	225345	TTATATATATATATATATATATATA/ TTATATATATATATATATATATATA TATA	TGTTTGGCATGTGCGATAAT	CACACAAACAACGAAGGG	60.0	350	INTERGENIC	--	--	--
scaffold206_P2_162025	scaffold206	162025	GTTTTT/GTTTT	CTTGATTCAATTGATCGCT	GTTTGGTTTTCTTTGGGGT	60.1	423	INTERGENIC	--	--	--
scaffold206_P2_175450	scaffold206	175450	T/TC	GCCCTCAGATGAGAGTCAGG	TGACGCCATGGTGACATACT	60.0	558	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold206_P2_176077	scaffold206	176077	T/TATAG	CTCTCGCTATGAAAAC GGG	TGGGTTCAATTGGCAT TTTT	60.2	759	INTERGENIC	--	--	--
scaffold206_P2_179036	scaffold206	179036	GAAAAAAAAA/GAAAAAAAAA	TTTCCGAGTTGGTCCC TTA	TGGAAAAGATAGCAGC CGAT	59.8	884	INTERGENIC	--	--	--
scaffold206_P2_190834	scaffold206	190834	CATATATATATATATAT/CATATATAT ATATATATATAT	ATCCCTAACGCCGTTTT TCT	ATATTGGCTCGGAGGC TTTT	60.1	480	INTERGENIC	--	--	--
scaffold206_P2_235174	scaffold206	235174	CTTTTTTT/CTTTTTTTT	TTTTGAAAAGCGCTGT AAAAC	GTGCACATATAGCGCG ATTG	59.3	178	INTERGENIC	--	--	--
scaffold206_P2_5159	scaffold206	5159	ATTTTT/ATTTT	GATTGGCTCAGCAAAA GTCC	AAACAACTGCACCCC AAAG	60.0	910	INTERGENIC	--	--	--
scaffold206_P2_94877	scaffold206	94877	CA/C	GCTTGAACACAAGCA ATCA	CAATCGATTCCCTCAG CACT	60.2	297	INTERGENIC	--	--	--
scaffold2065_P2_826	scaffold2065	826	ATTT/ATTTT	AGGTCATTTTCGTCTC CCT	CATTGGATGCACAAGA TTGG	59.9	170	INTERGENIC	--	--	--
scaffold207_P2_6894	scaffold207	6894	AC/A	GCAAACTCGACAGGAA AAGC	TTGGTGAAGATGTCAG CCAG	59.8	370	INTERGENIC	--	--	--
scaffold2074_P2_17376	scaffold2074	17376	ACCCC/ACCCCC	GTCAATGGCCATAAA GGCT	TCGAATTTTGGTAGG GTGG	59.8	253	DRR	Ca_27637	--	--
scaffold208_P2_131475	scaffold208	131475	GTT/GT	TGCAAAAACCACTTTCA AGG	TTTGGACCAATTTTGTG GCT	60.3	620	INTERGENIC	--	--	--
scaffold208_P2_131623	scaffold208	131623	AT/A	TGCAAAAACCACTTTCA AGG	TTTGGACCAATTTTGTG GCT	60.3	620	INTERGENIC	--	--	--
scaffold208_P2_15689	scaffold208	15689	CTATATATA/CTATATATATA	TTTTGGCCATTTCAACT CAA	TCCAAATACTTAAATGC GAACAAA	59.9	452	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold208_P2_16045	scaffold208	16045	AATTATTATTATTATTATTATT/AATT ATTATTATTATTATTATTATT	TTTGTTCGCATTTAAGT ATTGGA	ACTGATTGTTGCTTGG GGAC	60.0	635	INTERGENIC	--	--	--
scaffold208_P2_173987	scaffold208	173987	ACACCACC/ACACC	GACAGCGCGGGTGTAT ATTT	TGAGGTGTGAAGTTGG GTTG	59.6	870	INTERGENIC	--	--	--
scaffold208_P2_174233	scaffold208	174233	GAAAA/GAAA	CCTTGGAGTATTCTCG GCAG	TGCTGATCCGTGAGAG ATTG	59.9	894	INTERGENIC	--	--	--
scaffold208_P2_213019	scaffold208	213019	TATAATAATAATAATAAT/TATAATAA TAAT	CCTGACGGTCATCAAAA CAA	TTTCCTTATCCGATGCG AAC	60.0	767	INTERGENIC	--	--	--
scaffold208_P2_238807	scaffold208	238807	TT/TTAT	ATTTTTGGTGTCGTTCT CGG	ATTTCATGATCCTCCCC ACA	60.1	359	INTERGENIC	--	--	--
scaffold208_P2_255443	scaffold208	255443	TGG/TG	CCGATGCCACACCAAC TTAT	GATGTTTTAATTGCGAG CATGA	60.1	100	INTERGENIC	--	--	--
scaffold208_P2_388434	scaffold208	388434	TNNNNNNNNN/TNN	GGATTCCACAATGTTGT CCC	AACGGTGGCTCATAAA GTGG	60.0	309	INTRON	Ca_25685	--	--
scaffold208_P2_434062	scaffold208	434062	T/TC	TGATCAATCTGGGCATA CGA	AACGTGGGTACGTCC AGTC	59.9	849	INTERGENIC	--	--	--
scaffold208_P2_95031	scaffold208	95031	ATATTATTATTATTACTATTATT ATTAT/ATATTATTATTATTATTATTA TTACTATTATTATTAT	CATTGGATGCACATT CAG	TCAATCACCACAAACAT CCC	59.2	720	INTERGENIC	--	--	--
scaffold2089_P2_805	scaffold2089	805	AT/A	TTGCGGTTTCGGTATTAT GGT	AAACCCAAACGCTAAA CCCT	59.9	587	INTERGENIC	--	--	--
scaffold2089_P2_952	scaffold2089	952	GC/G	GCAAAAGGGCCAATTG ATT	AACCGCAAAACACTAAA GCC	59.3	502	INTERGENIC	--	--	--
scaffold2095_P2_18199	scaffold2095	18199	AATATATATATATATATATAT/AATATA TATATATATATATATAT	GGACAATTCATTTC TTTCC	AACTTTTTCACCACAAA AATTTAGAA	58.7	767	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold210_P2_505998	scaffold210	505998	AT/ACTCTTTCCCT	CTCCACCCATACTGCAT TTGT	ATCGGACCAAGGGAAG AACT	59.9	184	INTERGENIC	--	--	--
scaffold210_P2_532061	scaffold210	532061	CATATATAT/CATATAT	AAGCGCTGTAATATGC CCAC	CTGGGCAAGGGATCTG AATA	60.0	639	DRR	Ca_21912	--	Trihelix
scaffold210_P2_565254	scaffold210	565254	G/GT	TTCGGTCATTTTGTCC TCC	TTGGATGCACATGATT GGTT	59.8	815	INTERGENIC	--	--	--
scaffold210_P2_577121	scaffold210	577121	AGAAATCGATTGG/AGAAATCGATTG GAAATCGATTGG	TTGCCAAGTGTGGATG TTGT	GGGTACGAACCGGTAG GATT	60.1	947	INTERGENIC	--	--	--
scaffold210_P2_621722	scaffold210	621722	AGCCTGGCCTGGCCTGGCCT/AGCCTG GCCTGGCCTGGCCTGGCCT	TAGGCTTCTAGGCCAG ACCA	CCAATGGTACGTCCAG TCCT	59.8	503	INTERGENIC	--	--	--
scaffold2103_P2_124113	scaffold2103	124113	AG/AGG	AACCCAATCACTGGAG ATGC	AGGAAGAGTGGAGTTG CGAA	60.0	540	INTERGENIC	--	--	--
scaffold2103_P2_124174	scaffold2103	124174	GTTTTC/GTTTTCATTTTC	AACCCAATCACTGGAG ATGC	AGGAAGAGTGGAGTTG CGAA	60.0	540	INTERGENIC	--	--	--
scaffold2103_P2_145039	scaffold2103	145039	GTATATATATATATATATAT/ATATAT ATATATATATATAT	GCCAGAACCCGACCA TACT	CCAAGTGTACAACCTG GTGTCT	59.0	581	INTERGENIC	--	--	--
scaffold212_P2_125792	scaffold212	125792	T/TTC	TGTCCAATCTAGGGGT CAAA	AATTTGCCAATTCAGG CAG	60.1	641	INTERGENIC	--	--	--
scaffold212_P2_180804	scaffold212	180804	T/TA	CGAAGATTCAAGGCA AAAG	CCGTTCTTGTTTTCAC ACA	59.6	722	INTERGENIC	--	--	--
scaffold212_P2_207447	scaffold212	207447	ATTT/ATTTT	GACAAAAGTCATGACG GCCT	TATGAATGAGCAGCAG TGCC	60.0	514	INTERGENIC	--	--	--
scaffold212_P2_405390	scaffold212	405390	TTATATATATATATATATATATATAT/T TATATATATATATATATATATATATAT AT	ACACCGCTACATCACTG TCG	AAACGCAATCCTTGAG TTCG	60.2	395	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2170_P2_14347	scaffold2170	14347	AC/ACC	GCTATTCTTGTCCCA AAA	GCCTCTGCTAATTGGT CTCG	60.0	583	INTRON	Ca_26929	O	--
scaffold2170_P2_4201	scaffold2170	4201	ATTGGCTTCGTGGTCTTTGGCT/ATT TGGCT	GCTATCGGTCACCTGGT TGGT	CGAGGACCAGCTTTGG TAAG	59.9	372	INTERGENIC	--	--	--
scaffold2170_P2_5002	scaffold2170	5002	AACCTTACCTTACCTTACCT/AACCTTA CCTTACCT	GCAATCAAGGTTGCA GTCA	ACACTCTAATGGGGAC AGCG	60.1	222	INTRON	Ca_26928	YU	--
scaffold2170_P2_5357	scaffold2170	5357	C/CTATTGGG	CGCTGTCCCCATTAGA GTGT	GTTTGCCAATTAGGGC ACAT	59.8	387	INTRON	Ca_26928	YU	--
scaffold2173_P2_19315	scaffold2173	19315	TAAAAAAAA/TAAAAAAAA	GGACAAAAATGACCCAA ACG	TTTTGTCCTCCCTTGG CTTA	59.7	513	INTERGENIC	--	--	--
scaffold2173_P2_19619	scaffold2173	19619	TAAAAAA/TAAAAAA	GGATGACACAAACGCA CCTA	ATTTTGTCTCCCTTG GCT	59.9	385	INTERGENIC	--	--	--
scaffold2173_P2_19824	scaffold2173	19824	A/AG	CCAAGGGAGGACAAAA ATGA	TTTTCGTCTTCACAGG CTT	59.9	515	INTERGENIC	--	--	--
scaffold2173_P2_56248	scaffold2173	56248	ATT/AT	CCTTGGGAAGACGAAA ATGA	CCATCCAATACGTGTG CTTG	60.0	363	INTERGENIC	--	--	--
scaffold2173_P2_56515	scaffold2173	56515	GACACCAACACACCAA/GACACCAA	CCTTGGGAAGACGAAA ATGA	TCCAATCTGGTCCATC CAAT	60.1	673	INTERGENIC	--	--	--
scaffold2177_P2_10444	scaffold2177	10444	CATTAATT/CATT	CCGTGGAATTGATGGA ACTT	CTGCCACTTCGAGAAC AACA	60.0	331	INTRON	Ca_27883	--	--
scaffold2177_P2_9615	scaffold2177	9615	TTATATATATATATATAT/TTATATATA TATATATATATAT	TGCCACTCCAGTTT CAA	GCTCCATTGTGGTTC CAAT	59.8	415	INTRON	Ca_27883	--	--
scaffold2179_P2_20401	scaffold2179	20401	CTTTT/CTTT	GGGACACGTGTTGTCC TTTT	AATGTCAAGGATGGCC TCAC	59.9	601	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2179_P2_20793	scaffold2179	20793	TCCCC/TCCCC	ATCAGCGAGGATGCAG AACT	CATCGCTCAGTTTGGA CTCA	60.0	789	INTERGENIC	--	--	--
scaffold2179_P2_35934	scaffold2179	35934	TG/TGCG	GAATTTGAACCTCCAAG CCA	ATAGCGGAGAAGCCCA TACA	59.7	404	INTERGENIC	--	--	--
scaffold2179_P2_35973	scaffold2179	35973	TC/TCC	GAATTTGAACCTCCAAG CCA	ATAGCGGAGAAGCCCA TACA	59.7	404	INTERGENIC	--	--	--
scaffold2179_P2_36066	scaffold2179	36066	ATAG/A	GAATTTGAACCTCCAAG CCA	TGCATTCCACATACAAG GGA	59.9	582	INTERGENIC	--	--	--
scaffold2179_P2_82346	scaffold2179	82346	AT/ATT	GCTTGGAAACAGCCTC AGAC	CCCGGTGCAAACCTCTA TGTT	60.0	595	INTERGENIC	--	--	--
scaffold2183_P2_16999	scaffold2183	16999	AATATATATA/AATATATATATA	TTGGCAAATTGATTCAT GCT	AACACACGCACCAACA AAGA	60.2	437	INTERGENIC	--	--	--
scaffold2183_P2_19955	scaffold2183	19955	TATTAATTAATT/TATTAATT	TAGGGCGATTTCGTAC CAC	TTTTCGCATATTTATTT GACAACTC	58.7	468	INTERGENIC	--	--	--
scaffold2183_P2_45036	scaffold2183	45036	GAAA/GAAAA	CTAGCCCTCGTCTGTTC CAG	GCGGAACCTGAAACAC ATTT	60.0	148	INTERGENIC	--	--	--
scaffold2183_P2_65749	scaffold2183	65749	A/AG	CCCATCGATGATAATG GACC	CTAGTCATCGTCTGGT GCGA	60.0	380	INTERGENIC	--	--	--
scaffold2183_P2_67523	scaffold2183	67523	GT/G	AGTCGCTCGAAAAGTC CAAA	TCCTGGTCTCGATTT CATC	60.0	528	INTERGENIC	--	--	--
scaffold2183_P2_67873	scaffold2183	67873	ATTTTT/ATTTT	GATGAAATCGAGGACC AGGA	TTTCATCTGGACTTTTC GGG	60.0	333	INTERGENIC	--	--	--
scaffold2183_P2_69871	scaffold2183	69871	ATTTTT/ATTTTTT	GATGAAATCGAGGACT GGGA	TGAAATCTAGCGCAGA CCCT	60.0	245	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2183_P2_70044	scaffold2183	70044	AGGGG/AGGGGG	AGGGTCTGCGCTAGAT TTCA	AGGGTTTCTCGGTCCT TGAT	59.9	127	INTERGENIC	--	--	--
scaffold2192_P2_106941	scaffold2192	106941	CTATTATTATTATTATTATTATTATT/ CTATTATTATTATTATTATTATTATT ATT	TGGTCTCCCTCTCCTC TCA	TTCCATTGCGCAAAATC ATA	60.0	483	INTERGENIC	--	--	--
scaffold2192_P2_108939	scaffold2192	108939	T/TGAG	GGTTGCCACTGACTTG TTCA	TGCCTTAAGTACAAA GGGG	60.1	515	INTERGENIC	--	--	--
scaffold2192_P2_108968	scaffold2192	108968	TAAAA/TAAAAA	GGTTGCCACTGACTTG TTCA	TGCCTTAAGTACAAA GGGG	60.1	515	INTERGENIC	--	--	--
scaffold2192_P2_182859	scaffold2192	182859	CTT/CT	CAGGGCAAGAAGTAGG GAAA	AGTGGCACAAGCATGT TCAG	59.9	231	INTRON	Ca_26815	R	--
scaffold2192_P2_2178	scaffold2192	2178	GA/GAGAA	CATGGAGTTGAAATGG CAAA	CGTTGTAAAAATCGG GGTG	60.2	589	INTERGENIC	--	--	--
scaffold2192_P2_9341	scaffold2192	9341	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATAT ATAT	GCGTTTGACGGTTTTG AAAT	CTTTTGATGCCCCGATT AAA	59.9	625	INTERGENIC	--	--	--
scaffold2193_P2_106205	scaffold2193	106205	AATATATATATATATATATATATAT ATATATATATATATAT/AATATATAT ATATATATATATATATATATATATAT TATATATATAT	GTTTAAGCCCTTTGAG CCT	TAATGTGGCCAAGGTA AGGG	59.8	385	INTERGENIC	--	--	--
scaffold2193_P2_106525	scaffold2193	106525	T/TGAG	GTTTAAGCCCTTTGAG CCT	CACAACCAAGGCAAC AAGA	59.7	595	INTERGENIC	--	--	--
scaffold2193_P2_125126	scaffold2193	125126	T/TG	ACCCAATTACTGGAGAT GCG	CCCCATTCTTAACGCA CAGT	60.0	757	INTERGENIC	--	--	--
scaffold2193_P2_161568	scaffold2193	161568	ATTTTTTTTT/ATTTTTTTTTT	CCGTTTCGAGTCTCAA GGAG	GCTTCCATGTTGCTCC TCTC	60.0	679	INTERGENIC	--	--	--
scaffold2193_P2_31576	scaffold2193	31576	AA/ACA	GCCAATAGAGGATGGA AGCA	TATGCCAAAGCCATGT TTCA	60.1	437	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/Pil)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold22_P2_24507	scaffold22	24507	AAT/A	ATGAGGCTCAAATGC CATC	GCCAACTTTTCCAATG CCTA	60.1	727	INTERGENIC	--	--	--
scaffold22_P2_30453	scaffold22	30453	A/AG	CCTGAGTTGCTCAAAG CACA	CTTCCTTCGCACATGA CAGA	60.0	514	INTERGENIC	--	--	--
scaffold22_P2_34379	scaffold22	34379	CAAA/CAA	CAACGACACACATGCA CAAG	CAAAACACACGCTCTC TCCA	60.0	624	INTERGENIC	--	--	--
scaffold22_P2_34524	scaffold22	34524	GTTTTT/GTTTTTTT	GCAGCATCGCAGATCA TAGA	CGAATTGGGTTTCGT TCTC	59.5	181	INTERGENIC	--	--	--
scaffold22_P2_34610	scaffold22	34610	T/TAGG	TGGAGAGAGCGTGTGT TTTG	GCCGTGCATAGAGTCC TTGT	60.3	534	INTERGENIC	--	--	--
scaffold2205_P2_48898	scaffold2205	48898	CG/C	TCATTTTCGTCTCCCT ACG	CGCCGAAGATTGGTTA AAAA	60.1	362	INTERGENIC	--	--	--
scaffold2205_P2_49159	scaffold2205	49159	ATT/ATTT	TTTTTAACCAATCTTCG GCG	AGGGAGGACGAAAATG ACCT	59.9	272	INTERGENIC	--	--	--
scaffold2205_P2_817	scaffold2205	817	AG/AGG	ACGTCCCTCCCTAGGCG TATT	TTGGATGCACAAGATT GGTT	59.0	211	INTERGENIC	--	--	--
scaffold2208_P2_20005	scaffold2208	20005	CA/CATA	CAAAACACCTGTTGGA TGC	CCCTAGGCTTATTCTTG CCC	60.1	362	INTERGENIC	--	--	--
scaffold221_P2_32453	scaffold221	32453	ATT/AT	AAGGAGGAAGGAGTTG GGAA	ATATTGGCTCGGAGGC TTTT	60.1	491	INTERGENIC	--	--	--
scaffold221_P2_36812	scaffold221	36812	AT/ATT	TAGAACAGCGCTTTCA GCAA	AATGTTTGGTTGCAAA CCG	60.7	502	INTERGENIC	--	--	--
scaffold221_P2_61534	scaffold221	61534	CT/CTAAGTGTATGT	CCCGTGATAGGCAGTA CGTT	CGATTTCCCTGCATGTT TTT	59.9	352	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2210_P2_15184	scaffold2210	15184	CG/CGGATTG	TCCAGATGAAATCGAG GACC	AAATCCGACACGTAAC TCGG	60.0	531	INTERGENIC	--	--	--
scaffold2210_P2_36171	scaffold2210	36171	AATTATATTA/AATTA	TCTTCGTTATGCAGTCA AACCT	TGCAAGAAAACACCAT GAATTG	59.9	612	INTERGENIC	--	--	--
scaffold2210_P2_36295	scaffold2210	36295	ATTTTTTT/ATTTTTTTT	TCTTCGTTATGCAGTCA AACCT	TGCAAGAAAACACCAT GAATTG	59.9	612	INTERGENIC	--	--	--
scaffold2216_P2_16725	scaffold2216	16725	AATATATATATATATATAT/AATATATATATATAT	CTATCGGCTCGACCAA TGAT	TTTTGGCTGGGTATAG GCAC	60.0	451	INTERGENIC	--	--	--
scaffold222_P2_31033	scaffold222	31033	GAAAAAAAAA/GAAAAAAAAA	TGTTTTTGTGGACGGA TGA	ACCGTCAATGGTTGA CACA	59.9	586	INTERGENIC	--	--	--
scaffold222_P2_40304	scaffold222	40304	CTTTTTTTTT/CTTTTTTTTT	GGTTGTTCCCTAACCA GCA	GGTATCGGGGAACAG ATTCTC	60.2	279	INTERGENIC	--	--	--
scaffold222_P2_74225	scaffold222	74225	TAAAAAAAA/TAAAAAAAA	CAAAACACACCGACAC GAC	TCCGTTTGATAATCCC AAT	60.2	500	INTERGENIC	--	--	--
scaffold2222_P2_1209	scaffold2222	1209	G/GGATGCACAA	TGGATGCACAAGGTTG GTTA	AGGTCATTTTCGTCCTC CCT	59.9	559	INTERGENIC	--	--	--
scaffold2227_P2_27932	scaffold2227	27932	CCCCAATCGATTG/CCCCAATCGATTGC CCAATCGATTG	TCAGCCCAGGATTTTGT TTC	CCCGTGAGATCCTCCT AACA	60.1	537	INTERGENIC	--	--	--
scaffold2227_P2_3017	scaffold2227	3017	ATTTTTTTTTT/ATTTTTTTTTT	TTTGCAATATGCATTAC CAAAAT	GCACGATTCACGATGG TTTA	59.5	426	INTERGENIC	--	--	--
scaffold2227_P2_31662	scaffold2227	31662	AATATATATATATATATATA/AATATATATATATATATA	CTTGGAAGTGGAGAG CAAG	AATGGAGGAAGGAGGG AGAA	60.0	541	INTERGENIC	--	--	--
scaffold2227_P2_5515	scaffold2227	5515	AC/A	GAACCCATTGCAATAG TTTTT	TGACAGCTGGACACTT TTTCA	59.5	980	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2227_P2_63445	scaffold2227	63445	ATTTTTTTTT/ATTTTTTT	TGCTCCCTCCTTACCAC CAC	GGCGAGGCTAAGAAC ACAC	59.9	473	INTERGENIC	--	--	--
scaffold2227_P2_7924	scaffold2227	7924	ATTTTTTTTT/ATTTTTTTTT	ATCAATGGTCGCCTTCT TCA	GGTCCTCGATTTCATCT GGA	60.0	832	INTERGENIC	--	--	--
scaffold2227_P2_7998	scaffold2227	7998	TAAAAAAAA/TAAAAAAAA	TTTGACCAAACTCATT TGCAC	GGTCCTCGATTTCATCT GGA	60.0	418	INTERGENIC	--	--	--
scaffold223_P2_115867	scaffold223	115867	TTTT/TTTTCCGTAATAAATT	TGGCTTGAACAAGATG CATAG	AACCGAAAAATACGGG GAAC	60.1	195	DRR	Ca_25621	--	--
scaffold223_P2_13807	scaffold223	13807	AG/A	CCATGCCTTTCCCATTA AGA	CGTGGAAAACTCCCT CAAA	60.1	883	INTERGENIC	--	--	--
scaffold223_P2_15410	scaffold223	15410	NA/A,C,G,T	AGCTCCGAGTGGAAG TTGA	TGAGCCACCAGTTGAA TTTG	59.7	939	INTERGENIC	--	--	--
scaffold223_P2_155491	scaffold223	155491	TTATTTATAT/TTAT	CCGTACCGTTTCTGGG ATAA	TCTCCGCATAAGCTTTC GAT	59.9	709	INTERGENIC	--	--	--
scaffold223_P2_166259	scaffold223	166259	TAAAAAAAA/TAAAAAAAA	ATTCGCCTAACCAAAA GCA	CTCCCCCTTTGTATC AGA	60.0	350	INTERGENIC	--	--	--
scaffold223_P2_171447	scaffold223	171447	GTTTTTTTTT/GTTTTTTTTT	GATTGGACTGCGACTC GTTT	CGTTTACTGCAACAAT GGG	59.1	682	INTERGENIC	--	--	--
scaffold223_P2_177357	scaffold223	177357	TACT/TACTAACAACT	GACCAGCAGCAAACTC TTCC	AGATGTAAGCTCCGAT GCGT	59.9	971	INTERGENIC	--	--	--
scaffold223_P2_178860	scaffold223	178860	A/ATTG	AGGGGTTGGTGTTTAT GTCG	CGCCTCAACACAGATT AGCA	60.0	629	INTERGENIC	--	--	--
scaffold223_P2_67883	scaffold223	67883	CATATATATATATATA/CATATATATA TATATATATA	TAGCGTGAATCACAAT CCA	TGATTGTGTTCCTTTG CGA	60.2	246	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation		
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs	
scaffold223_P2_82674	scaffold223	82674	GTTTTTT/GTTTTTTT	AATCTTCCCATGGATGT TTCA	TCAGCAAAGTCAAGAA GGCA	59.7	541	INTERGENIC	--	--	--	--
scaffold223_P2_93831	scaffold223	93831	CT/CTTT	AGCTTTTATCTTGGCC TCC	CCATCCACCATATTTGC TCA	59.4	549	INTERGENIC	--	--	--	--
scaffold223_P2_95879	scaffold223	95879	AGCGACTACT/A	TTGGTCTCCTTGTTGT TGC	TGGAGACCCCTTGATG AAAC	59.9	502	INTERGENIC	--	--	--	--
scaffold2235_P2_878	scaffold2235	878	GTTTT/GTTTTT	AGGTCATTTTCTGCTCC CCT	TTGGATGCACAAGATT GGTT	59.0	267	INTERGENIC	--	--	--	--
scaffold2239_P2_2127	scaffold2239	2127	ATTTTTT/ATTTT	TGCAAAAACCACTTTCA AGG	TTTGGACCAATTTTGTG GCT	60.3	600	INTERGENIC	--	--	--	--
scaffold224_P2_252057	scaffold224	252057	CAAAAAAAAA/CAAAAAAAAA	AAAAGCAAATGCTCCCA CTG	AAGCAATGCAAAAGGT GGAC	60.1	430	INTERGENIC	--	--	--	--
scaffold2249_P2_1002	scaffold2249	1002	CT/CTT	TATCCCACCCACGATC ATT	CAACCAAGCCATTTTCC ATT	59.8	871	INTERGENIC	--	--	--	--
scaffold2249_P2_12435	scaffold2249	12435	CCAA/CCAACAA	CAGCTGAATACCAAGC GTGA	TGTCACCAAAATCTCGT CCA	60.1	772	INTERGENIC	--	--	--	--
scaffold2249_P2_1337	scaffold2249	1337	TC/TCC	CTTTGTTCAATTGCTTG CCA	TTTGGGTGTCGAATTG TGAA	59.9	680	INTERGENIC	--	--	--	--
scaffold2249_P2_72865	scaffold2249	72865	ATAGGGTTTAGGGTTTAGGGTTTAGGG TTTAGGGTTTAGG/ATAGGGTTTAGGGT TTAGGGTTTAGGGTTTAGGGTTTAGGG TTTAGG	GCGTTTCGGGTATTG GTTA	CTTTGCACTTATGCGA CGA	60.0	702	INTERGENIC	--	--	--	--
scaffold2263_P2_2120	scaffold2263	2120	A/AG	CAAAGGGAGGACGAAA ATGA	CCAACGTTGTGCATCC AATA	60.4	171	INTERGENIC	--	--	--	--
scaffold2269_P2_121644	scaffold2269	121644	TAAAAAAAA/TAAAAAAAA	TTTGATGAAGTTGATGC CCA	TGACTTGTTCTTTCAC GGC	59.9	645	DRR	Ca_27079	R	G2-like	

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2269_P2_23841	scaffold2269	23841	TC/T	TCCGCTGACTGGAAAGAT	TTCCCAATTATCAGGCAAGG	59.9	327	INTERGENIC	--	--	--
scaffold2269_P2_43256	scaffold2269	43256	A/ACGATTC	TCATCCCAAGGGAAATGAA	CTTTATTGGTCCCCCACTT	60.0	308	INTERGENIC	--	--	--
scaffold2269_P2_45593	scaffold2269	45593	TCC/TAACC	CTTTGAGAAGCAGGCCATTCT	CGTTTGCCTGAGGTTTCTAT	60.0	562	DRR	Ca_27076	--	--
scaffold2269_P2_68414	scaffold2269	68414	A/ATTATATAT	CGTGTGAGAAAACTCTGACAA	GTTTCGAAATGCCGATTTCAC	60.5	469	INTERGENIC	--	--	--
scaffold227_P2_135497	scaffold227	135497	TCC/TCCC	CTTGGATGTGGTAGCCGTTT	GGTCTTGTGGTGGCTTCTGT	60.0	651	INTRON	Ca_25190	--	--
scaffold227_P2_140947	scaffold227	140947	TTA/TTAAAAGTA	ACCCTTTTGTCCACACGAG	TACGGATGTTGACGCATGAT	60.0	511	INTRON	Ca_25190	--	--
scaffold227_P2_144419	scaffold227	144419	C/CACAATAG	CCTCAAACTTCCATGGCCTA	CAACTGGAATTTTCGGGAGA	60.0	641	DRR	Ca_25191	--	--
scaffold227_P2_194227	scaffold227	194227	GTTTTTTTTTTT/GTTTTTTTTTTT	CTCGCCTATTGCACTGACA	GGTGTGATTGAGTTTCGGCT	60.1	400	INTERGENIC	--	--	--
scaffold227_P2_194790	scaffold227	194790	TAAAAAAAA/TAAAAAAAA	GCCGAACTCAATCACACCT	TGCCAGTTTGTCGGATAAGTT	59.6	429	INTERGENIC	--	--	--
scaffold227_P2_194942	scaffold227	194942	CTTTTTTTTTTTTTTT/CTTTTTTTTTTT	TTATCCGACAACTGGCACC	TGGTTGGTTGTATGTTGGG	59.1	472	INTERGENIC	--	--	--
scaffold227_P2_195682	scaffold227	195682	CAA/CAAA	AGACACAAACCCGCAATAG	GGATGCCACCATTCAGTTT	59.8	338	INTERGENIC	--	--	--
scaffold227_P2_196111	scaffold227	196111	TAAAAAA/TAAAAAA	AAACTTGAATGGTGGCATCC	AGTAATGAATGGGCGAGTGG	60.0	595	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold227_P2_196280	scaffold227	196280	TAAAA/TAAAAA	AAACTTGAATGGTGGC ATCC	AGTAATGAATGGGCGA GTGG	60.0	595	INTERGENIC	--	--	--
scaffold227_P2_197474	scaffold227	197474	TAAAAAAA/TAAAAA	CCTAATGGCGAAATT GTGT	TAATCAGACCGTGTGG GTGA	60.0	626	INTERGENIC	--	--	--
scaffold227_P2_314530	scaffold227	314530	CG/CGG	TTTTACGCAAAATGCT CAG	CTCCAAGGCGTGGTAT TGAT	60.0	748	INTERGENIC	--	--	--
scaffold227_P2_324009	scaffold227	324009	CTTATTATTATTAT/CTTATTATTAT ATTATTATTAT	TGGGGGTTTAGATTCG GTAA	CCAATGCTTTGTTGGT GATG	60.0	958	INTERGENIC	--	--	--
scaffold227_P2_325938	scaffold227	325938	CTATATATATATATATATATAT/CTATA TATATATATATATATATATATATAT	CAATTCTTGATTGGCAT GCTT	GCTAATTTTTCGCGTCT TCG	60.0	327	INTERGENIC	--	--	--
scaffold227_P2_342099	scaffold227	342099	G/GC	CATATACCAAAATTGAG TTGTCAAAA	GGGTTTTGGATTAAAG GTTCCG	59.7	791	INTERGENIC	--	--	--
scaffold227_P2_34781	scaffold227	34781	TAAAAA/TAAAAA	TGAATAGCGAGTGTGT GGG	TGCACATAGTAAACTT GGCG	58.9	639	INTERGENIC	--	--	--
scaffold227_P2_385803	scaffold227	385803	T/TA	ATGTTGGTTTGGGGA AACA	GGAGGATGGTAACGAC GAAA	59.9	216	INTERGENIC	--	--	--
scaffold227_P2_59932	scaffold227	59932	TAGCATGATAGAC/T	TGGGGTGTACAATTCT CCC	AAATTTGTTGAATGTTT GGTGA	57.1	473	INTERGENIC	--	--	--
scaffold227_P2_79102	scaffold227	79102	TCCC/TCC	GCTAGTGTGAGATGAG GCCA	TCACTAACCATTAGCA CCAAAAA	59.9	501	INTERGENIC	--	--	--
scaffold2273_P2_24397	scaffold2273	24397	CT/C	TCGACTTGTCATCTGCT TTG	GGGGGAGATTGTTGGA TTTT	60.0	632	DRR	Ca_28242	--	--
scaffold2273_P2_24986	scaffold2273	24986	GAAAA/GAAAA	AAATCCAACAATCTCC CCC	CCCTGCTACTCCTGCT TTTTG	60.0	590	DRR	Ca_28242	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2275_P2_15734	scaffold2275	15734	AATATATATATATATATATATAT/ATA TATATATATATATATATAT	AGTGATAACCCGTGC GTCG	TTGGAGTCATGCTTTT ATCA	59.3	229	INTERGENIC	--	--	--
scaffold228_P2_136549	scaffold228	136549	A/AC	GATGAAATCGAGGACA GGGA	TGCGTCTTTCTCAAGT GCAT	59.6	445	INTERGENIC	--	--	--
scaffold228_P2_147649	scaffold228	147649	AACACTTGCCA/AA	GATGAAATCGAGGACT GGGA	TTCTGGCGATTTTCGTA TCC	60.0	319	INTERGENIC	--	--	--
scaffold228_P2_149352	scaffold228	149352	GTTT/GTT	TGTCGAGGGGTACGAA AATC	TCCAGATGAAATCGAG GACC	60.0	463	INTERGENIC	--	--	--
scaffold228_P2_176693	scaffold228	176693	ATATTATTATTATTAT/ATATTATTATTAT	GGTTTCGAGGAAACTG GACA	TTGTTTATTTGACAACT CAATTGTTCT	59.5	794	INTERGENIC	--	--	--
scaffold2289_P2_12871	scaffold2289	12871	ATTT/ATTTT	TGTGTTTGTGCCATTGG ATT	AGGGAGGATGAAAACG ACCT	59.9	475	INTERGENIC	--	--	--
scaffold229_P2_13642	scaffold229	13642	A/AG	TTGGATGCCTAAGACT GCCT	AGGTCATTTTCGTCCTC CCT	59.9	168	INTERGENIC	--	--	--
scaffold229_P2_161012	scaffold229	161012	GAAAA/GAAAAA	GACAAGAATATGCCTG GGGA	AGGTCATTGCACTCT CCCT	60.9	404	INTERGENIC	--	--	--
scaffold229_P2_81575	scaffold229	81575	AAGG/AAGGAGG	TAGGGAGGACGAAAT GACG	AACCATTATGTGCATC CAA	59.8	865	INTERGENIC	--	--	--
scaffold2301_P2_22791	scaffold2301	22791	CTT/CT	CAACACACCTGTTGGA TGC	CCTCGCTTGGCTTATT CTTG	60.0	466	INTERGENIC	--	--	--
scaffold2301_P2_3312	scaffold2301	3312	C/CT	CCTAGGGTGGACGAAA ATCA	ATCCTCCCGTGGCTTA TTCT	59.9	232	INTERGENIC	--	--	--
scaffold2301_P2_53057	scaffold2301	53057	AACCCTA/AA	ACCTACGGACGACGAA AATG	TTGTGCATCGGTGTTTT TGT	60.0	161	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2301_P2_53889	scaffold2301	53889	CAAATGAACCTATTGGAT/C	ACACAAATGCACCTGTT GGA	TCATTTTCGCCTCCTT TGG	60.0	554	INTERGENIC	--	--	--
scaffold2301_P2_54382	scaffold2301	54382	ATG/ATGTG	CCAAAGGAGGACGAAA ATGA	GCGTGTTTGTGACATT GGAG	60.2	349	INTERGENIC	--	--	--
scaffold2301_P2_54476	scaffold2301	54476	C/CA	TGGATGCACATGATTG GTTT	AGGTCATTTTCGCCTC CCT	59.9	316	INTERGENIC	--	--	--
scaffold2301_P2_56350	scaffold2301	56350	TT/TTTAT	GAGGATACCGGGAATA AGGG	TGACAAAACTAAGGG AGGTTG	58.3	351	INTERGENIC	--	--	--
scaffold2301_P2_64945	scaffold2301	64945	AT/ATCATGT	GCTTAATTTTCAAGAAG GCG	AAGGCATCGTCACATC TTCC	60.1	116	INTERGENIC	--	--	--
scaffold2301_P2_65310	scaffold2301	65310	A/AG	GCTTAATTTTCAAGAAG GCG	TGAAATTCAAATAAAGT CAACATATTC	57.1	224	INTERGENIC	--	--	--
scaffold2322_P2_7706	scaffold2322	7706	ATT/ATTT	CGCAACACCAAGAGAA CAAA	TCCGTTAACCGTCTAC CGTC	60.0	500	INTERGENIC	--	--	--
scaffold2325_P2_58485	scaffold2325	58485	TAA/TA	AGGTCGTTTTTCGTCCTC CTT	GCATGCCCAAGATTGG TAAA	60.8	268	INTERGENIC	--	--	--
scaffold2328_P2_13583	scaffold2328	13583	GTTTT/GTTTTT	TGTGTTTGTGCCATTGG AGT	AGGGAGGACGAAAATG ACCT	59.9	245	INTERGENIC	--	--	--
scaffold2330_P2_47292	scaffold2330	47292	AATATATATATATATATATATAT ATA/AATATATATATATATATATATA TATATATATA	ACCACATGATGCTCTCC ACA	TTAGTCGAGGCCAGAT TGCT	60.0	567	INTERGENIC	--	--	--
scaffold2330_P2_94960	scaffold2330	94960	AATATATATATATATATATA/AATATAT ATATATATATATA	AACCAAGTTCCAAATG ACG	CTTCGCAGCACTTCC TCCT	59.7	863	INTERGENIC	--	--	--
scaffold2345_P2_11872	scaffold2345	11872	TG/T	TAGGTGGTACGAAAT CGCC	TTTCATCTGGACTTTTC GGG	60.0	364	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2373_P2_97344	scaffold2373	97344	TAAAAAAAAA/TAAAAAAAAA	AATTGTTGGATCTGCC TTG	GAGATTGAACACGCCA CTCT	59.3	888	DRR	Ca_27075	--	--
scaffold2375_P2_2747	scaffold2375	2747	CATATATATATATATATATATATAT ATA/CATATATATATATATATATATATA TATATATA	TAGCACCGTAGCGGAG AGAT	TGAGTTGAGTGCAAAC CTGG	59.9	797	INTERGENIC	--	--	--
scaffold2376_P2_4540	scaffold2376	4540	ACC/ACCC	TTCGGCGAACTACATTG ATTG	TAGGATTGGGTCTTC GGTG	59.9	819	INTERGENIC	--	--	--
scaffold2376_P2_540	scaffold2376	540	GCC/GC	CCGAGCCAAAATCCAAA ATA	CAAGGTGTTGCCGGTA GATT	60.0	366	INTERGENIC	--	--	--
scaffold2376_P2_9176	scaffold2376	9176	A/AT	AACAAAATGAACCAAAA CGGA	TGGGGTATGGGATTTA GGGT	60.3	405	INTERGENIC	--	--	--
scaffold2378_P2_17251	scaffold2378	17251	AGGTGAATGGTGAATGGTGAA/AGGTG AATGGTGAATGGTGAATGGTGAA	CATCACGTGTGTATT ACTTTATTTG	AAAACCTTTCCGCTGCT TGA	60.0	357	INTERGENIC	--	--	--
scaffold2378_P2_42351	scaffold2378	42351	GAACCCTAA/GAAACCCTAA	AACGCGAAAATCTAAAC CCC	TTCTTGTTTCGGATTTT GGG	59.9	855	INTERGENIC	--	--	--
scaffold2378_P2_5174	scaffold2378	5174	GAAA/GAA	TACCCAAAAGCCTAACC ACG	TTTCGGGATTCAAGTT GAGG	60.0	881	INTERGENIC	--	--	--
scaffold2382_P2_11649	scaffold2382	11649	TAAAAA/TAAAAA	CAGAAGAGGAACAAC AGAAGGA	ACGGAGTGACCAGGAA ACAC	60.0	229	INTERGENIC	--	--	--
scaffold2385_P2_4540	scaffold2385	4540	TAAAAA/TAAAAA	AAAGGGATGTGTGTG AATGAA	AAACATGCCGATCATAA CTCA	58.1	499	INTERGENIC	--	--	--
scaffold2385_P2_5093	scaffold2385	5093	TCC/TC	GAGTGAATTGTAACAG CCCAAA	GGACTTGGCGTGAAGA AGAA	60.4	720	INTERGENIC	--	--	--
scaffold2385_P2_5335	scaffold2385	5335	TT/TTTCAAT	GAGTGAATTGTAACAG CCCAAA	TCATTTGACGCTTTTCA CAC	59.8	968	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold2392_P2_20138	scaffold2392	20138	CATATAT/CATAT	CGCATCGAGACGAGAA AACT	GCGCGACCCCTTATAT TACA	60.0	871	INTERGENIC	--	--	--
scaffold2392_P2_264981	scaffold2392	264981	AATTATTATTATTATTATTATTATTA TTATTATTATTTTATTATTATTATTATTA TTATTATTATTATTATTATTAT/AATTATT ATTATTATTATTATTATTATTATTAT TATTATTTTATTATTATTATTATTATTAT TATTATTATTATTATTAT	TCCAAACCGTACCACAA ACA	TGATTGAAGTTGGAGG GAGT	57.1	587	INTERGENIC	--	--	--
scaffold2392_P2_321808	scaffold2392	321808	ATTT/ATT	GGAAAACCTAGGCCAAA ACCC	CATGCACACCCCATGT TAAA	60.2	692	INTERGENIC	--	--	--
scaffold2392_P2_326211	scaffold2392	326211	AATATTT/A	TCATTCCCCACCTACAC AAG	GTGCATGTGGCTGAAA AACA	60.7	552	INTERGENIC	--	--	--
scaffold2392_P2_354237	scaffold2392	354237	C/CGTGCAAAAAGT	TGTTGCGTTTTTCATTCT TTCA	TGGTGATGGAACAGCT TCAC	59.7	674	DRR	Ca_25138	KL	--
scaffold2392_P2_354336	scaffold2392	354336	AAACAA/AAA	TGTTGCGTTTTTCATTCT TTCA	TACCAAAATATCCCAGG CCAA	60.1	859	DRR	Ca_25138	KL	--
scaffold2392_P2_355121	scaffold2392	355121	GTTTTTTTTTTTT/GTTTTTTTTTTT	TGCACCCAATCTGCAAA TAA	TGGGCTAGTTAGCTTT TGCC	59.5	433	INTERGENIC	--	--	--
scaffold2392_P2_355152	scaffold2392	355152	ATTT/ATTTT	TGCACCCAATCTGCAAA TAA	TGGGCTAGTTAGCTTT TGCC	59.5	433	INTERGENIC	--	--	--
scaffold2392_P2_355244	scaffold2392	355244	AAATTATATT/AAATTATATTTTAATTATA TT	TGCACCCAATCTGCAAA TAA	TGGGCTAGTTAGCTTT TGCC	59.5	433	INTERGENIC	--	--	--
scaffold2392_P2_61080	scaffold2392	61080	CAGA/CA	CATCTGCGGTTTTCTCT ACA	TTCACACCTGATATG CGTC	59.5	164	INTERGENIC	--	--	--
scaffold2392_P2_61104	scaffold2392	61104	AAGAGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGA/AAGAGAGAGAGAGAGA GAGAGAGAGAGAGAGAGAGAGA	CATCTGCGGTTTTCTCT ACA	CCGTTACACGGTTTTG TTCA	59.5	180	INTERGENIC	--	--	--
scaffold2392_P2_73246	scaffold2392	73246	AGG/AG	AAAAACAAACCTTCCCC TCA	TTCCTCGTTGTATTGTG CCA	60.1	661	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold240_P2_148297	scaffold240	148297	TAG/TAGAGGAG	TGTGAGGCATGTCAA AAGG	CGGCTGTGTTTTCTG TGTC	59.3	822	DRR	Ca_25660	--	--
scaffold240_P2_150038	scaffold240	150038	GTATATATATATATATATATAT/GTAT ATATATATATATATATAT	GGAGGCTTTGAAATTA GGGC	CTCCAGCGCACAAACAT CTAA	60.0	783	INTERGENIC	--	--	--
scaffold240_P2_151385	scaffold240	151385	TAAAAAA/TAAAAAAA	AGATGCATGTGATGAAA CCAA	TACTCCCATTCTCTCC CTT	59.8	727	INTERGENIC	--	--	--
scaffold240_P2_156860	scaffold240	156860	AAACAACA/AAACA	GACAATCGCAGGAAGT GGTT	GCATTGCACAAAACA CAAC	60.0	699	INTERGENIC	--	--	--
scaffold240_P2_38776	scaffold240	38776	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	TATTTTGGATTTTGGCT CGG	TAGGAGAAACGGAGGG GTTT	59.9	575	INTERGENIC	--	--	--
scaffold240_P2_72976	scaffold240	72976	T/TTA	CAAGGTGTCGATGTTG GTTG	CTGGTGGCTACTTTCT TGGG	59.7	472	INTERGENIC	--	--	--
scaffold240_P2_73293	scaffold240	73293	TA/TAA	CAAGGTGTCGATGTTG GTTG	CTGGTGGCTACTTTCT TGGG	59.7	472	INTERGENIC	--	--	--
scaffold2408_P2_3294	scaffold2408	3294	AAAG/AAAAGGAAG	TCTATTCGTGTCATTCC GCA	ATTTCAGTGACAATG CGTC	59.7	321	INTERGENIC	--	--	--
scaffold2408_P2_4043	scaffold2408	4043	TTC/T	TGTTCTCATGAGGCAAT ATGCT	CAAAGAATTCATTGAT ACATGGC	59.9	594	INTERGENIC	--	--	--
scaffold2415_P2_126110	scaffold2415	126110	AGG/AG	CGTTTTTCAAAGCGAG GGTA	TGGAGAACTCTTCGG CTGT	60.0	128	INTERGENIC	--	--	--
scaffold2415_P2_137080	scaffold2415	137080	AATATATATATATATATATATATA/A ATATATATATATATATATATATA	ATCGTTGGAAGTAGGG ACCA	CCACCAACAACAATTC CCT	59.7	484	INTERGENIC	--	--	--
scaffold2415_P2_6244	scaffold2415	6244	ATTTTTTTTTT/ATTTTTTTTTT	CGGGAGATACGTAGGA GCAA	AATTCAATTGAGTCGC CACC	59.9	365	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold242_P2_104030	scaffold242	104030	GATA/GA	GGCAATTAATATTCGT ACCCG	TTGCAATCATGAGAAG TTGTTG	58.8	522	INTERGENIC	--	--	--
scaffold242_P2_106710	scaffold242	106710	TG/T	TGATAACATGATTTTC CCTCA	GCGAGCATGAGAAGT GTTG	59.6	581	INTERGENIC	--	--	--
scaffold242_P2_123686	scaffold242	123686	TTCAGAAAACTCAGAAAACTC/TTCA GAAAACTC	GCATCATGAGTTTTGTC CCA	CAATGAAGGTGACACG GTTG	60.0	367	INTERGENIC	--	--	--
scaffold242_P2_142433	scaffold242	142433	ATTTTTTT/ATTTTTTTT	TAACACCCACCATTA CGT	TGGTAGTGGGACTGTG TGGA	60.0	196	INTERGENIC	--	--	--
scaffold242_P2_154079	scaffold242	154079	ATTTTTTTTTTTTT/ATTTTTTTTTT	AATTTTGGGTCGAAGT TCG	CCCTCACCGTTATGA ATGT	59.7	425	INTERGENIC	--	--	--
scaffold242_P2_167554	scaffold242	167554	CAAAAAAAAA/CAAAAAAAAA	GAGGCCAAAACTCA CAAC	TTGGCGTAGTGTTCCT CTTGA	59.9	608	INTERGENIC	--	--	--
scaffold242_P2_170575	scaffold242	170575	TATAAATA/TATA	GGTGCTACAGTGTGCA AGCA	TCACAGCAACAATATCA TGCC	59.6	627	INTERGENIC	--	--	--
scaffold242_P2_173214	scaffold242	173214	TAAAA/TAAA	AGGTATGGACATGGGA TGGA	AGTAGGGGTGGCAAAA TGAA	59.4	505	INTERGENIC	--	--	--
scaffold242_P2_18888	scaffold242	18888	AT/A	TGGTCTGTCACTAATGG GCA	CAGGCTTCTTCGGAA CTTG	60.0	596	INTERGENIC	--	--	--
scaffold242_P2_201607	scaffold242	201607	TAAAA/TAAAAA	GTGACACCCTAAACCC CAAA	AGGTGATACCGGGAT AAGG	60.0	353	INTERGENIC	--	--	--
scaffold242_P2_225770	scaffold242	225770	CAAAAAA/CAAAAAA	TGTGTCAGAAGGATCTT GCG	CCTCTTTGATTGAGGA CCCA	60.0	667	INTERGENIC	--	--	--
scaffold242_P2_235256	scaffold242	235256	TAAAAA/TAAAAA	CAACGGTTGGCGATAT TCTT	TCGGTTGTGGTGAATT TTGA	59.9	842	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold242_P2_238083	scaffold242	238083	TATGCA/TA	TGCCAAATGAAGTTGG ACAC	CTCCAATATTTGACCG CCAC	60.3	391	INTERGENIC	--	--	--
scaffold242_P2_247505	scaffold242	247505	GAAAAAAAA/GAAAAAAAA	CCTCTGCAACAACACCA AAA	AAGGGAATTTTGAGCC AAGG	60.4	350	INTERGENIC	--	--	--
scaffold242_P2_25047	scaffold242	25047	GAAAAAAAA/GAAAAAAAA	CATGTGCCCAATGCTA TGA	GGCCACGTTACAACCT GAAT	59.9	607	INTERGENIC	--	--	--
scaffold242_P2_258886	scaffold242	258886	CCTTTTCTTTCTTTCT/CCTTTTCT	GTTGGTCCCTAGCAC CGTA	AGGTGAAAGTGGATTG GTGC	60.0	681	INTERGENIC	--	--	--
scaffold242_P2_260122	scaffold242	260122	T/TTG	TTCACCAACTTTGCAC CCA	AAAGAAAGCCGCTTAG AGGG	60.0	620	INTERGENIC	--	--	--
scaffold242_P2_284468	scaffold242	284468	ATATATATTTATATTTAT/ATATATATT TATATATTTATATTTATATTTAT	TTTGGGTTCCCAAGTGA AAG	CACCAATGCGTCTAAT CCCT	60.0	646	INTERGENIC	--	--	--
scaffold242_P2_289781	scaffold242	289781	CAAAAAA/CAAAAAA	TGGGTGCCACAAAAGT TACA	TCAAGGGAACGCTTGT GTTC	60.1	451	INTERGENIC	--	--	--
scaffold242_P2_313426	scaffold242	313426	ATTTTT/ATTTTT	CAATTACGATCAAGCG TCG	GAGAGGCTGTTTCAC TGGC	60.0	690	INTERGENIC	--	--	--
scaffold242_P2_316249	scaffold242	316249	TAAAAAAA/TAAAAAAA	CAGATGGCTGCTGTTT TCAA	GAAGGACATCGTGAA GGAA	60.1	614	INTERGENIC	--	--	--
scaffold242_P2_337641	scaffold242	337641	TT/TTGT	CCCCAAGTGAATAGG AAAA	ACATATGTGTCGCCGA CTTG	59.6	298	INTERGENIC	--	--	--
scaffold242_P2_359392	scaffold242	359392	TAAAAAAA/TAAAAAAA	CTGGTCAAGTAAGGGG CAAA	CTTCGGCTCTTCAAAAT TGC	60.0	540	INTERGENIC	--	--	--
scaffold242_P2_360834	scaffold242	360834	A/AT	TTTGGGAAGACTGTTT GGA	TAACTTTACACCCGCC CAC	59.9	763	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold242_P2_392971	scaffold242	392971	CGATTGGG/C	CGTTGGGAACAACCT GACT	TTCCCTCTAGCCCCT CTAA	60.2	721	INTERGENIC	--	--	--
scaffold242_P2_393693	scaffold242	393693	CAAAA/CAAAA	TTAGAGGGGCTAGGAG GGAA	TCGCCTTTGCAAAAC ATAC	59.7	487	INTERGENIC	--	--	--
scaffold242_P2_393744	scaffold242	393744	ATTTTTTTTT/ATTTTTTTTT	TTAGAGGGGCTAGGAG GGAA	TCGCCTTTGCAAAAC ATAC	59.7	487	INTERGENIC	--	--	--
scaffold242_P2_393856	scaffold242	393856	ACCCCC/ACCCC	TTAGAGGGGCTAGGAG GGAA	TCGCCTTTGCAAAAC ATAC	59.7	487	INTERGENIC	--	--	--
scaffold242_P2_394155	scaffold242	394155	CAAAAAAAAA/CAAAAAAAAA	TATGTGTTTGCAAGGC GAC	CCGTCTCTCGCAAATC TCTC	60.1	572	INTERGENIC	--	--	--
scaffold242_P2_416343	scaffold242	416343	GAAAA/GAAAA	CCAGGAGATGAGAGGT CCAA	TGGCTTCAACCATTTT TCC	59.9	435	INTERGENIC	--	--	--
scaffold242_P2_416740	scaffold242	416740	GAAAAAAAA/AAAAAAAAAAAA	GAGCACCATCCTTCCC ATAA	AACGCTATCACCAACC CAAG	60.0	377	INTERGENIC	--	--	--
scaffold242_P2_422391	scaffold242	422391	ATTTTTTT/ATTTTTTTTT	CAGGGGCCAATGTTT CTTA	AGCTCTGTTCAATGTC GTTCA	58.5	388	INTERGENIC	--	--	--
scaffold242_P2_423914	scaffold242	423914	ATATTTTGTATTTTTATTGTTATT TTTAT/ATATTTTGTATTTTTAT	GCAGTTAGGGGTGGAC AAAA	CCCTACAAATTATCCG GCA	59.8	554	INTERGENIC	--	--	--
scaffold242_P2_430857	scaffold242	430857	CAAAAAAAAA/CAAAAAAAAA	CCATACCACTACTTGT TTCCCA	GCTATCCCATTTTGG GGTT	60.2	802	INTERGENIC	--	--	--
scaffold242_P2_440827	scaffold242	440827	ACTT/ACTTCTT	TCTCACTCCGTCGTTCC TCT	GGTGTGTCATGACTG TTTGC	59.1	482	INTERGENIC	--	--	--
scaffold242_P2_458674	scaffold242	458674	TAAAAAA/TAAAAAA	GGCAACAAGCATATTG CTCA	TTGGATTCACTATTGCC TCA	60.0	294	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold242_P2_460229	scaffold242	460229	TAAA/TAAA	CCCCATGTAATTGTCAC GTC	CATGTTTTGTTGCCACC TTG	60.0	325	INTERGENIC	--	--	--
scaffold242_P2_466925	scaffold242	466925	ATTT/ATTTTT	CCCTTCCCTCTGCTTTC TCT	TTGCGCATGATTTTGCT ATC	59.8	418	DRR	Ca_22270	--	--
scaffold242_P2_490912	scaffold242	490912	TAAAAAA/TAAAAAAA	AGCGGTGCTCCAATAG TCAC	AGATTTCATCATACCC CCA	60.2	702	INTERGENIC	--	--	--
scaffold242_P2_494583	scaffold242	494583	ATTTTTTTT/ATTTTTTTTT	GTTGGACACCCAAACA CCTC	AATTAGGGGGCATAGG GATG	60.0	794	INTERGENIC	--	--	--
scaffold242_P2_494657	scaffold242	494657	TAAA/TAAA	GTTGGACACCCAAACA CCTC	AATTAGGGGGCATAGG GATG	60.0	794	INTERGENIC	--	--	--
scaffold242_P2_509048	scaffold242	509048	TAA/TAAA	AAAGGCCTGAAAGGGA AAAA	TGGGCTAACAGAAAAT CGCT	59.8	679	INTERGENIC	--	--	--
scaffold242_P2_509072	scaffold242	509072	GTATTATTATTATTATT/ATTTATTATTA TTATTATTATTATTATT	AAAGGCCTGAAAGGGA AAAA	TGGGCTAACAGAAAAT CGCT	59.8	679	INTERGENIC	--	--	--
scaffold242_P2_510870	scaffold242	510870	CAAAAAAAAA/CAAAAAAAAAAA	GGGGTGGGGGTATAAG AGAA	AATTGCAGTTTTGGTCC TCC	59.0	501	INTERGENIC	--	--	--
scaffold242_P2_511890	scaffold242	511890	ATTTTTTTTTT/ATTTTTTTTTT	AGTAATCCTTGTTCGCT GGG	AGGTACAAGCGGTCA TTTG	60.0	510	INTERGENIC	--	--	--
scaffold242_P2_514290	scaffold242	514290	ATTTTTTT/ATTTTTTTTT	TGGATTCAACAATGCAG AGG	ACCAACCCGAACCACT TTTT	60.6	332	INTERGENIC	--	--	--
scaffold242_P2_523949	scaffold242	523949	TC/TCC	CAAGGTGTGAGATCAA CCGA	TCATGACTTTTGACCGA CGA	60.2	417	INTERGENIC	--	--	--
scaffold242_P2_535276	scaffold242	535276	CAAAAA/CAAAAAA	AGTGCTTTGTGGAAAA GCGT	GTAGGTTTCGCAGAAA CGAG	59.9	566	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold242_P2_682804	scaffold242	682804	TAAAAAAAA/TAAAAAAAAA	TACCGAACCAAAAAGCTC	TTCTCCGTGAGACTTGCTT	60.0	528	INTERGENIC	--	--	--
scaffold242_P2_692807	scaffold242	692807	GAAA/GAAAA	TTGTCTTGCTTGCATCCTTG	TGTGTAAAGATTGGCGGTTG	59.6	399	DRR	Ca_22275	F	--
scaffold242_P2_696950	scaffold242	696950	TTATATATATATAT/TTATATATATATATATAT	CTGGCCATGAGGAATGAGTT	AACTACGCCTTGGTGGATTG	60.0	412	INTERGENIC	--	--	--
scaffold242_P2_710240	scaffold242	710240	TTTATTATTA/TTTATTA	ACTTGTTTACCACATGCCA	CTTCACGTGAGCCAACTCA	60.0	510	INTERGENIC	--	--	--
scaffold242_P2_721932	scaffold242	721932	ATT/ATTGTT	TGGTGACTCGTTCATATACCCA	AAAGACGGTGCCAAAATGT	59.5	882	INTERGENIC	--	--	--
scaffold242_P2_722081	scaffold242	722081	GAAAA/GAAAA	CACAAGATCTTTAAGTTCATATTTCA	TTTCTCCATCAAATTCCTCA	60.2	951	INTERGENIC	--	--	--
scaffold242_P2_730900	scaffold242	730900	GAAAA/GAAA	ACTACGAGACGGTGTA GCCG	CTCCACCACCTTGAGTTGT	60.0	916	INTERGENIC	--	--	--
scaffold242_P2_735562	scaffold242	735562	A/AC	CGAACTTGAGAATTCACCGC	GTGGAAAAGGGGATTGGATT	60.0	371	INTERGENIC	--	--	--
scaffold242_P2_762457	scaffold242	762457	TAAAAA/TAAAAA	CTGATCCGGAAGTTGGTTGT	AACCCTGCGTTTGTGTTAAG	60.0	751	INTERGENIC	--	--	--
scaffold242_P2_766280	scaffold242	766280	GAAAAA/GAAAAA	TGCCTACTCCATTCTGTCC	GCGTTGGAATAAGTCAGCC	59.7	344	INTERGENIC	--	--	--
scaffold242_P2_771258	scaffold242	771258	TAAAAA/TAAAAA	CGAGATGGTGACGTGAATA	CACACGAATACGATTCACG	60.0	984	INTERGENIC	--	--	--
scaffold242_P2_771316	scaffold242	771316	TAAAAA/TAAAAA	TGTGCTTCATGGGTCAAGTC	CACACGAATACGATTCACG	60.0	469	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold242_P2_803773	scaffold242	803773	T/TG	AATCCAATCCCCTTCTC ACC	TGGCCATTGAAAATAT GCTT	58.1	299	INTERGENIC	--	--	--
scaffold242_P2_804134	scaffold242	804134	CTTT/CTTTT	TGAAATGGAATGCTAC CATCA	TGGTCAGAAACAACGC AAGA	60.4	710	INTERGENIC	--	--	--
scaffold242_P2_804233	scaffold242	804233	CTTTTTTTTT/CTTTTTTTTTT	TGAAATGGAATGCTAC CATCA	TGGTCAGAAACAACGC AAGA	60.4	710	INTERGENIC	--	--	--
scaffold242_P2_87932	scaffold242	87932	GGAAGAAGAAGAAGAAGAAGA A/GGAAGAAGAAGAAGAAGAAGAA	TTTAACAACAGCCACT ACAAGC	GTTGGTGGCATCGAAA AACT	60.0	302	INTERGENIC	--	--	--
scaffold2421_P2_61209	scaffold2421	61209	A/AC	ATAGGCCTAGGGAGGA CGAA	TTCTTGTCCAATTACGG GTTTT	59.8	299	INTERGENIC	--	--	--
scaffold2433_P2_2492	scaffold2433	2492	ATT/AT	TATGATCCCGCTTGACA CAA	TTTGGGAAAATCCACAA ACA	58.8	369	URR	Ca_27860	--	--
scaffold2434_P2_2639	scaffold2434	2639	CATA/CATATA	CATAATGACCCGAA CACAA	TGCAGTCAATCTTTAA AGGAAG	57.8	601	INTERGENIC	--	--	--
scaffold2434_P2_76263	scaffold2434	76263	TGG/TG	TTCTTCGTTTGTAGTT GTACTCAATG	GGCAAACAAGAACCGA AAAC	59.6	638	INTERGENIC	--	--	--
scaffold2434_P2_76563	scaffold2434	76563	TAAAA/TAAAAA	TTCGGTTCTTGTTGCC TCT	CCTTTATCTTCTGTGG CCG	59.7	382	INTERGENIC	--	--	--
scaffold244_P2_12307	scaffold244	12307	ATT/ATTT	AGGTCATTTTCGTCCCT CCT	TGGATGCACAAGATTG GTTC	59.5	196	INTERGENIC	--	--	--
scaffold2446_P2_10357	scaffold2446	10357	GT/GTATT	ACACGTCATGTGAAGT GATGA	TTAAATGGTGGGGGCC TATT	60.4	616	INTERGENIC	--	--	--
scaffold2446_P2_7253	scaffold2446	7253	A/AC	TTCCTCTGCGAAAATAA ACCTC	TGCCCTTGTTTCAGTT CAA	59.3	394	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2446_P2_7324	scaffold2446	7324	GAAGTAA/GAA	CCTCTGCGAAAAATAAC CTCA	TGCCCTTGTTCAGTT CAA	59.3	392	INTERGENIC	--	--	--
scaffold2459_P2_20215	scaffold2459	20215	TCTGGAA/T	AATCGATTGATTCAGCC CAG	TGTTGTCCCACTTCCAT TCA	59.9	355	INTERGENIC	--	--	--
scaffold2473_P2_1706	scaffold2473	1706	TAGGTTTCTGATTTAAGGTTTCTGATTT AAGGTTTC/TAGGTTTCTGATTTAAGGT TTC	TTGGCCAGTATGATTCG ACA	TATCCCGAAACCCATAA CCC	60.0	321	INTERGENIC	--	--	--
scaffold2484_P2_1390	scaffold2484	1390	TTT/TTTTATTCTTGTCAGTT	GGTCATTTTCGTCTCTCC GTA	TGACCAAAATGTTTCAG CCAA	60.1	273	INTERGENIC	--	--	--
scaffold2487_P2_6338	scaffold2487	6338	CGG/CG	GATGAAATCGAGGACC AGGA	ACTATCTGACACGGAA CCCG	60.0	688	INTERGENIC	--	--	--
scaffold249_P2_73354	scaffold249	73354	AA/AATTGA	CAGCCCAAAATAACTGC CAT	CTTTGTTGGTGCGTGT GTTC	60.2	422	INTERGENIC	--	--	--
scaffold2491_P2_6330	scaffold2491	6330	TTGTGT/TTGT	TCGAGGACCGAGAGAC ACTT	GCATTTTGGACCAGAC CGAT	59.9	863	INTERGENIC	--	--	--
scaffold2498_P2_22778	scaffold2498	22778	GGGAA/GGGAAAGAGTTATGGAA	AGGAGGAATCTTGCCA CTGA	ACTCTGCCCAACCCTT TAGT	60.0	313	INTERGENIC	--	--	--
scaffold25_P2_35858	scaffold25	35858	ATTTT/ATTT	AGGTCATTTTCGTCTCTC CCT	TGGATGCACAAGATCG GTTA	60.1	168	INTERGENIC	--	--	--
scaffold25_P2_51854	scaffold25	51854	AC/A	TCCGTCCTCCCTAGGC TTAT	GGACCAAAATGACCCA AATG	60.0	388	INTERGENIC	--	--	--
scaffold25_P2_71209	scaffold25	71209	G/GTTGTCTAA	CATGCTTACCCTCTGG CCTA	TACCCCTAGGACACCA CAGC	60.0	481	INTERGENIC	--	--	--
scaffold25_P2_72914	scaffold25	72914	ATTTT/ATTTT	TGAACCAATCTTGTCGA TCC	AGGGAGGACGAAAATG ACCT	59.9	672	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2528_P2_19502	scaffold2528	19502	GTTTT/GTTTT	GTCCTCCGTTGGCTTAT TCA	GGACGAAAATGACCAA AAGG	59.4	488	INTERGENIC	--	--	--
scaffold2542_P2_2207	scaffold2542	2207	TAGGAG/TAG	TCATTTGGACTTTTCGG GAG	TCAATTTGGGTTCAGG GTGT	60.2	816	INTERGENIC	--	--	--
scaffold2542_P2_2507	scaffold2542	2507	ATATTATTAT/ATATTATTATTAT	GTACCACCCGACAAAA TGG	AACCGCTGCGAATCTC TTTA	60.0	594	INTERGENIC	--	--	--
scaffold2542_P2_25959	scaffold2542	25959	CGGG/CGGGG	CTAGCCCTCGTCTGTTC TGG	CTTTTCGGGCGATTTT CATA	60.0	677	INTERGENIC	--	--	--
scaffold2542_P2_2719	scaffold2542	2719	AGTGT/AGT	TTAAGAGATTTCGACG GGT	TGGGTGGGAGTAATTT TTCG	59.8	324	INTERGENIC	--	--	--
scaffold255_P2_37691	scaffold255	37691	ATTT/ATTTT	TACGGTGCTAGGGAAC CAAC	TGGTTTTACGCCAAC ATTA	60.0	575	INTERGENIC	--	--	--
scaffold2555_P2_56208	scaffold2555	56208	CTTT/CTTTTT	AGGTCATTTTCGTCTCT CCT	TGACTAGAATCAGCCT GGGG	60.2	834	INTERGENIC	--	--	--
scaffold2557_P2_101354	scaffold2557	101354	CATATATATATATA/CATATATATATATA TA	TCCCTCCAACAAACAC ACA	CGGTGAATCCTTTACG GAGA	60.1	130	INTERGENIC	--	--	--
scaffold2557_P2_102326	scaffold2557	102326	CTT/CGCTCTTTTGTGTT	ATGGCGAACAATCACAA CAA	TTGTAGCAATCATGTG GGGA	59.9	644	INTERGENIC	--	--	--
scaffold2557_P2_112937	scaffold2557	112937	CGG/CGGTTGG	TTTTAGCTTTCCATCGC CTG	CTCAGAGGGTCCAAAT TCCA	60.0	717	INTERGENIC	--	--	--
scaffold2557_P2_12380	scaffold2557	12380	AA/AAGA	GAGTGCTTGTAAACCC CCGT	GACGGTCTTACCGGTT CGTA	60.0	428	INTERGENIC	--	--	--
scaffold2557_P2_48096	scaffold2557	48096	ATATTATTATTATTATTATTATTAGT ATTATTATTATTATTATTATTATTAT TATTATTATCATTATTGTTATTATTATTA TTATTATTGTTATTATTATTGTTATT GTTATTATTATTATTATTAT/ATATTATTA TTATTATTATTATTATTAT/ATATTATTA	TGAGGCAAATGGACAA AACA	GGAGTTGGTTGGTGTG TATCAA	59.8	757	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2574_P2_42033	scaffold2574	42033	AATATATATATATATATATATATAT/AA TATATATATATATATATATATATATAT ATATAT	TGAATAGCGAGTCTGTT GGG	TTTTTCCTTGTGTGCC TAA	58.3	471	INTERGENIC	--	--	--
scaffold2575_P2_141583	scaffold2575	141583	AATATATATATATATATATATATAT ATATATATATATATATAT/AATATATAT ATATATATATATATATATATATATA TATATATATATAT	TGATATTTTCATTCCACC AAAGA	TGCTCAATCAACTCGC AAAC	60.0	215	INTRON	Ca_22997	QI	bHLH
scaffold2575_P2_196132	scaffold2575	196132	C/CA	ACTTTTCACCACATCCC TCG	ATCCATTCCCACATTG AAA	60.0	347	INTERGENIC	--	--	--
scaffold2575_P2_245742	scaffold2575	245742	ATTTTTTTT/ATTTTTTTT	CGCAATAAATTTTGTAC GCC	TACCCATCAGGGCAGA ACTC	60.1	535	INTERGENIC	--	--	--
scaffold2575_P2_278639	scaffold2575	278639	ATTTTT/ATTTT	TGGTGGCAAATGATGA AGAA	CGTGGTGCTAAGTCAA TCAAA	58.8	330	INTERGENIC	--	--	--
scaffold2575_P2_278772	scaffold2575	278772	TGAAGAAG/TGAAG	TGGTGGCAAATGATGA AGAA	CAGGGACTACATCCAA CAAAAA	59.0	769	INTERGENIC	--	--	--
scaffold2575_P2_279175	scaffold2575	279175	CTAT/CTATTAT	TTTGATTGACTTAGCAC CACG	TAAAAGATGATGTGTTG GTGTGT	57.1	557	INTERGENIC	--	--	--
scaffold2575_P2_279306	scaffold2575	279306	TAA/TA	TTTTTGTGGATGTAGT CCCTG	CATGAACATTTAAGAGT TTGCATTT	58.7	583	INTERGENIC	--	--	--
scaffold2575_P2_280082	scaffold2575	280082	C/CATTGATA	TCCCAAGGTATCATTGT CTCTTT	TCGGAGTTTGTGTGA GTGTG	59.8	316	INTERGENIC	--	--	--
scaffold2575_P2_280195	scaffold2575	280195	TTA/T	CACCTTTGTCCTGAG CTGT	TCGGAGTTTGTGTGA GTGTG	59.8	178	INTERGENIC	--	--	--
scaffold2575_P2_280611	scaffold2575	280611	AACACA/AACACACA	CACTCACACAAAACCTC GACA	CATGTTTGTCCACCCA AGTG	59.8	508	INTERGENIC	--	--	--
scaffold2575_P2_282023	scaffold2575	282023	CGAGAG/CGAG	GAACCCGCCTAAACATT TCA	TTCAATTGTCCATAAGC AGTCA	58.3	401	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold260_P2_263789	scaffold260	263789	GTTTT/GTTTTTTTT	ATTTTGGTTCGGAGGC TTTT	GAGAATGGGAGAAAGG AGGG	60.0	415	INTERGENIC	--	--	--
scaffold260_P2_287454	scaffold260	287454	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	CGTGAGACAGGGAGAG GAAG	CGGTGAATCCTTTACG GAGA	60.1	281	INTERGENIC	--	--	--
scaffold260_P2_341696	scaffold260	341696	AT/ATGT	AGGAAGAGTGGAGTTG CGAA	GCATTCAGCAGCAAAA ACAA	60.0	670	INTERGENIC	--	--	--
scaffold260_P2_35086	scaffold260	35086	GTAT/GTATAT	TTGTGTTTCGTCGATTT GGC	GATTCCTCCCTCTTAA CGTC	59.8	523	INTERGENIC	--	--	--
scaffold260_P2_356606	scaffold260	356606	GTTT/GTTTT	ATCGATTGATTTACGCC CAG	TTCTCATCTCCATCCC GTC	60.0	154	INTERGENIC	--	--	--
scaffold260_P2_413581	scaffold260	413581	AATATATATATATATATATATATAT ATATATA/AATATATATATATATATATA TATATATATATATATA	TATTTGGATTTTGGCT CGG	AAAATCTCTGCTCGCG ATGT	60.0	668	INTERGENIC	--	--	--
scaffold260_P2_413792	scaffold260	413792	A/AG	TATTTGGATTTTGGCT CGG	AAAATCTCTGCTCGCG ATGT	60.0	668	INTERGENIC	--	--	--
scaffold260_P2_58616	scaffold260	58616	AATATATATATATATATATATA/AATAT ATATATATATATATATATA	TTCATAGCGCGATTCTC CTT	CTGCACCTGCGGTCTT ATCA	60.0	617	INTERGENIC	--	--	--
scaffold260_P2_86017	scaffold260	86017	TTATATATATATATATATA/TTATATAT ATATATATATATATA	CATATGCCAATTGAGTT GCG	ACATGGCAAGGAGCAA CTTT	59.7	322	INTERGENIC	--	--	--
scaffold260_P2_91700	scaffold260	91700	AATAT/AATATGTATATAT	CGAGGCAGAGGAAGAA GATG	TTGGTATTGAACTCGG AGGC	60.1	353	INTERGENIC	--	--	--
scaffold2603_P2_19509	scaffold2603	19509	ATTTTTTTTT/ATTTTTTTTTTT	TTGCGTGTGATCTATG GGA	TCACCTTAGGGTTGAA ATGGA	59.4	884	INTERGENIC	--	--	--
scaffold2603_P2_50338	scaffold2603	50338	AATATATATATATATATATA/AATATAT ATATATATATATATATA	TTGGCAACAAGGTGGG TAAT	TGGTGCTCCAATTTGT GAA	60.1	594	URR	Ca_27950	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold2603_P2_6501	scaffold2603	6501	CCA/CCACA	AGCAGCTTCAAGCAA GCTC	TGAACCACTCAATTCA ACAGT	59.5	485	INTERGENIC	--	--	--
scaffold2603_P2_67369	scaffold2603	67369	GTT/G	AATCCGCAACGGAGTT TATG	TGAACGAGCTGAGAGA AGCA	60.0	617	INTERGENIC	--	--	--
scaffold2603_P2_9101	scaffold2603	9101	TA/TAA	GGCCAACCAAAAGTT GAA	ATTGAGTGAGTTTGGC CCAC	60.0	552	INTERGENIC	--	--	--
scaffold2617_P2_132059	scaffold2617	132059	AATTATTATTATTATTATTATTATTA TTATT/AATTATTATTATTATTATTAT TATTATTATTATT	CTCATAGTTCGATGGC GGTT	ATTGGAATTCAGTTGG GTGG	59.6	538	INTERGENIC	--	--	--
scaffold2617_P2_195587	scaffold2617	195587	GAATATATTAATA/GAATATATTAATA TATTAAATA	GACCGCGTAGATGTGG AACT	GAATGCCCTACTTTTTG GCA	60.1	634	DRR	Ca_21875	--	--
scaffold2617_P2_234200	scaffold2617	234200	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	TTTGGGAAACTGAACCA ACA	AAAATTGAAATTATCAA GAAAGTTGTG	58.3	322	DRR	Ca_21877	--	--
scaffold2617_P2_320997	scaffold2617	320997	TAAA/TAAA	TGGGTATTCTTTACG TCTT	TGAAAGAGGGGAAAAG GAGC	60.7	296	DRR	Ca_21883	--	WRKY
scaffold2617_P2_321825	scaffold2617	321825	TAAAA/TAAAAA	TTGGTCATGCGCACATA ATA	GATGGCTGTGTCGGAG ACTT	60.3	529	DRR	Ca_21883	--	WRKY
scaffold2617_P2_324497	scaffold2617	324497	TGTG/T	AAACAAGTTGGTGGT GAGC	AAAGTTAATTCAAATGC ACTGTCA	57.9	290	INTERGENIC	--	--	--
scaffold2617_P2_390048	scaffold2617	390048	TG/TGAGCCTGATCG	TGGAGTAACCTTTCCG TGC	TGCCACTACAAGAGTG GACG	59.9	516	INTERGENIC	--	--	--
scaffold2617_P2_402483	scaffold2617	402483	GAA/GAAA	GTTGCAAGGGTGGAGT GATT	AACAATTGTGAAACGTC TCCG	60.0	640	INTERGENIC	--	--	--
scaffold2617_P2_402519	scaffold2617	402519	TG/T	GTTGCAAGGGTGGAGT GATT	AACAATTGTGAAACGTC TCCG	60.0	640	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2651_P2_4275	scaffold2651	4275	TT/TTGT	CTTGTGCATCCAATAGG GGT	TCTTCATCCAATGCCAC AAA	60.0	640	INTERGENIC	--	--	--
scaffold2653_P2_5698	scaffold2653	5698	AATTATTAT/AATTATTATTAT	GTGAATCGTCGGTTT CATT	TTAAGTGGAGGTGGA GGTG	60.0	214	INTERGENIC	--	--	--
scaffold2660_P2_12451	scaffold2660	12451	TAAA/TAAAAA	CCTAGGGACGACGAAA ATGA	TGCATCCAACAGGTGT GTTT	60.0	462	INTERGENIC	--	--	--
scaffold2662_P2_10211	scaffold2662	10211	AAATAATAATAATAATAATAATA AT/AAATAATAATAATAATAATA ATAATAAT	TTGCTCCTACGTATCTC CCG	TTCTTTTCGCTATTTTA TTTTCTGTG	60.0	699	INTERGENIC	--	--	--
scaffold2662_P2_1313	scaffold2662	1313	T/TC	TGCACTTGCAACACATC TCA	TGGCTATTGATTATCCC ATTTTG	60.1	866	INTERGENIC	--	--	--
scaffold2662_P2_26227	scaffold2662	26227	TT/TTCTCT	AACACCATGAAACGCTC CTC	CGAAGCCGAGAAAATG ACTC	60.0	589	INTERGENIC	--	--	--
scaffold2662_P2_31062	scaffold2662	31062	TAA/TA	AGAGGATGCGGATCAA TGTC	GGACAACCTGGGAAAA GTGA	59.9	898	INTERGENIC	--	--	--
scaffold2669_P2_12356	scaffold2669	12356	A/AC	CCTTAAATGTTGCGCAT GCT	CCATCAGAGCGTGAGA TTGA	59.9	546	INTERGENIC	--	--	--
scaffold2669_P2_16328	scaffold2669	16328	AATATTGATATTGAT/AATATTGAT	TTTTAGGCGATTCTACG TGC	TTGAGGGGTGGCAAGT TTAG	60.1	641	INTERGENIC	--	--	--
scaffold2670_P2_42849	scaffold2670	42849	GA/GAA	GGAGGACGCAATGAC CTAA	TTCAACCAATCTTGTGC AGC	59.8	371	INTERGENIC	--	--	--
scaffold268_P2_4404	scaffold268	4404	CTTT/CTT	ATTCCCCATTCTTAATG CCC	TCCATTTTCGTTTTTCC TCG	60.0	686	DRR	Ca_28051	--	--
scaffold269_P2_3682	scaffold269	3682	TTATA/TTA	GCAAAACAATGAGCAA GCAA	TACCCTGTGGATGGGA ATGT	60.1	449	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2692_P2_13450	scaffold2692	13450	GGTTAAGTT/GGTT	TTCAGAAAAACCGCCATACC	CCCTCTAAGCCCCAGGTTA	60.4	730	INTERGENIC	--	--	--
scaffold2692_P2_14114	scaffold2692	14114	TATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA/TAT AATAATAATAATAATAATAATAATAA TAATAATAATAATA	TAACCTGGGGCTTTAGAGGG	TTTGACAGGTCATTTC AAACC	59.0	654	INTERGENIC	--	--	--
scaffold2692_P2_14565	scaffold2692	14565	ATTTTTTT/ATTTTTTTT	ACCTGTCAAAGTTTCAAGCA	TCCTTCACCAACCAACAAA	59.0	420	INTERGENIC	--	--	--
scaffold2692_P2_14759	scaffold2692	14759	ATTTTTTT/ATTTTTTT	ACCTGTCAAAGTTTCAAGCA	TTTCTTCACCAACCAACA	59.0	422	INTERGENIC	--	--	--
scaffold2703_P2_2577	scaffold2703	2577	G/GC	TGGCACCCCTATTTTACAGGC	ATTGGCCACAAGCTCAAG	60.2	426	INTERGENIC	--	--	--
scaffold2707_P2_17643	scaffold2707	17643	CAA/CAAA	CCTGCGTATACCGACTCCAT	AGGTAAGGGCTCCTTCCAAA	60.1	659	INTERGENIC	--	--	--
scaffold271_P2_122440	scaffold271	122440	GTTATTATTATTATTATTATTATTAT TATTATTA/GTTATTATTATTATTATTATT ATTATTATTATTATTATTA	TTGTGAGGTGTTGGTGCAAT	TAAACCTCTCACCAGCGTCC	60.3	713	INTERGENIC	--	--	--
scaffold271_P2_158529	scaffold271	158529	CATATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	GATCTCTCCCATCCCTCTC	CAACTTGTCCTCTAACA ACTCAAA	58.4	678	INTERGENIC	--	--	--
scaffold271_P2_179145	scaffold271	179145	ATTTTTTTTT/ATTTTTTTTTT	GAGGTGCAGAAAATGCAGC	TTGCTCCTACGTATCTCCG	60.2	592	INTERGENIC	--	--	--
scaffold271_P2_196964	scaffold271	196964	ATTTTTTTTTTT/ATTTTTTTTTT	TATCATTTAGGGTGAGGCGC	AGAAGTGGAAGGGTGCCT	60.1	605	INTERGENIC	--	--	--
scaffold271_P2_205973	scaffold271	205973	GAA/GA	GCACCGTGAGTAAATTCGGT	TATTTTGGATTTTGGCTCGG	59.9	692	DRR	Ca_25334	--	--
scaffold271_P2_244115	scaffold271	244115	TTATATATATATATATATATATATATAT T/TTATATATATATATATATATATATAT ATAT	GAGAAAGGAGGGAAATTGGC	CATCGCCACCGTAGTAAGT	60.0	577	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2722_P2_77092	scaffold2722	77092	GCAATTCAA/GCAATTCAATTCAA	GGTCGCCAATATTTTGTGG	CAACCAGCTTCTTATCCAA	59.2	492	CDS (FRAME SHIFT)	Ca_27216	--	C2H2
scaffold2722_P2_77542	scaffold2722	77542	ATTTTTTTTT/ATTTTTTTTT	GGAAGGAGAACGCCTAAGGT	AAAAATGGATCTCACGTGTC	59.9	946	URR	Ca_27216	--	C2H2
scaffold2726_P2_4506	scaffold2726	4506	G/GA	CAAACACCCCTATTGGATGC	AGGTCATTTTCGCCTCCCT	59.9	380	INTERGENIC	--	--	--
scaffold2728_P2_11149	scaffold2728	11149	T/TG	TGGCATCCGGAGTCTATTTT	TGATAAACATGATTTTCGTCA	58.0	603	INTERGENIC	--	--	--
scaffold2728_P2_11268	scaffold2728	11268	ATTTTTTTTTT/ATTTTTTTTTT	TGGCATCCGGAGTCTATTTT	TGATAAACATGATTTTCGTCA	58.0	603	INTERGENIC	--	--	--
scaffold2729_P2_5336	scaffold2729	5336	AAAA/AAAACAAA	CAAAATGCCACACATTTACGA	AATTGTGTTTCGAGTTCGC	60.1	787	INTERGENIC	--	--	--
scaffold273_P2_189393	scaffold273	189393	AG/AGG	TACCGCCCTACCATAGTTGC	TAAGGTGCACGGGGTCTTAC	60.0	570	INTERGENIC	--	--	--
scaffold273_P2_190574	scaffold273	190574	CAAAAAAAAA/CAAAAAAAAA	GAAGAAGGTCCCAGGGTTC	CGCTTCTCCCTTCTCTTT	60.0	757	DRR	Ca_26226	--	--
scaffold273_P2_49066	scaffold273	49066	TAAAAAAAAA/TAAAAAAAAA	TTTCAGGCGAAAATCGTACC	ATAACCCGAACCTCAAAACC	60.1	547	INTERGENIC	--	--	--
scaffold2734_P2_606	scaffold2734	606	TGCAAG/TGCAAGCAAG	TTTCTTTTCCCTCCAAAGCA	GGGGGAGAGAACAAATCCAT	60.1	550	INTERGENIC	--	--	--
scaffold2736_P2_3361	scaffold2736	3361	ATTTTTTTTT/ATTTTTTTTTT	TGGACAAAAGGCGTTGTAAA	GACTGGGCATTTTCCTTGAA	60.1	340	INTERGENIC	--	--	--
scaffold2736_P2_3536	scaffold2736	3536	GAAAAA/GAAAAA	TTCAAGGAAAATGCCCATGTC	TGTTTGCACAAACACAACAA	59.8	385	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold275_P2_360432	scaffold275	360432	TA/TACA	TGAAACCTGAAAAGG CGAC	CGTTTTCCGACTTCAA CAT	60.0	526	INTERGENIC	--	--	--
scaffold275_P2_377072	scaffold275	377072	AATATATATATATATATATATAT/AATA TATATATATATATATATATATATATAT	TCAAGATACCCAGTGCA CCA	AGCGACATGTGAACAA CAGC	59.9	551	INTERGENIC	--	--	--
scaffold275_P2_482040	scaffold275	482040	ATTTTTTTTT/ATTTTTTTTT	CCTAAGCTTGCCTGCA AAAC	TGGTACACTTTTGTGA GCGG	59.8	690	INTERGENIC	--	--	--
scaffold275_P2_587685	scaffold275	587685	CCTTCTATCACTTCT/CCTTCT	AAATTGGTCCACTAGCA CCG	CGGTGAATCCTTTACG GAGA	60.1	538	INTERGENIC	--	--	--
scaffold275_P2_67453	scaffold275	67453	AG/A	CGTACTTGCATCCATGA AACA	CATCGCCGTAGTCAAA CTCA	59.9	563	INTERGENIC	--	--	--
scaffold275_P2_760546	scaffold275	760546	TAACAA/TAA	CTTGGCATCCAGGAAT CAAT	TATGCCACAGCCAGTT CTCA	60.4	422	INTERGENIC	--	--	--
scaffold275_P2_760980	scaffold275	760980	CTTT/CTT	TCATATGGGCCACTTGA ACA	CTCCATTTTGTGCGG AGTT	60.1	467	INTERGENIC	--	--	--
scaffold2763_P2_199671	scaffold2763	199671	GTAAAAAATTAAAAATTAAAAATTAA AAATTAAA/GTAAAAAATTAAAAATTAA AAAAATTAA	TAGGCGACACACGTAA GCAG	TTGCATGAACATAAACA AAAGCA	59.8	601	DRR	Ca_24404	R	--
scaffold2763_P2_3532	scaffold2763	3532	ATTTTTTT/ATTTTTTTT	ATGAGGGTCAACGTTG AGGT	TTTGTTCCCACTTTAT GGC	59.8	889	INTRON	Ca_24392	--	WRKY
scaffold2763_P2_62838	scaffold2763	62838	TAAAAAA/TAAAAAA	TGACAATAGCTCCATAT CTTTGTTG	TGTAATGGCATAAATA TTCTTGTA	57.5	577	INTRON	Ca_24398	--	bHLH
scaffold2763_P2_81370	scaffold2763	81370	T/TG	AACCAACTGGTCCTGA CTGG	GAATGGAGAAGGTCGT GCAT	60.1	536	DRR	Ca_24399	--	--
scaffold2763_P2_9760	scaffold2763	9760	C/CCTCACG	ATGCCAGTCGTTATTC CAG	GAGATGCCATTGAAGC CATT	60.0	400	CDS (large-effect mutations)	Ca_24393	R	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2780_P2_1451	scaffold2780	1451	GTTTTTTT/GTTTTT	GGGGGAGAAAATTGG TGTT	TTGATCTTGCTGCATTG TCC	59.8	233	DRR	Ca_27853	--	--
scaffold2782_P2_27408	scaffold2782	27408	GAAAAAAAA/GAAAAAAAAA	CTCGAAACCCGAAACA CAAT	CGAATTTGTTGTCAAC TCAT	57.7	574	INTERGENIC	--	--	--
scaffold2782_P2_6224	scaffold2782	6224	AGG/AGGG	CTTTTCGGGCGATTTTC ATA	GATGAAATCGAGGACT GGGA	60.0	483	INTERGENIC	--	--	--
scaffold2782_P2_80797	scaffold2782	80797	GT/GGGAGACCTTAT	ATCGAGGACCAAGAGA CCCT	GACTTTTGGGCGATT TTCA	60.1	713	INTERGENIC	--	--	--
scaffold2792_P2_14181	scaffold2792	14181	GTTTTT/GTTTT	AGGTTTCATTTGGGTCAT TGG	AACCTTGGGAGGACGA AAAT	59.8	973	INTERGENIC	--	--	--
scaffold2792_P2_34918	scaffold2792	34918	G/GT	CGTCTCCCTGGGTTT ATTG	TAGGGACGACGAAAT GACC	59.9	405	INTERGENIC	--	--	--
scaffold2799_P2_11858	scaffold2799	11858	ACCTAAACCCTAAACCCTAA/ACCTAA CCCTAA	CCCCAAACCCTAAACCC TAA	TAGTTTGCCCAATAGG TGCC	60.0	490	INTERGENIC	--	--	--
scaffold2799_P2_34750	scaffold2799	34750	CAAAA/CAAAAA	AATCGATTGCGCATAC AGG	GAGGGAAAAGCCGAGA TTTC	60.0	453	INTERGENIC	--	--	--
scaffold280_P2_107583	scaffold280	107583	A/ATCTTGGGGATAT	AGCTCCTGCTCAAGCA GTTC	AAAATGACCCCTGATT TCC	60.0	653	INTERGENIC	--	--	--
scaffold280_P2_114213	scaffold280	114213	AG/AGCTTTGG	AAGGCTACTCACTCGC GGTA	ATGAGTTCTTGCATTG GGC	60.1	575	INTERGENIC	--	--	--
scaffold280_P2_128741	scaffold280	128741	CAA/CAAA	ATTCCAAACCAAAACCC TCC	TGATTTTGGGGGAAAA TGAA	60.1	943	INTERGENIC	--	--	--
scaffold280_P2_15504	scaffold280	15504	ACTAAACCTAAACCTAAA/ACTAAAC CTAAACCTAAACCTAAA	AAACCTGAACCGCAAAA CAC	TCGTCCAATAAGAACA AAGTCAA	60.0	150	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold281_P2_1388	scaffold281	1388	GAAAAAAAAA/GAAAAAAAAA	TGTTGCACTCAGTCT TACGG	TGCATGCCCTTGATT ACA	60.1	287	INTERGENIC	--	--	--
scaffold281_P2_1467	scaffold281	1467	GGCATGCATG/GGCATG	TGTTGCACTCAGTCT TACGG	ATCGGAAAAGTGACAT TGGG	59.8	515	INTERGENIC	--	--	--
scaffold281_P2_2224	scaffold281	2224	CT/C	TGGGCAGATTGTAAAC CGA	GCGAAACCCGATTCTA TTGT	59.0	593	INTERGENIC	--	--	--
scaffold281_P2_3002	scaffold281	3002	TAAAA/TAAAAA	ACAATAGAATCGGGTTT CGC	AGGACTATTTTGGTCT CCCA	57.7	623	INTERGENIC	--	--	--
scaffold281_P2_3090	scaffold281	3090	AATATATATATAT/AATATATATAT	ACAATAGAATCGGGTTT CGC	AGGACTATTTTGGTCT CCCA	57.7	623	INTERGENIC	--	--	--
scaffold281_P2_3313	scaffold281	3313	GAA/GAAATAA	AGACATTGCTCTTTCGG TCAA	CGTTGACCATTTTAAGC TTGG	59.6	911	INTERGENIC	--	--	--
scaffold281_P2_3414	scaffold281	3414	GAAAAGAAAA/GAAAAGAAAAAGAAAA	TGGGAGACCAAAAATA GTCCT	CGTTGACCATTTTAAGC TTGG	59.6	534	INTERGENIC	--	--	--
scaffold281_P2_3735	scaffold281	3735	AC/AATTC	TGGGAGACCAAAAATA GTCCT	CAAGAGGGGTTGCAAG TGTT	60.1	648	INTERGENIC	--	--	--
scaffold281_P2_4125	scaffold281	4125	TGG/TG	AACACTTGCAACCCCTC TTG	ATGATGATTTTCTCCCC GTG	59.8	595	INTERGENIC	--	--	--
scaffold281_P2_4227	scaffold281	4227	AG/AGGAATTATG	AACACTTGCAACCCCTC TTG	ATGATGATTTTCTCCCC GTG	59.8	595	INTERGENIC	--	--	--
scaffold2812_P2_16756	scaffold2812	16756	TAAAAA/TAAAAA	CAATTGTTGTTGTGAC ATTG	GGTTGATGCGTCAATG TTGT	59.4	871	INTERGENIC	--	--	--
scaffold2812_P2_19841	scaffold2812	19841	CT/C	GACGCTTCTTCCTCCTG CTA	TGAAGATAAAGCAATC CCCG	60.0	761	INTRON	Ca_26641	--	TALE

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold284_P2_14484	scaffold284	14484	ATTTT/ATTTT	TTTGCCTCATTGCTTT TCC	CCCCTTCTCCTAGAA CGC	60.2	294	INTERGENIC	--	--	--
scaffold284_P2_15317	scaffold284	15317	ATTTTTTTTTCTGCGTTTTTTTTC/ATTT TTTTTC	CCAGAATCGGACTTGT TCG	TTCTTGTGTGGAGTG TGCC	59.7	515	INTERGENIC	--	--	--
scaffold284_P2_205698	scaffold284	205698	AATATATATATATATAT/AATATATATATA TATATAT	GGTCATGAGAAGGGGA GTGA	AAATTGGTCCACTAGC ACCG	60.0	480	INTERGENIC	--	--	--
scaffold284_P2_207539	scaffold284	207539	CGG/CG	GGAGGGTTTTGGTTTG GAAT	CAAGGCTGTTTCAGCA TTCA	60.0	540	INTERGENIC	--	--	--
scaffold284_P2_22877	scaffold284	22877	GAAAAAAAAA/GAAAAAAAAA	CGTGATTGTTGATGAT GCC	TTCCGATGTTCTCCTTT TATCA	59.7	658	INTERGENIC	--	--	--
scaffold284_P2_235331	scaffold284	235331	CAATAATAATAATAATAATAATAATA ATAATAATAATAATA/CAATAATAAT AATAATAATAATAATAATAATAATA TAATAATAATAATA	TCCAACTCCGCCTCAA TAC	ATCGGTAGTGACTAAA ACTGCAT	57.1	507	INTERGENIC	--	--	--
scaffold284_P2_257074	scaffold284	257074	GAAAAA/GAAAA	TGAAGCATATTCTGAGG GGG	TGATCTTTTGCTTGGTG CTG	60.0	854	INTERGENIC	--	--	--
scaffold284_P2_265251	scaffold284	265251	A/ACTGTAG	GACTGTGATGGGCAAC AATG	CAATTCTCGCACGATT CAAA	59.8	529	INTERGENIC	--	--	--
scaffold284_P2_3251	scaffold284	3251	GAATGAATGAATGAA/GAATGAATGAAT GAATGAA	TCACAATGGGCACAAG AAAA	TTTCCCATGCAACTTGA ACA	60.1	146	INTERGENIC	--	--	--
scaffold284_P2_338865	scaffold284	338865	T/TG	CACGGTAGTTCCCGAC CTTA	TTCAATCGGGGCTTAC TACG	60.1	596	INTERGENIC	--	--	--
scaffold284_P2_40796	scaffold284	40796	TA/T	TCCTGCACTTGAATGGA CAG	TTGGGTTTTCTTTCAA CGG	59.9	693	INTERGENIC	--	--	--
scaffold284_P2_419639	scaffold284	419639	CAAAAAAAAA/CAAAAAAAAA	GTTGTGGGATGAACGT ACCC	GATACCACATGTAACG CCCC	60.1	558	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold284_P2_428305	scaffold284	428305	CTATTATTATTATT/CTATTATTATTA TTATTATT	TGTTGTTTACACACTT AAGATGAAGA	GTCGCGTCTTCCATC ATTT	60.1	361	INTERGENIC	--	--	--
scaffold284_P2_4461	scaffold284	4461	CTCATCATCATCATCA/CTCCTCCT CCTCCTCATCATCATCATCATCA	TACGATGATGAACAGT GGC	TTGGTTTCAAGACCTG CATCT	59.7	424	INTERGENIC	--	--	--
scaffold284_P2_483743	scaffold284	483743	ATTTTTTTTTT/ATTTTTTTTTT	CAATCCGAAAGCTCTCC AAA	GCTTGAGGCACAAATT GACA	59.8	847	INTERGENIC	--	--	--
scaffold284_P2_516497	scaffold284	516497	AATATATATATATATATATATATAT ATATATATAT/AATATATATATATATAT ATATATATATAT	CCTCCAAATAGCCCCAA AAT	GTTCTTTGGCAAGTC AGGA	60.2	720	DRR	Ca_20600	C	C3H
scaffold284_P2_543858	scaffold284	543858	TACACTAAACA/T	CCCTTTTGGACAAAGT CCC	CCAATGCACCCTACCT GTTC	60.4	536	INTERGENIC	--	--	--
scaffold284_P2_548154	scaffold284	548154	T/TAATAAC	AAACCTGCGTGCTCTTC ATC	CAAGGACTAAATTGAA GCCCCA	59.2	509	INTERGENIC	--	--	--
scaffold284_P2_680277	scaffold284	680277	CATATATATATATATATATATA/CATA TATATATATATATATATA	CCCACATGAAAACTCC ACC	TAAGGGCTGAACCAA ATCG	60.1	779	INTERGENIC	--	--	--
scaffold284_P2_688787	scaffold284	688787	CTTTTTTTTTT/CTTTTTTTTTT	AAGTTCAAATTGTCTGC CCG	ATGAAGTGCCAAGCAG GAGT	59.9	687	INTERGENIC	--	--	--
scaffold284_P2_722426	scaffold284	722426	AGGG/AGG	GGCATGCACCTTAACA GGAT	CGTGGTAATCGCGTAG GAAT	60.0	525	INTERGENIC	--	--	--
scaffold2845_P2_27323	scaffold2845	27323	CA/CAA	CCCTGATGAAAACTCA TGC	TCCAGTCCCCTAGTC AGAA	59.6	858	INTERGENIC	--	--	--
scaffold2848_P2_2441	scaffold2848	2441	GCTCCTCCT/GCTCCT	AAGGCAGACAGACCTCA AAAA	GCACACGACCTTCTCG TACA	59.9	449	CDS (large-effect mutations)	Ca_27862	--	--
scaffold2853_P2_12080	scaffold2853	12080	CTTTTTTTTTT/CTTTTTTTTTT	GGGTTTGGGATTAGG ATTGA	GGGTGCATTTTACAGC GTTT	60.0	465	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2853_P2_18313	scaffold2853	18313	TGTTTAGGGTTTAGGGTTTAGGGTTTA GGGTTTAGG/TGTTTAGGGTTTAGGGT TTAGGGTTTAGG	GCAGTTTGTCTGAATAAG TGCAT	ACCATAAACCCGAACC ACAA	60.1	339	URR	Ca_28160	--	--
scaffold2853_P2_21634	scaffold2853	21634	T/TC	TTAGGGCTTGGGTTTA GGGT	CAACCAAAATGGACAA CAACA	59.3	451	INTERGENIC	--	--	--
scaffold2853_P2_6530	scaffold2853	6530	CTTTTTTT/CTTTTTTT	CCATTTTCGGTTTTAACG AATGTA	GATTGATGCACTAATTC GACG	58.3	642	INTERGENIC	--	--	--
scaffold287_P2_185575	scaffold287	185575	CTGTGTGTG/CTGTG	CTTTTCAGGAACATGCG ACA	TTGCCTAATCGATTCT GGG	60.0	225	INTERGENIC	--	--	--
scaffold287_P2_73335	scaffold287	73335	GAAAAAAAA/GAAAAAAAAAAAAA	TAGTGCATTTTGGCCTC CTC	AGGGAGAGACAAAGAA GGGG	59.7	738	INTERGENIC	--	--	--
scaffold287_P2_73657	scaffold287	73657	ATTGTTGTTGTTGTT/ATTGTTGTTGTT GTTGTT	CCCCTTCTTGTCTCTC CCT	ACTCACTTTCAAGCC CAAG	60.4	224	INTERGENIC	--	--	--
scaffold2871_P2_30418	scaffold2871	30418	AGT/AGTGT	GGTTTTGGATTGGGC TACA	GGGTTATGGCTTTGAT CATGT	58.8	521	INTERGENIC	--	--	--
scaffold2871_P2_32080	scaffold2871	32080	TG/TGG	CCCTGACCAAAACCGT AAAA	GTGCCATTTTCCTTG CTT	60.1	916	INTERGENIC	--	--	--
scaffold2871_P2_33759	scaffold2871	33759	GTTTTATTTATTTAT/GTTTTATTTAT	TACCAATTGCGTTAGCG ATG	TCGTTCTCCTTCGTCG TCTT	60.0	487	INTERGENIC	--	--	--
scaffold2871_P2_4009	scaffold2871	4009	ATT/AT	AGCTTGGGGCCAAGTC TATT	ACACCAATTTCGATT GACA	60.0	404	DRR	Ca_27744	--	HB-other
scaffold2887_P2_7283	scaffold2887	7283	CTG/C	TGGTGCCTCTTAATGT GGAA	TTTGCCATGACCTTTT GTTC	60.0	473	INTERGENIC	--	--	--
scaffold2893_P2_10683	scaffold2893	10683	AGG/AGGG	GCCAGATCTTTCGATTC AGC	CCTTCAATGGAACCGC ATAC	60.3	255	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2893_P2_11811	scaffold2893	11811	CTTTT/CTTT	GCCAATCGATTATCGCA AGT	TGGCACTCCGATTAAC ATGA	60.1	344	INTERGENIC	--	--	--
scaffold2896_P2_30850	scaffold2896	30850	GAAAAAAAAA/GAAAAAAAAA	CTGGCACACAAGCAC AACT	AGAGACAGAGGTGGGA AGCA	60.0	521	INTERGENIC	--	--	--
scaffold2898_P2_4989	scaffold2898	4989	GAAAAAAAAA/GAAAAAAAAA	TGGCAGAGAATATGTT GGGA	GCCGGTACTGAATGCA GATT	60.1	504	INTERGENIC	--	--	--
scaffold29_P2_101084	scaffold29	101084	AGG/AGGG	CGCGGAACCTGAAATA CAAT	TCCAGATGAAATCGAG GACC	60.0	401	INTERGENIC	--	--	--
scaffold29_P2_132238	scaffold29	132238	TCTGACGCGTATCCTGA/CTGA	GTATTTAAATCGGGCG CAA	GAAATCGAGGACTGGG ACAA	60.1	543	INTERGENIC	--	--	--
scaffold29_P2_151466	scaffold29	151466	A/ATC	TCCAGATGAAATCGAG GACC	TTTGGACTTTTCGAGG GATG	60.0	642	INTERGENIC	--	--	--
scaffold29_P2_194469	scaffold29	194469	CGGG/CGG	CGGTCCATAGTTGTCG TGTG	TGGAATTTTCAGCGCA TTTC	60.0	698	INTERGENIC	--	--	--
scaffold29_P2_198492	scaffold29	198492	TCG/TAACAAACG	TCCTTCTGAACCGCAA TAC	TCTCCGCATAAGCTTTC GAT	59.9	275	INTRON	Ca_27836	--	--
scaffold29_P2_238905	scaffold29	238905	T/TGTGA	TGATGCTCTGATTATG CTCTGA	GTGTTTGCTGTTTGC CTGA	59.9	419	INTERGENIC	--	--	--
scaffold290_P2_112115	scaffold290	112115	A/ACTAAC	CATGGGAAATCGTTG AGGT	TTGGGTCCTAGCTTTC TCCA	59.8	839	INTERGENIC	--	--	--
scaffold290_P2_116541	scaffold290	116541	AC/A	TCACAGCGAAATTTGTC GTC	ACAAGGGGACCAACTC AGTG	60.0	685	INTERGENIC	--	--	--
scaffold290_P2_122806	scaffold290	122806	AG/AAGCTTTTGCGGG	ACATTTGTGGCGGTCTT AGG	ACAAGGGGAGACGTTT GTGG	60.0	243	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold290_P2_123411	scaffold290	123411	TAAAAAA/TAAAAA	CCAAACCAATAAAACA TTCCAA	ACAAATGCCATTGTAC CGT	60.1	375	INTERGENIC	--	--	--
scaffold290_P2_124623	scaffold290	124623	CTTTTTTTTT/CTTTTTTTTT	AATTTTGGTTGACTTTG CCG	GAGGCTTTTGCATGG AGAG	60.0	526	INTERGENIC	--	--	--
scaffold290_P2_126092	scaffold290	126092	AATATATATATATATATATATATA/A ATATATATATATATATATATA	TAGCCACGCTTTTATAG CCG	TTACTCTTCACGTCAG GGGC	60.3	302	INTERGENIC	--	--	--
scaffold290_P2_134045	scaffold290	134045	TTATATATATATATATATATATATA TATATAT/TTATATATATATATATAT ATATATATAT	TAGTTCCTCGGAGGTT GTGG	CCAAATGCAGCAACGT CTAA	59.9	561	INTERGENIC	--	--	--
scaffold290_P2_161232	scaffold290	161232	GTTACTATGGA/G	CAAAATAGATTTGGGG GTTTG	TCGACGTTTTGCGGT AACT	60.7	497	DRR	Ca_19830	F	--
scaffold290_P2_162712	scaffold290	162712	ATTTTTTTT/ATTTTTTTT	GCCAAGAATGCAACCA ACTT	TTGGGAACAGATCATG CAAA	60.0	502	INTRON	Ca_19830	F	--
scaffold290_P2_178205	scaffold290	178205	TAAAAAAAAA/TAAAAAAAAA	CACATCGAAGCAATCGT CAT	TCAGAACTGAACTTTG CCCA	59.4	767	INTRON	Ca_19830	F	--
scaffold290_P2_187289	scaffold290	187289	TG/T	GAGGTAAGGTGGAGGC ATGA	TGCGATGCTTACTATG CAGG	60.0	713	INTRON	Ca_19830	F	--
scaffold290_P2_189028	scaffold290	189028	TAAAAAAAAA/TAAAAAAAAA	TCAGGAGGATGACGGG TTAC	TTGATCATGGGGGTGA TTTT	60.0	624	INTRON	Ca_19830	F	--
scaffold290_P2_197146	scaffold290	197146	ATTTTTTTTT/ATTTTTTTTTT	CCCATGGATCAATGCA CATA	GCCTTGACACACCTG AGCA	59.9	413	INTRON	Ca_19830	F	--
scaffold290_P2_199841	scaffold290	199841	CAAAAA/CAAAA	GGAAGTGAAGGGGAGA AAGG	TTGATTGAAATGGGG AAGC	59.9	275	INTRON	Ca_19830	F	--
scaffold290_P2_204899	scaffold290	204899	GTACACAATAT/GT	ACCTTGGTCCGATGAC AAAC	TTTCCCAATTGAAAGGA TTGA	59.4	656	INTRON	Ca_19830	F	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold290_P2_206705	scaffold290	206705	GAT/GATCAATTAAAT	TCCCTCTTTCAAGTCA ACTCA	TCGCTCTAGGCTAATC CAACT	58.3	318	INTRON	Ca_19830	F	--
scaffold290_P2_215519	scaffold290	215519	CAAAAAAAAA/CAAAAAAAAA	TGGACACCTTTGATGCA CTT	TAAACCCACATGAC CGAT	60.1	487	INTERGENIC	--	--	--
scaffold290_P2_231729	scaffold290	231729	AATATATATATATATA/AATATATATAT ATATATATA	TTTCACACCTCAATGCG AAG	ACCGAATGGCAGATTC AAAC	59.9	789	INTERGENIC	--	--	--
scaffold290_P2_233617	scaffold290	233617	A/AC	GGACGACCTAGCCTAT TCCC	TGATCCGTTACAAAATG CCA	59.9	430	INTERGENIC	--	--	--
scaffold290_P2_250722	scaffold290	250722	AGGGG/AGGG	TGCAAGCTACGATGATT TCG	GTGAGAGGCCCCACAA TCTA	60.1	730	INTERGENIC	--	--	--
scaffold290_P2_264527	scaffold290	264527	TAAAAAAAAA/TAAAAAAAAA	TGAAACAAGAAACGAC GCA	TTCTAAGTTTGGGGTG GTGG	59.8	811	INTERGENIC	--	--	--
scaffold290_P2_280894	scaffold290	280894	TAATTATTG/TAATTATTGAATTATTG	GGTTCGCATATTGCCT TGT	TTGGCACATCTACTTCA CTGC	58.9	222	INTERGENIC	--	--	--
scaffold290_P2_285456	scaffold290	285456	AG/AGG	TTGGTCGTTTGAGCCTT TCT	GGGGCTTCAGTAAGGG TAGG	60.0	436	INTERGENIC	--	--	--
scaffold290_P2_293241	scaffold290	293241	ATTATTTATTTATTTATTTATT/ATT ATTTATTTATTTATTTATTTATT	TTGCTCTTAATTTTCC TCGAA	GTGAGTCTGCGACCAC TTGA	60.0	602	INTERGENIC	--	--	--
scaffold290_P2_298253	scaffold290	298253	GAAAAA/GAAAAA	CACCGTGTTCCTGATT GGA	GGCATCCGAGGATACG ACTA	60.1	705	DRR	Ca_19835	R	C2H2
scaffold290_P2_310286	scaffold290	310286	ATTTTTTTTT/ATTTTTTTTT	GCGACTTCCAACCTGGT TTTT	AAATGCCCATTTGGATT TACT	57.5	152	INTERGENIC	--	--	--
scaffold290_P2_372111	scaffold290	372111	TAAAAAAAAA/TAAAAAAAAA	TCCTAGTCCGCGACTC AATC	TAGGTGCGTTTCTTTTG CAG	59.1	517	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold290_P2_377065	scaffold290	377065	ATT/AT	TGCTTCAAGCTGCAAT TCT	CGCCTTGGTTACCCTT CAT	59.9	789	INTERGENIC	--	--	--
scaffold290_P2_400824	scaffold290	400824	TAAAAAAAAA/TAAAAAAAAA	TTGTGTTGCATTGTGGA TTCT	CACAGCCCCCTCTAAAC CAAC	59.6	650	INTERGENIC	--	--	--
scaffold290_P2_418174	scaffold290	418174	GT/GTT	GAAGAGGCTAAACGGG GAAG	ATGCAAAGGTTGGTCA TTCC	59.8	409	INTERGENIC	--	--	--
scaffold290_P2_419495	scaffold290	419495	ACC/ACCC	GGGTCCCAATTAAACT CCC	ATTGCTGGAAATTGAAT GGC	59.9	526	INTERGENIC	--	--	--
scaffold290_P2_429778	scaffold290	429778	ATTTTTTTTT/ATTTTTTTTT	ACTCCGATGCACTGTTA CCC	TAATGTGTCGTGCTTC GCC	59.7	751	INTERGENIC	--	--	--
scaffold290_P2_434027	scaffold290	434027	CTTTTTTTT/CTTTTTTTTT	GGGACCATGCTTTTGG CTAT	ACAAGGCAAATATGCG AACC	60.0	243	INTERGENIC	--	--	--
scaffold290_P2_434453	scaffold290	434453	ATTATTTTTATTTTTATT/ATTATTTTTAT TTTTATTTTTATT	GGTTCGCATATTGCCT TGT	TGCGGTAGAGTAAATG TGACAAA	59.7	570	INTERGENIC	--	--	--
scaffold290_P2_452067	scaffold290	452067	GAAA/GAA	GAAAAATTCAACACCGA TTAGG	TACAATCAGGATGCGT CCAA	60.1	632	INTERGENIC	--	--	--
scaffold290_P2_473818	scaffold290	473818	A/AAACATAAG	ACCGAGTGATGGCCTA ATTG	TTGGATCTCAATTCCTT CCG	60.0	663	INTERGENIC	--	--	--
scaffold290_P2_533287	scaffold290	533287	TAAAAAAAAA/TAAAAAAAAA	CGATGATCATTCCACTT ACCA	ACATTGGGTTTGGTTAT GCC	59.6	839	INTERGENIC	--	--	--
scaffold290_P2_553974	scaffold290	553974	CTTTTTTT/CTTTTTTT	TGCAATGAATGTTGCC AAT	TGGCGTTGGAGGTAA AAAC	60.0	422	INTERGENIC	--	--	--
scaffold290_P2_571667	scaffold290	571667	ATTTTT/ATTTTTTT	ATTCCTCCATTCTTAATG CCC	GGTAAGGGCTCCTTCC AAAC	59.9	529	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold290_P2_721068	scaffold290	721068	TAAAAAA/TAAAAAA	AACTCCAACAACCGTT GAG	TCTCCTAGTGCATGG AGAAA	60.0	936	INTERGENIC	--	--	--
scaffold290_P2_721955	scaffold290	721955	ATTTTTTT/ATTTTTTTTT	AACAGCACCCGAGATC CTTA	TGCAACACAAAACCA GAGC	59.9	457	INTERGENIC	--	--	--
scaffold290_P2_743194	scaffold290	743194	CAA/CA	AAAGCAACCATAAAAGG GCA	GGGTTTCGATTTTCGT TTTG	60.7	335	INTERGENIC	--	--	--
scaffold290_P2_743230	scaffold290	743230	ATTTTTTTTT/ATTTTTTTTT	AAAGCAACCATAAAAGG GCA	GGGTTTCGATTTTCGT TTTG	60.7	335	INTERGENIC	--	--	--
scaffold290_P2_763358	scaffold290	763358	TTTATTATTATTATTATTATT/TT TATTATTATTATTATTATTATT	TGAAGGACAATTGACTT TTTCATT	AAATGTCACACTTGCCA TAAAGTT	59.0	239	INTERGENIC	--	--	--
scaffold290_P2_764180	scaffold290	764180	ATTATT/ATTATTGTTATT	TGTTGTAATTTGAATG AGCAATTAAC	CCACCACAACAAGACA GAGG	59.1	417	INTERGENIC	--	--	--
scaffold290_P2_764719	scaffold290	764719	ATT/AT	CCTCTGTCTTGTGTGG TGG	AAAGGACATTGCCTTG GTTG	60.0	740	INTERGENIC	--	--	--
scaffold290_P2_774159	scaffold290	774159	GTTTTTTTT/GTTTTTTTT	GTGCTTGCCTCAACCA ATTT	AATACTTTGCACCGG CATC	60.0	368	INTERGENIC	--	--	--
scaffold290_P2_780882	scaffold290	780882	ACCCCC/ACCCCC	GCAGCTCCTAAAAGCA CACC	CATTGTCCCAAAGCTT GGT	60.0	219	DRR	Ca_19849	--	--
scaffold290_P2_80713	scaffold290	80713	AACGCATCGGT/A	CCCAATCCAATGCTGA ACT	AATTGCTGTGTGCTT GGTG	59.8	236	DRR	Ca_19826	--	--
scaffold290_P2_813658	scaffold290	813658	G/GC	GCTTGGAACAGCCTC AGAC	CGGTGCAAACTCTACG TTCA	59.9	365	INTERGENIC	--	--	--
scaffold290_P2_838236	scaffold290	838236	AAATAATAATAATAATAATAATA ATAA/AAATAATAATAATAATAATA TAATAATAATAA	TGTCTCAAGGTCTCGT GGTG	CACACCATCAAATAGCA ACCA	59.5	792	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold290_P2_838476	scaffold290	838476	TAAAAAAAAA/TAAAAAAAAA	CACGGTTCATGACAAA ATTG	CACACCATCAAATAGCA ACCA	59.5	700	INTERGENIC	--	--	--
scaffold290_P2_859147	scaffold290	859147	TAAAAA/TAAAAA	TTCCCTCTCCCCATTTT CTT	GCATTTGGGTGAAAA TTGC	60.3	442	INTERGENIC	--	--	--
scaffold290_P2_867556	scaffold290	867556	AGGCCTACG/AGGCCTACGCCTGGCCT ACG	TGCATTTTGAGTCTTGC TCG	GCCGAAGAAAAAGCCT ATGA	59.4	132	INTERGENIC	--	--	--
scaffold290_P2_87350	scaffold290	87350	TCTCAACTCAACT/TCTCAACTCAACTC AACTCAACT	CGACGAACCTCTTGGG TTGT	GCCACGTGGTCTAAGC TTTC	59.9	543	INTERGENIC	--	--	--
scaffold290_P2_874103	scaffold290	874103	GTATA/GTA	CCCAAGACGACTTAAC CCA	GGGCAAGTGAAACATGG TCTT	60.0	388	INTERGENIC	--	--	--
scaffold290_P2_877992	scaffold290	877992	CTTTTTTTTT/CTTTTTTTTT	TTTGACATGAGGCGTG TGTT	TCCGAAGACTTCCGCT ACAT	59.8	426	INTERGENIC	--	--	--
scaffold290_P2_878134	scaffold290	878134	CG/C	TTTGACATGAGGCGTG TGTT	TCCGAAGACTTCCGCT ACAT	59.8	426	INTERGENIC	--	--	--
scaffold290_P2_879217	scaffold290	879217	ATTTTTTTTT/ATTTTTTTTT	ACACCCAATATCTCGCG TTC	GAAACTTTTCCGCTG CTTG	60.0	350	INTERGENIC	--	--	--
scaffold290_P2_9805	scaffold290	9805	GAAAAAAAAA/GAAAAAAAAA	TTCAATGGGAAAAACA ACC	GGACGTTGTCACTTTC TTTGG	59.6	567	INTERGENIC	--	--	--
scaffold2900_P2_7979	scaffold2900	7979	ATT/AT	TATGAAAATCGCCCGAA AAG	GGTCCTCGATTTCATCT GGA	60.0	355	INTERGENIC	--	--	--
scaffold2907_P2_19085	scaffold2907	19085	CGGG/CGG	AATCGATTGAGGATTG GTG	AGTGTGAGGTGGTG AGGG	60.0	306	INTERGENIC	--	--	--
scaffold2907_P2_21102	scaffold2907	21102	AAT/AATGTATGTTGTAT	GGTCTCAGCCCTTCC TTAG	AAAATCCAACAATCTCC CCC	60.0	562	DRR	Ca_27009	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2907_P2_30453	scaffold2907	30453	T/TA	TATTGATCCCTTGCC CAG	TGGGTGCTATTGCAA TCAA	60.1	635	INTRON	Ca_27010	--	Trihelix
scaffold2916_P2_14263	scaffold2916	14263	T/TTTTCTA	CCTGCTCCTGCTTCAAT AGC	TTGCAAATAAAAGCG GGTT	59.6	631	INTERGENIC	--	--	--
scaffold2916_P2_15794	scaffold2916	15794	TAAAAAAAAA/TAAAAAAAAA	TGCACCTTTTAGAGCAC CGT	GCAGACTCGGATTTC CTAA	59.3	773	INTERGENIC	--	--	--
scaffold2916_P2_20817	scaffold2916	20817	AG/A	TCATCTTACTTCTGGG GCT	CAATGAATGACCCCA GCTT	59.9	350	INTERGENIC	--	--	--
scaffold2916_P2_60938	scaffold2916	60938	AT/ATTAAT	TGTTGCCGTATAACCGT TGA	ATTAACAAGCATTTC GGC	60.1	576	INTRON	Ca_26456	--	RAV
scaffold2924_P2_26942	scaffold2924	26942	T/TG	TGCAGGTAGCACTCCA AATG	TGGAGAACTCGCTC TGAT	60.0	652	INTERGENIC	--	--	--
scaffold2924_P2_8200	scaffold2924	8200	ATTTT/ATTTT	TTGCTTCATGGAACCTG AGG	CGTCCTCGAAATTGA CGTG	61.6	295	INTERGENIC	--	--	--
scaffold2928_P2_10516	scaffold2928	10516	ATGTTGTT/ATGTT	TGATTTCAATCCCAAT GCT	ACTTGCACAATTTTCAT TCC	60.1	584	DRR	Ca_27959	--	--
scaffold2928_P2_14010	scaffold2928	14010	ACC/AC	CCCAATGACACAAACAC ACC	AGGTCATTTTCGTCCTC CCT	59.9	579	INTERGENIC	--	--	--
scaffold2928_P2_18293	scaffold2928	18293	A/AT	TTGGATGCACAAGATTG GTT	GTGTGTCTGGTCATTG GACG	60.0	196	INTERGENIC	--	--	--
scaffold2928_P2_22766	scaffold2928	22766	ATTTT/ATTTT	AACCAATGATGTGCATC CAA	AGGGAGGACGAAATG ACCT	59.9	471	INTERGENIC	--	--	--
scaffold2928_P2_23701	scaffold2928	23701	TTGT/TT	AGACCTCGCTTGGCTG ATTA	ACGGAGGAGGAAATG ACCT	59.9	210	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold293_P2_27940	scaffold293	27940	TTTTCTTCTTTCTTCTTC/TTTTCTCTTC	GCATCACGCTACCATA GGCT	TTGGTCGTTTGAGCCT TTCT	59.9	511	INTERGENIC	--	--	--
scaffold2931_P2_1404	scaffold2931	1404	CTTTTTT/CTTTTTTTT	GCCCTCAGATGAGAGT CAGG	GGAGGGTTTTGGTTTG GAAT	60.0	707	INTERGENIC	--	--	--
scaffold2932_P2_13288	scaffold2932	13288	TCCCCC/TCCCCC	TTTCGTCCTCTTTGGGC TTA	ACGGACGACGAAAATG ACTT	59.6	413	INTERGENIC	--	--	--
scaffold2932_P2_2304	scaffold2932	2304	GTTTT/GTTTTT	ATTGTCGTCCTCCCTAG GCT	ACACCTATTGGATGCC CAAG	59.8	670	INTERGENIC	--	--	--
scaffold2940_P2_3772	scaffold2940	3772	AG/A	TTTAGGTCATTTTCGTC CGC	ACAAGAATACGCTTGT GGGG	60.0	137	INTERGENIC	--	--	--
scaffold2950_P2_10165	scaffold2950	10165	AGG/AGGG	AGTTGTTTGATACACG GGC	AGTGCTGTGGCTGGAC CTAT	59.8	662	INTRON	Ca_27517	L	FAR1
scaffold2950_P2_10696	scaffold2950	10696	G/GT	TGATGATATCAGGCAAC GGA	TGCCCCACAGTAGC TTTC	60.1	588	INTRON	Ca_27517	L	FAR1
scaffold2950_P2_1436	scaffold2950	1436	ATTTT/ATTTTT	GTCCTCTGAAACCTCC CACA	TTTTGGGTCGTGACAC TTGA	60.1	337	INTERGENIC	--	--	--
scaffold2950_P2_515	scaffold2950	515	CA/CATTA	TGGAATAATCCACCGG GTAA	ACAACGACAACGACAA CGTG	60.7	782	INTERGENIC	--	--	--
scaffold2950_P2_671	scaffold2950	671	CTTTTTTTTTT/CTTTTTTTTT	TAACGGTCTCCAAATCC CTG	TTTGTTGGGTTTGCCCT ACC	59.8	846	INTERGENIC	--	--	--
scaffold2950_P2_6843	scaffold2950	6843	A/AG	CCAAATTACAACCGACC CAC	AAAGCGCTCCTCTAT CACA	60.0	650	INTERGENIC	--	--	--
scaffold2950_P2_6903	scaffold2950	6903	AAA/AAATAA	CCAAATTACAACCGACC CAC	AAAGCGCTCCTCTAT CACA	60.0	650	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2950_P2_7749	scaffold2950	7749	ATTTT/ATTTT	CACGTTTTAAAGGGTT TGC	GGTAAAGCCCATTCG ACCA	59.9	845	INTRON	Ca_27517	L	FAR1
scaffold2950_P2_8204	scaffold2950	8204	T/TG	TGGTCAGAATGGGCTT TACC	TTCAGAAGGCCAGAA GAAA	59.9	506	INTRON	Ca_27517	L	FAR1
scaffold2955_P2_10080	scaffold2955	10080	CT/CTT	AGAGTGGACGGAAAT GGTG	AAACTTGGTGCCCTGA CTTG	60.1	621	INTERGENIC	--	--	--
scaffold2955_P2_11390	scaffold2955	11390	ATTTT/ATTTT	TAGAATAAGGCTCGAC CGGA	TCCAAGCCCTTCTCTT TCA	59.9	402	INTERGENIC	--	--	--
scaffold2955_P2_11713	scaffold2955	11713	GTTT/GTT	TGAAGAGAAAGGGCT TGGA	AACTCGTTGTTCATTG GTGA	58.1	649	INTERGENIC	--	--	--
scaffold2955_P2_20198	scaffold2955	20198	AATATA/AATATATA	AAACCGCACTATGAACA CCC	TCGACATATTGCTTCC TGTTT	58.8	755	INTERGENIC	--	--	--
scaffold2955_P2_22283	scaffold2955	22283	TT/TTAT	TGCGTGATAAAGGTA GTTCCG	TGTCCATGAGTAATTG CATTGAA	60.4	772	INTERGENIC	--	--	--
scaffold2955_P2_22371	scaffold2955	22371	TAAAAAAAAA/TAAAAAAAA	TCGAACGAGATATTG TAATTGTG	TGTCCATGAGTAATTG CATTGAA	60.4	663	INTERGENIC	--	--	--
scaffold2955_P2_22975	scaffold2955	22975	AATAAATT/AATAAATTATATAATT	TCAATGCAATTACTCAT GGACA	TTTCACCTTATTCTAAA CTGTTTGATG	59.1	905	INTERGENIC	--	--	--
scaffold2955_P2_23532	scaffold2955	23532	TG/T	TGAATGAATTTAGCAAC GAACA	TCAACCAGGAGATACC TATGGA	58.5	532	INTERGENIC	--	--	--
scaffold2955_P2_23801	scaffold2955	23801	T/TA	TGAATGAATTTAGCAAC GAACA	ATGTTGTGTGTGCTGA GGGA	60.2	595	INTERGENIC	--	--	--
scaffold2955_P2_23937	scaffold2955	23937	TAAAAAAAAAAAAA/TAAAAAAAA A	TGAATGAATTTAGCAAC GAACA	ATGTTGTGTGTGCTGA GGGA	60.2	595	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2955_P2_25567	scaffold2955	25567	TAACAAC/TAAC	CGTGCACTTTAGCGAG AACA	ACATTCTGCTGGGACC TTTG	60.1	560	INTERGENIC	--	--	--
scaffold2955_P2_38336	scaffold2955	38336	ATTTTTTTTT/ATTTTTTTTT	ATCACCTTCTCCTCCG GTT	AGCGACTTCATAGGCC AAAA	59.8	530	INTERGENIC	--	--	--
scaffold2955_P2_39297	scaffold2955	39297	AAAAAGTTGTAATCTAAAA/AAAAA	TTTTGCCATGTCTCAGC TTG	GGGCATGTTGTCTTC TCCT	59.1	593	INTERGENIC	--	--	--
scaffold2955_P2_42846	scaffold2955	42846	AT/A	GACCAAAGGGAGATTG TGGA	CGGGTTGAGGATTGAT CTGT	59.9	730	INTERGENIC	--	--	--
scaffold2955_P2_43606	scaffold2955	43606	TA/T	GATGACCGTTGGAGCT CATT	TCATCATCAAAAAGGG GGAG	59.9	572	INTERGENIC	--	--	--
scaffold2955_P2_6116	scaffold2955	6116	TTTTGAGAAA/TTTTGAGAAATTGAGA AA	ACAAGTTGATGGGACTT GGC	GTCATCTGACCCCAAC GACT	60.0	572	INTERGENIC	--	--	--
scaffold2955_P2_926	scaffold2955	926	A/AT	CCCAAATGCCCTACTCT GAA	GGAAACGACCCCTAT TAGC	59.8	127	INTERGENIC	--	--	--
scaffold2955_P2_9708	scaffold2955	9708	T/TCTAC	ACTATGCAAAGGTGCAA GGC	CACCATTTCCGTCCA CTCT	60.0	374	INTERGENIC	--	--	--
scaffold296_P2_108971	scaffold296	108971	ATT/AT	GGTTGGGGACAAGCAA TAGA	AAAGCGTTTGACTTGC GATT	59.9	452	INTERGENIC	--	--	--
scaffold296_P2_11327	scaffold296	11327	TCC/TCCC	TGGACGTAGTCCGAGT TGGT	CTTGTGCTTCGGTTAC AGCA	60.1	517	INTERGENIC	--	--	--
scaffold296_P2_15394	scaffold296	15394	AAGA/AA	CAGTGATGCCAGCCAA GACA	AGTTCAGGCCTTTGCA AGAA	60.0	460	INTERGENIC	--	--	--
scaffold296_P2_16183	scaffold296	16183	TAAAAA/TAAAAA	GCAGGGATCCAAAAGT TCAA	GTTTGGCAGTGAGAAA AGGC	59.9	456	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold296_P2_222672	scaffold296	222672	ATCAGTGG/A	TCCACGGTTTGTCCATA GGT	TTGGTGGAGAAGGGT TTTG	59.9	325	INTERGENIC	--	--	--
scaffold296_P2_250245	scaffold296	250245	TT/TTGGT	TGGTGTTCCTTCACG ACG	CCCATTACAAATTTGC GAGT	60.0	649	INTERGENIC	--	--	--
scaffold296_P2_257003	scaffold296	257003	ATTTTTTT/ATTTTTTTT	CAAATGTCGTCCAAAA GCA	CTCAATAGGAGTTCGC AGGC	60.0	433	INTERGENIC	--	--	--
scaffold296_P2_259048	scaffold296	259048	A/AT	AAGGTCAAGCAGTGGC AGAT	CATCTTCAAAGGGGCA TGAT	59.9	741	INTERGENIC	--	--	--
scaffold296_P2_261410	scaffold296	261410	AAGAGAGAG/AAGAGAGAGAGAGAG	CATTGTGGGAGCGTAA GACA	TCGCAACTCTCATGTG TATGG	59.7	388	INTERGENIC	--	--	--
scaffold296_P2_261628	scaffold296	261628	TACACACACAC/TACACACACAC	CATTGTGGGAGCGTAA GACA	TCGCAACTCTCATGTG TATGG	59.7	388	INTERGENIC	--	--	--
scaffold296_P2_261904	scaffold296	261904	CAAAAA/CAAAA	CCATACACATGAGAGTT GCGA	TTGACTCAGCCTTAAT TTTTATTGA	59.6	534	DRR	Ca_20542	--	--
scaffold296_P2_262823	scaffold296	262823	ATATTATTATTATTATT/ATATTATT ATTATTATTA	CACTTTTTAACCGGAGG AATG	GCAGTGGATAAGGCCG ATAA	60.1	140	DRR	Ca_20542	--	--
scaffold296_P2_265325	scaffold296	265325	AACTACTA/AACTA	TCAAGCCATAAATGATG CCA	ATCTGCCACTGCTTGA CCTT	59.9	257	INTERGENIC	--	--	--
scaffold296_P2_266779	scaffold296	266779	GTTTTTTTTT/GTTTTTTTTTT	ACCAGTCCGCATCAT CTAC	TGATGAATTTGATGTTG TTGGA	58.9	631	INTERGENIC	--	--	--
scaffold296_P2_305411	scaffold296	305411	TTAAATAAAAT/TTAAATAAAATATAAT AAAAT	AGCTTCAAGGCAATGG GATA	TGGTGCCATTGAAGAT GAAA	60.0	672	INTERGENIC	--	--	--
scaffold296_P2_314458	scaffold296	314458	GAAAAAAA/GAAAAAAA	CGTCCATCCTGGTGT CTT	TTTTCCCAAGCGCT CTAA	60.0	574	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold296_P2_335726	scaffold296	335726	TTATATATATATATATATATAT/TTATA TATATATATATATATAT	TGATCTTCGGGGCACT ACTC	ATCGTTCCCAAAGTG ACAG	60.0	445	INTERGENIC	--	--	--
scaffold296_P2_337650	scaffold296	337650	AATTATTATTATTATTATTATTATTA TTATTA/AATTATTATTATTATTATTA TTATTATTA	ACGAAAATTCACGTCGA ACA	GGAGAATGATACGAGG GTGG	59.4	778	INTERGENIC	--	--	--
scaffold296_P2_406805	scaffold296	406805	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTAATATTATTATTA T/GTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT AATATTATTATTAT	AGTTATTTACGACGCAC GGG	GGCACGACATCATCAT CATC	59.9	547	INTERGENIC	--	--	--
scaffold296_P2_441808	scaffold296	441808	TAAAAAAAA/AAAAAAAAA	GACAAAGGCAGGCAAG AAAG	AGTTAGAGAGGGGAGG CAGC	60.0	591	DRR	Ca_20549	--	--
scaffold296_P2_78708	scaffold296	78708	TTATA/TTA	TATGGACCGGAAATGG ATGT	GACATTGCATTTTGA CAGC	60.0	606	INTERGENIC	--	--	--
scaffold296_P2_81857	scaffold296	81857	GAAAAAAAA/AAAAAAAAA	TTTGCAACATCACAACC ACA	GCTGGAAAAGCGCTCT AAAA	59.7	692	INTERGENIC	--	--	--
scaffold296_P2_84993	scaffold296	84993	TAAAAAAAA/AAAAAAAAA	TCTCGCATAGCTTTTC GAT	TGATTGCAATAGCAC CCAA	60.1	241	INTRON	Ca_20533	--	--
scaffold296_P2_15868	scaffold296	15868	A/ATAATCGAAAAGACATTTC	ACAAGGTTCTCCGTTCT CTT	AGAAAGCGACGAAAC GAAA	60.0	683	INTERGENIC	--	--	--
scaffold298_P2_208119	scaffold298	208119	GTTTTTTTT/GTTTTTTTT	AGTCGGAGGTTCTAG CACA	ATTGTTGGGCTTGTC GTCC	60.0	471	INTERGENIC	--	--	--
scaffold298_P2_208182	scaffold298	208182	TA/TATAAA	AGTCGGAGGTTCTAG CACA	ATTGTTGGGCTTGTC GTCC	60.0	471	INTERGENIC	--	--	--
scaffold298_P2_2633	scaffold298	2633	AAT/ATAT	CATCCACCCCTCTAAAC CAA	TCGATTGATAGACCTT GCATTT	58.7	416	INTERGENIC	--	--	--
scaffold298_P2_3487	scaffold298	3487	TTATATATATATATATATATATATA/TT ATATATATATATATATATATATA	AACCGACACTCAACCCA CTC	TGTTGGCGAAATCGTT GTTA	60.1	428	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold298_P2_76407	scaffold298	76407	ATTTTTTTTT/ATTTTTTTTT	GTTCAAACACACGCTC ACG	GATTGGACTTGTGGCT TGCT	60.3	569	INTERGENIC	--	--	--
scaffold298_P2_8123	scaffold298	8123	TGA/T	AAATGAAAAGTGGCGA GGAC	AGTTACCCATTGTGG CAGC	60.0	740	INTERGENIC	--	--	--
scaffold298_P2_9591	scaffold298	9591	TAAAA/TAAA	AGTTTCGTCACCGTTTT TGG	CTCAAAGGGCTAGCA AATG	59.8	672	INTERGENIC	--	--	--
scaffold2981_P2_12753	scaffold2981	12753	ATTTTTTT/ATTTTTTTTT	TGTTATAGGTTTCGCC CAG	CTTTTCGGGCGATTT CATA	60.0	840	INTERGENIC	--	--	--
scaffold299_P2_135247	scaffold299	135247	AGGTTTCATT/AGGTTTCATTAGGTTTCAT T	TTTGGGGAATCAGACC AGAG	AAAATTAGCACATGCC GACC	60.0	479	INTRON	Ca_25994	A	--
scaffold299_P2_213491	scaffold299	213491	AGG/AGGG	ACGGGAGCAAAAGTCT CTGA	CCAAAAGAAAATGCC AAGA	60.0	705	INTERGENIC	--	--	--
scaffold299_P2_213941	scaffold299	213941	AACACA/AACACACA	ATTATTATCGCCCCGA AAC	TTTTGGTTGCACTGCTT TTG	59.9	379	INTERGENIC	--	--	--
scaffold299_P2_27346	scaffold299	27346	GATAATAATAATAATAATAATAATAA TAA/GATAATAATAATAATAATAATA ATAA	CTACCGCGATCAAATAC GGT	CCCTTTTGTCTTCTGT GGC	59.7	977	INTERGENIC	--	--	--
scaffold299_P2_44041	scaffold299	44041	AATATATATATATATAT/AATATATATATA TATATAT	ACATTGATCCCTTGTC CCA	AGTTGGCTCACTAGCA CCGT	59.9	792	INTERGENIC	--	--	--
scaffold299_P2_62956	scaffold299	62956	TTATATATATATATATATA/TTATATAT ATATATATATATATA	TAACAGCATCGCAGCA TGG	AATTGCGGCAGAGAA GATA	59.9	362	INTERGENIC	--	--	--
scaffold299_P2_63392	scaffold299	63392	AATATATATATATATATATATATATATA ATA/AATATATATATATATATATATATA TATA	AAATATCTTCTCTCGCC GCA	CTGAGATGCAGCGTTT TTCA	60.1	528	INTERGENIC	--	--	--
scaffold30_P2_65488	scaffold30	65488	A/AG	GGAGGACGAAAATGAC CAAA	TGTGTGTTTGTGTCATC GGA	59.5	447	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3002_P2_1129	scaffold3002	1129	TAAAAAAAAA/TAAAAAAAAA	ACGCACGCCAATTAA ATC	TTGGTTTCAAAGTTCA CACA	59.1	788	INTERGENIC	--	--	--
scaffold3015_P2_68458	scaffold3015	68458	AT/ATAGTGCTCAGT	TGCCTTTCTATGGCAA TCC	GCATGAGTTTTGTCTG CGAA	60.0	323	INTERGENIC	--	--	--
scaffold3015_P2_68656	scaffold3015	68656	A/AACCGGCACAGCC	TTCGCAGACAAACTCA TGC	AGCATTATGGGCCATC TGAG	60.1	283	CDS (large-effect mutations)	Ca_27318	--	--
scaffold3015_P2_69170	scaffold3015	69170	AG/A	GGCCCAATGCTCAA GTGT	TCATAGGCATGGGATT TGAA	58.9	472	DRR	Ca_27318	--	--
scaffold3015_P2_73264	scaffold3015	73264	TGGCATAG/TG	TTTGTGTTTGCATGAC GAT	TAAGACGGAGTTTCT CCCA	59.9	792	INTERGENIC	--	--	--
scaffold3015_P2_73454	scaffold3015	73454	TTTTGACTTTGACTTT/TTTTGACTTTGA CTTTGACTTT	GTCTCGCGTTGAGTTAA GGG	TAAGACGGAGTTTCT CCCA	59.9	489	INTERGENIC	--	--	--
scaffold3015_P2_73940	scaffold3015	73940	TG/T	TGGGAGAACTCCGCT CTTA	TGATGGCTCCAAGGTG TATG	59.5	538	INTERGENIC	--	--	--
scaffold3015_P2_74020	scaffold3015	74020	AAAATCATA/AA	TGGGAGAACTCCGCT CTTA	TGATGGCTCCAAGGTG TATG	59.5	538	INTERGENIC	--	--	--
scaffold3015_P2_74169	scaffold3015	74169	TTT/TTTCTT	TTTTGAAATTTAGGGTG TCACG	TGATGGCTCCAAGGTG TATG	59.5	221	INTERGENIC	--	--	--
scaffold3019_P2_17640	scaffold3019	17640	GTTTT/GTTTTT	TGCATTATGGGTAGT GCAA	GATGTCTACCAAGTTC GGGT	60.0	570	DRR	Ca_28069	--	--
scaffold3019_P2_18112	scaffold3019	18112	CAAA/CA	ACCCGCAACTGGTAGA CATC	AATTGTTTGGCCTCAAA TGG	59.8	597	INTRON	Ca_28069	--	--
scaffold3019_P2_18761	scaffold3019	18761	GAAAAAAAAAAAAA/GAAAAAAAAA	ACCCCAACCAACAAGA CAG	CAAGCTTGAGCTATT GAGG	60.0	369	INTRON	Ca_28069	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3019_P2_18959	scaffold3019	18959	AT/ATT	ACCCCAACCAACAAGA CAG	CAAGCCTGGAGCTATT GAGG	60.0	369	INTRON	Ca_28069	--	--
scaffold3019_P2_20892	scaffold3019	20892	A/AATGGT	TGCATGAGTTGTTAAGG CGA	TATGCAAAACGGGACT TCCT	59.6	582	URR	Ca_28069	--	--
scaffold3028_P2_3726	scaffold3028	3726	TC/T	CTCCCCCTTTTGGCAT AAT	GTGAGGACCAGCCAC TTTA	60.1	577	DRR	Ca_28109	--	--
scaffold303_P2_162542	scaffold303	162542	AAGCGCTGT/AAGCGCTGTGGAACGA GCGCTGT	GCCATTTACAGCGCTTT TTC	TGAAATTATGGGTGGG CATT	60.0	357	DRR	Ca_26661	--	Trihelix
scaffold303_P2_16790	scaffold303	16790	ATTTTTTTTT/ATTTTTTTTT	TTTTTCTCTGCCAAGG CTA	ACCATGCAAAGACATC CACA	60.0	467	INTERGENIC	--	--	--
scaffold3032_P2_11288	scaffold3032	11288	GCCCC/GCCCCC	AGGTCATTTTCGTCTC CCT	TATCCAATGACCAAAAC GCA	59.9	487	INTERGENIC	--	--	--
scaffold3038_P2_10393	scaffold3038	10393	TG/T	TGTGCATCCAAGAGGT GTGT	GGCGAGAATGACCAAA ATGT	59.9	756	INTERGENIC	--	--	--
scaffold3038_P2_17812	scaffold3038	17812	C/CTTAAGT	AGGTCATTTTCGTCTC CCT	TCGACTTGTCATCGC TTTG	60.0	645	INTERGENIC	--	--	--
scaffold3038_P2_38806	scaffold3038	38806	A/AT	TGTGCATCCAAGAGGT GTGT	AGGGAGGACGAAATG ACCT	59.9	660	INTERGENIC	--	--	--
scaffold3046_P2_14446	scaffold3046	14446	AGGG/AGG	TTGGATGAACATTTTCG TCA	AAGCCTAGGGAGGACG AAAA	60.2	240	INTERGENIC	--	--	--
scaffold305_P2_168595	scaffold305	168595	TTAATAATAATAATAATAATAATAAT AAT/TTAATAATAATAATAATAATAAT	AAGACACAAGGCAATG CAAA	GGTGGTGAGGGTTAC CTTT	60.1	540	INTRON	Ca_25903	--	--
scaffold3051_P2_4826	scaffold3051	4826	AATA/AA	GGAGGAACCTCCTTG AAAA	ACAAACAAGTTGAGCA CCCC	60.0	648	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3058_P2_27566	scaffold3058	27566	CA/CAA	CTTTGTTTTTCACGAC CGT	TCCTCAGATGGATTAC GCC	60.0	737	DRR	Ca_27792	A	--
scaffold3058_P2_28248	scaffold3058	28248	ATTT/ATTTT	AAGTGTTTCCATGCCTG ACC	TATGCTAGACGCCACA CCTG	59.9	392	URR	Ca_27793	A	--
scaffold306_P2_128535	scaffold306	128535	TA/T	ACCGAAAGGAGAACAC ATGG	TGCAAAATGAAAGTTAA AGACCA	58.8	240	INTERGENIC	--	--	--
scaffold306_P2_128902	scaffold306	128902	AACA/AA	AAGGAGAACACATGGA CTTGC	TGAGGCTTCAAGGAAT TTGG	60.2	961	INTERGENIC	--	--	--
scaffold306_P2_128942	scaffold306	128942	ATATCTTTTATCTTTTATCTTTTA/ATATC TTTTATCTTTTA	TGCAGTTGTGTGAAGT TTACGG	TGAGGCTTCAAGGAAT TTGG	60.2	828	INTERGENIC	--	--	--
scaffold306_P2_130271	scaffold306	130271	GAAAAAAAA/GAAAAAAAA	TGCAAAATTCATCAAT CCA	CGTAGCCTTTGTTGT GCTG	59.5	415	INTERGENIC	--	--	--
scaffold306_P2_13557	scaffold306	13557	TTATTACTATTA/TTATTACTATTACTATT A	TCCACGGAATTCAAATC TCA	TGATTTTATGATGATGG ATAATTTTGA	59.9	280	DRR	Ca_22704	A	--
scaffold306_P2_166393	scaffold306	166393	TAAATCGATTG/TAAATCGATTGGGAAA TCGATTG	TGCACAAGTCAGTAGC ACCC	GCCAATCGATTACCCT CAAA	59.9	138	INTERGENIC	--	--	--
scaffold306_P2_182546	scaffold306	182546	A/AG	GGCCATTTATCGTTGAA AGAA	TTCCCTGCCATTAAG ATTG	59.9	707	INTERGENIC	--	--	--
scaffold306_P2_196935	scaffold306	196935	T/TA	CAAGCGTTGGAGTTTT GGTT	TTTATTTGTGGGGTT CTCG	59.8	859	INTERGENIC	--	--	--
scaffold306_P2_315106	scaffold306	315106	GT/G	CCTGAATCCGTGGTAAT TGG	TGCACAACGTTATCGG ACAT	60.0	446	INTERGENIC	--	--	--
scaffold306_P2_362358	scaffold306	362358	TAAAAAAAAA/TAAAAAAAAA	TGCACCAACACCAAAATC ACT	TCCTCCCTTCCCTTCCT TTA	60.0	884	INTRON	Ca_22719	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold306_P2_417784	scaffold306	417784	NNNTATATATAT/NATAT	GTGGCCTTATTGTCTG GGA	TGTGGGAGCCACATGT ATT	58.9	708	INTERGENIC	--	--	--
scaffold306_P2_464532	scaffold306	464532	TCCC/TCC	GACCATAGCGGAACAG AAGC	TTTCTGAGAATCACCAC CCC	59.9	765	INTERGENIC	--	--	--
scaffold306_P2_477894	scaffold306	477894	TAAAAAAAAA/TAAAAAAAAA	CGTCATTGCTTCTTCC CAT	TGGGACTTAAAAGCGT CGTT	59.7	880	INTRON	Ca_22723	C	NAC
scaffold306_P2_488224	scaffold306	488224	C/CG	CATGACACCCCTACCGA ACA	TGCCCTTGGATAGAC TCAT	59.5	530	INTERGENIC	--	--	--
scaffold3061_P2_596	scaffold3061	596	ATACATAAGTAA/ATACATAAGTAATTAC ATAAGTAA	TTTGCTGTGTGGGTGG TTTA	TCTTGTGAAGGAAGC TCGT	60.0	870	INTERGENIC	--	--	--
scaffold3075_P2_2186	scaffold3075	2186	ATT/ATTT	ATCGTCACATCTCCAC CTC	TGAGCTTTTCTCTTGCA CCA	59.7	515	INTERGENIC	--	--	--
scaffold3079_P2_6349	scaffold3079	6349	TA/TACACA	AATGGGAGAAGGAGGG AGAA	GGAGGGTTTTGGTTTG GAAT	60.0	854	INTERGENIC	--	--	--
scaffold3079_P2_6649	scaffold3079	6649	CATCACAATCACAATCACAATCACAAT/ CATCACAATCACAATCACAAT	GCCTCCGAGTTCAATA CCAA	CCCGTGATAGGCAGTA CGTT	60.0	779	INTERGENIC	--	--	--
scaffold3082_P2_3736	scaffold3082	3736	AATATATATATATATATATATAT/AAATATA TATATATATATATATATATATAT	CAATTGAGTTGCGCAA GAAG	ATGGGGAGAGAACAGA AGCA	59.8	204	INTERGENIC	--	--	--
scaffold3092_P2_1124	scaffold3092	1124	TAAAAAA/TAAAAAA	GAGGTATTTTACAGCG CTCTTTC	TTGGGTCTGAAGAATG GCTC	60.2	117	INTERGENIC	--	--	--
scaffold3093_P2_19732	scaffold3093	19732	GATATATATATATAT/GATATATATATAT ATAT	GAACCTCACAATCACA CGA	GAGCGCTGTAAACAC CTCC	59.9	863	INTERGENIC	--	--	--
scaffold3093_P2_19758	scaffold3093	19758	CATATATATATATA/CATATATATATATA TA	GAACCTCACAATCACA CGA	GAGCGCTGTAAACAC CTCC	59.9	863	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold310_P2_25707	scaffold310	25707	TAA/TAAA	AGGTCATTTTCGTCCTCCT	TAAGGCTGCTGTTGATGTGC	60.0	914	INTERGENIC	--	--	--
scaffold310_P2_43150	scaffold310	43150	GAAA/GAAAA	TTTTTGTCCCCCTTGA CTG	AGGGAGGACGAAAATG ACCT	59.9	506	INTERGENIC	--	--	--
scaffold311_P2_131360	scaffold311	131360	A/ACAT	GAAGCTCAGATGGCAC ACAA	CAATCTCCCCCTTGAG TTGA	60.0	716	DRR	Ca_26332	--	--
scaffold311_P2_24169	scaffold311	24169	T/TAA	TTTTCGTCCTCCCTAGG CTT	GCCAATGACACAAACA CACC	59.9	455	INTERGENIC	--	--	--
scaffold311_P2_26152	scaffold311	26152	TA/TAA	TCAACCAAGTGCATCCA AAA	GGAGGCCGAAAATGAC ATAA	59.9	564	INTERGENIC	--	--	--
scaffold311_P2_60612	scaffold311	60612	G/GAA	TGCATCCAACAGGTGT GTTT	AACCTAGGGAGGACG AAAA	59.9	466	INTERGENIC	--	--	--
scaffold311_P2_91768	scaffold311	91768	CAAAA/CAAAA	TGGGCAAGAAAAAGCC TATG	AGGTCATTTTCGTCCTC CCT	59.9	836	INTERGENIC	--	--	--
scaffold3115_P2_23123	scaffold3115	23123	TAATTAACGTAGAATTAACGTAGAA/TA ATTACGTAGAA	CGTCACACCAAAACGAA AAA	TGTTTTGGCGATACAC CTCA	60.1	704	DRR	Ca_26857	--	--
scaffold3115_P2_28404	scaffold3115	28404	AATATATATATATATATAT/AAATATA TATATATATATATAT	TTGGAGCAACCAATTC CTC	GTGGTGAAGTGAAGGC GATT	60.1	556	INTERGENIC	--	--	--
scaffold3115_P2_31329	scaffold3115	31329	CA/CAA	AGAGGAGGTTGCCATT CAAA	CTTGGTGGTCCACTAT GTGC	59.0	613	INTERGENIC	--	--	--
scaffold3115_P2_46746	scaffold3115	46746	ATTTTT/ATTTT	CGCCTCCTTTTCATCAT TTC	TTTCTAAAATCGTTTCT TGCCCC	58.7	750	INTERGENIC	--	--	--
scaffold3115_P2_46768	scaffold3115	46768	A/AT	GGAGCAAATTTTAATCC AAAATAA	TTTCTAAAATCGTTTCT TGCCCC	58.7	690	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3115_P2_46887	scaffold3115	46887	TC/T	TGTCTACATTTCTCTTT TTCATCTTGA	TTTCTAAATCGTTCTT TGCCCC	58.7	600	INTERGENIC	--	--	--
scaffold3115_P2_55767	scaffold3115	55767	TATACATACATACATACATACATA/TATA CATACATACATACATACATACATA	TGCATGTCCTCAAAG GTAA	TCATTGCTTACAAAG CCC	60.1	830	INTERGENIC	--	--	--
scaffold3115_P2_61891	scaffold3115	61891	GT/GTGTAT	CATGTCTCCATATTCCT TTCCA	GAACCTCACATGCAATT CACA	57.2	292	INTERGENIC	--	--	--
scaffold3115_P2_62578	scaffold3115	62578	ATTTTTTTTTTT/ATTTTTTTTTTTTTT	CTTGGTGGTCCACTAT GTGC	GGAGGTCAAATACTA ACTGCGA	59.7	594	INTERGENIC	--	--	--
scaffold3115_P2_62639	scaffold3115	62639	CTTTTTTT/CTTTTTTTTT	CTTGGTGGTCCACTAT GTGC	TTTCATAGGAGGCTGCC ATTC	60.2	632	INTERGENIC	--	--	--
scaffold3115_P2_62933	scaffold3115	62933	TTTATTATTATTATTATTATTATTATT TTTATTATTATTATTATTATAATTATTAT TATTA/TTTATTATTATTATTATTATTATT ATTTTTATTATTATTATTATAATTAT TATTATTA	CTTGGTGGTCCACTAT GTGC	TTTCATAGGAGGCTGCC ATTC	60.2	632	INTERGENIC	--	--	--
scaffold3115_P2_63715	scaffold3115	63715	AATATATATATATATATGTATATATAT ATATA/AATATATATATATATATATATGT ATATATATATATA	TGAAGCATATGCCGTG AGAG	AAGCAAGCTAGCGTCA ATGAA	60.2	285	INTERGENIC	--	--	--
scaffold3115_P2_63986	scaffold3115	63986	AATATATATATATATATATATATATAT A/AATATATATATATATATATATATATA TATA	TGAAGCATATGCCGTG AGAG	GCGTCAATGAACCTTA CATGC	58.3	559	INTERGENIC	--	--	--
scaffold3115_P2_77094	scaffold3115	77094	CTTCATCATTCATC/CTTCATCATTCATC ATTCATC	TCCAAAAATCAGCTCGA TCC	CTGAGTTCGTGACCGA ATGA	59.8	446	INTERGENIC	--	--	--
scaffold3115_P2_87750	scaffold3115	87750	T/TAAGA	GGGGACTTGAATTTCT GCAA	ATGCCTGCATTTTGTAG GTC	60.1	220	INTERGENIC	--	--	--
scaffold3124_P2_3791	scaffold3124	3791	T/TAA	TTTTGCATTTATGCAGT GTTGA	TCGCTTGACCTTATTC TTG	59.1	328	INTERGENIC	--	--	--
scaffold3127_P2_10029	scaffold3127	10029	TGAT/TGATCCACAAGATTGGAT	AGGGAGGACGAAAATG ACCT	TGTGCGTCCAATAGGT GTGT	60.0	561	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold3127_P2_2181	scaffold3127	2181	AC/A	GGAAGCACAAGATGGG GTAA	CGGTCAATTTTCTCCTCCT	60.4	265	INTERGENIC	--	--	--
scaffold3127_P2_8863	scaffold3127	8863	A/AT	AATCCAATGGCACAAC ACA	GGACATTTTCGTCTCGT CTA	60.1	488	INTERGENIC	--	--	--
scaffold313_P2_10968	scaffold313	10968	TGGTTTAGGGTTTAGGGTTTAGGGTTT AGGGTTTA/TGGTTTAGGGTTTAGGGTT TAGGGTTTA	GCTTCGGTGCTTGTTT TAG	ACCCGAAACGCAAAAC ACTA	60.5	447	INTERGENIC	--	--	--
scaffold313_P2_6407	scaffold313	6407	AGTTTAGGGTTTATGGTTTAGGGTTTA TGGTTTAGGGTT/AGTTTAGGGTTTATG GTTTAGGGTTTATGGTTTAGGGTTTAT GGTTTAGGGTT	TTAGTGTTCGCGTTTC GGA	CCTAAACCATAAACCG GAACC	59.6	208	INTERGENIC	--	--	--
scaffold3134_P2_109334	scaffold3134	109334	AATATATATATATATATATATAT/AATATA TATATATATAT	AGGAAGAGTGGAGTTG CGAA	TTAATGTGTCGCGGT GAAA	60.0	342	INTERGENIC	--	--	--
scaffold3134_P2_12154	scaffold3134	12154	ACATC/A	TAAACGAGGTAAACCG GTGC	GAAAGTCGCGATGTGCA ACAC	60.3	437	DRR	Ca_27104	O	C2H2
scaffold3134_P2_12226	scaffold3134	12226	TTTTTTTT/TTTTTTTTGTTTTTTTT	TAAACGAGGTAAACCG GTGC	GAAAGTCGCGATGTGCA ACAC	60.3	437	DRR	Ca_27104	O	C2H2
scaffold3134_P2_12915	scaffold3134	12915	CAA/CAA	TGACCGAATTCGCTTA TTC	CCAACATTTTCACCT GGC	60.3	523	DRR	Ca_27104	O	C2H2
scaffold3134_P2_133294	scaffold3134	133294	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT/ AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATT	TGAGGATGTGGCAAAAG ATGA	TTGAACGAGCCATGTT CTAATC	59.1	741	INTERGENIC	--	--	--
scaffold3134_P2_13446	scaffold3134	13446	A/ATAAACAAAT	CCAATCAGTTGGAGCC AGTT	CCAAGAGAAAGGCAGT CGAG	60.1	891	DRR	Ca_27104	O	C2H2
scaffold3134_P2_13610	scaffold3134	13610	A/AAG	TTGATTCGTGCAAAATCA GGA	CCAAGAGAAAGGCAGT CGAG	60.1	289	DRR	Ca_27104	O	C2H2
scaffold3134_P2_13740	scaffold3134	13740	ACTCCATC/AC	TTGATTCGTGCAAAATCA GGA	CCAAGAGAAAGGCAGT CGAG	60.1	289	DRR	Ca_27104	O	C2H2

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold314_P2_60778	scaffold314	60778	CTATA/CTA	TTGACATGGCTCAATATGTTT	TGGAACAAGGATAAGGCGAG	60.1	595	INTERGENIC	--	--	--
scaffold314_P2_687305	scaffold314	687305	T/TATTATTATTATTATTA	GGATTGTGTTGGGTGGATTCT	CGCCAGTGCCTTTTCTCTTT	59.6	261	INTRON	Ca_21818	OE	--
scaffold314_P2_688695	scaffold314	688695	T/TCAATC	TGTGGCAAAGCAAGTCAACAT	TCACCTTGCCAAAATCACC	60.1	263	INTRON	Ca_21818	OE	--
scaffold314_P2_72578	scaffold314	72578	ATTTTTTTTT/ATTTTTTTTT	GAACCTCATTGCGACACCCT	GCCTTTGTGGCACGTTTATT	60.0	498	INTERGENIC	--	--	--
scaffold314_P2_79300	scaffold314	79300	GAC/GACAAC	GGAGGAGCAGAAGCAACAAC	GAGCAACGTTTGGTTTGGTT	60.0	334	INTERGENIC	--	--	--
scaffold314_P2_79817	scaffold314	79817	GAA/GA	GAAGGCCCTCAAATCATCA	CACAGCACCAGGTTATCCCT	60.0	615	INTERGENIC	--	--	--
scaffold3149_P2_9644	scaffold3149	9644	TAG/TAGGAG	TTTCATCTGGACTTTTCGGG	ATCGTCGATGGGTACGAAAG	60.0	452	INTERGENIC	--	--	--
scaffold3155_P2_10277	scaffold3155	10277	T/TGGTGGAGGCCCGCAG	TCTGACATGTGTGCGAGTCA	TCGATATTGACGATGAACG	58.6	596	INTERGENIC	--	--	--
scaffold3155_P2_24057	scaffold3155	24057	GAAAAAAAA/GAAAAAAAA	TGCATATTTTGAAACGATGACA	TGCAACCATCGGTTAAATG	59.4	505	INTRON	Ca_27114	R	NF-YB
scaffold3156_P2_1952	scaffold3156	1952	CA/CATAAA	TGGATGCACAAGATCGGTTA	AGGTCATTTTCGTCCTCCT	59.9	276	INTERGENIC	--	--	--
scaffold3160_P2_10108	scaffold3160	10108	GTTTTTTTTTT/GTTTTTTTTTT	ATCACACAAATCACCAGCCA	TCTTCAGTCCAAGTCAATCG	57.9	335	INTERGENIC	--	--	--
scaffold3160_P2_10499	scaffold3160	10499	AG/AGG	TGGCTTTTAGTTAGACACCA	GCAACAAAGGAAACGGAAA	60.1	629	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3160_P2_8265	scaffold3160	8265	CTAAT/CTAATTAAT	GTTGCTCCTTTTCGCA GAC	GCATCCCTTTGTGCTG AGTT	60.3	744	INTERGENIC	--	--	--
scaffold3160_P2_9833	scaffold3160	9833	TGG/TG	AACCACTCACTCAAGC GTCC	TGGCTGGTGATTTGTG TGAT	60.0	165	INTERGENIC	--	--	--
scaffold3164_P2_2274	scaffold3164	2274	ACC/AC	CGTATTTCCGGGAAGA GTCA	TCGAGATTGTGTGCAA GGAG	60.0	614	INTERGENIC	--	--	--
scaffold317_P2_161347	scaffold317	161347	GAAAAAA/GAAAAAAA	GACCAATGCACCTATTG GAAA	CAATGGATTTTGTTTTA AGGTCG	59.8	100	INTERGENIC	--	--	--
scaffold317_P2_203820	scaffold317	203820	AATATATATATATATATATA/AATATAT ATATATATATATATATA	GAAATTTTGACGGAAC GGA	AACGACTGTACACGC CAAA	59.2	974	INTERGENIC	--	--	--
scaffold317_P2_30584	scaffold317	30584	CAAAAAATAAAAAAA/CAAAAAATAAA AAAAATAAAAAAA	CTCGCTCGGTTACCTT CATA	AGTTTCGATTCAAAGAC CCCA	59.5	682	DRR	Ca_25635	D	--
scaffold317_P2_602	scaffold317	602	A/AC	ACCACAATGTAACCC CGT	TGGTCATGCAGAACT CAGC	60.0	720	INTERGENIC	--	--	--
scaffold317_P2_8959	scaffold317	8959	TTATATATATATATATATATATATAT/T TATATATATATATATATATATATATAT ATATAT	AATGGAGGAAGGAGG AGAA	GACCAAGTCCAACCTT GCAT	60.0	492	INTERGENIC	--	--	--
scaffold3170_P2_165097	scaffold3170	165097	CTTTTT/CTTTTT	TGTCCCATTAATGCATC CGT	TCAACATTCAACTTCAT CCCA	59.0	527	INTERGENIC	--	--	--
scaffold3170_P2_205155	scaffold3170	205155	T/TTTG	TATGTCGCATGATTGAG GGA	TCTTTCAACTCCACAAC CCC	59.9	443	INTERGENIC	--	--	--
scaffold3170_P2_216441	scaffold3170	216441	CA/CAA	CGGGTTACGTATGCAG GTCT	TTGCTTCATTCTCATTG GCA	60.3	515	INTERGENIC	--	--	--
scaffold3170_P2_61619	scaffold3170	61619	TTATATATATATATAT/TTATATATATATA TATAT	AGCATTAGCAATCCTCC GAA	ACGAGAAAGCTGGACA GGAA	60.0	484	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3212_P2_1828	scaffold3212	1828	TAATCTAA/TA	GCAGAAATTTAAATGAGTGGTGTG	TGGAAGGTGGAGGTTGAGAG	60.2	715	INTERGENIC	--	--	--
scaffold3212_P2_2564	scaffold3212	2564	A/AC	TGAACCTCCACCTTCCATTC	CAACAAATGAGTGGCGATG	60.1	439	INTERGENIC	--	--	--
scaffold3212_P2_3810	scaffold3212	3810	ATT/ATTT	GTGGCCATTGTTCCAAGAGT	GTATGCATGAATTACGGGG	60.0	728	INTERGENIC	--	--	--
scaffold3212_P2_6334	scaffold3212	6334	ATTTTTTTT/ATTTTTTT	GAGCACATGATCTCGCAGAA	CACTGCTGAAGCGGAATACA	60.0	213	INTERGENIC	--	--	--
scaffold3212_P2_725	scaffold3212	725	CTT/CTTTT	CGAGTCGTGTCTTGATATGGA	CCCATTAGTGGTGATGCTCC	60.3	125	INTERGENIC	--	--	--
scaffold3212_P2_8804	scaffold3212	8804	GAA/GA	TGATGGACCAACAAGTCCA	TTAGGCATTGGGAAAGTTGG	59.9	492	INTERGENIC	--	--	--
scaffold3217_P2_4320	scaffold3217	4320	ATATATTTA/ATA	CTAGCAGAAGCAAGGCATCA	ATTCCCCATCAATTTGGACA	60.0	735	INTERGENIC	--	--	--
scaffold3217_P2_4699	scaffold3217	4699	TTA/TTACTATA	CGCTTTGCCCTTAGTTTGAG	ATTCCCCATCAATTTGGACA	60.0	298	INTERGENIC	--	--	--
scaffold322_P2_32031	scaffold322	32031	ATT/AT	AGGTCATTTCTTCGTCCT	GGACGAAAACGACCTAAACG	59.6	216	INTERGENIC	--	--	--
scaffold322_P2_4062	scaffold322	4062	CT/CCTGTAGAAGACTGGT	TGCAAGAGCATATGGCAAAG	AATAAGCGACCATTTGCCG	60.0	227	INTERGENIC	--	--	--
scaffold322_P2_55500	scaffold322	55500	TCTACT/TCT	AAGTGCATATCAGCAGCGTG	ACCAGGTATTGAATGAGCC	60.0	163	INTERGENIC	--	--	--
scaffold322_P2_77924	scaffold322	77924	GTTGATATTTTG/GTTGATATTTTGATATTTG	TTAGGAATCGAACCCGTGTC	TCCTTGAAGACAAGCAACCA	59.4	346	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3225_P2_20595	scaffold3225	20595	A/AG	TTTGATGCCCGATTAA AAA	GGTACCGCGAGTAATT CCAA	60.0	646	INTERGENIC	--	--	--
scaffold3228_P2_1705	scaffold3228	1705	GAA/GAAA	TTGGTGAAGGAGGAGG ATTG	CTCACCTTGAATGCC ACTT	60.1	149	INTERGENIC	--	--	--
scaffold3228_P2_1858	scaffold3228	1858	CATA/CATATA	TCAGCTTTTGGCTGAT GTG	CTTGTGGATTGGGTCT TG TG	59.0	247	INTERGENIC	--	--	--
scaffold3228_P2_47967	scaffold3228	47967	C/CAA	TGACAAAAGGGGAGA TTGA	TGCGTCTTTCTCAAGT GCAT	59.6	414	DRR	Ca_27761	--	--
scaffold3228_P2_48150	scaffold3228	48150	GAATCGATTGATAAATCGATTG/GAATC GATTG	ACCAAAGTTGGAGGAT GCAC	TTTCCATCAATCGATT GCC	60.8	596	DRR	Ca_27761	--	--
scaffold3228_P2_56276	scaffold3228	56276	GTATA/GTATATA	ACGATGACGATGATGA CGAA	AACACATCCGGATCC ATTA	60.0	507	INTERGENIC	--	--	--
scaffold3229_P2_5187	scaffold3229	5187	TATCTTAAACC/T	GGTGACACACTGATGT GGTCTT	GATAATGGCCGCATGA AAAG	60.4	805	INTERGENIC	--	--	--
scaffold3229_P2_5378	scaffold3229	5378	TA/TATTGCA	AGCTGAAATTCACAAG GCA	GATAATGGCCGCATGA AAAG	60.4	366	INTERGENIC	--	--	--
scaffold3229_P2_6703	scaffold3229	6703	GAAAAAAAA/GAAAAAAAAA	CAACGATTAGCCATTG TTGA	TTGATGCCTCTTGGCT CTTT	60.0	398	INTERGENIC	--	--	--
scaffold3229_P2_7451	scaffold3229	7451	GAA/GAAA	AAAGAGCCAAAAGGCA TCAA	GCACCTCATAAACGA CGGT	60.0	284	INTERGENIC	--	--	--
scaffold3229_P2_8934	scaffold3229	8934	GATATATATATATATATATATATATAT AT/GATATATATATATATATATATATAT ATATAT	TGAAGCACAATGTTGGT TTTG	TGTAAAGTGCAACACC CGTC	59.6	692	INTERGENIC	--	--	--
scaffold323_P2_32997	scaffold323	32997	CTT/CTTGTGT	AGGTCATTTTCGTCTC CCT	TTGGATGGACAAGGTT GGTT	60.2	468	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3258_P2_46908	scaffold3258	46908	GAC/GACCGGCTACGTAC	ATGGCCCCATTATTGAG GTT	TGCACGAGTCTAATGA GGA	59.4	696	INTERGENIC	--	--	--
scaffold3258_P2_48852	scaffold3258	48852	TTATGT/TT	ATGACACGGCTGAATG TCAA	ACGCACGTATGTTGC CAAA	60.0	374	INTERGENIC	--	--	--
scaffold3258_P2_52201	scaffold3258	52201	TA/T	TTTTTGGGTCCTATCA ACTAA	TCCAACAATAATTTAA ACCTTACAA	57.5	500	INTERGENIC	--	--	--
scaffold3258_P2_66747	scaffold3258	66747	TACA/TA	GAAAGCGCTGTAAAG GTGC	TGATTTGCTGGGAAAT GACA	60.0	504	INTERGENIC	--	--	--
scaffold3258_P2_74031	scaffold3258	74031	ATTTTTTT/ATTTTTT	AAC TTCACACCTGTCT CCG	AATTCAAAGAATGTCG GCG	60.1	726	INTERGENIC	--	--	--
scaffold3258_P2_74657	scaffold3258	74657	CTTTTTTTTT/CTTTTTTTTT	AATGCAATCGTCAGGA CACA	TATGGACCGGAATGG ATGT	60.0	630	INTERGENIC	--	--	--
scaffold3258_P2_77642	scaffold3258	77642	AATTATTATTATTATTATTATTATTA T/AATTATTATTATTATTATTATTAT	TGCATGCATGAAAGGA AAAT	TCCCTCTTTAGCAAAAA TAATTGG	59.9	507	INTERGENIC	--	--	--
scaffold3258_P2_81448	scaffold3258	81448	GTTTTTTTTT/GTTTTTTTTT	CCATATTGAATGCACAT GGTC	AAGGTCCAACCTCCAAA CGAA	59.6	517	INTERGENIC	--	--	--
scaffold3258_P2_87593	scaffold3258	87593	TTATATATATATATATATATATATATA TATA/TTATATATATATATATATATATA TATATATATATATA	TGTCAATGACTCTTTG GCTT	TTTTGCATGCAGTTT TAACACA	59.8	785	INTERGENIC	--	--	--
scaffold3283_P2_32986	scaffold3283	32986	CTT/CTTT	GTGGGATTCATTGGAT TGG	ATGATGAAACCTATGC CCGA	60.2	738	URR	Ca_28132	--	--
scaffold3283_P2_5175	scaffold3283	5175	CATATATATATATATATATATATATAT ATATATATA/CATATATATATATATATA TATATATATATATATATATATATATA	GTTGGTTCCCTAGCAC CGTA	AGAAGGCCGAGTGAAA CAAA	59.9	836	INTERGENIC	--	--	--
scaffold330_P2_10044	scaffold330	10044	TCC/TC	AGGAGTTGTGGTGTG CCTT	ACGACGAGTCATTGGG GTAG	60.0	148	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold3317_P2_3339	scaffold3317	3339	TGACGAC/TGAC	GCATCTGTGTAGCCAT CCAA	TAGGTCATTTTCGTCT CCG	60.1	738	INTERGENIC	--	--	--
scaffold3317_P2_732	scaffold3317	732	TA/TAA	TACCAACTGCGGATGC ATAA	TTTCGCTACCCATCATA CCC	59.8	717	INTERGENIC	--	--	--
scaffold332_P2_194682	scaffold332	194682	GTTTTTTTTT/GTTTTTTTTT	TGTTCAACCAATCGTTT TGA	TGTTCGTTGGGGTGTG ATAA	59.8	735	INTERGENIC	--	--	--
scaffold332_P2_48939	scaffold332	48939	G/GCA	AGGGCGACCCTAAGAC CTAA	GCATGGCGTAGACCAA TTTT	60.0	361	INTERGENIC	--	--	--
scaffold332_P2_75363	scaffold332	75363	CTTATTATTATTATTATTATTAT/ CTTATTATTATTATTATTATTAT TAT	ATGTGCCAAAAGAGGA GGAA	CAGTTGCTCATCGCAA CCTA	60.0	632	INTERGENIC	--	--	--
scaffold332_P2_95958	scaffold332	95958	TTAATAATAATAATAATAATAAT AATAATAATAATAAT/TTAATAATAAT AATAATAATAATAATAATAATAA TAAT	ACCTAGGGATGCGACC TTCT	GGCTAAACGAGTTCGA CGAC	59.9	734	INTERGENIC	--	--	--
scaffold3321_P2_31129	scaffold3321	31129	GGTGTGTG/GGTGTGTGTG	ATTTGGGAGAGATGGC TGTG	TACGCCTCTGTTGTGC TGAC	60.1	440	INTRON	Ca_25707	U	FAR1
scaffold3321_P2_35578	scaffold3321	35578	TGG/TG	GGAAAGGATCATCAG CAAA	TGTGCAGATCCACACA CTCA	59.9	410	DRR	Ca_25707	U	FAR1
scaffold3321_P2_45116	scaffold3321	45116	ATTTTTTTTT/ATTTTTTTTT	GCTTTGGACCTTTGTT GGA	ATTAAATTTGGGGTGG AGGG	59.9	526	INTERGENIC	--	--	--
scaffold3321_P2_46712	scaffold3321	46712	ATTTTTTTTT/ATTTTTTTTT	TTGCATCTCACTCAAC ATGA	GTTTCGGGAGGTTTT GGAT	60.2	407	INTERGENIC	--	--	--
scaffold3321_P2_47206	scaffold3321	47206	AT/A	ATCCAAAACCTCCCGAA AAC	TGAGAAGTCATGTTTG AAGGTCA	59.8	503	INTERGENIC	--	--	--
scaffold3321_P2_54406	scaffold3321	54406	AGGAGATTAAGGGAGA/AGGAGATTA GGGAGATTAAGGGAGA	ATTGCAACTGAGGACAA CCC	TCCGCCACTGGTGTA CATA	60.0	675	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3321_P2_59785	scaffold3321	59785	GAAGCA/GAAGCAAGCA	GATTGTCGAAAGGGTG GAGA	AACCTCTGCAAATACCA GCG	60.3	586	DRR	Ca_25712	GC	HSF
scaffold3321_P2_59865	scaffold3321	59865	TAATATGCCAA/T	GATTGTCGAAAGGGTG GAGA	AACCTCTGCAAATACCA GCG	60.3	586	DRR	Ca_25712	GC	HSF
scaffold3321_P2_60204	scaffold3321	60204	AAATTGGTA/AAATTGGTAATTGGTA	CGCTGGTATTTGCAGA GGTT	TAAAAGGGATTCTGCG GTCA	60.4	481	DRR	Ca_25712	GC	HSF
scaffold3321_P2_61130	scaffold3321	61130	C/CTTT	AAAATGTCACGCCACCA AAT	GGACCGCATATGTAAT TTAGCC	59.7	507	DRR	Ca_25712	GC	HSF
scaffold3321_P2_61377	scaffold3321	61377	GTTTTTTTTT/GTTTTTTTTT	AAAATGTCACGCCACCA AAT	GGACCGCATATGTAAT TTAGCC	59.7	507	DRR	Ca_25712	GC	HSF
scaffold3321_P2_61586	scaffold3321	61586	CTTTTTTT/CTTTTTTTT	GCTAAATTACATATGCG GTCCC	GGCTAAATTACATTGCT GGTCA	59.0	305	DRR	Ca_25712	GC	HSF
scaffold3321_P2_69689	scaffold3321	69689	TAA/TA	TCTTGCAGGAGCTTGG ATTT	TGTGCCGACAATTAAC CAAA	60.0	681	INTERGENIC	--	--	--
scaffold3321_P2_69753	scaffold3321	69753	AAAAAGAGAAAAGAGA/AAAAAGAGA	TCTTGCAGGAGCTTGG ATTT	TGTGCCGACAATTAAC CAAA	60.0	681	INTERGENIC	--	--	--
scaffold3322_P2_4199	scaffold3322	4199	TAAAAAA/TAAAAAA	GCCACAAAATTGGTCCA AAA	CGTGAGGCTGTTGGGA TATT	60.0	544	INTERGENIC	--	--	--
scaffold333_P2_19854	scaffold333	19854	CGGG/CGGGG	TCTTCGTTATGCAGTCA ACCTT	TTGGACTTTTCGAGCG ACTT	60.0	594	INTERGENIC	--	--	--
scaffold333_P2_21696	scaffold333	21696	ATTCTTCT/ATTCTTCTTCT	GGTACGAAAATCGCCA GAAA	GACGTGGAACCCAAA GAAA	59.9	585	INTERGENIC	--	--	--
scaffold333_P2_8945	scaffold333	8945	TCC/TC	GATGAAATCGAGGACC AGGA	GACTTTTCGAGCGATT TCG	60.0	299	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold336_P2_187063	scaffold336	187063	AATATATATATATATATATATAT/AA TATATATATATATATAT	CCTCGTAAAAGATTAC CGC	GAAGAAGAGTGAAGT GGCG	60.0	627	INTERGENIC	--	--	--
scaffold336_P2_220956	scaffold336	220956	GTTTTTTTTT/GTTTTTTTTT	TTTTTCGTATGGTGTAC GGG	CCACTCATTCTGCTT GAAA	59.8	868	INTERGENIC	--	--	--
scaffold336_P2_285682	scaffold336	285682	TTATATATATATATATAT/TTATATA TATATATATAT	TATTTTGATTTTGGCT CGG	AGGAAGCAACGAAAAC GAGA	60.0	450	INTERGENIC	--	--	--
scaffold336_P2_292805	scaffold336	292805	A/AT	TTCATCTTTTATCTTCAT TCGGC	GCGCTGTTGTATCCTC CATT	60.1	640	INTERGENIC	--	--	--
scaffold336_P2_297238	scaffold336	297238	CA/C	TTGGAAAGCTCCATGGA AAAC	CCCGTGCTCAAATCCT TAAA	60.1	524	INTERGENIC	--	--	--
scaffold336_P2_3044	scaffold336	3044	A/ATTAACCTTTCCCT	GGCCAAGATCAAATGG AAGA	AGGGGGTACAAAAGCC AACT	59.9	432	INTERGENIC	--	--	--
scaffold336_P2_360914	scaffold336	360914	AG/ATTATGGG	TGCACATTTTACAGCGC TTC	CTGGGCAAGGATCTG AATA	60.0	666	INTERGENIC	--	--	--
scaffold336_P2_361008	scaffold336	361008	AT/ATTTT	TGCACATTTTACAGCGC TTC	CTGGGCAAGGATCTG AATA	60.0	666	INTERGENIC	--	--	--
scaffold336_P2_361326	scaffold336	361326	A/AG	TTTACAGCGCTTTCTCA CGA	CTTTGCCAATTCAGTC CAT	59.9	494	INTERGENIC	--	--	--
scaffold336_P2_37927	scaffold336	37927	GAAAAA/GAAAAA	GGGCCATAACAATCAC CACT	AAACGAGTCGAAGTTC CATGA	59.7	851	INTERGENIC	--	--	--
scaffold336_P2_405488	scaffold336	405488	TTA/TTACTA	AGCGGCTGTAATGTTG CTCT	GGACCAAAGACGTTAA AATCCA	60.2	307	INTERGENIC	--	--	--
scaffold336_P2_441916	scaffold336	441916	T/TC	TCCCTAGTTCGAATCTG CGT	CCTCCATCGAATTCTC CAA	60.0	663	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold336_P2_487957	scaffold336	487957	ATTTTTTTTT/ATTTTTTTTT	ACGATGACCATAGACG TCCC	TCATAGGTCTCATAGC CCCG	60.1	557	INTERGENIC	--	--	--
scaffold336_P2_546259	scaffold336	546259	A/AG	TTTCGCCGATAAATTC CTG	GGGCATCACTCAAGTC CTGT	60.1	642	INTERGENIC	--	--	--
scaffold336_P2_596786	scaffold336	596786	TA/T	TGGTCATGCGTTTGTG AAAT	CAGAGTGGTTCTGATT CGCA	60.0	513	INTERGENIC	--	--	--
scaffold336_P2_624730	scaffold336	624730	AG/AGTCACTCTCATGTCCTG	TTAACCCAGATTTCAC GGC	CCCGACAAAGGGTAGT TGAA	60.0	617	DRR	Ca_21292	--	--
scaffold336_P2_633921	scaffold336	633921	A/AC	GAGAAAGGCAAGACCA GTGC	TTGCAATTCAACTGATG GGA	60.0	365	INTERGENIC	--	--	--
scaffold336_P2_656472	scaffold336	656472	ATATTATTATTATT/ATATTATTATTA TTATTATT	TTGGAAGGAGCCCTTA CCTT	TTGAGGGACCAAACT GGAG	60.1	624	INTERGENIC	--	--	--
scaffold336_P2_694079	scaffold336	694079	CTTTTTTTTT/CTTTTTTTTT	TTCATTCTAGCTTGGT CAACA	TGAAAAACACAAGAAG GGGG	59.9	925	INTERGENIC	--	--	--
scaffold336_P2_748818	scaffold336	748818	TACACACACACACA/TACACACACAC ACACACACACACA	ACTGGTGGTGTTTGG GTGT	ATGCACGTTTGAGGA AAAA	60.5	362	INTERGENIC	--	--	--
scaffold336_P2_825176	scaffold336	825176	TAAAAAAAAA/TAAAAAAAAA	TTCTTATCTCAACGTC CCG	TCTTTTAGGACGCAAG TTGTGA	59.9	714	INTERGENIC	--	--	--
scaffold336_P2_829933	scaffold336	829933	ATTTTTTTTTTT/ATTTTTTTTTTTTT	GTTACGGTATCGCCTT GAT	GTAGGGCATTCCATCG AAGA	60.0	404	INTERGENIC	--	--	--
scaffold3362_P2_14030	scaffold3362	14030	ATTTTTTTTTTT/ATTTTTTTTTTT	GGGGTTGTCCTGAGTT TCITT	ACTTCCCCAAACCCAT TTC	60.0	644	INTERGENIC	--	--	--
scaffold3362_P2_2233	scaffold3362	2233	ATTT/ATT	AGCGCTGTAAATGCA GACC	AAACGTTGTGGAATC GAGC	60.1	240	DRR	Ca_26005	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3362_P2_29630	scaffold3362	29630	GTTTTTTT/GTTTTTTT	TGTCGTGGATGGAAT ATGG	TTCCAACAAGCGCTGT AAAA	59.5	260	INTERGENIC	--	--	--
scaffold3362_P2_8747	scaffold3362	8747	CTTTTTTTTT/CTTTTTTTTT	AGTGAAGGGGCTCAT TTTT	TGTATAAAATTATCACA TCATAGCGAA	58.3	612	INTERGENIC	--	--	--
scaffold3364_P2_43644	scaffold3364	43644	T/TG	AGCCAAGGAGGATGA AAAT	CGTCCACCTTTGATT TCC	59.2	214	INTERGENIC	--	--	--
scaffold3364_P2_46834	scaffold3364	46834	ACCCCC/ACCCC	TGGATGCACGAGATTG GTAA	ATTTTCGTCTCCGTAG GCT	60.1	361	INTERGENIC	--	--	--
scaffold3369_P2_15762	scaffold3369	15762	TCACA/TCA	TTGCACCTCTAGTTGG CTC	AGGAGCCTTTGTGGCT TACA	59.9	410	INTERGENIC	--	--	--
scaffold3369_P2_18856	scaffold3369	18856	T/TA	TTCAACGTGACCTGCTC ATC	ATGGGTCCAGGTCATC TCAG	59.9	671	INTERGENIC	--	--	--
scaffold3369_P2_22053	scaffold3369	22053	TATAATAATAATAATAATAATAA TAATA/TATAATAATAATAATAATAA AATAATAATAA	TCGCCACCGATTTTATT TTT	AATTATGGTTGTCGCT GCC	60.0	674	INTERGENIC	--	--	--
scaffold3369_P2_5661	scaffold3369	5661	ATTTTTTTTT/ATTTTTTTTT	AACGTCATTAAGCCACA CCA	ACGAGGCTTATCTT GCTT	60.2	281	INTERGENIC	--	--	--
scaffold3371_P2_28310	scaffold3371	28310	CATATATATATATATATATATA/CA TATATATATATATATATATA	TGAAATTCATGTGAGGC CAA	CCTCATCGTTATGGATT TTGC	59.4	557	INTERGENIC	--	--	--
scaffold3371_P2_33866	scaffold3371	33866	AC/A	CGAGCCAAAATCCCAA ATA	ATGGTTGATTGGTTGC GAAT	60.2	256	INTERGENIC	--	--	--
scaffold3371_P2_7999	scaffold3371	7999	AAAATAAATAAATAAATAAATAAAT A/AAAATAAATAAATAAATAAATAA ATAATAAATA	CCTGGGGATATGTAGG AGCA	CATTATTGTTGTGCGT CCG	60.0	348	INTERGENIC	--	--	--
scaffold338_P2_76520	scaffold338	76520	GTATATATATATATAT/GTATATATAT ATATATATAT	CTTGCCATAAAATCG GAAA	AGGATGCATGGGATGA AAAG	59.9	661	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3380_P2_1824	scaffold3380	1824	TCAACAA/TCAACAACAA	ACCGAAACACTGGAAC CAAG	AACTCGGAAGTCCCTT CCAT	59.9	728	INTERGENIC	--	--	--
scaffold3380_P2_3910	scaffold3380	3910	TA/TACTTTAAA	TTACCCGACCTGAGTG AACC	TGATGTATCCGTATTG GGGG	60.4	275	INTERGENIC	--	--	--
scaffold3396_P2_2424	scaffold3396	2424	TT/TTATAT	GGGTGTAAGGGTCTTG GTCTG	CGAAACCTTAAACCTT AATCC	58.9	277	INTERGENIC	--	--	--
scaffold3397_P2_13388	scaffold3397	13388	ATTTTT/ATTTT	GAAATCTTGGCAACGT GGT	AATTCAGTTCCAAATG GCG	59.9	437	INTERGENIC	--	--	--
scaffold3397_P2_17802	scaffold3397	17802	TATTGCAAATTGCA/TATTGCA	GATCAGATCTGGCAGC AACA	GAGGATGGAAATTGCT GCAT	60.0	366	DRR	Ca_26271	--	--
scaffold3397_P2_20637	scaffold3397	20637	CT/CTT	GAGAGAACGTGAGGAA ACGC	AGATCATGTGCAAAAA GGGG	59.9	512	INTERGENIC	--	--	--
scaffold3397_P2_55203	scaffold3397	55203	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTAT/ATATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT	TTACTCACTTGCAACAC GCC	GGGAAGCAATGTTTTG ATCC	59.4	859	INTERGENIC	--	--	--
scaffold340_P2_100101	scaffold340	100101	TAAAAAAA/TAAAAAAA	TGAGTTTTAAGGCGATC GAG	CCTTTCCTTTCGCATGT GTT	60.1	660	INTRON	Ca_24959	U	--
scaffold340_P2_100873	scaffold340	100873	TTCTC/TTC	AACGTGGGTTACGTCC AGTC	AAATGCAGAGCACCTC CAAC	60.3	530	INTRON	Ca_24959	U	--
scaffold340_P2_119249	scaffold340	119249	GAAAAAAA/GAAAAAAA	GGTTGCGTAGTGGTAG CCAT	CTCCGAGCCAATATCC AAAA	60.0	623	INTERGENIC	--	--	--
scaffold340_P2_133058	scaffold340	133058	A/AAATT	AACACATTGTCCTCCAC ATT	GTTGCAACTAGCAGCT GAGG	58.8	592	INTERGENIC	--	--	--
scaffold340_P2_135811	scaffold340	135811	ATTTTTTTT/ATTTTTTTT	TTTGACGCTTTAACTAT CCCG	AACTTTGTCCATTTTAT TGGCTT	58.2	530	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold340_P2_141900	scaffold340	141900	AG/AGG	CCACAGTGTCTGTGT GCC	AGTCTTCCAAACAGC CTGA	59.8	778	INTERGENIC	--	--	--
scaffold340_P2_150062	scaffold340	150062	TTTGT/TTT	TGATGTCTTACGGCAGT GGA	TGGAAGACGAACAGA AACTGA	59.9	948	INTERGENIC	--	--	--
scaffold340_P2_152205	scaffold340	152205	GAAAAAAAAA/GAAAAAAAAAAAAA	CCAAACCTCGTTGGAG ACAT	TTTCACAAGTCTGGTG CTGC	60.0	661	INTERGENIC	--	--	--
scaffold340_P2_160629	scaffold340	160629	TG/T	GTGTTTCCTGGTCACTC CGT	TTGCTCCTACGTATCTC CCG	60.2	780	INTERGENIC	--	--	--
scaffold340_P2_161360	scaffold340	161360	ATTTTTTT/ATTTTTTTT	GCGGATATCGTAGGGT GCTA	TACATCCAGAAGGCTA CCGC	60.2	539	INTERGENIC	--	--	--
scaffold340_P2_161642	scaffold340	161642	ATTTT/ATTT	GCGGATATCGTAGGGT GCTA	TCACAAGGGAGGCTCT ATGG	60.2	694	INTERGENIC	--	--	--
scaffold340_P2_164421	scaffold340	164421	TAAAAAAAAA/TAAAAAAAAA	GATTCCCAACATCCAA ATG	TTGGGGGTTGACGACT AAAG	60.0	449	INTERGENIC	--	--	--
scaffold340_P2_172201	scaffold340	172201	ATTTTTTTTT/ATTTTTTTTT	AGGGGAACATTGCAA ACAA	TAAAGCCGCCACAAAT TCTC	60.2	810	INTERGENIC	--	--	--
scaffold340_P2_174319	scaffold340	174319	ATTTTTTTTT/ATTTTTTTTTT	GAACATTCTCCGTTTTT CAGA	CGAAGCTGCACAAAGC TCTA	59.5	643	INTERGENIC	--	--	--
scaffold340_P2_184021	scaffold340	184021	GCATA/GCATATCCCATA	TTTACCCAGAATGTCC TGC	CGTTGAAGGATGCCAA AGAT	60.1	893	INTERGENIC	--	--	--
scaffold340_P2_197870	scaffold340	197870	ATA/ATATTA	CCTCATTGATGGATTGC CTT	AATTGCGTTTGAGTGT GACG	59.8	581	INTERGENIC	--	--	--
scaffold340_P2_204727	scaffold340	204727	AC/ACTCC	GATCTCTTTGGGCCAAT CAA	TCTCTGCTTCGTGCAG ATTG	60.3	744	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold340_P2_205523	scaffold340	205523	TAA/TA	CCCCAAAAGTTGGAG AACA	TTCTAACCTTGAAC GGAG	60.2	398	INTERGENIC	--	--	--
scaffold340_P2_210507	scaffold340	210507	GA/GAA	AACGGAGAATGTTAC CAGG	TGCAGAATCGTGGAG TTGA	60.4	383	INTERGENIC	--	--	--
scaffold340_P2_214794	scaffold340	214794	CTTTTTTTTT/CTTTTTTTTT	ATCATGAAATGCATGCC GTA	AAAAATCTTGATGTC GGCTC	57.5	552	INTERGENIC	--	--	--
scaffold340_P2_216073	scaffold340	216073	TAGAGA/TAGA	AAGCCAAACCAAGAGA AGCA	AAAATATCAAAGGGCC CCAC	60.0	327	INTERGENIC	--	--	--
scaffold340_P2_216811	scaffold340	216811	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA AAA	TGGGACACAAATTTGA CACTAA	TATTTGGCCACGACAA GTGA	60.1	695	INTERGENIC	--	--	--
scaffold340_P2_225242	scaffold340	225242	TAAAAAAA/TAAAAAAA	TCACCTTGAAAAAGTCT GCC	TATCCCCCAAGATTG GTCA	60.1	683	INTERGENIC	--	--	--
scaffold340_P2_260137	scaffold340	260137	AT/ATGT	TAAAGGACCAAGTCGG GAAA	GAAAGAGCTTTTGATT GGACG	59.0	449	INTERGENIC	--	--	--
scaffold340_P2_261525	scaffold340	261525	GTTTTTTTT/GTTTTTTTTT	TTTCCAAGAGTTTCAAC CCG	TGTTTAGGCTGCTGAT GGTG	59.9	387	INTERGENIC	--	--	--
scaffold340_P2_261564	scaffold340	261564	ATTTT/ATTTTT	TTTCCAAGAGTTTCAAC CCG	TGTTTAGGCTGCTGAT GGTG	59.9	387	INTERGENIC	--	--	--
scaffold340_P2_262122	scaffold340	262122	TAAAA/TAAAAA	CACCATCAGCAGCCTA AACA	CCATCATGGAACACCA ACAA	60.2	554	INTERGENIC	--	--	--
scaffold340_P2_263202	scaffold340	263202	GAAAAAAAA/GAAAAAAAA	CCAATGGTGTTAGAAAC GGC	TCGGAACCCAAATCAG ACTC	60.1	292	INTRON	Ca_24962	--	--
scaffold340_P2_274458	scaffold340	274458	ATTTTTTTTT/ATTTTTTTTT	GCAGTGGGACGCACCT ATTT	CAGCTAGCAACAATGG CAAA	60.0	702	DRR	Ca_24963	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold340_P2_285000	scaffold340	285000	TATATATA/TATATATACATATATA	ATGTTTGGATTTTGGC TCG	AGGAAGAGTGGAGTTG CGAA	60.0	522	INTERGENIC	--	--	--
scaffold340_P2_287968	scaffold340	287968	ATTTTTTTTT/ATTTTTTTTT	GTCACAGAGGGAACGG ATGT	TTGGAAAAGCCCACT ACAC	60.0	524	INTERGENIC	--	--	--
scaffold340_P2_287997	scaffold340	287997	ATTATTTATTTATTTATTT/ATTATT TATTTATTTATTT	GTCACAGAGGGAACGG ATGT	TTGGAAAAGCCCACT ACAC	60.0	524	INTERGENIC	--	--	--
scaffold340_P2_299058	scaffold340	299058	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT T	TGACATTGACTCTTGGA GCG	TTGGACACACCTGACT GGAG	59.7	773	INTERGENIC	--	--	--
scaffold340_P2_315584	scaffold340	315584	TAAAAAAAAA/TAAAAAAAAA	TTCCGCTGCTCGTAAAT TCT	GCTTCCCGTGAGGAAT ATGA	60.0	686	INTERGENIC	--	--	--
scaffold340_P2_316331	scaffold340	316331	ATTTTTTTTT/ATTTTTTTTT	TCATATTCCTCACGGGA AGC	GATCAAATCACCCGGA TCAC	60.1	821	INTERGENIC	--	--	--
scaffold340_P2_318031	scaffold340	318031	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	ATGTACCTCGCCTCAT TTG	CTTTACAGCGCTCGA TTCC	60.0	175	INTERGENIC	--	--	--
scaffold340_P2_45175	scaffold340	45175	GTATATATATATATATATATATATATA TAT/GTATATATATATATATATATATAT ATAT	CTAGGTGACCCAAGGA ACCA	TCAAGTTGCTGCAATG AAGG	60.0	341	INTERGENIC	--	--	--
scaffold340_P2_51387	scaffold340	51387	A/ACT	TCCATCAATTCATCCA CCA	CCTTTGCCTTAGCGA TTTG	60.0	587	INTRON	Ca_24956	DL	--
scaffold340_P2_55965	scaffold340	55965	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	ACAAGACCCAATTTTGA GCG	GGAGGGCACAATTGGA GTAG	59.6	523	INTRON	Ca_24956	DL	--
scaffold340_P2_66713	scaffold340	66713	ATTTTTTTTT/ATTTTTTTTT	AACACACGCACCAACAA AGA	TGAATATGCGTCGACT GAGC	60.0	559	INTERGENIC	--	--	--
scaffold340_P2_76930	scaffold340	76930	CTTTT/CTTT	GGTGGAGAATGAAACG GAGA	TCCACAACAAACGGA GTTG	59.6	506	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold340_P2_78412	scaffold340	78412	ATTTTT/ATTTTTT	GGGAGAATGCAAA CTCA	TCAAGTTGTTCTCC CTT	59.9	467	INTERGENIC	--	--	--
scaffold340_P2_79625	scaffold340	79625	AC/A	ATGCTTTGGTTTCTC TTCT	GGATCAAATCGGAAG AAAA	59.0	451	DRR	Ca_24958	R	NAC
scaffold340_P2_99127	scaffold340	99127	GAAAAAAAA/GAAAAAAAAA	ATCCCCGTTTGTGAT CAG	TCCATAGCACCGGAG ATAC	59.9	564	INTRON	Ca_24959	U	--
scaffold340_P2_2056	scaffold340	2056	TAAA/TAA	GCATCAAGCTGTCGTT GAA	CCCCTTTGTCAGTTAA GGCA	60.1	319	DRR	Ca_27915	--	--
scaffold341_P2_135211	scaffold341	135211	TATATATAGAAA/TA	AATGGAGTTGCGACGA GAGT	TCTCCGTAAAGATT ACCG	60.1	540	INTERGENIC	--	--	--
scaffold341_P2_135303	scaffold341	135303	GAAA/GAAAA	AATGGAGTTGCGACGA GAGT	TCTCCGTAAAGATT ACCG	60.1	540	INTERGENIC	--	--	--
scaffold341_P2_15589	scaffold341	15589	ATAATTA/ATA	TCAAACAATCAGCCCA GAA	ATGCCTCTCCAGTCCA TCAC	60.1	898	INTERGENIC	--	--	--
scaffold342_P2_164779	scaffold342	164779	TTATATATATATATATAT/TTATATATA TATATATAT	TTCCAACATGCTTGAA CTCA	GGCCGAAATTCATTC AACA	60.8	703	INTERGENIC	--	--	--
scaffold342_P2_195159	scaffold342	195159	GTATATATATATATATATATATATATA TATATATATA/GTATATATATATATATATA TATATATATATA	TTGGACGATTGTTGCAT GTT	ACTGGACGTTGTCTCT CGCT	60.1	348	INTERGENIC	--	--	--
scaffold342_P2_201436	scaffold342	201436	GTTCTTCTTCTTCTTCTTCTTCTTCTTC TTCTTCTTCTTCTTCTTCTTCTTCTTCTT /GTTCTTCTTCTTCTTCTTCTTCTTCTTCTT TTCTTCTTCTTCTTCTTCTTCTTCTTCTT CTT	CCGTGAAATCGCTTTT ATT	GCCTGATAATCCGGT AAGA	60.0	513	INTERGENIC	--	--	--
scaffold342_P2_249187	scaffold342	249187	ATTTTTTT/ATTTTTTT	CAACGGTGAAGCCCAT AACT	TGGGTGTTAAATTC CTCTTG	59.5	841	INTERGENIC	--	--	--
scaffold342_P2_310549	scaffold342	310549	CATATATAT/CATAT	TTGTGACATTCATCAA ACACA	CAACCGACGTTGAAGA ACAA	59.7	933	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold342_P2_340574	scaffold342	340574	TC/T	TGTTCCAGCATACCAATGC	AGCAAAATCCGAGGAGGAAT	60.0	557	INTERGENIC	--	--	--
scaffold342_P2_364847	scaffold342	364847	TTATATATATATATATAT/TTATATATATATATATATAT	AGTTGGCTCACTAGCACCGT	GAATTGCGGTGACAGAGGAT	60.1	352	INTERGENIC	--	--	--
scaffold342_P2_370625	scaffold342	370625	TTATCAT/TT	TGGGGTCCTTCTCTCTCC	TATGCCCATTTGAGTTGGACA	59.9	387	INTERGENIC	--	--	--
scaffold3422_P2_13718	scaffold3422	13718	CTATTATTAGTTAT/CTAT	AAGCGTACCTGTGGGAATTG	TTAATGAGGGGCTGAA TTGG	59.9	259	INTERGENIC	--	--	--
scaffold3422_P2_56233	scaffold3422	56233	CAAA/CAAAA	GAGATCCAAGCCCTTGATGA	ATGGGCTGCAATTTGA AAAA	60.4	468	INTERGENIC	--	--	--
scaffold3430_P2_8537	scaffold3430	8537	ATT/ATTT	AGGTCACCTTCGTCTCCCT	AACACCTGTTGGATGCAACA	60.0	375	INTERGENIC	--	--	--
scaffold3432_P2_14117	scaffold3432	14117	TTACTC/T	TATTGGAAGGCACACCCTA	TCCCACTCTTCAATGCTCTTT	58.9	376	INTERGENIC	--	--	--
scaffold3432_P2_23969	scaffold3432	23969	CAATAAT/CAAT	CCTGAATCCGAGACAA GACG	TCATGGGTTGTATGGAAGCA	59.9	487	INTERGENIC	--	--	--
scaffold3432_P2_35439	scaffold3432	35439	TTTATATT/TTTATATTATATT	TGATTGATTTGCGGTTACG	AAAGAGATCGGTTCTACCCAAA	59.1	278	INTERGENIC	--	--	--
scaffold3432_P2_56454	scaffold3432	56454	GAAAAA/GAAAAAA	TTTGAGGGAAGTTTTCACG	CGTCAGATTATCTGCGGGT	60.1	368	INTERGENIC	--	--	--
scaffold3434_P2_11167	scaffold3434	11167	AGGGG/AGGG	CTTCTCCATTCCACC CAA	TCACTCAAAGGGCTACTGCC	60.4	532	INTERGENIC	--	--	--
scaffold3434_P2_7567	scaffold3434	7567	GAAAAA/GAAAAAA	CGACATTCGTCATGGTTTG	CATAGCAATCCAACAACAAGAAA	59.2	876	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3472_P2_9063	scaffold3472	9063	CAA/CAAA	GCTCCATGTGCTTCACAC	GTGACACGTGACAATCCAC	59.9	107	INTERGENIC	--	--	--
scaffold3472_P2_9396	scaffold3472	9396	TC/TCC	TTTTGACAGAGAAACCGCT	CTGTGAGAGGCGAAGATGGT	60.4	223	INTERGENIC	--	--	--
scaffold3475_P2_31282	scaffold3475	31282	TG/TGG	GCTATTTTCGTACCACCGA	GCCCCAAAAGTCCAGATGAA	60.1	326	INTERGENIC	--	--	--
scaffold3475_P2_6139	scaffold3475	6139	AG/A	GGCCTGGAGACCCTTAGC	ACCACTCGACGAAAATGGAC	60.0	616	INTERGENIC	--	--	--
scaffold3475_P2_6197	scaffold3475	6197	AT/ATT	GGCCTGGAGACCCTTAGC	ACCACTCGACGAAAATGGAC	60.0	616	INTERGENIC	--	--	--
scaffold3489_P2_1552	scaffold3489	1552	GTTT/GTT	ACTATCCATCGTCTGGTCCG	GAAAGGGTCCAACAGACGA	60.1	452	INTERGENIC	--	--	--
scaffold3489_P2_2052	scaffold3489	2052	TAATAAAAAATAAAAAATAAAAAATAAA AA/TAATAAAAAATAAAAAATAAAAA	TCGTTCTGTTGGACCTTTC	AGTGGAAAATATGCCGTTGC	60.0	521	INTERGENIC	--	--	--
scaffold3489_P2_2940	scaffold3489	2940	ATTTTTTTTT/ATTTTTTTT	GCACATTCTAAGGGGCATA	AGTGCAATGAGTTTTGGTCA	58.3	373	INTERGENIC	--	--	--
scaffold349_P2_177787	scaffold349	177787	GTTATTGAATT/GTTATTGAATTCCTTAT TTGAATT	GCGATAATCCCGTAAGGAT	TAGGTGCAGGTCATGA AACC	58.6	652	INTERGENIC	--	--	--
scaffold349_P2_226273	scaffold349	226273	CGG/CGGG	TGGAATTCCTTCCAATGCC	CTGAGCGCAGTTTCCTAACC	60.0	269	INTRON	Ca_24505	--	Trihelix
scaffold349_P2_272741	scaffold349	272741	ATATAT/ATATATTTATAT	TCTGACAAATGTACGCGTTG	TATACAGTGGGTCGCCATCA	59.9	776	INTERGENIC	--	--	--
scaffold349_P2_335267	scaffold349	335267	ATT/ATTT	TTGGTCAATGTGGCTTC TCA	CTGAGCTTGTGACCAATCG	59.4	531	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold349_P2_70134	scaffold349	70134	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATAT	TTCGGAAGTCCATCGG TATC	AATGCATGCTCCCCTA ATTG	59.9	643	INTERGENIC	--	--	--
scaffold349_P2_98035	scaffold349	98035	TATAATAATAATAATA/TATAATAAAT AATAATAA	GATCCATTGTCGCACA CAAG	TTTTGTGACGCTTGATC GTT	59.3	362	INTERGENIC	--	--	--
scaffold3497_P2_13567	scaffold3497	13567	TAAA/TAAAA	CATGCATGCACCAACAA TAA	CACACCCAAACACCTA CACG	59.9	284	INTERGENIC	--	--	--
scaffold350_P2_118793	scaffold350	118793	CA/C	TTGGATCAAAATGCTTG GAA	CAATCGATTCCCTCAG CACT	60.2	309	INTRON	Ca_26736	Q	--
scaffold350_P2_164993	scaffold350	164993	CATCATCATC/CATCATCATCATC	ATCTCAATCCTGCCCTT CCT	CTTTGGAGCCATGGAA TTGT	59.9	728	INTERGENIC	--	--	--
scaffold350_P2_165550	scaffold350	165550	ATGTGTG/ATGTGTGTG	CAATTCCATGGCTCCAA AGT	CAATGCTCTCCCATAA CAAT	59.6	670	INTERGENIC	--	--	--
scaffold350_P2_67917	scaffold350	67917	CTTTT/CTTT	CAACATGCGGGTCTTT TCT	TGATTTGAATGGTCGT GTCC	59.3	267	CDS (FRAME SHIFT)	Ca_26734	--	--
scaffold3500_P2_30406	scaffold3500	30406	GTATATATATATATATATATATATATA TATAT/GTATATATATATATATATATAT ATATATATATATAT	TTTAACGTGTCGCTCT TTG	GGATGAATACATTGGG CTGG	60.2	602	INTERGENIC	--	--	--
scaffold3500_P2_6141	scaffold3500	6141	C/CTGTA	GCGTTCGATTCCACATC TTT	TCATTATGCGTGTTC GCTA	60.2	434	INTERGENIC	--	--	--
scaffold3500_P2_6248	scaffold3500	6248	TAA/TA	GCGTTCGATTCCACATC TTT	TCATTATGCGTGTTC GCTA	60.2	434	INTERGENIC	--	--	--
scaffold3509_P2_1496	scaffold3509	1496	TAATA/TAAATA	GTGAGGACCAGCCCA TTTA	AAAATCCAACAATCTCC CCC	60.0	497	DRR	Ca_28208	--	--
scaffold3514_P2_11262	scaffold3514	11262	CAAAA/CAACTTATAAAA	TTGAGATCGGGGATTC TGAC	ACAGATCCCTTGAGGC ACAC	60.1	784	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3514_P2_19067	scaffold3514	19067	ATTTTTTTTT/ATTTTTTTTT	TGACACCCCTTAATTAC CCCA	TTAATTGTGAGCGTGT GGGA	60.1	533	INTERGENIC	--	--	--
scaffold3514_P2_40711	scaffold3514	40711	GAAA/GAAAA	TGACCAAATCGGAATTG ATTTT	CATTTCGAATCTTCCC GTA	59.9	723	INTERGENIC	--	--	--
scaffold3514_P2_41395	scaffold3514	41395	C/CCGTTGCA	TACGGGAAGATTCCGA AATG	TGATTGCCACGTCATT GTTT	60.0	721	INTRON	Ca_26926	--	FAR1
scaffold352_P2_107146	scaffold352	107146	TTGTAT/TT	GGATCTTCCACCGGT TAGT	GCACTGCCCAAGAAT TTTA	60.1	300	INTERGENIC	--	--	--
scaffold352_P2_124206	scaffold352	124206	TCCCC/TCCCCC	ATAAACCGGTGACCATT GGA	CCATGGAATTCGACTG CTTT	60.1	180	INTERGENIC	--	--	--
scaffold352_P2_141916	scaffold352	141916	AT/ATT	TTGCCTTGGATTCTTTG ACC	CGCAAGACAGAAAACA ACCA	59.9	417	INTERGENIC	--	--	--
scaffold352_P2_153913	scaffold352	153913	ATTTTTTTTT/ATTTTTTTTT	CTCCACATATTCGCC ATT	TGTTAGGAGGATCTCA CGGG	60.1	456	INTERGENIC	--	--	--
scaffold352_P2_178010	scaffold352	178010	ATTT/ATT	AACGCATCTTTTACCC ACG	GGCCTGAATCTCATCC AAGA	60.2	568	INTERGENIC	--	--	--
scaffold352_P2_178511	scaffold352	178511	ATGAGTTGAGTTGAGTT/ATGAGTTGAG TT	TCGCAATGCAACATCTC TTT	GCTTGTGAGTGTGTGT GCCT	59.9	823	INTERGENIC	--	--	--
scaffold352_P2_182761	scaffold352	182761	ATTTTTTT/ATTTTTTTTT	TGGGGATACGTAGGAG CAAG	CGCTCACAGATCAGCA CATT	60.0	524	INTERGENIC	--	--	--
scaffold352_P2_192510	scaffold352	192510	ATTTTTTTTTTT/ATTTTTTTTTTTTT	TGTGTAAGGCTTATGTG GCG	GCAAGGGAGAGCAAGT TTTG	60.0	762	INTERGENIC	--	--	--
scaffold352_P2_33761	scaffold352	33761	TA/T	TTTCATTCACTCTTCC CCG	ATTTATCATAGGGGCG GCTC	60.3	885	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold352_P2_93620	scaffold352	93620	GAA/GAAA	TTCCCTCTCTTGCTCAA AGG	GACTGCCATCACAGAA GCAA	60.0	466	INTERGENIC	--	--	--
scaffold3520_P2_11867	scaffold3520	11867	CTGTGTGTGTGTGTGTGTG/CTGTG TGTGTGTGTGTGTGTGTG	TTGGCAATCAACTCCCT CTT	TCCTCGTTTTATCATCA CATCA	58.1	488	INTERGENIC	--	--	--
scaffold3520_P2_26649	scaffold3520	26649	CATATATATATATATATATATATATA/ CATATATATATATATATATATATA	TCATATTTGCCTAGGTC GCC	ACATGCGCTTGAGAAC TTCA	59.6	391	INTERGENIC	--	--	--
scaffold3520_P2_4780	scaffold3520	4780	ACA/ACACAGGGCCCA	GCTCCATGCCTCCCAT ATTA	TCGAGACTCACCTCCT TCGT	60.0	537	INTERGENIC	--	--	--
scaffold3520_P2_57284	scaffold3520	57284	TAAAAAAA/TAAAAAAA	TTTTTATTGAAACAAC GCACC	GGCATGGCCTGACCTA TTTA	59.9	452	INTERGENIC	--	--	--
scaffold3520_P2_62198	scaffold3520	62198	CATATATATATATATATATATATATA/ CATATATATATATATATATATAT	GAGAAAACGCGAGCAA TAGG	CTTGGGAACAGGAGAG CAAG	60.0	400	INTERGENIC	--	--	--
scaffold3529_P2_3004	scaffold3529	3004	GGGA/GGGAGGA	TGTTTCATCCAATGACCC AAA	CATTTTCATCCTCCCTA CGC	59.5	389	INTERGENIC	--	--	--
scaffold3539_P2_5454	scaffold3539	5454	TAAAA/TAAAA	GGAGGGCGAAAATGAT GTAA	CTTGCGCATCCAACAA GTTA	59.9	861	INTERGENIC	--	--	--
scaffold3542_P2_21347	scaffold3542	21347	G/GAAA	ACGTTGCGTGGAGTCC TATC	ACGCATGGCTTGACAT TGTA	60.1	488	INTERGENIC	--	--	--
scaffold3542_P2_22091	scaffold3542	22091	G/GAT	ATTGCAACTGCCGGA ATAC	GGGCTCACAGCTAGTT TTCG	60.0	874	INTERGENIC	--	--	--
scaffold3542_P2_24843	scaffold3542	24843	TTAG/TTAGTAGCTGGGTAG	GGTGGGTTCCATCGTT TCTA	CAAGACAGCCAATCCG AAAT	60.1	530	INTERGENIC	--	--	--
scaffold3542_P2_24982	scaffold3542	24982	A/ATT	GGTGGGTTCCATCGTT TCTA	CCTGCTTGCTTCCTAA CCTG	60.0	730	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3542_P2_34290	scaffold3542	34290	GTTT/GTTTCTTTT	AATTCATTGCTTCCAG CAT	GGATTAGCCGCTTCAA TGAG	59.8	770	INTERGENIC	--	--	--
scaffold3542_P2_35252	scaffold3542	35252	AT/AATCT	GAAAAAGCGCTGTAAT GGC	CGGGTCTGTGCTTAC CAAT	60.0	596	INTERGENIC	--	--	--
scaffold3542_P2_507	scaffold3542	507	AGGGGGG/AGGGGGG	GAAGAGTTACGCGGAC AAGC	CCGAGCCAAAATCCAA AATA	59.9	566	INTERGENIC	--	--	--
scaffold3542_P2_5942	scaffold3542	5942	TAAAAAAA/TAAAAAAA	CTGTAAACTGAAGCGC CCTC	TTGGAAAATGAAACC AAGG	59.8	568	INTERGENIC	--	--	--
scaffold355_P2_1384	scaffold355	1384	GTTTT/GTTTT	GGGCGTTACATGTGG TATC	CAGATTCACGAAGTC ACACA	59.7	314	INTERGENIC	--	--	--
scaffold3562_P2_1038	scaffold3562	1038	ATTT/ATT	AGGGAGGACGAAAATG ACCT	CCAATTGGTGTGTTTG CATC	59.8	556	INTERGENIC	--	--	--
scaffold3594_P2_1839	scaffold3594	1839	CCTAT/CCTATCTAT	AAACCCGAAACGCTTAA CCT	TTTCGGATTTTGGGTTT TTG	59.8	115	INTERGENIC	--	--	--
scaffold3594_P2_6118	scaffold3594	6118	CAAAA/CAAA	AATCCCGACACCTAAA CCT	GCGTTACGGATTGCGT TTTA	60.0	578	INTERGENIC	--	--	--
scaffold3594_P2_965	scaffold3594	965	GAGCTAAAAGCTAAAAGCT/GAGCTA AAAAGCT	CGTTCAAAACGAGATC GTCA	TACAATGCCGAGCAAA TCAA	60.2	575	INTERGENIC	--	--	--
scaffold36_P2_102195	scaffold36	102195	TATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATA ATAA/TATAATAATAATAATAATAATA AATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAA	TGCTGCTGCTTACATT TGG	TGACAACGAGACTTGG CTGC	60.0	613	INTERGENIC	--	--	--
scaffold36_P2_105612	scaffold36	105612	ATATTATTATTATTATTATTATTATT ATTATT/ATATTATTATTATTATTATT ATTATTATTATTATT	GGAGCATGTTGAGGTG GTTT	GCTCCCAAAATCTTTCA CCA	60.1	988	INTERGENIC	--	--	--
scaffold36_P2_138770	scaffold36	138770	GAAAA/GAAAA	CCAATCATTGTCCAAGA GAGC	TTGGGCTGATGCAATA AACA	60.1	607	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold36_P2_142837	scaffold36	142837	TAA/TAAA	TGTTCAAACTCGGGTG AAGG	ACCGTTTTTAACGGAT GTCTG	59.9	513	INTERGENIC	--	--	--
scaffold36_P2_144847	scaffold36	144847	ACCCCCCCCC/ACCCCCCCCC	AAGATGACAGCATGTC GCAG	TTGGCTCTGTTTTGTTG CTG	60.0	626	INTERGENIC	--	--	--
scaffold36_P2_239594	scaffold36	239594	TG/TGAGATCTGGAGAATAGG	GGAACAATGCCTCCA AGAA	GCCTCATCCTGGACAC CTAA	60.1	581	INTERGENIC	--	--	--
scaffold36_P2_294954	scaffold36	294954	AATATATATATATA/AATATATATATAT A	CTTGGGCTTTACCCATG AAA	TGTCGTGTGCTTCAAA AAGG	59.9	598	INTERGENIC	--	--	--
scaffold36_P2_317164	scaffold36	317164	AC/ACAAAGCC	TTCAATGGCATCTTGAA CCA	GCTTAGCACCGCTTTT CATC	60.0	271	INTERGENIC	--	--	--
scaffold36_P2_53553	scaffold36	53553	G/GTGTAAGTTAGGGAA	TACCTGAAGCTCTGG CACT	GGAGCCAAATCCAAC TCCT	60.4	371	INTERGENIC	--	--	--
scaffold36_P2_72840	scaffold36	72840	TAAAAAAAA/TAAAAAAAA	ATCATGGGATCTCAAGT GGG	GCGCATGCCTTGCTA TGTA	59.9	576	INTERGENIC	--	--	--
scaffold3600_P2_1114	scaffold3600	1114	A/AG	TATTTGTTGGCCTTGGG AAG	CTCCGAGCCAATATCC AAAA	60.0	376	INTERGENIC	--	--	--
scaffold3600_P2_3910	scaffold3600	3910	GG/GGAAATCGATTTTG	CTCGTGTTCTGTCGTG AGAA	CCCGTGAGATCCTCCT AACA	60.1	809	INTERGENIC	--	--	--
scaffold3600_P2_987	scaffold3600	987	AG/AGTTATGAGAATG	TATTTGTTGGCCTTGGG AAG	CTCCGAGCCAATATCC AAAA	60.0	376	INTERGENIC	--	--	--
scaffold3604_P2_961	scaffold3604	961	AAATCGATT/AAATCGATTAAGTAATCG ATT	AATTGCACAAGTCAGTG GCA	TATCGCGGGTCTTGTT TTTC	60.1	591	INTERGENIC	--	--	--
scaffold362_P2_123391	scaffold362	123391	ATTTTTTTTTTT/ATTTTTTTTTTTTT	CAGGCTTGAGTCTGGC CTAC	GCCTACGGGCTAGCCT ACTT	59.9	674	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold362_P2_131239	scaffold362	131239	AA/AACA	TTTTGCACAACCTGAAC CTG	GCCCATAGTAGCCCA TGAA	59.9	978	INTERGENIC	--	--	--
scaffold362_P2_148917	scaffold362	148917	T/TG	ATTTCTCCATGCTCAAT CCG	TTGTTGGTTATCCAGG CACA	60.0	255	INTERGENIC	--	--	--
scaffold362_P2_15120	scaffold362	15120	ATATTT/AT	TCCTAGAACATGCATCA CGC	TACCCTTTGCTAGCCC CTTT	60.1	521	DRR	Ca_24987	--	B3
scaffold362_P2_166434	scaffold362	166434	TGA/T	CCCGGTATTGTTTGTG CTCT	CACATCAGCCACATTT GACC	60.0	774	DRR	Ca_24991	C	--
scaffold362_P2_237804	scaffold362	237804	TTATATATATATATATATATAT/TTA TATATATATATATATATAT	TTTCCATTGCACTCACT CCA	CCTATCATGGTCTGGC CTGT	60.0	753	INTERGENIC	--	--	--
scaffold362_P2_246595	scaffold362	246595	AATATATATATATATATATATA/AATAT ATATATATATATATATATA	CGACTGCCGGTATCAA TTTT	TCATATTTCTTGTGTG TTTGGTT	59.7	648	INTERGENIC	--	--	--
scaffold362_P2_267543	scaffold362	267543	A/AC	TATCTTGTTCCGACCCA ACC	CTTGAATCCATGCGT CCTT	60.1	698	INTERGENIC	--	--	--
scaffold362_P2_29056	scaffold362	29056	A/AATTCGT	AAATAATTTGGGGCGA AGC	TCCAATGGCAAATGATT CAA	59.9	625	INTERGENIC	--	--	--
scaffold362_P2_352097	scaffold362	352097	TGGGGGGGG/TGGGGGGG	TGGTAGGGTGGGAGAA TCAG	ACTAGGCACTCCCCA CTTT	60.0	159	INTERGENIC	--	--	--
scaffold362_P2_368199	scaffold362	368199	ATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT ATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	AGCAGCTGGAGGAACA TGAC	CCGGGATTAAGCTTCA ACAA	60.1	789	INTERGENIC	--	--	--
scaffold362_P2_370111	scaffold362	370111	TG/TGG	AGGCGAACAAATGAAAT CCG	AGGAGTATGGCGACCC TTTT	60.0	629	INTERGENIC	--	--	--
scaffold362_P2_4309	scaffold3628	4309	AAACCAATCTTGAACCAATCTTG/AAAC CAATCTTG	AGGTCATTTTCGTCTC CCT	ACACACCTATTGGACG CACA	60.0	488	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold363_P2_35829	scaffold363	35829	TTATATATATATATATATATAT/TTATA TATATATATATATAT	ACATGTGGGGTCCACA AAAT	ATATGGCACATCGGTG ATGA	59.8	609	INTERGENIC	--	--	--
scaffold363_P2_83340	scaffold363	83340	CTGT/CT	AGGTTCTCTACGCCG TTCT	CTATCCATTGTGACG GCCT	60.0	502	INTERGENIC	--	--	--
scaffold3643_P2_22491	scaffold3643	22491	AG/A	AGCCTAGGGTGGACGA AAAT	CCATCCAATACGTGTG CTTG	60.0	164	INTERGENIC	--	--	--
scaffold3643_P2_22623	scaffold3643	22623	TAAAAAAA/TAAAAAAA	CAAGCACACGTATTGG ATGG	TTTGTGCGTGACATTG GATT	60.0	111	INTERGENIC	--	--	--
scaffold3645_P2_4584	scaffold3645	4584	CG/CGTAAGATGGCTG	TTCAAGCAAGACGGTTT GTG	TTCAACCAATCTTTCTG CCC	60.1	433	CDS (FRAME SHIFT)	Ca_27736	--	--
scaffold3659_P2_2503	scaffold3659	2503	AT/ATT	GCCATTAAATTATGTTAA CGTTTGG	CAGAACATTTAACGTGA GCAAGA	59.5	665	INTERGENIC	--	--	--
scaffold3659_P2_7389	scaffold3659	7389	GAAAAA/GAAAA	TGTTGTTGCCTAAGTG GACG	AATTTTGTACGCCCC GAAT	60.5	898	INTERGENIC	--	--	--
scaffold366_P2_133726	scaffold366	133726	TTATATATATATATATATATA/TTATAT ATATATATATATATA	TTCTCTCCGATCCTCCT ACT	AATGACGACGACGATG ATGA	60.1	277	INTERGENIC	--	--	--
scaffold366_P2_68160	scaffold366	68160	ATTT/AT	GCTGATGCAAAGGATT GGTT	CAAATGAAAGGGGTT TGAA	59.8	143	INTRON	Ca_26528	--	--
scaffold3663_P2_4120	scaffold3663	4120	T/TG	TTTTATTGTTTACTACA TAACGACGA	AAGTTTGACTGCATAAC AATGACA	58.7	631	INTERGENIC	--	--	--
scaffold3663_P2_4430	scaffold3663	4430	TAAA/TAAAA	TGTCATTGTTATGCAGT CAAACCT	TCTTCGTTTATGTTT TATTTCA	57.1	280	INTERGENIC	--	--	--
scaffold3666_P2_1070	scaffold3666	1070	AACA/AA	AAATGCAACAAAGGACT GCAT	CGTCGGTTGAGAACAA CACTT	60.2	409	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold369_P2_129876	scaffold369	129876	CATATATATATATATATATATATATAT A/CATATATATATATATATATATATATA	TCAAATTCCTACTCGCA TCG	ATCTTTTGGAAACCC GATT	59.6	547	INTERGENIC	--	--	--
scaffold369_P2_65702	scaffold369	65702	AATATATATATATATATA/AATATATAT ATATATATATA	AAAAGTACGGCTTTCC GTT	GAATCTGCCAAATCCTT CCA	60.0	785	INTERGENIC	--	--	--
scaffold369_P2_73666	scaffold369	73666	GTATATATATATATATATATATATAT/ GTATATATATATATATATATATAT	CGGTGAATCCTTTACG GAGA	AATGGAGGAAGGAGGG AGAA	60.0	297	INTERGENIC	--	--	--
scaffold369_P2_79308	scaffold369	79308	TA/T	CAAGGCTGTTTCAGCAT TCA	TGTCGTGGTGATTGCG TTAT	60.0	318	INTERGENIC	--	--	--
scaffold37_P2_28603	scaffold37	28603	GAAA/GAAA	ACCAAATCGTTTGGCAC TTC	CCAATCGATTATCGCG AGTC	60.6	352	INTERGENIC	--	--	--
scaffold370_P2_101037	scaffold370	101037	CAA/CA	TCCTGGTCCTCGATTTC ATC	CGGGTTCAAACACTAG CCAT	60.0	434	INTERGENIC	--	--	--
scaffold370_P2_160053	scaffold370	160053	ATT/ATTT	TGTGGTTGGTGGTTTG TGTT	CCGGATATAACGAGCC ACAC	60.2	274	INTERGENIC	--	--	--
scaffold370_P2_176953	scaffold370	176953	TAAA/TAA	ATGGCCTGTGACAAAC ACAA	GTTAATCGGAGTGCCA ATCG	60.5	157	INTERGENIC	--	--	--
scaffold370_P2_37851	scaffold370	37851	GAA/GA	TTATTTAGTACCACTAC AAAACGAAGA	AGTCCAGATGAAAGCG AGGA	60.0	395	INTERGENIC	--	--	--
scaffold370_P2_64813	scaffold370	64813	G/GA	TCCAGATGAAATCGAG GACC	GACGCGAAAACCAAAA CATT	60.0	511	INTERGENIC	--	--	--
scaffold370_P2_75163	scaffold370	75163	AC/A	GATTTTCGTACCCCTCG TCA	AGTCGCTCGAAAAGTC CAAA	60.0	533	INTERGENIC	--	--	--
scaffold370_P2_81244	scaffold370	81244	TTC/TTCGGTC	AACTGTGTATCGGTTTC CGC	TCCAGTCCTCGATTTC CATC	60.0	768	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold370_P2_83329	scaffold370	83329	ATTTTTTTTT/ATTTTTTTT	AAAAGCGTTGTAAACG GTGC	GCGCTTCTAAACAAT GCC	59.9	340	INTERGENIC	--	--	--
scaffold370_P2_89771	scaffold370	89771	GAAA/GAAAA	GGTTCGAAAATTGCCT GAAA	CCCGAAACGCAGTTAC AAAT	60.0	416	INTERGENIC	--	--	--
scaffold3705_P2_4075	scaffold3705	4075	T/TGGGCTAAAACC	CAATAACCCTTCAATGG CTCA	GCTTTGCTTCCCTTTC TCT	60.0	393	INTERGENIC	--	--	--
scaffold3724_P2_53525	scaffold3724	53525	TAAAA/TAAA	AAGCACTTGCTCCCAAT GAC	ACGAGTTGCTGGTTGA CCTT	59.8	372	DRR	Ca_27522	A	HD-ZIP
scaffold373_P2_20809	scaffold373	20809	TAAAA/TAAAAA	TCCAACGACACAAATGA ACG	AGGTCATTTTCGTCCTC CCT	59.9	290	INTERGENIC	--	--	--
scaffold373_P2_25857	scaffold373	25857	ACTTC/ACTTCTTC	AGCCACGAATTTAAGCT CCA	AGGGACAAAGGGCAAG AAAT	59.9	559	INTERGENIC	--	--	--
scaffold374_P2_123254	scaffold374	123254	C/CTCA	CATGTCAAAGGGGGA GAAA	TTGGCCACTGACTTGT CTTG	59.9	605	INTERGENIC	--	--	--
scaffold374_P2_13002	scaffold374	13002	AC/ACC	CAAATTCACGAGGTCA CACA	ATTTGGAGCGTTACATT GGG	59.8	184	INTERGENIC	--	--	--
scaffold374_P2_141916	scaffold374	141916	TG/T	GATTCCTTCTTAAC GCC	GGTAAGGGCTCCTTC AAAC	59.9	497	INTERGENIC	--	--	--
scaffold374_P2_142006	scaffold374	142006	TAAA/TAA	AATTCCTTCCACACAA CCA	AGCGGAGATTTTACCG GAAT	59.9	128	INTERGENIC	--	--	--
scaffold374_P2_14684	scaffold374	14684	CAA/CA	AGTCACTCATACCAACG GGG	TTTTGGGGGAATTGGT AAAA	59.1	633	INTERGENIC	--	--	--
scaffold374_P2_149528	scaffold374	149528	CTT/CTTTT	AAGGGTGGAAGAGGAG GAAA	TGATGTTTGAGATGCA AAAGC	58.9	473	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold374_P2_154680	scaffold374	154680	TAAAAAAAAAAAAA/TAAAAAAAAA	GATTGATGTTGGGACCGTT	TCAAATGCTTCAACTTGTCTT	59.9	477	INTERGENIC	--	--	--
scaffold374_P2_158468	scaffold374	158468	ACACGATCAGCACGA/ACACGA	CCTATCACAGGTCAGCACGA	GGTGTGGATGGAATTTGGAG	60.2	531	INTERGENIC	--	--	--
scaffold374_P2_182389	scaffold374	182389	TAAA/TAA	GCAACAAGCTGCAATC AAA	TGCTTGTTGACGAAGCACT	59.6	566	DRR	Ca_26212	R	NAC
scaffold374_P2_205813	scaffold374	205813	CAT/CATCCTGAT	AGCTGTTTCTGCTAGGCTGG	TTTATTTACGCGAATGCCCT	59.6	941	DRR	Ca_26214	O	--
scaffold374_P2_205921	scaffold374	205921	ATTTTTTTTT/ATTTTTTTTTTT	CAAAAGTTGCGATTCTTCTGG	TTTATTTACGCGAATGCCCT	59.6	483	DRR	Ca_26214	O	--
scaffold374_P2_2434	scaffold374	2434	AG/A	ATCGATTGGGAAATCGACTG	CGATTGTGTTTGCACAGGG	60.0	249	INTERGENIC	--	--	--
scaffold3742_P2_11903	scaffold3742	11903	ACC/AC	TTATAGCCGTTGGAAGTGGG	TTCAGCCTCGAATCCAGAGT	60.0	804	CDS (FRAME SHIFT)	Ca_27449	--	--
scaffold3742_P2_3802	scaffold3742	3802	TTAT/TTATAT	CGATAGACTCAAGTTGACCTG	GTGTCTGCTTGTTCCTGA	60.0	632	INTERGENIC	--	--	--
scaffold3742_P2_4052	scaffold3742	4052	TGGG/TGGGG	ACCCGAAGAACCAGAC TTTG	GTGTCTGCTTGTTCCTGA	60.0	232	INTERGENIC	--	--	--
scaffold377_P2_207835	scaffold377	207835	GAAA/GAAA	GCCCATTGCCAAATTGATTA	TTGGTGAATGGCCTCTATC	59.9	978	INTERGENIC	--	--	--
scaffold377_P2_224251	scaffold377	224251	A/AC	ACAACGAGGGTGAGTATCG	TGGCATAGTATCAGGCTCC	60.1	239	INTERGENIC	--	--	--
scaffold377_P2_357709	scaffold377	357709	TAAA/TAAAA	CCCCGCTCTGATAGTGATA	AACCATCTCGGTGGACAGAC	60.0	469	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold377_P2_75306	scaffold377	75306	C/CAT	TCACGGGTCGACACAA TTTA	AAC TGGACGTTGAGAA TGGG	60.0	403	INTERGENIC	--	--	--
scaffold377_P2_88657	scaffold377	88657	ATTTT/ATTTT	CAAAGTTGTCACCGCTA ATACG	AATAATGTGAAAGGGT GCGG	59.8	434	INTERGENIC	--	--	--
scaffold3780_P2_7994	scaffold3780	7994	C/CT	TCATTGCGAAATTAGC CCC	CCCAATCCCCCAACTT AAC	60.4	557	INTERGENIC	--	--	--
scaffold3780_P2_9854	scaffold3780	9854	GATAATA/GATA	CCAAGCTTGTGCCTATT GGT	TTAAAGGGAGGCAAAT GTGC	60.1	737	INTERGENIC	--	--	--
scaffold3784_P2_2352	scaffold3784	2352	AATATATATATATATATA/AATATATAT ATATATATA	TAAGACGAGGGAGGAC GAAA	GAAACGAACACCGGAG AAAA	60.1	764	INTERGENIC	--	--	--
scaffold3789_P2_4737	scaffold3789	4737	TAAAAAAAA/TAAAAAAAA	TTTGAAACAATCTCCCC GAG	GCACACAATCCTACTG CGAA	59.9	496	INTERGENIC	--	--	--
scaffold3789_P2_5837	scaffold3789	5837	CAAAAAAAAA/CAAAAAAAAA	TGCTCCATCAATCAAAT CCA	TTACGTGGTGGTGAAG GTGA	60.0	280	INTERGENIC	--	--	--
scaffold379_P2_131210	scaffold379	131210	GAAAAAAAA/GAAAAAAAA	TTATTGTGGCATTGG GATT	GTGCCATTGAATTGGG AAAT	59.6	590	INTERGENIC	--	--	--
scaffold379_P2_132536	scaffold379	132536	TAAAAAA/TAAAAAA	GTAATGAAGTGGCTGC ACGA	GTTTTTGTCAATGGC GGTC	60.4	407	INTERGENIC	--	--	--
scaffold379_P2_158097	scaffold379	158097	TTATATATATATATATATAT/TTATATA TATATATATATATAT	CAAAACCATGCATAGAC TCCC	TAACATCAGGGGAGGA CCAG	59.9	557	INTERGENIC	--	--	--
scaffold379_P2_194523	scaffold379	194523	AATATATATATATATATA/AATATAT ATATATATATATA	CCGAACCTTACTGGGC CTAA	ACCGTTTTGTGTTTCT TGC	60.0	602	INTERGENIC	--	--	--
scaffold379_P2_81972	scaffold379	81972	CTATTATTATTATTATTATTATTATT ATTATTATTATTA/CTATTATTATTATTAT TATTATTATTATTATTATTATTATTATTA TTA	GAAGTGAGAACGTGG CATT	ACTTGCAATCAAAGTTG GGG	60.0	495	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3794_P2_61760	scaffold3794	61760	TTTAAATT/TTTAAATTAAATT	GTTTAGGCCGCCACAA AATA	GGGACTTCTGTTGTCG GGTA	60.0	703	INTERGENIC	--	--	--
scaffold3794_P2_71924	scaffold3794	71924	A/AT	TTGATCAAAGGTGTGTC CCA	CCCCATTGACCAAAAT CATC	60.0	440	URR	Ca_26696	GMW	NAC
scaffold3794_P2_77218	scaffold3794	77218	ATTTTTTTTT/ATTTTTTTTT	TATTGTGCCAGAGGGG TTTT	TACCGGAGAACATGTG GATG	59.4	463	INTERGENIC	--	--	--
scaffold3794_P2_77267	scaffold3794	77267	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	TATTGTGCCAGAGGGG TTTT	TACCGGAGAACATGTG GATG	59.4	463	INTERGENIC	--	--	--
scaffold3794_P2_79952	scaffold3794	79952	TAAAAAAAAA/TAAAAAAAAA	AAGTTTGCAAGAACCTT CCAT	CATATATGGTGGGGAT TGCC	59.9	616	INTERGENIC	--	--	--
scaffold3794_P2_80115	scaffold3794	80115	CTAAATAAATAAT/CTAAAT	TCAGAGTCCAAGGAAT GAACAA	AATAGTCGTTGGATTTG GCG	60.0	551	INTERGENIC	--	--	--
scaffold3794_P2_82476	scaffold3794	82476	CCAC/CC	CAAAGGGACCACACCT CTTT	TTGGCCCTTTAGTGT ATCG	60.0	554	INTERGENIC	--	--	--
scaffold38_P2_135300	scaffold38	135300	GTTTTTT/GTTTTTTT	TGGTTGAAATTAAGCC AAGG	TCACATCAGGAAAAAT GGCA	60.0	565	INTERGENIC	--	--	--
scaffold38_P2_136090	scaffold38	136090	ATTTTTTTTTT/ATTTTTTTTTT	CCCGATTTTAAACAGTG CGA	TGATAGGTCTCATAGC CCCG	60.1	209	INTERGENIC	--	--	--
scaffold38_P2_138064	scaffold38	138064	TTATATATATATATATATATATA/TT ATATATATATATATATA	CTTGAGCAAAAGGAA GCAG	CAATTGAGTTGCGACG AGAA	60.0	281	INTERGENIC	--	--	--
scaffold38_P2_138674	scaffold38	138674	TA/TAGCAAA	CGTCGCAACTCAATTGA CAG	TTTTTCTCGGTGTGTAG GGG	60.0	950	INTERGENIC	--	--	--
scaffold38_P2_156750	scaffold38	156750	ATTTTTTTTTT/ATTTTTTTTTT	GGCCTACAGAGCGAGA AATG	TGACCTTTTCAATTTCT AATGCAA	60.0	691	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold38_P2_175587	scaffold38	175587	GA/G	TGTCGAGAAAGGCAAC ATCT	AATAAATTGTTTCGG TGCC	60.1	330	INTERGENIC	--	--	--
scaffold38_P2_184761	scaffold38	184761	CAA/CAAAA	CTGGTCGTAAACCGTCG ATTT	GGGAGCCATGTCGT TGAT	59.9	306	INTERGENIC	--	--	--
scaffold38_P2_211014	scaffold38	211014	ATTTTTTTTT/ATTTTTTTTTT	GGTAGCCATTCTGAAC ACCA	AGCGCATTAGTGGCTC AGTT	60.0	951	INTERGENIC	--	--	--
scaffold38_P2_242728	scaffold38	242728	TTTAATTAATTAATTA/TTTAATTAATTA ATTAATTAA	CAAACCAAGAACATTTA TGCAA	TGGCTGTGGAATGAAT GAAA	60.0	413	INTERGENIC	--	--	--
scaffold38_P2_248171	scaffold38	248171	CTTTTTTTTT/CTTTTTTTTT	TAGCCTTGAGACCGAG CATT	CAAGGACTAACTGAA GCCCA	59.4	372	DRR	Ca_23620	--	--
scaffold38_P2_250931	scaffold38	250931	GATAT/GAT	GGGAGCATATCTTCCC ATCA	ACCATTTTCTCCAAAC CCC	60.0	664	INTERGENIC	--	--	--
scaffold38_P2_25353	scaffold38	25353	TAAAAAAAAA/TAAAAAAAAA	TGGATGTGTGCATTGT CTT	CAAACCTGGTTAAATG TTTGGC	59.8	568	INTERGENIC	--	--	--
scaffold38_P2_261884	scaffold38	261884	GATAATAATAATAATAA/GATAATAA TAATAA	AGGGTTGCGGATAAC TTTT	TGAAGGAGAAAAGCAT CGAAA	59.9	426	INTERGENIC	--	--	--
scaffold38_P2_268644	scaffold38	268644	ACC/ACCC	AACCGAACCAGATCAAC CAG	TTGGGTTGCATGTCTT TCA	60.1	374	INTERGENIC	--	--	--
scaffold38_P2_274389	scaffold38	274389	TAG/TAGCGGTGTAATAAG	ATGGGAGACCACGACA ACTC	TGCCCCTTAGTGTGT GTGA	60.2	568	INTERGENIC	--	--	--
scaffold38_P2_281889	scaffold38	281889	TAAAAAAAAA/TAAAAAAAAA	ATCACCATTGTGGCATT GAC	TTGCAATAATGCGAAC CAAA	60.1	464	INTERGENIC	--	--	--
scaffold38_P2_285083	scaffold38	285083	CTTTTTTT/CTTTTTTTTT	TTCATAATTTTCTTGT GAGCCA	TCTGTGTCCACGTCA TTTG	60.6	399	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold38_P2_425721	scaffold38	425721	CTTTTTTTTTTT/CTTTTTTTTTTT	TTTAGGGACATGTTGG GTGG	TGCTTAGAAGGAGAGA CCCC	58.5	597	INTERGENIC	--	--	--
scaffold38_P2_454325	scaffold38	454325	T/TA	TCTGCGATTTTGGCTC TTT	TAAAGGACCAAGTCGG GAAA	59.5	486	DRR	Ca_23624	--	--
scaffold38_P2_471804	scaffold38	471804	TTATATATATATATAT/TTATATATATA TATATATATAT	AACGTTGGATCTTTTGT CGG	GCGGGAAGATGCACAA CTAT	60.1	656	INTERGENIC	--	--	--
scaffold38_P2_473077	scaffold38	473077	TTTCAAAC/TTTCAAACATTTCAA AC	CCACGAGATGATTCCAT GTG	GGACAAAACCCAAATTT CCA	59.6	841	INTERGENIC	--	--	--
scaffold38_P2_473354	scaffold38	473354	C/CAGG	CACGCGAGTCATGTTT GATT	CGCAAGATCCTTCTGA CACA	60.0	688	INTERGENIC	--	--	--
scaffold38_P2_474073	scaffold38	474073	TAAAAAAAAAAAAA/TAAAAAAAAAAAA	TGTGTCAGAAGGATCTT GCG	TGAGATTGCGCAGTTA ACCC	60.1	652	INTERGENIC	--	--	--
scaffold38_P2_491501	scaffold38	491501	GC/GCC	CACTGATTTGTGGGGA CCTT	CATTTTCTTGAGCGCTT GTG	59.6	755	INTERGENIC	--	--	--
scaffold38_P2_496481	scaffold38	496481	TAAAAAAAAAAAAA/TAAAAAAAAAAAA	TGCTGATGTGGCACCA TAAT	GGTGTTCAAAGTTCAA AAGCTG	58.9	555	INTERGENIC	--	--	--
scaffold38_P2_521187	scaffold38	521187	CT/CTCTAAACAAAT	CCATTACGATTAGTT TGATGA	GGTGGGTTAAGAATAC GCGA	60.0	312	INTERGENIC	--	--	--
scaffold38_P2_535408	scaffold38	535408	TAT/TATCGCAT	TTTTCGGTGATTCAAAA GCC	GCAGCAACACACCAAC TAGC	59.5	318	INTERGENIC	--	--	--
scaffold38_P2_535555	scaffold38	535555	ATTTTTTTTT/ATTTTTTTTTTT	TTTTCGGTGATTCAAAA GCC	ACCTCACACACAAC CACG	59.6	666	INTERGENIC	--	--	--
scaffold38_P2_94711	scaffold38	94711	A/AAT	TGTCATAAGAGCCTTCT TTTCCA	AGGACCAATCGACCA AAAA	59.4	379	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3802_P2_4088	scaffold3802	4088	CTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATT	TGTTGAAGAGGGAGTT TTGACA	TGACGAACCTTTGATG GTTG	57.2	498	INTERGENIC	--	--	--
scaffold381_P2_5412	scaffold381	5412	T/TAGG	CGTCGCATACGTGCAT AAGT	TAACCATAAACCCGAAA CGC	59.8	432	INTERGENIC	--	--	--
scaffold381_P2_6157	scaffold381	6157	CGTTTTAGGTTTTAGGTTTTAGGTTTA GG/CGTTTTAGGTTTTAGGTTTTAGGTT TTAGGTTTTAGG	GTTGATGGTTTCGGGT TGAT	AACGCAAAACACTAAAC CGC	60.2	304	INTERGENIC	--	--	--
scaffold381_P2_6830	scaffold381	6830	AAG/A	TGCAAAAGGGTCACCT GATTT	CCCCAAACCTAAACC CTAA	60.0	355	INTERGENIC	--	--	--
scaffold3811_P2_19567	scaffold3811	19567	GAAAAAAAAA/GAAAAAAAAA	GCACATCCATGCCATG TTTA	TGGATCGTCCATCAT TGTA	60.9	754	INTERGENIC	--	--	--
scaffold3811_P2_23758	scaffold3811	23758	ATTTTTTTT/ATTTTTTTTT	TGGGAATAGCCATAT CAGG	TCGAGACTCACTCCT TCGT	60.0	807	INTERGENIC	--	--	--
scaffold3811_P2_24750	scaffold3811	24750	CTATATATATATATATATATATAT/CTA TATATATATATATATATATAT	TACTATGCAACCATCCC GGT	TGAAACAAGAAACCG AACC	59.9	663	INTERGENIC	--	--	--
scaffold3817_P2_8938	scaffold3817	8938	CCTCTCT/CCTCT	CCATGAGGCCATTCT GATA	CCGGACAATTACATTCA CCC	60.1	486	INTERGENIC	--	--	--
scaffold382_P2_42961	scaffold382	42961	ACACT/ACACTAGGTCCACT	CAGCTCCCTCCTTCAGT TTG	TGATAGATTGTGGGC ATCA	59.9	546	INTRON	Ca_27060	--	--
scaffold382_P2_79907	scaffold382	79907	CAA/CA	GCATTAAGTCAGGGGC TCAG	TACATTCCTCCACAG GGT	60.1	447	INTERGENIC	--	--	--
scaffold3823_P2_3884	scaffold3823	3884	CAACAATAA/CAA	TGGCAAATCGATTGACA GAA	GTCCTGAAAATCCAAA CGGA	59.9	780	DRR	Ca_27909	--	--
scaffold3823_P2_3930	scaffold3823	3930	ACAAAAGAACTATCAA/ACAA	TGGCAAATCGATTGACA GAA	GTCCTGAAAATCCAAA CGGA	59.9	780	DRR	Ca_27909	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3824_P2_10339	scaffold3824	10339	TCTGCCTG/TCTG	AAAGCCCAAGAGGGAG GTAG	CCGACAGACAAACCA CAGA	59.7	451	INTERGENIC	--	--	--
scaffold3824_P2_16274	scaffold3824	16274	GTCTTCTTCTTCTTCTTCTTCT/GTC TTCTTCTTCTTCTTCTTCT	GTTAACCACCCACCTC CTT	CTTCTAACTTCAGACG GCGG	60.0	588	INTERGENIC	--	--	--
scaffold3824_P2_21914	scaffold3824	21914	TACACAC/TACAC	ACGGTTGAGAATTGAG TGGC	ACAAAAACCACATTGCG ACA	60.0	572	INTERGENIC	--	--	--
scaffold383_P2_247950	scaffold383	247950	AC/A	TGGAGAATCAGGTGTC CCTC	TATTGGGTGCACCGTT TACA	59.8	440	INTERGENIC	--	--	--
scaffold3837_P2_2371	scaffold3837	2371	ATTTTTTTTTTTT/ATTTTTTTTTTT	CTTCTTGGTGGCATGG TTTT	TACCTGTGGATGGGA ATGT	60.1	591	INTERGENIC	--	--	--
scaffold3837_P2_5661	scaffold3837	5661	AT/ATT	GCCTCCGAGTCAATAC CAAA	ATTGAGGGTAGGGGAG CAGT	60.0	415	INTERGENIC	--	--	--
scaffold3837_P2_5910	scaffold3837	5910	ACCC/ACC	ACCTCGATCTGGAATC ACG	ATTGAGGGTAGGGGAG CAGT	60.0	467	CDS (FRAME SHIFT)	Ca_27570	--	--
scaffold3849_P2_5823	scaffold3849	5823	CTCT/CTCTGCTTATTCT	GCGTGTTGTGTGTCATTG GAC	CCAAGGAAAGGCAAAA ATGA	60.0	542	INTERGENIC	--	--	--
scaffold387_P2_113451	scaffold387	113451	CTT/CTTT	GTTGGTCCCTAGCAC CGTA	TCTCCCTCCTTCTCCA TTT	60.0	255	INTERGENIC	--	--	--
scaffold387_P2_113674	scaffold387	113674	GTATATATATATATATATAT/GTATAT ATATATATATATAT	GTTGGTCCCTAGCAC CGTA	ACCAATTACTGGAGA TGCG	60.0	797	INTERGENIC	--	--	--
scaffold387_P2_16023	scaffold387	16023	CAT/C	CACACCCCTTGCAAC CTG	TTAAGCTGAGAGCCTT CCCA	60.1	439	INTERGENIC	--	--	--
scaffold387_P2_160969	scaffold387	160969	TTA/TTACTA	AGCTCCAAATCCAGAG CAAA	GGGATATGATCTTCTA CCCCA	57.8	835	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold387_P2_161553	scaffold387	161553	ATTT/ATTTT	CACAAAATTGCAATAGT CGCAT	TCCCAACATATCTTTCT GTTCTTG	59.5	199	INTERGENIC	--	--	--
scaffold387_P2_16971	scaffold387	16971	TT/TTGT	CTCAACAAGGACGCCA ATTT	GGATTGATTACGCTTG TTGGA	60.0	299	INTERGENIC	--	--	--
scaffold387_P2_19261	scaffold387	19261	TATAATAGAT/TAT	CCTTGAGGAACAACAAA ACCA	TTTTGGGGTTTAGGGT GTCA	60.2	757	INTERGENIC	--	--	--
scaffold387_P2_22975	scaffold387	22975	AATC/AATCATC	CGCAATCTGAACAAATG ACAA	TCCACTAACCACCTTGA CCC	59.8	338	INTERGENIC	--	--	--
scaffold387_P2_23485	scaffold387	23485	ATTTTT/ATTTTTTT	GGGTCAAGGTGGTTAG TGGA	TCCTCTGCCTTTCATGT GTG	59.8	496	INTERGENIC	--	--	--
scaffold387_P2_23589	scaffold387	23589	ATGTGTGTG/ATGTGTGTGTG	GGGTCAAGGTGGTTAG TGGA	TCCTCTGCCTTTCATGT GTG	59.8	496	INTERGENIC	--	--	--
scaffold387_P2_25007	scaffold387	25007	TG/T	AATCATGTAGCCGGAA GTGG	CGCGAGTATAGGGATG GGTA	59.9	519	INTERGENIC	--	--	--
scaffold387_P2_5703	scaffold387	5703	CG/C	GAGGGAAAAGCCGAGA TTTC	GTGGTAATCGCGTTGA AGGT	60.0	720	INTERGENIC	--	--	--
scaffold388_P2_48382	scaffold388	48382	GTTTT/GTTTTT	AGGTCATTTTCGTCCTC CCT	ACAAATGAACCTATGGC GGC	60.0	263	INTERGENIC	--	--	--
scaffold388_P2_8752	scaffold388	8752	ATAT/ATATTAT	GCCCCAGAATCAAAGT TCA	GCAGGAATCCTCGTAC CTCA	60.2	520	INTERGENIC	--	--	--
scaffold39_P2_39921	scaffold39	39921	TTATATATATATATATAT/TTATATATA TATATATATATAT	CGGCCATCTACGTTGT CTTT	AACAACTCCTTCGCTC CAA	59.9	316	INTERGENIC	--	--	--
scaffold39_P2_40229	scaffold39	40229	GAAAAAA/GAAAAA	CGGCCATCTACGTTGT CTTT	GACATTGCATTTTGA CACG	60.0	924	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3917_P2_4350	scaffold3917	4350	ATTT/ATTTT	TGAGGCGTATCATGTG TTGA	CAACTTTGGTGAGGCC ATT	60.0	662	INTERGENIC	--	--	--
scaffold3918_P2_4292	scaffold3918	4292	TAAAAAAA/TAAAAA	ATGCCTTCGTCTCTCC TTT	ACATTGAACTGCCCAT TCC	59.8	612	INTERGENIC	--	--	--
scaffold3918_P2_4537	scaffold3918	4537	CTTAATT/CTT	ATGCCTTCGTCTCTCC TTT	CGAGTGAAGGCATGGG TATT	60.0	914	INTERGENIC	--	--	--
scaffold3923_P2_3230	scaffold3923	3230	GA/GAA	TGCTGCAACTTCTACAT CCG	AGAAAGCGTGAAACT CCGA	60.0	695	INTERGENIC	--	--	--
scaffold3927_P2_1574	scaffold3927	1574	ATTTTT/ATTTTTT	GAATCCTGGGCTGAA TCAA	CGTGGTAATCGCGTAG GAAT	60.0	342	INTERGENIC	--	--	--
scaffold3934_P2_3831	scaffold3934	3831	CAAAAA/CAAAA	CATCTTCCCATGCTCCA TTT	CTGGGGTTCCACTGTG ACTT	60.0	712	INTERGENIC	--	--	--
scaffold3939_P2_3327	scaffold3939	3327	GATAATAATAATAATAA/GATAA TAATAATAATAATAATAA	TCCAGATCAAATCGAG GACC	AGAGGCAACAAGAAC CGAA	59.9	450	INTERGENIC	--	--	--
scaffold3942_P2_4828	scaffold3942	4828	C/CTGT	ACTGGTTCCTTGCCTTT TGA	ACCAGAGAGTGGCAGC CTAA	60.0	241	URR	Ca_28012	--	--
scaffold3945_P2_12983	scaffold3945	12983	G/GATCCTC	TTCCAATCGATCCAGC TCT	ATACCGATTGACTGG GCTG	60.0	531	INTRON	Ca_26970	--	--
scaffold3947_P2_19717	scaffold3947	19717	TTATATATATATATATATATATATA TATATTTATATATATATATA/TTATATA TATATATATATATATATATATATATAT ATTTATATATATATATA	TGAACACGTCAAAAC GACA	GGAGCTGATTGAAAG TTGC	60.0	948	INTERGENIC	--	--	--
scaffold3947_P2_5994	scaffold3947	5994	CAAAAA/CAAAA	AAATCCAACATCTCC CCC	TTGGTCGACAAGCAAC TGAG	60.0	577	DRR	Ca_27632	--	--
scaffold395_P2_101675	scaffold395	101675	ATATTATTATTATTATTATTATTATT ATTATTA/ATATTATTATTATTATTAT TATTATTATTA	ACGCGACAATCGAGGT AAAC	TACGTACGGCAGTAGC CCTT	59.8	787	INTRON	Ca_24514	K	G2-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3950_P2_7767	scaffold3950	7767	TAAAAA/TAAAA	GGTGGCGAGATGTCAT ACAA	TCCACCAATATGCAAA GCA	60.1	366	INTERGENIC	--	--	--
scaffold3950_P2_8174	scaffold3950	8174	TAAAAAA/TAAAAAAA	TGCTTTTGCATATTGGT GGA	AAAACATGGCCTTCAA CTGG	60.0	475	INTERGENIC	--	--	--
scaffold3950_P2_8477	scaffold3950	8477	TAAAAAAA/TAAAAAAA	TGCTTTTGCATATTGGT GGA	AAAACATGGCCTTCAA CTGG	60.0	475	INTERGENIC	--	--	--
scaffold3950_P2_8667	scaffold3950	8667	AAATAATAATAATA/AAATAATAATA	CCAGTTGAAGGCCATG TTTT	TTTTATGGAAGCATGTG GCA	60.1	528	INTERGENIC	--	--	--
scaffold3951_P2_1843	scaffold3951	1843	CAA/CA	GAGTCACAGTGGCACT CCAG	TCGACTTGTCAATCGC TTTG	60.0	226	INTERGENIC	--	--	--
scaffold396_P2_234550	scaffold396	234550	ATATAGAAAATT/ATATAGAAAATTATAG AAAAATT	CCCAAGGGGTACCTCA ATTT	CGCATGTGTTTTAAAC GGTG	60.0	383	INTERGENIC	--	--	--
scaffold396_P2_371269	scaffold396	371269	TAAAAAAA/TAAAAAAA	GTTTTGACTGGCCAAA GAG	GAGCGCTGTAAAGAC CACC	59.9	588	INTERGENIC	--	--	--
scaffold396_P2_372299	scaffold396	372299	CATATATATATATATATATATATA/CA TATATATATATATATATATATA	TGTATTTCTGCGCATTC TCG	TTGTTAGTTTGACGAG GGCA	59.3	357	INTERGENIC	--	--	--
scaffold396_P2_476470	scaffold396	476470	GTATATATATATATATATATATA/G TATATATATATATATATATATATA	CGCGTTAACAGAGAA GAGG	TATTTTGATTTTGGCT CGG	59.9	363	INTERGENIC	--	--	--
scaffold396_P2_556109	scaffold396	556109	CAAAA/CAAAA	TCATTTGTGCCATTGCA TTT	GCCTAGGAAGGACGAC AATG	59.7	648	INTERGENIC	--	--	--
scaffold396_P2_577559	scaffold396	577559	GAA/GA	TCCCAACCCAAATAAAC CAA	AAGCTCAACATGCAAAA CCC	60.1	538	INTERGENIC	--	--	--
scaffold396_P2_577641	scaffold396	577641	ACCC/ACCCC	TCCCAACCCAAATAAAC CAA	AAGCTCAACATGCAAAA CCC	60.1	538	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold396_P2_588477	scaffold396	588477	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAATA TAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAATA	AGGCGATTTTCATCCTC CTT	AGAGGCAACAAGAAG CGAA	59.9	513	INTERGENIC	--	--	--
scaffold397_P2_167388	scaffold397	167388	AATATATATATATATATATATAT/AATATA TATATATATATATATATAT	GATTTGCTTTCGCTGAC AGA	CGGTGAATCCTTTACG GAGA	60.1	279	INTERGENIC	--	--	--
scaffold397_P2_191121	scaffold397	191121	AA/AACCA	GGAGGAGAGGAAGACC AAAGA	GGGTAGTTGTGGCTTG CATT	60.0	114	INTERGENIC	--	--	--
scaffold397_P2_23446	scaffold397	23446	A/AT	TGGAGGCGGCTACTAG TGTT	ATTGAATTCGCCATAAA CGG	59.8	411	INTERGENIC	--	--	--
scaffold397_P2_261474	scaffold397	261474	CATATATATATATATATATATATATAT/ CATATATATATATATATATATATATAT AT	GTTGGTTCCTAGCAC CGTA	CTTGGGAAGTGGAGAG CAAG	60.0	738	INTERGENIC	--	--	--
scaffold397_P2_450555	scaffold397	450555	TTCTCTCTCTCTCTCTCTCTCTCT/TC TCTCTCTCTCTCTCTCTCTCTCTCTC	ACCAAAAGCTGAAACAT GGG	TGGCTCCCTGTCTTATT TGG	60.1	563	INTERGENIC	--	--	--
scaffold398_P2_100881	scaffold398	100881	T/TCTGAATTTAGTTTG	CGCGGTTACAATCTAG CACA	GCTTGCAACATTTTCG GTT	60.1	522	INTERGENIC	--	--	--
scaffold398_P2_104200	scaffold398	104200	TAAAAAAAAA/TAAAAAAAAA	CACCGCAACCCAACTA AAT	AATTGGCTTGGACTCT GTCG	60.3	126	INTERGENIC	--	--	--
scaffold398_P2_1047	scaffold398	1047	ATTTTTTTTT/ATTTTTTTTT	TGGGAGGATTGCAAC ATTT	CGGTCTATTATGATTGT TTGCG	59.5	536	INTERGENIC	--	--	--
scaffold398_P2_117404	scaffold398	117404	ATTTTTTTTT/ATTTTTTTTT	GGTTTAGGCTTGGGTG TTGA	AGCAATAAAGATGCAT GGGC	60.1	825	INTERGENIC	--	--	--
scaffold398_P2_126644	scaffold398	126644	TAAAAAAAAA/TAAAAAAAAA	CGAATTCTCTCGAACTT TTCGT	TCAACAACAAATGTCA TGCAA	60.0	404	INTERGENIC	--	--	--
scaffold398_P2_133623	scaffold398	133623	AAAAATAATAATAATAAA/AAAAATAA TAAATAATAATAATAATAA	TTGACCTATGTCCCTC TCG	CGCACACTAGCAAAT GCAG	60.6	269	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold398_P2_160107	scaffold398	160107	CAA/CAA	CAACTTCCGAAACTCT GGG	TTTCCGCAAGATGTGA TTGA	60.2	250	DRR	Ca_22283	--	C2H2
scaffold398_P2_17888	scaffold398	17888	CTTTTTTTTTTT/CTTTTTTTTTT	AAACGCAATCCTTGAGT TCG	AAATGTTGCAATCCTC CCA	60.3	362	INTERGENIC	--	--	--
scaffold398_P2_179307	scaffold398	179307	CAA/CAAGGCTTAA	TCGAAGAGGACAAAGT GCCT	CATCTTGAGTCCCGGT TCAT	59.9	721	INTRON	Ca_22284	A	--
scaffold398_P2_17995	scaffold398	17995	ATAATCAACTAA/ATAA	AAACGCAATCCTTGAGT TCG	TCGATCAATTGAAAATC CATCA	60.3	601	INTERGENIC	--	--	--
scaffold398_P2_195775	scaffold398	195775	TC/TCC	AGAATCAAATTCGCTG CGT	TTCCCTCATCTTGATT TCG	60.0	477	INTERGENIC	--	--	--
scaffold398_P2_213400	scaffold398	213400	TAAAAAAAAA/TAAAAAAAAA	CATGCCTCTAAAGCCCT TGT	TGAAGGAAACGACACA TGGA	60.1	729	INTERGENIC	--	--	--
scaffold398_P2_252607	scaffold398	252607	CAAAAAAAAA/CAAAAAAAAA	TGCTCAGACCACCAAT GAA	CAACTTCAAACCGACAA ACG	59.2	299	INTERGENIC	--	--	--
scaffold398_P2_253191	scaffold398	253191	TTGAAT/TT	GAAATTTGCATATTCG CCA	TCCAAAAATTGCAAGG AAGAA	59.7	257	INTERGENIC	--	--	--
scaffold398_P2_257827	scaffold398	257827	TAAAAAAAAA/TAAAAAAAAA	AGCTCGGAAGTGCAAT GAGT	GGTTGTGTGGGTTT GATG	59.7	319	DRR	Ca_22287	--	--
scaffold398_P2_260710	scaffold398	260710	AC/ACC	TTGTCCTTCAACCAGT TCA	CACAAAGCAATTCCA CCA	59.6	379	DRR	Ca_22288	I	--
scaffold398_P2_260810	scaffold398	260810	ATTTTTTTTT/ATTTTTTTTTT	TTGTCCTTCAACCAGT TCA	TCTGCATGTCAGCCTA CCAG	60.0	800	DRR	Ca_22288	I	--
scaffold398_P2_261122	scaffold398	261122	CTATATATATATATATATATAT/CTAT ATATATATATATATATATA	ATGGACTCTCCCTCTCA CGA	TCTGCATGTCAGCCTA CCAG	60.0	589	DRR	Ca_22288	I	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold398_P2_268697	scaffold398	268697	A/AC	CCATGGAGATTAATGG ACCG	CACAAGTGCATGTCC AAAC	60.2	201	INTERGENIC	--	--	--
scaffold398_P2_268793	scaffold398	268793	GAAAAAAAAAAAAAAAAA/GAAAAAAAAAA A	CCATGGAGATTAATGG ACCG	TGGGATCATCAATAT GACACG	60.6	429	INTERGENIC	--	--	--
scaffold398_P2_268856	scaffold398	268856	TAAAAAAA/TAAAAAAA	CCATGGAGATTAATGG ACCG	TGGGATCATCAATAT GACACG	60.6	429	INTERGENIC	--	--	--
scaffold398_P2_269493	scaffold398	269493	GTTTTTTTTT/GTTTTTTTT	TACTGGAGTGATGCAG GCAA	CAAAAGTCCAATAAAAT GGAGCA	60.3	330	INTERGENIC	--	--	--
scaffold398_P2_270063	scaffold398	270063	CAAAAAA/CAAAAAAAA	TGCTCCATTTTATTGGA CTTTG	TGTTGCAAGATCGAA CTGC	60.0	579	INTERGENIC	--	--	--
scaffold398_P2_270743	scaffold398	270743	TAAAAAAA/TAAAAAAA	GTAGTGGTTGAAGTGG CGGT	CTACTCCATCGGGTCT CCAA	60.1	462	INTERGENIC	--	--	--
scaffold398_P2_270928	scaffold398	270928	TAAAAAAA/TAAAAAAA	GTAGTGGTTGAAGTGG CGGT	CTACTCCATCGGGTCT CCAA	60.1	462	INTERGENIC	--	--	--
scaffold398_P2_280544	scaffold398	280544	TT/TTAT	CCCAGAGAAGCTAGTG CAGAA	TTGCAACAACATCAACA AATGA	60.0	899	INTERGENIC	--	--	--
scaffold398_P2_288064	scaffold398	288064	AGGG/AGG	AATTCTCAGGCCAGCT CAAA	TGAAGCTTACCAATTCC CCA	60.4	444	INTERGENIC	--	--	--
scaffold398_P2_289050	scaffold398	289050	CAAAAA/CAAAAA	TGATGAGCTAGGAACC TCCG	GCAGTTTAAGTCTGCT CCCG	60.0	592	INTERGENIC	--	--	--
scaffold398_P2_290361	scaffold398	290361	ATTTT/ATTTT	AAAACGGATTTTACGGT CCC	AGAGCACCCCATAC CTAT	59.7	598	INTERGENIC	--	--	--
scaffold398_P2_290707	scaffold398	290707	CAAAAA/CAAAAA	AAAACGGATTTTACGGT CCC	GTTGGTCCTTTTGAC CTCA	59.9	990	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold398_P2_306564	scaffold398	306564	ATATTATTATTAT/ATATTATTATTAT	GTTGTGGGAATATGG TGCT	CCGCCATCTGTACAA AAAC	60.4	826	INTERGENIC	--	--	--
scaffold398_P2_309013	scaffold398	309013	T/TC	TCACTTTGGAGGGTGC TTCT	TCGCAATAGGTTAGGA TGGG	59.9	763	INTERGENIC	--	--	--
scaffold398_P2_313941	scaffold398	313941	T/TG	CGGTGCACTCTTTGACT TGA	AGACATTTATCGGTCA CGCC	60.0	856	DRR	Ca_22292	R	bHLH
scaffold398_P2_314075	scaffold398	314075	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	ATCAAAATCGAACAAAG CCG	AGACATTTATCGGTCA CGCC	60.0	378	DRR	Ca_22292	R	bHLH
scaffold398_P2_319085	scaffold398	319085	TG/T	TTGCATGAAACATGGC AGT	GTTGTTGATGTGGAGG GCTT	60.0	337	INTERGENIC	--	--	--
scaffold398_P2_319239	scaffold398	319239	T/TC	AAGCCCTCCACATCAAC AAC	AATGGTCATGGTTCCT CCAA	60.2	309	INTERGENIC	--	--	--
scaffold398_P2_321526	scaffold398	321526	AAATAATAATAATAAT/AAATAATAATAA TAATAAT	ATTGGCAGGAAGAGCT TCAA	GTGCGGATTATGTCGG GTAT	59.7	741	INTERGENIC	--	--	--
scaffold398_P2_331788	scaffold398	331788	AATA/AA	CCATCATCTTTGGGCA GACT	TCTCAAATGCCTGGAA TGGT	60.5	221	INTERGENIC	--	--	--
scaffold398_P2_33224	scaffold398	33224	CTTTTTTTTT/CTTTTTTTTT	AGTGATCCAACCTCAAC ATCG	TCGAATAAATCAATCCA AAATCAA	59.7	561	INTERGENIC	--	--	--
scaffold398_P2_33315	scaffold398	33315	AG/AGG	AGTGATCCAACCTCAAC ATCG	TCGAATAAATCAATCCA AAATCAA	59.7	561	INTERGENIC	--	--	--
scaffold398_P2_333471	scaffold398	333471	GAAAAAAAAA/GAAAAAAAAA	CGCAGGTTTCAACCTTC AAT	CCTAAGACCATCCCCC ATTT	60.0	831	INTERGENIC	--	--	--
scaffold398_P2_335816	scaffold398	335816	CA/CAA	TGGGCAATTTCAATTGTG AGA	TTCGGTTTGACCATCC ATTT	60.2	889	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold398_P2_33778	scaffold398	33778	AATAT/AATATAT	TTTGATTTTGGATTGAT TTATTCTG	CATGGCCACTCAAAGC ACTA	59.9	494	INTERGENIC	--	--	--
scaffold398_P2_33851	scaffold398	33851	A/ATTTTT	TTTGATTTTGGATTGAT TTATTCTG	CATGGCCACTCAAAGC ACTA	59.9	494	INTERGENIC	--	--	--
scaffold398_P2_339301	scaffold398	339301	TAAA/TAA	GGATGCTGGAATTTTGA AGG	CGCAGTAATATGTGAT GGGTTT	58.9	713	DRR	Ca_22294	K	C3H
scaffold398_P2_339502	scaffold398	339502	T/TG	GGATGCTGGAATTTTGA AGG	TTTTACTTCCGCCAGCT TGT	59.9	810	DRR	Ca_22294	K	C3H
scaffold398_P2_339844	scaffold398	339844	CAAAAAA/CAAAAA	AAACCCATCACATATTA CTGCG	AATTCGACGTGATACC GAGG	60.0	302	DRR	Ca_22294	K	C3H
scaffold398_P2_344635	scaffold398	344635	TC/T	AAAACGCGACAATGGT CAAC	TGTGCCTGTGGTGT CCTA	60.2	333	INTRON	Ca_22294	K	C3H
scaffold398_P2_344928	scaffold398	344928	CCAATTTGCAATTTGCAATTT/CCAATTT GCAATTT	CGAACTCCTAAAAACGC GAG	TGTTTTCCAGTGGTGT TCTTG	60.0	434	INTRON	Ca_22294	K	C3H
scaffold398_P2_345817	scaffold398	345817	ATT/AT	AGAATCACCACAGGCA CACA	TGCCTCATTAGCTCAA GGGT	59.8	522	INTRON	Ca_22294	K	C3H
scaffold398_P2_346462	scaffold398	346462	CAAAAAA/CAAAAAA	CCTTGAGCTAATGAGG CACC	TGACCGTTGTTCGTGT TCAT	60.0	530	INTRON	Ca_22294	K	C3H
scaffold398_P2_347600	scaffold398	347600	TAAAAA/TAAAAA	TTTGGTCGGACATACT GCT	CCAAGTGCCTCATA ATTT	60.1	685	INTERGENIC	--	--	--
scaffold398_P2_348013	scaffold398	348013	TAAAAAAA/TAAAAAAA	AAATTATGAGGCGCAG TTGG	TCCGGTTGGAATTGCT CTTA	60.6	348	INTERGENIC	--	--	--
scaffold398_P2_360815	scaffold398	360815	T/TAG	GAAGAGTTACGCGGAC AAGC	AGGAAGAGTGGAGTTG CGAA	60.0	768	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold398_P2_36613	scaffold398	36613	TAAA/TAA	TGTTGCATCTTTCTTGA CGC	CCCCAAGACACTTTGG GATT	61.1	646	INTERGENIC	--	--	--
scaffold398_P2_372482	scaffold398	372482	TTGTGTG/TTGTGTGTG	TGGGAGTTTGAGGT ATTTCC	GCCAAAGAAGAAGTGA ACCG	59.9	772	DRR	Ca_22296	J	--
scaffold398_P2_379143	scaffold398	379143	AGAA/AGAAATTGAA	TCTGAGGAAGAGGAGG ACGA	AGCGTGGCAGATTTTG AAAG	60.4	778	INTERGENIC	--	--	--
scaffold398_P2_390541	scaffold398	390541	GAAAAA/GAAAAA	TGAAATGAGCATGATG GGTG	CAGTTTGCCGCTGAAA CATA	59.9	507	INTERGENIC	--	--	--
scaffold398_P2_390628	scaffold398	390628	A/AC	CACGAGTGGAGCATGT CAGT	CAGTTTGCCGCTGAAA CATA	59.9	114	INTERGENIC	--	--	--
scaffold398_P2_394906	scaffold398	394906	ATTTTGTTTTGTTTTGTTTT/ATTT GTTTTGTTTTGTTTTGTTTT	TCCTAGAACATGCATCA CGC	AAGTTTGGGATTGCTC ATGG	59.9	374	DRR	Ca_22297	--	--
scaffold398_P2_395663	scaffold398	395663	AC/A	AGAAAGGCTCAAACGA CCAA	AGCGGAATAGGAGCAG ATGA	59.9	565	DRR	Ca_22297	--	--
scaffold398_P2_403847	scaffold398	403847	GC/G	CCCAAGTCCCAAGAG TCAA	GTTTTGTTTTGCAGG GGAA	60.0	530	INTERGENIC	--	--	--
scaffold398_P2_415937	scaffold398	415937	TATAATAATAAT/TATAATAATAAA TAATAAT	GATGTGGGACTCGAGG TCAT	AGCAACAAGCTGAAGG GAAA	60.0	455	INTERGENIC	--	--	--
scaffold398_P2_416761	scaffold398	416761	CAAAAAAAAA/CAAAAAAAAA	AAATCGAAATCACATCC CACA	GCGGACGATGGAATGA ATAA	60.8	429	INTERGENIC	--	--	--
scaffold398_P2_430273	scaffold398	430273	AT/ATGAACTT	ATGCTCTGCACTTGCA GCTA	AAAACCAACCCACAAA CCA	60.1	151	INTERGENIC	--	--	--
scaffold398_P2_44051	scaffold398	44051	TAA/TA	GAGACGAGGTCCATG AAGA	GCATTAATCGCGAACA CACA	60.7	541	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold398_P2_44081	scaffold398	44081	T/TCATGAA	GAGACGAGGGTCCATG AAGA	GCATTAATCGCGAACA CACA	60.7	541	INTERGENIC	--	--	--
scaffold398_P2_443064	scaffold398	443064	ATTTTTTTTT/ATTTTTTTTT	TTCCGATGGAGCTATTG TGG	TTTTCTTGGGTAGCAAT CGG	60.1	609	INTERGENIC	--	--	--
scaffold398_P2_45043	scaffold398	45043	T/TGTA	CCCTACGACGTCCGTT AAAA	TCGCTCGTTGCACCAT ATTA	60.2	554	INTERGENIC	--	--	--
scaffold398_P2_454951	scaffold398	454951	GTTTTTTTT/GTTTTTTTT	GGTGAGAAATGAAACG GAGA	GATCTCTTTGGGCCAA TCAA	60.0	775	INTERGENIC	--	--	--
scaffold398_P2_459574	scaffold398	459574	CAAAAAAAAA/CAAAAAAAAA	TCGGGTGTAATGGGG TTTA	TTGGTCGTTTGAGCCT TTCT	59.9	477	INTERGENIC	--	--	--
scaffold398_P2_466018	scaffold398	466018	ACCCCC/ACCCC	TGCATGCAGACAAGAG TCAA	TTGGAAAAGCCACCT ACAC	60.0	468	INTERGENIC	--	--	--
scaffold398_P2_473533	scaffold398	473533	TAAAAAAAAA/TAAAAAAAAA	AATCATTGAGGTGGTC GGAG	TGTTCCCAATGTTTAC GAAA	59.9	472	INTERGENIC	--	--	--
scaffold398_P2_479794	scaffold398	479794	CTTTTTTT/CTTTTTTT	GCTGGCCTTATCCATT GAA	TGAAATCAGTGACAGG AGTG	59.8	580	INTERGENIC	--	--	--
scaffold398_P2_485833	scaffold398	485833	ATTTTTTTTT/ATTTTTTTTT	TGGTTGTGCACCTCAAA CAT	TCTCTCCCTCCTACCT TCC	59.6	870	INTERGENIC	--	--	--
scaffold398_P2_488633	scaffold398	488633	ATTTTTTTTT/ATTTTTTTTT	CGCACCATGACCTAA CTCT	GCATGATAGAATTTCAC CGGA	59.9	439	DRR	Ca_22300	--	C2H2
scaffold398_P2_49002	scaffold398	49002	CTAGGGTTTAGGGTTTAG/CTAGGGTTT AGGGTTTAGGGTTTAG	CTTGTGGCTTGTGCGT CTAA	TTTTCTTACACATGCC ATCTT	59.6	604	INTERGENIC	--	--	--
scaffold398_P2_491025	scaffold398	491025	ATAT/ATATTAT	CCGATATTGAAGGGCA TTGT	GGAAATAATTGCATGA TGGG	59.1	550	URR	Ca_22300	--	C2H2

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold398_P2_492512	scaffold398	492512	ATTTTTTTTTT/ATTTTTTTTTT	AGCTTCTTGAATAGCTG CGG	CCATTGATTGACCAT GTG	59.8	740	INTERGENIC	--	--	--
scaffold398_P2_495732	scaffold398	495732	ATTTTTTTTTT/ATTTTTTTTTT	TCAACAAACCAAGAAG ATGA	GGGAAGGACTGGATG AGCA	60.1	636	INTERGENIC	--	--	--
scaffold398_P2_55382	scaffold398	55382	CACTCCAAA/CACTCCAACTCCAAA	TCCCTCAATCTCACAAT CAGTG	TGGTTTGGCCCTCAGT TTAC	60.0	762	INTERGENIC	--	--	--
scaffold398_P2_58434	scaffold398	58434	TAAAAAAAA/TAAAAAAAAA	GGGGTGAAAGAGCATT TGAA	TTGTCTCATCTCGTTG GCCT	60.8	572	INTERGENIC	--	--	--
scaffold398_P2_648	scaffold398	648	TTA/TTATA	TCGTGATTGATCCAAC TCCC	TCGAAATCACAGTTTTG GCA	60.2	187	INTERGENIC	--	--	--
scaffold398_P2_69760	scaffold398	69760	GAAAA/GAAAAA	GGCTGTTGATGTTGG TTTT	AGGGTATTGCCACAA TGGA	60.2	795	INTERGENIC	--	--	--
scaffold398_P2_71010	scaffold398	71010	CAAAA/CAAA	CCCAACTTCATGCACCT TTT	ACATGAAAGCCACAC ATGG	59.4	703	INTERGENIC	--	--	--
scaffold399_P2_102445	scaffold399	102445	ATTT/ATTTT	GGAGTCAAGAGTTGC TTGC	TTTTTCGGTATCCAAC GCT	59.6	382	INTERGENIC	--	--	--
scaffold399_P2_81568	scaffold399	81568	GTT/GTTT	TTGAAAAGACTGTTTCG GGG	GATACTATGCCACCAT CCCG	60.2	757	INTERGENIC	--	--	--
scaffold40_P2_1022080	scaffold40	1022080	TTAT/TAGAAATAT	TCACTGTCCGCCGATA AGTA	TTTCCATGCTTCAATGG TCA	60.0	790	INTERGENIC	--	--	--
scaffold40_P2_1031108	scaffold40	1031108	GAAAAA/GAAAAA	TTTCCTTGTGCATCAAC TGC	TTGTATATGCAGGCCA ACCA	60.0	425	INTRON	Ca_18999	O	E2F/DP
scaffold40_P2_1060489	scaffold40	1060489	TATAATAATAATAATAATAATAA TAATA/TATAATAATAATAATAATAAT AATAATAATAATAATAATA	GGCTTCTTGTGACCG GTAT	TCCCGCAATTAAGGTTT GAG	60.1	607	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TfS
scaffold404_P2_194036	scaffold404	194036	AATATATATATATATATATATAT/AATATA TATATATATATATATATATAT	TCCCGAGGAAAAATTGA CAC	CCGATAAAATCTCGCAT CGT	60.1	937	INTERGENIC	--	--	--
scaffold404_P2_202624	scaffold404	202624	AATATATATATATATATATATATATATAT ATATATATATATA/AATATATATATATATA TATATATATATATATATA	TATTTTGGATTTTGGCT CGG	AAATGGAGGAGAAGGA GGGA	60.0	417	INTERGENIC	--	--	--
scaffold404_P2_237330	scaffold404	237330	TTTATTATTATTATTATTATTATTATT ATTATTATTATT/TTTATTATTATTATTAT TATTATTATTATTATTATTATT	AGAGGCCAAACAAGAAC CGAA	GCAACCAAATTGAAACA CCA	59.4	581	INTERGENIC	--	--	--
scaffold4041_P2_1126	scaffold4041	1126	TTATATATATATATATATATAT/TTATATA TATATATATATATATATATATAT	GGGTTGGGATATGTTA GCAAAA	GTCCAAACCCAGCACA ATCT	60.0	192	INTERGENIC	--	--	--
scaffold4041_P2_15546	scaffold4041	15546	TTATATATATATATATATATATATATATA T/TTATATATATATATATATATATAT	AGATTGTCTGGGTTT GGAC	AAGGAAATGAGGAAAA TGGGA	59.8	803	INTERGENIC	--	--	--
scaffold4041_P2_15702	scaffold4041	15702	T/TG	AGGAATTGGATCGGGA GATT	AAGGAAATGAGGAAAA TGGGA	59.8	626	INTERGENIC	--	--	--
scaffold4041_P2_15753	scaffold4041	15753	TAAAAAAAA/TAAAAAAAAAAAAA	AGGAATTGGATCGGGA GATT	AAGGAAATGAGGAAAA TGGGA	59.8	626	INTERGENIC	--	--	--
scaffold4041_P2_15867	scaffold4041	15867	AT/ATT	GGGTTGGGATATGTTA GCAAAA	GAATGCGAAAGCCACA ATTT	60.1	851	INTERGENIC	--	--	--
scaffold4041_P2_15956	scaffold4041	15956	TAAAAAAAA/TAAAAAA	TCCCATTTTCTCATTT CCTT	GAATGCGAAAGCCACA ATTT	60.1	493	INTERGENIC	--	--	--
scaffold4041_P2_16171	scaffold4041	16171	AAA/AAATTAA	GGCACGTCCTTATTTT GAA	GAATGCGAAAGCCACA ATTT	60.1	345	INTERGENIC	--	--	--
scaffold4041_P2_39114	scaffold4041	39114	A/AAG	GTGTGGTGGACGAACC TTTT	CGTGTCCTCAAACCTCG AGGA	59.0	769	INTERGENIC	--	--	--
scaffold4041_P2_994	scaffold4041	994	CT/CTTT	TCATTCTAATTCCTGCC TGATG	GTCCAAACCCAGCACA ATCT	60.0	494	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4045_P2_1604	scaffold4045	1604	GTTT/GTTTT	CACAACGCCAAGATGC TAGA	CCCCCTTTTGCATAAG TGA	59.9	779	INTERGENIC	--	--	--
scaffold4064_P2_1246	scaffold4064	1246	ATTTT/ATTTTT	TATGCATGCGACAAG AGTC	GTGTTGCACTGCATGC TTTT	59.9	277	INTERGENIC	--	--	--
scaffold4064_P2_1366	scaffold4064	1366	TTAT/TT	AAAAGCATGCAGTGCA ACAC	TCCCGTCTGAAAATTAT GGC	59.9	367	INTERGENIC	--	--	--
scaffold4064_P2_2033	scaffold4064	2033	ATTTTTTTT/ATTTTTTTTT	CTGCAAAATGAGTGCC TTGA	AGGTTTCTTTGGCCC ACTT	60.0	349	INTERGENIC	--	--	--
scaffold4064_P2_3461	scaffold4064	3461	ATTTTTT/ATTTTTTT	GGGCAAGTGAACATGG TCTT	CAATGGCGACTTAACC CACT	60.0	383	INTERGENIC	--	--	--
scaffold4064_P2_835	scaffold4064	835	AT/ATTAGT	ATGCTCTGCACTTGCA GCTA	TGACTTGACTCTTGCC GCA	60.6	581	INTERGENIC	--	--	--
scaffold4069_P2_1182	scaffold4069	1182	AATATATATATATATATA/AATATATAT ATATATATA	AACCGACACTCAACCA CTC	TTTGAAGGAACCCGTC TTTG	60.2	260	INTERGENIC	--	--	--
scaffold408_P2_130988	scaffold408	130988	T/TG	GTGGTGATATTTGGGA AGCC	TCGTGGTTTTGGTGTT GGTA	59.9	662	INTERGENIC	--	--	--
scaffold408_P2_131029	scaffold408	131029	A/AAG	GTGGTGATATTTGGGA AGCC	TCGTGGTTTTGGTGTT GGTA	59.9	662	INTERGENIC	--	--	--
scaffold408_P2_20464	scaffold408	20464	CCGATTAG/C	ACACATGTGAAAACAG GGA	AACAATTTTGGCTGCA CAAC	60.0	680	INTERGENIC	--	--	--
scaffold408_P2_3361	scaffold408	3361	T/TGTTGA	CAAGGAGGAGCAAGAT CAGG	GGGAAAGCGGACGTGT ATTA	60.0	631	INTERGENIC	--	--	--
scaffold408_P2_3569	scaffold408	3569	TCCCC/TCCCCC	TAATACACGTCCGCTTT CCC	CGAACCTGCTGTCCAA AAAT	60.1	394	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4107_P2_2305	scaffold4107	2305	AA/AAATCA	ACCCTAAATCCCATACC CCA	GCGTTTCGGGTTTATG GTTA	59.8	612	INTERGENIC	--	--	--
scaffold4107_P2_9634	scaffold4107	9634	CT/CTAAATT	CCTAAACCTAAACCA AAAACC	TCGTCCAATAAGAACAA AAGTCAA	60.0	127	INTERGENIC	--	--	--
scaffold4108_P2_8749	scaffold4108	8749	CTT/CT	CAAAACCGGAAACGCT TAAC	TTTTGGGCTTCGAGTT AGG	59.3	294	INTERGENIC	--	--	--
scaffold411_P2_193597	scaffold411	193597	CAATAATAATAATAATAATAATAATA ATAATA/CAATAATAATAATAATAATAAT AATAATAATA	TGTTCCGGCTTATTGCAG TTG	AGAGGAGGTGATGGTG ATGG	59.9	482	INTERGENIC	--	--	--
scaffold411_P2_251051	scaffold411	251051	TTTATTATTATTATTATTATTATTATT A/TTTATTATTATTATTATTATTATTATTA TTATTA	CCCTTCTCCTCCGTAG AGC	TTGACACGGTCTGCGT AGTT	59.4	371	INTERGENIC	--	--	--
scaffold411_P2_298521	scaffold411	298521	AT/AGATTGT	CTTGCATGGCAATTATC CAA	TTGGGCTGATGCAATA AACA	60.1	469	INTERGENIC	--	--	--
scaffold411_P2_30975	scaffold411	30975	ATTTTTTTTT/ATTTTTTTTTT	CCACTATCGGGTTTGAA TGC	AATCAAGGCTGGAGAA GAAGT	57.2	222	INTERGENIC	--	--	--
scaffold411_P2_334354	scaffold411	334354	GAA/GA	GAGGTTTCACAGTGCA GCAA	TTCTTAGCCATGCTGG TGTG	59.9	649	INTERGENIC	--	--	--
scaffold411_P2_339806	scaffold411	339806	T/TA	GACAATGTCCCACTT GAGAA	CACGGTTGTGATGACT GGAC	60.0	671	INTERGENIC	--	--	--
scaffold411_P2_340187	scaffold411	340187	TAAAA/TAAAA	ATTGGTGTGTGCAGG TGAA	CACGGTTGTGATGACT GGAC	60.0	109	INTERGENIC	--	--	--
scaffold411_P2_343473	scaffold411	343473	A/AGTG	TCATTTTCATGAAGACC AAACA	TCATTTGACCATCAAT CCA	59.9	462	INTERGENIC	--	--	--
scaffold411_P2_431384	scaffold411	431384	AATATATATATATATATATAT/AAATA TATATATATATATAT	GCTTTTGAGCTTATATT GCATAGC	TTCCATCGACTGAACC ACAA	60.1	547	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold411_P2_436040	scaffold411	436040	CATA/CATATA	ACCCGAATACCTCAAG GGTC	TCGTTTATTCGGATTCTC	60.2	922	INTERGENIC	--	--	--
scaffold411_P2_75082	scaffold411	75082	ATTTTTTTTTTTT/ATTTTTTTTTTTTTT T	TGGGAGTCGAATCGAG AAAG	GATGAAATTCACCCCA ATCG	60.1	599	INTERGENIC	--	--	--
scaffold411_P2_75811	scaffold411	75811	AGG/AG	CTTAACGCAGCGGTAT GTGA	CAAGCAGTGCCCATAT TTCA	59.7	892	INTERGENIC	--	--	--
scaffold4118_P2_15621	scaffold4118	15621	ATT/AT	AGGTCAATTTTCGTCTCCT CCT	GATGCACAAGATTGGC TGAA	59.8	765	INTERGENIC	--	--	--
scaffold413_P2_6690	scaffold413	6690	TA/T	ACACGGAAACCGAAAA ACAG	GGTCCAGATGAAATCG AGGA	60.0	790	INTERGENIC	--	--	--
scaffold414_P2_21975	scaffold414	21975	GAAAAA/GAAAA	TTCTATTGCTCACCCC TTG	GAAAAACAAGACCCGC GATA	60.1	516	DRR	Ca_27849	--	--
scaffold415_P2_1012	scaffold415	1012	TTG/T	GGCTAGCAATGGTCT GAGC	AGGAAGAGTGGAGTTG CGAA	60.0	600	INTERGENIC	--	--	--
scaffold4155_P2_7060	scaffold4155	7060	AATATATAT/AATATATATAT	CGGTTCAACGTAACCG ACTT	TTGGGCAACAATCGAT GTAA	59.9	402	INTERGENIC	--	--	--
scaffold4176_P2_6646	scaffold4176	6646	C/CG	TATGAAAAATCGCCCGAA AAG	AAATCTGACACGGAAC CCAG	60.0	705	INTERGENIC	--	--	--
scaffold418_P2_106867	scaffold418	106867	TTGACT/TT	TTGGGCAACAAACATAT CCA	CCCCAAAATCTTGAGC GGA	60.1	418	INTERGENIC	--	--	--
scaffold418_P2_106923	scaffold418	106923	CAAAAAAAAAA/CAAAAAAAAAA	TTGGGCAACAAACATAT CCA	GGAAGCCATCCCAACG TAT	59.8	771	INTERGENIC	--	--	--
scaffold418_P2_135556	scaffold418	135556	GTCTCT/GTCT	CCAGGAGGATGGAATG GTAA	TCGTTCACTGCTCGAA TGTC	60.0	303	INTRON	Ca_24678	G	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold419_P2_148627	scaffold419	148627	CA/CAA	AACAAGCAAGCCATTC AGC	GGTGAGGATCTGGTG GGTT	59.8	657	INTERGENIC	--	--	--
scaffold419_P2_158386	scaffold419	158386	TACTCA/TA	AAAATTGTCGCGTTAT GCC	TCCCATTTCCTTATCA GCG	60.0	263	INTRON	Ca_26399	U	--
scaffold419_P2_297812	scaffold419	297812	CTTTTTTTTT/CTTTTTTTTT	GCCATTTTGGATCAAAA CACTC	TTTCCGACTTGGTCC TTTA	59.5	556	INTERGENIC	--	--	--
scaffold419_P2_335182	scaffold419	335182	TAAAAAAAAA/TAAAAAAAAA	GGGCATTTTCAACAAG GTG	ATGTTCCAACAATCTCC CCA	60.2	457	INTERGENIC	--	--	--
scaffold419_P2_88262	scaffold419	88262	CTATATATATATATATATAT/CTATATA TATATATATATATAT	AATCAAGTGGATTG GTGG	CAAGCACGGGAATGAG TTTT	60.1	724	INTERGENIC	--	--	--
scaffold419_P2_88835	scaffold419	88835	TAAAAAAAAA/TAAAAAAAAA	AAAACCTATCCCGTGC TTG	GGCAGTTGCAATGGTT TCTT	60.1	494	INTERGENIC	--	--	--
scaffold4192_P2_3302	scaffold4192	3302	C/CGATTGGTAAATCGA	AGGGAGGACGAAAATG ACCT	CGATTGCCTCAAACCT GGAT	60.1	724	INTERGENIC	--	--	--
scaffold4192_P2_3668	scaffold4192	3668	T/TC	ATCCAAGTTGAGGCAA TCG	CGATTTTCGAGGTCT TGTT	60.2	484	INTERGENIC	--	--	--
scaffold4192_P2_3800	scaffold4192	3800	CAATCGAT/CAATCGATCGACGAATCGA T	ATCCAAGTTGAGGCAA TCG	GGGCAATGAATGTTG TGTTG	59.8	673	INTERGENIC	--	--	--
scaffold4197_P2_16348	scaffold4197	16348	GAAA/GAA	AATGGCCACGAATCTG AAAG	GTGCGGAAGCCATGAG TAAT	60.1	483	INTERGENIC	--	--	--
scaffold4197_P2_22811	scaffold4197	22811	AGTG/AGTGTG	AAACCATTGGCGAAATT CTG	CTCACATCTGTGCTTTG CGA	60.3	710	INTERGENIC	--	--	--
scaffold4197_P2_23232	scaffold4197	23232	TTTTATTT/TTTT	TGTTTCGCAAAGCAGA GATG	TTTCAAACCGAAATCC AAAA	59.4	288	DRR	Ca_27295	O	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4197_P2_27575	scaffold4197	27575	CAT/CATAT	ATGCAAAGTTTGTTC CCC	TTGATCAGGATTGCCA GATG	59.6	772	CDS (FRAME SHIFT)	Ca_27295	O	--
scaffold4197_P2_28820	scaffold4197	28820	TAAAAAAAAA/TAAAAAAAAA	TGTAGCCTCTAAGCACT GCG	AAGGGACAGGGGTA ATGG	60.0	572	INTRON	Ca_27295	O	--
scaffold4197_P2_33078	scaffold4197	33078	C/CCTT	GGCCAGTCAGTGCTT CTTC	CATTGCAGGGTCAAC TTTT	60.0	862	INTERGENIC	--	--	--
scaffold4197_P2_38400	scaffold4197	38400	AATATA/AATA	GGCCTGGGTATGGT TAAT	AAATTGAGTTTCAAA CACCAA	59.8	830	DRR	Ca_27296	--	--
scaffold4197_P2_51659	scaffold4197	51659	ATTTTTTTTT/ATTTTTTTTT	TTTGACCAAACTCATT TGCAC	TGATGGTTTACAAAGT GAAACAAA	59.8	346	INTERGENIC	--	--	--
scaffold4197_P2_56545	scaffold4197	56545	GAAA/GAAAA	TCCAGATGAAATCGAG GACC	TATTTTCGGACCAGAC GAGG	60.1	606	INTERGENIC	--	--	--
scaffold4197_P2_79003	scaffold4197	79003	AGTT/A	CCTCTGAATTTGAGG CAA	GCACGATTCACGATG TTTA	59.5	317	INTERGENIC	--	--	--
scaffold4197_P2_81244	scaffold4197	81244	CTTTTTTT/CTTTTTTTTT	CGTTACCGTGAACCA CTCT	TATGCCCTTAGGAAT GTGC	59.9	431	INTERGENIC	--	--	--
scaffold420_P2_109389	scaffold420	109389	TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT/TTTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATT	CCCAATCCCTAACATG TGG	GTTGTCCATTGTTTGC GTG	60.0	520	INTERGENIC	--	--	--
scaffold420_P2_156465	scaffold420	156465	TTATATATATATAT/TTATATATATATA TATAT	TATGTCCTTCACACT CGG	CTGGATTTGCACTCT GCCT	60.4	411	INTERGENIC	--	--	--
scaffold420_P2_224250	scaffold420	224250	AATGCA/AATGCATGCA	TCGATTGACATTACCA GCA	TGGGAAATTTCTTTCAT GGC	59.9	417	DRR	Ca_22201	R	MYB
scaffold420_P2_249628	scaffold420	249628	AT/A	AAGCCACATTTGGGTC AAG	TGGGGTAGGTTTTGT TTGC	59.8	291	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold420_P2_265273	scaffold420	265273	GAAAAAAAA/GAAAAAAAA	CGTGATCGTGTGGT GTC	GGGAATGGCAGCAAT AGAA	60.0	587	INTERGENIC	--	--	--
scaffold420_P2_69655	scaffold420	69655	CAA/CAA	ATGGCGAAGAATTATG GTGC	CATGTACCGCCCATCT CTTT	60.0	265	INTERGENIC	--	--	--
scaffold420_P2_85641	scaffold420	85641	AATTATAATTATA/AA	ACGCGTTCATGCACTA CAAG	GATGGTGTGAGTGGAG CTGA	59.8	982	INTERGENIC	--	--	--
scaffold420_P2_86760	scaffold420	86760	GATCAT/GAT	TGTTGCTAGGCAGAGT GTGG	AGAAAGGTCCAACCG CTAT	60.0	415	DRR	Ca_22197	--	--
scaffold420_P2_93852	scaffold420	93852	CAAAAAAAAAAAAAAAAA/CAAAAAAAAA AAAAAA	ATAATCTCCCATTTTCG GGC	GAACCCCTTTAAGAGG ACCG	59.9	249	INTERGENIC	--	--	--
scaffold4221_P2_54085	scaffold4221	54085	AG/A	TGACACCAATAAATG GGAGA	CAAATAACGATTCGG GCTC	59.5	628	INTERGENIC	--	--	--
scaffold4221_P2_54414	scaffold4221	54414	GTTTTTTTTTTTT/GTTTTTTTTTT	GAGCCCGAATCGTTATT TTG	TTGTGGTATACCCGAC AAAGAA	59.4	695	INTERGENIC	--	--	--
scaffold4221_P2_54516	scaffold4221	54516	A/ATTTAGGG	GAGCCCGAATCGTTATT TTG	TTGTGGTATACCCGAC AAAGAA	59.4	695	INTERGENIC	--	--	--
scaffold4221_P2_54616	scaffold4221	54616	CAATAATAATAATAATAATAATAATA ATAATAATAGTAATAATAATAATAA/C AATAATAATAATAATAATAATAATAA TAGTAATAATAATAATAATA	GAGCCCGAATCGTTATT TTG	TTGTGGTATACCCGAC AAAGAA	59.4	695	INTERGENIC	--	--	--
scaffold4221_P2_569	scaffold4221	569	AAAGAA/AAA	ATTGATTTGAAATCGC CCA	CAGTTTCTGCCAGCC TTAG	60.0	441	INTERGENIC	--	--	--
scaffold4221_P2_691	scaffold4221	691	A/AG	CTAAGGCTGGCAGGAA ACTG	CGCTTCTTGGTCATG CAA	60.9	443	INTERGENIC	--	--	--
scaffold4221_P2_7762	scaffold4221	7762	TAAAA/TAAAA	TGCCAGAACTGATTTTC TGCT	GAGCGCTGTAAACAC CTCC	59.9	540	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold423_P2_23355	scaffold423	23355	GT/GTCTAT	ATGCAATGCGTATATG CAA	TGCCATGTGATCTGT GGTT	60.0	481	INTERGENIC	--	--	--
scaffold4234_P2_9784	scaffold4234	9784	ATTTTTTTTTTTT/ATTTTTTTTTTT	CACCCATGGTTGCTTCT TTT	TGCACATCTTGCTGCTG TTGA	60.0	433	DRR	Ca_27788	--	G2-like
scaffold424_P2_29738	scaffold424	29738	T/TA	ACTCGACAAAAATGGAA CGG	CTTTTGGCCTATTAGC GTCG	59.9	496	DRR	Ca_27938	L	bHLH
scaffold424_P2_43595	scaffold424	43595	GATATATATATATATATATATATAT ATATATATATA/GATATATATATATAT ATATATATATATATATA	GAATTCAAAAATAAGG ATCATCA	TAGTTTGTAAACCCGTG CAGC	58.8	299	INTERGENIC	--	--	--
scaffold4243_P2_1042	scaffold4243	1042	CGG/CG	GGTACGGAAATTGCCT GAAA	GGTCCTCGATTTCATCT GGA	60.0	204	INTERGENIC	--	--	--
scaffold4243_P2_14917	scaffold4243	14917	CT/CTT	TGCTTGATTGCTTGAGT TCC	GATGAAATCGAGGACT GGGA	60.0	537	INTERGENIC	--	--	--
scaffold4243_P2_16781	scaffold4243	16781	CTTTTTT/CTTTTT	TTTCATCTGGACTTTTC GGG	TCGAGGATAGGGAGAC CCTT	60.0	964	INTERGENIC	--	--	--
scaffold4243_P2_17714	scaffold4243	17714	TAA/TAAA	AGGCGATTTTCGTACCA CAC	AAACCGTGTTTCGGTTT CTG	60.0	589	INTERGENIC	--	--	--
scaffold4243_P2_17936	scaffold4243	17936	TAAA/TAAAA	TGGAAATCTTATGCGGA ACC	AAACCGTGTTTCGGTTT CTG	60.0	195	INTERGENIC	--	--	--
scaffold4243_P2_7493	scaffold4243	7493	GAAAAA/GAAAAA	AGCGTCACAGCCTATC CATC	AAGAAAAACAAGACAC GCGA	58.6	468	INTERGENIC	--	--	--
scaffold4244_P2_559	scaffold4244	559	TAA/TAAA	CCCAGTCCCAAGAGT CAAA	GGAACGCATTCTCGT GTTT	60.1	122	INTERGENIC	--	--	--
scaffold4257_P2_4767	scaffold4257	4767	GGGGTGAGGGTGAGGGTGA/GGGGTG AGGGTGA	GTGATGCTCTTGGGGA TGTT	TTCATTGGTCTTTGGG AACC	59.8	370	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4257_P2_4831	scaffold4257	4831	GAAAAAAAA/GAAAAAAAAA	GTGATGCTCTTGGGA TGTT	TTCATTGGTCTTTGG AACC	59.8	370	INTERGENIC	--	--	--
scaffold4263_P2_16861	scaffold4263	16861	CTTTTT/CTTTT	GCAACCGTGCACCTT TAAT	TGAAAAGCGAAAGAT TGCT	60.0	446	INTRON	Ca_27290	YU	--
scaffold4269_P2_30360	scaffold4269	30360	ATTTTTTT/ATTTTTTTTT	ATAACCCGAACCTCAAA CCC	TAGGCGATTTTCGTAC CACC	60.0	369	INTERGENIC	--	--	--
scaffold4284_P2_4325	scaffold4284	4325	CTTTTTTTTT/CTTTTTTTTT	TTTTTCTTAACACAAGC GAACA	TTCTCTATGATGGTTT CCCG	59.0	610	INTERGENIC	--	--	--
scaffold429_P2_10764	scaffold429	10764	GAAACAGATTGGTTAAAC/GAAAC	GGAGGATCCAAATGTC CAAA	GGCATTTCGTCCTCT CTTG	59.8	516	INTERGENIC	--	--	--
scaffold429_P2_156361	scaffold429	156361	GA/GAGGACA	GGGGCAATCTTCTCTAA CCC	CCAATCTTGTCATCC AATG	59.9	697	INTERGENIC	--	--	--
scaffold429_P2_176809	scaffold429	176809	TG/T	TGGGTGCACTATGGA CTAGAA	CAATGCATCATAGAA AAACAGA	59.1	309	INTERGENIC	--	--	--
scaffold429_P2_23598	scaffold429	23598	CTTTTT/CTTTTTT	AGGCAATCGATTACCA AGC	TCCAGCTTCCTGAAG CCTA	60.1	495	INTERGENIC	--	--	--
scaffold429_P2_33115	scaffold429	33115	TAAAAA/TAAAAAA	AATTAGCGTGTGATTC GGG	AATCCTGGTGCACGAT TTTC	59.9	720	INTERGENIC	--	--	--
scaffold429_P2_83151	scaffold429	83151	A/ATTGGAC	CCGATGGACAAGAATA AGCC	TCAATTACGTCCTCTTG GGG	59.9	958	INTERGENIC	--	--	--
scaffold4296_P2_1777	scaffold4296	1777	GTT/GT	TTGGATGCACAAGATT GTT	TTTCGCTTTCAGAACAT CAG	60.0	393	INTERGENIC	--	--	--
scaffold4319_P2_1139	scaffold4319	1139	ATTT/AT	CGATTTCCCTCACGACA AAT	TTTTGGACAGCTACAA GTGGTT	58.8	582	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4319_P2_1189	scaffold4319	1189	A/AGTCAAAT	CGATTTCCCTCACGACA AAT	TTTTGGACAGCTACAA GTGGTT	58.8	582	INTERGENIC	--	--	--
scaffold4319_P2_1245	scaffold4319	1245	TAAAAA/TAAAA	CGATTTCCCTCACGACA AAT	TTTTGGACAGCTACAA GTGGTT	58.8	582	INTERGENIC	--	--	--
scaffold432_P2_6402	scaffold432	6402	GGTCC/GGTCCATTTTGTCC	TCCAGATGAAATCGAG GACC	ATTTTCGAACAAAACGA CGG	60.0	594	INTERGENIC	--	--	--
scaffold433_P2_12663	scaffold433	12663	TACATAAAAACATAAAA/TACATAAA AA	TGGTCTAAGAATGCTG GGG	TGCCCAAAATGAAGTG TGTA	60.0	525	DRR	Ca_26817	--	--
scaffold433_P2_13006	scaffold433	13006	C/CG	TACACACTTCATTTGGG GCA	AGGTTTTCAACCTAGC GGT	60.0	476	DRR	Ca_26817	--	--
scaffold433_P2_142842	scaffold433	142842	ATTTTTTT/ATTTTTTTT	TGGTTGAAAACCCATT TGT	TCTAGGCCGTATTTTG CCAC	60.1	758	INTERGENIC	--	--	--
scaffold433_P2_144718	scaffold433	144718	GCC/GCCC	TGGCTAATCGCCAGTT TCT	AATGATCGTCTTCGGA TTGC	60.0	854	INTERGENIC	--	--	--
scaffold433_P2_146170	scaffold433	146170	TAAAAA/TAAAAA	GTTGCCAAGCAGGGT AAAA	TGAAACGGATTTCAAC CAA	59.0	434	INTERGENIC	--	--	--
scaffold433_P2_146841	scaffold433	146841	AATTATTATTATTATTATTATT/A ATTATTATTATTATTATT	TGGTGACAATTTGATGG TTCT	CAGTGCATGGAGAAA TCAA	59.8	523	INTERGENIC	--	--	--
scaffold433_P2_147086	scaffold433	147086	ATTTTTTTT/ATTTTTTTTTT	TGGTGACAATTTGATGG TTCT	TCGATTATGCGTAGGG AAGG	60.1	770	INTERGENIC	--	--	--
scaffold433_P2_147750	scaffold433	147750	TTTTATTTTAT/TTTTATTTATTTAT	TTTATGCGGATGTCGA GGG	TCACAAGGAGGCTTT ATGG	60.1	717	INTERGENIC	--	--	--
scaffold433_P2_157672	scaffold433	157672	GATATATA/GATATA	GCATTTCAAGATGGGC AGTT	AATGATCGTCTTCGGA TTGG	59.9	714	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold433_P2_160222	scaffold433	160222	TTATTA/TTATTAATATTA	TTGCACTGGTATGGTT CCA	TTGCTCCTACGTATCTC CCG	60.2	804	INTERGENIC	--	--	--
scaffold433_P2_163941	scaffold433	163941	A/AAT	TGCTCTGCTCCTGCATGA ATC	TGGATACCTCTCATGG TGGAG	59.9	649	INTERGENIC	--	--	--
scaffold433_P2_165941	scaffold433	165941	A/AG	AAAATTGAAACATCCGA CGC	ACTTGTCTGGACGCA ATCT	59.9	512	DRR	Ca_26821	--	--
scaffold433_P2_166848	scaffold433	166848	C/CT	TGGGAATGTTGTGTAA GCGA	TGCAATGGATGAAATG GTGT	59.8	691	INTRON	Ca_26821	--	--
scaffold433_P2_18841	scaffold433	18841	TAAAAAAAAA/TAAAAAAAAA	CGGCGATAGAAAGCCT ACTG	ATGCAAGGTGGGTGCT AAAG	60.1	371	INTERGENIC	--	--	--
scaffold433_P2_47351	scaffold433	47351	AAAAA/AAAAACAAA	GAGGCGTCAAGCTAAT GACC	AAGCTCAAATGGGCTA GCAA	60.0	530	INTERGENIC	--	--	--
scaffold433_P2_55830	scaffold433	55830	G/GT	GCCAATCGATTACCTC AAA	AAATGTGCAACTTTG GAGC	60.3	855	INTERGENIC	--	--	--
scaffold433_P2_69968	scaffold433	69968	CAAAAAAAAA/CAAAAAAAAA	GTGGTAAGGAACAAG CCCA	AAACACTCACCGACGT ACCC	59.9	771	INTERGENIC	--	--	--
scaffold433_P2_74147	scaffold433	74147	TTATATATATATA/TTATATATATATAT ATA	GCAGCCGTTCTCTTTG TTC	ACGTTGTCGACATTC ATCA	60.0	709	INTERGENIC	--	--	--
scaffold433_P2_74324	scaffold433	74324	G/GATACGA	GTGGGTTCTATTGGGG GAGT	ACGTTGTCGACATTC ATCA	60.0	570	INTERGENIC	--	--	--
scaffold433_P2_78104	scaffold433	78104	CGG/CGGG	TTTGGATTTTGACTCGG AGG	CGAAAATGAAAACGGG AGAA	60.0	435	INTERGENIC	--	--	--
scaffold433_P2_8383	scaffold433	8383	GAAAAAAAAA/GAAAAAAAAA	ACATGTAAGGCAAGGC CAAC	GCCAGTCACCCCAACT TTTA	60.0	377	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold433_P2_86247	scaffold433	86247	GTTT/GTT	GCCCTCAGATGAGAT CAGG	AGAATTTACGAGCAGC GGAA	60.0	287	INTERGENIC	--	--	--
scaffold433_P2_98245	scaffold433	98245	CTAACTTAACCTTA/CTAACTTA	CAAGATCCAGTTGTCC CGT	CGCATGGAGGAGAAAG GATA	60.2	266	INTERGENIC	--	--	--
scaffold4331_P2_1786	scaffold4331	1786	ATT/A	CCTTGTGTGTCTTGGG TTGA	AGAAGCAATGGCTCGA AGAA	60.1	528	INTERGENIC	--	--	--
scaffold4349_P2_1831	scaffold4349	1831	GTTTT/GTTT	AGGTCATTTTCGTCTC CCT	CAAACACACCTGTTGG ATGC	60.0	182	INTERGENIC	--	--	--
scaffold435_P2_46548	scaffold435	46548	TATAATAATAATAATAAT/TATAATAA TAATAATAAT	ATCCATCTTGGTCCCT CTT	TTGGCGAAACAAACAC ACTC	59.7	429	DRR	Ca_26260	--	--
scaffold435_P2_6490	scaffold435	6490	TTATATATATATATATA/TTATATATAT ATATATA	GGAAATGAACCCATCC AACA	ACCCACCTTATGAATTG CCA	60.2	725	INTERGENIC	--	--	--
scaffold436_P2_67143	scaffold436	67143	A/AC	CAAACACACCTGTTGGA TGC	AGGTCATTTTCGTCTC CCT	59.9	478	INTERGENIC	--	--	--
scaffold436_P2_68438	scaffold436	68438	A/AT	GGCCGGATGAAAATGA ACTA	ATTTTCGTCTCCAAG GCT	60.1	513	INTERGENIC	--	--	--
scaffold4366_P2_1890	scaffold4366	1890	G/GC	GGACATGAATAGGGCA ATGG	GGTCATTTTGTCCAC GCTT	60.0	532	INTERGENIC	--	--	--
scaffold4366_P2_635	scaffold4366	635	A/AG	ATGCACAGATTGGTG AAAA	TCATTTTCGTCTCCA AGG	60.0	757	INTERGENIC	--	--	--
scaffold4367_P2_11881	scaffold4367	11881	CTAAAAATTAAAAATTAA/CTAAAAATTA A	TGGATGCACAAGATGG GTTA	ATTTTCATCCTCCAAG GCT	59.9	351	INTERGENIC	--	--	--
scaffold437_P2_11434	scaffold437	11434	TATGG/TATGGGTGAAATGG	ACAATCCCCCAAATGTC AAA	GTTGGTTCCTAGCAC CGTA	60.0	841	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold437_P2_2817	scaffold437	2817	ACCC/ACC	CCTGCTTTCCAAACCA TGT	TGGCACAGTTCCAAGA TCAA	60.2	507	INTERGENIC	--	--	--
scaffold437_P2_45718	scaffold437	45718	CAATATTAATAATTAATA/CAATATTA AAAAATATTAATAATTAATAATAATTA A	TCGAAGAGGACCATTC ATCA	AGGTCGCACTCCAAT ATCG	60.1	777	INTERGENIC	--	--	--
scaffold4374_P2_1159	scaffold4374	1159	CTAAACC/CTAAACCATAAACC	TAAACCCCAATGACCG AAA	AGGGGTTAGGGGTTAG GGTT	59.9	444	INTERGENIC	--	--	--
scaffold4374_P2_728	scaffold4374	728	GCCTAAACCCTAAACCCTAA/GCCTAA CCCTAA	ATAAACCCGAACCGCAA AAC	AGGGTTTAGGGTTTAG GCCA	59.8	848	INTERGENIC	--	--	--
scaffold4374_P2_888	scaffold4374	888	ACCTAAACCCTAAACCCTAAACCTAA /ACCTAAACCCTAAACCCTAA	TAAACCCCAATGACCG AAA	AGGGGTTAGGGGTTAG GGTT	59.9	444	INTERGENIC	--	--	--
scaffold4377_P2_36152	scaffold4377	36152	ATTTT/ATTT	TCCAGATGAAATCGAG GACC	AAAGTTTGACTGCATAA CGAAGA	58.1	845	INTERGENIC	--	--	--
scaffold4377_P2_6572	scaffold4377	6572	AA/AAGA	TCCAGATGAAATCGAG GACC	AGGCGATTTTCGTACC ACAC	60.0	319	INTERGENIC	--	--	--
scaffold438_P2_46768	scaffold438	46768	TCTCTTCCCTCTTCCCTCTT/TCTCTT TCCCTCTT	TTCCAAATGGAAGCCTC ATC	GGGCTGTGGAGTTTGT GTTA	60.0	763	INTERGENIC	--	--	--
scaffold438_P2_76939	scaffold438	76939	ATTT/ATT	TACGGTGCTAGGGAAC CAAC	TTCCCCCAATCAACAC TTC	59.8	196	INTERGENIC	--	--	--
scaffold4383_P2_25907	scaffold4383	25907	TATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATA ATAATAATAA/TATAATAATAATAATA AATAATAATAATAATAATAATAATAA TAATAATAATAA	TGATCTCTAACGGACCA CCC	TCATGTGCTTTTACTGC CCA	60.3	781	INTRON	Ca_28195	--	--
scaffold4387_P2_5507	scaffold4387	5507	ATAGTATA/ATAGTATAGCTAGTATA	GCACAAAAACCTTATCC CCA	AAATGCTCGCCTCTTTT TGA	60.0	311	INTERGENIC	--	--	--
scaffold4387_P2_5640	scaffold4387	5640	T/TCTCTTC	TCAAAAAGAGGCGAGC ATTT	GGCGATTGTGGAAGA CAGT	60.1	191	INTRON	Ca_27838	U	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4397_P2_932	scaffold4397	932	TAAAAAA/TAAAAA	GTCAGGCAGACCAGA AAGC	GAACGACGGTGATGCC TACT	60.1	168	INTERGENIC	--	--	--
scaffold44_P2_185853	scaffold44	185853	GAAAAA/GAAAAA	AATGCGTTACGGGAGA AATG	CACCGTAGTGTGGTGG TGAG	60.1	494	INTERGENIC	--	--	--
scaffold44_P2_290551	scaffold44	290551	TTTA/TTTACAATTA	AACCAAGAGGCTTTC GTCA	GGAGCAGTTTCTTGCC GTAG	60.0	705	DRR	Ca_25417	--	--
scaffold440_P2_30262	scaffold440	30262	CAAAA/CAAA	ACCAAAATAAGCCAG GGAG	TTGCCATTGCATGAAC ATTT	59.9	354	INTERGENIC	--	--	--
scaffold440_P2_43723	scaffold440	43723	CTT/CTTT	ATTGGCAAATCGATTCA TGC	ATTTGGTCCTCCCTAC GCT	60.0	756	INTERGENIC	--	--	--
scaffold442_P2_20594	scaffold442	20594	TGGGGGGGG/TGGGGGGG	TGGACGCACAAGATTG GTTA	AGGTCATTTTCGTCCTC CCT	59.9	370	INTERGENIC	--	--	--
scaffold442_P2_42757	scaffold442	42757	TA/T	ACACACCTATTGGACG CACA	ATTTGGCCACAAGCTC AAAG	60.2	888	INTERGENIC	--	--	--
scaffold4452_P2_13113	scaffold4452	13113	ATTTTTT/ATTTTTTT	CAGGGATGTAAACCAA ACAAAA	TGGTCTGACCCATTTT GACA	59.9	633	INTERGENIC	--	--	--
scaffold4452_P2_13286	scaffold4452	13286	TAAAAAAA/TAAAAAAA	CAGGGATGTAAACCAA ACAAAA	TGGTCTGACCCATTTT GACA	59.9	633	INTERGENIC	--	--	--
scaffold446_P2_163582	scaffold446	163582	CAAATGAAATTTAAA/CAAATGAAATT TAAATGAAATTTAAA	TTGCATCATGCTATTTCC CCA	ACATAACTTTGTGGGC CAGC	60.0	685	INTERGENIC	--	--	--
scaffold446_P2_219694	scaffold446	219694	GGT/GGTGT	TCCAGTCCTCGATTT ATC	CGGGTTATGCGTCAGA TTTT	60.0	699	INTERGENIC	--	--	--
scaffold446_P2_224556	scaffold446	224556	AAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA TAATAATAATAATAATA	TTCATCTGGTCTTTTGG GCG	CATTGAGTACAACATA AAACGACG	60.0	771	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold446_P2_234701	scaffold446	234701	CAAAA/CAAAA	TTGGGCGATTTTCTAC CAC	TCTTCGTTATGCAGTCA AACTTTA	58.2	689	INTERGENIC	--	--	--
scaffold446_P2_235656	scaffold446	235656	TAA/TA	TCTGACAACTCAATTT GCTCTATG	GTTGTACTTCATAACGA ACACAATACT	57.1	521	INTERGENIC	--	--	--
scaffold446_P2_261035	scaffold446	261035	TAACA/TAACAACA	TTCGTTTTGATGTTGTA CTTACTTACG	GGGTTTCGGTTTTAAG GCTC	59.9	434	INTERGENIC	--	--	--
scaffold446_P2_66649	scaffold446	66649	GT/G	TCCACCCCTATATGCA GTC	ACAGGCCAGACCATGA TAGG	60.0	594	INTERGENIC	--	--	--
scaffold446_P2_93736	scaffold446	93736	TAAAGAAA/TAAAGAAAAAGAAA	ATGAAGATGGCGACTA TGGC	TAATAAAATGAGGCGG TGGC	59.9	332	CDS (large-effect mutations)	Ca_26828	--	--
scaffold450_P2_10838	scaffold450	10838	CAAAAAAAAA/CAAAAAAAAA	AGGCATCCACCATTTTG AAC	CGGACGCATACATCAA ACAC	60.0	755	INTERGENIC	--	--	--
scaffold450_P2_108759	scaffold450	108759	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT AT	TTTTTCGAGTAGGTCG GGTG	AGCAAAAGGAAGCAAC GAAA	60.0	620	INTERGENIC	--	--	--
scaffold450_P2_108900	scaffold450	108900	CTT/CTTT	AAAACACAGTTTCCCT CCA	ACGAGCGATTACGGTA CCAC	60.0	348	INTERGENIC	--	--	--
scaffold450_P2_133869	scaffold450	133869	T/TTTTCTTA	CCAATCGATTGCTTAC CGT	GGATGCTCAAGACAG TGAA	59.8	438	INTERGENIC	--	--	--
scaffold450_P2_207073	scaffold450	207073	AATATATATATATATATA/AATATATAT ATATATATATATA	TTCAAAATAGGTGAGGTT CCGA	TTGCCGGTATGCTATA AGGA	58.3	701	INTERGENIC	--	--	--
scaffold450_P2_211564	scaffold450	211564	TAAAA/TAA	TGATTATGCGTGCCATA CACT	TGCACCGGGTTAATA AAAA	60.2	748	INTERGENIC	--	--	--
scaffold450_P2_247899	scaffold450	247899	CG/C	TTTGAAGCACGTCCAAC TCA	GTATTTGGCCGACGCT ATGT	60.0	808	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold450_P2_255127	scaffold450	255127	GAAAAAAAAA/GAAAAAAAAA	ACGACCCATATTGAGCA AGG	AGTTACGTGGCATGAC CCTC	60.0	528	INTRON	Ca_23798	--	--
scaffold450_P2_299447	scaffold450	299447	ATTTTTTTTT/ATTTTTTTTT	TGCCACTACTAGGCAC TAGCC	TCGCATTGTGATTATTC ACACA	59.1	659	INTERGENIC	--	--	--
scaffold450_P2_299664	scaffold450	299664	AATATATATATATA/AATATATATAT A	TTGCGAGAAAAAGTTGT TTCAA	AAAAATTAACGGTGTTA CGCA	57.4	613	INTERGENIC	--	--	--
scaffold450_P2_322861	scaffold450	322861	TA/T	ACACGTAACATGCAGG TCCA	TTGTTCTCATTAAAGTG TGGATTGA	59.9	283	INTERGENIC	--	--	--
scaffold450_P2_9894	scaffold450	9894	CTTTTTTTTT/CTTTTTTTTT	TCATTGCTTTGGGTGAT TGA	TGGTAACGTGGACGAT TTGA	60.0	597	INTERGENIC	--	--	--
scaffold4508_P2_21691	scaffold4508	21691	AATATATATATATATATATATA/AAT ATATATATATATATATA	CGTTCAGCGTCAATTCT CTG	CCCAACTCCACCACA ATCT	59.8	879	INTERGENIC	--	--	--
scaffold4508_P2_25761	scaffold4508	25761	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	CCAAGAGAGATGCGAC CAAT	CACAATTCGCCACATT GAA	60.5	570	INTERGENIC	--	--	--
scaffold4508_P2_36727	scaffold4508	36727	TAA/TA	TTGTGTTTGTACAGGC CAT	TCAGGAACAACAATC AACCC	60.0	371	INTERGENIC	--	--	--
scaffold4508_P2_4751	scaffold4508	4751	TAAAAAAAAA/TAAAAAAAAA	CCGGAAAACTTCATCC AAA	AGAAAACCGAATTGTC CCTT	59.9	810	INTERGENIC	--	--	--
scaffold451_P2_10137	scaffold451	10137	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATT/ATATTATTATTATT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT	TGTTTCAACAGCTCTT TCTTTT	TGGTGTCTGTGGCAAC ACTT	60.2	574	INTERGENIC	--	--	--
scaffold451_P2_17388	scaffold451	17388	AAGTA/AA	TGCTCAAGATGCACT CAAC	GCCATTGATGAGTACG CTGA	59.8	671	CDS (large-effect mutations)	Ca_22599	--	C3H
scaffold451_P2_235659	scaffold451	235659	AATATATATATATATATATATATAT ATATATAT/AATATATATATATATATAT ATATATAT	ATTCGGAAGGTGTTTTG CAT	TGAAGGTGGCAACAAA TTGA	60.1	616	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold451_P2_246882	scaffold451	246882	CATATATATATATATATATAT/CATATATATATATATATATATAT	TAATCGGGTTCAAAGGCAAC	GCGTAGGCATGAGGGATAAA	60.1	601	INTERGENIC	--	--	--
scaffold451_P2_290438	scaffold451	290438	AG/A	TCTCCTTGTTGGTGCACTTG	TGCACCTTCAATTGGCATTAA	60.1	380	INTERGENIC	--	--	--
scaffold451_P2_30168	scaffold451	30168	TA/TAA	GCAGCCACAAATAAGGTGGT	AACCAAGCCTGAGCTTGAA	60.0	810	INTERGENIC	--	--	--
scaffold451_P2_324149	scaffold451	324149	G/GAAAAACCCCTTATCT	TGAATTCAACGCAAATGATCT	TCAACAAAACCCCTAGCCACC	60.0	162	INTERGENIC	--	--	--
scaffold451_P2_37858	scaffold451	37858	TTATATATATATATAT/TTATATATATATATAT	ACAGCGAACAACCACATCAA	TAAATGCCGATTTCCCAAG	59.9	569	INTERGENIC	--	--	--
scaffold451_P2_393255	scaffold451	393255	AATATATATATATATATATA/AATATATATATATATATATA	TACCCCTTGCTAGCCCCITT	TTGTCAATTGAGTTGCGATAAGA	59.8	363	INTERGENIC	--	--	--
scaffold451_P2_412604	scaffold451	412604	CTATTATTATTATTATTACTATTATTATTATTA/CTATTATTATTATTACTATTATTATTATTA	GATGTGCTAAAACAACGATGTG	GCAAAGTTGTGTGAGATGGC	59.3	464	INTERGENIC	--	--	--
scaffold451_P2_477921	scaffold451	477921	ATAG/ATAGTAG	TGTTGTTGCTGCTATGGACC	TTATGAAGTCGCCGAAGAAGG	60.2	821	INTERGENIC	--	--	--
scaffold451_P2_514062	scaffold451	514062	GTATATATATATATATATATA/GTATATATATATATATATATATATATA	CCTTCAAATATTGGAGAGAACAAA	AAGACCAAATCGGGAGAAAAA	59.9	852	INTERGENIC	--	--	--
scaffold451_P2_64877	scaffold451	64877	GTTG/GTTGAATTATATTG	GCAATCTTTGTGGCACTGAA	TCTCATACTCGCAATTAAACATCA	60.0	560	INTERGENIC	--	--	--
scaffold451_P2_65486	scaffold451	65486	AT/ATT	TGTCGATTATGAGTGATAGGTGG	ACAACCTCTCATGCTCGCAA	59.6	588	INTERGENIC	--	--	--
scaffold451_P2_11167	scaffold451	11167	CATATA/CATA	TGAGTGGTAGGAAATCGCC	TTTCATTGGACTTTTCGGG	59.9	844	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4511_P2_22911	scaffold4511	22911	CAAAAA/CAAAA	CTCCCCCTGAGTTTG GAAT	GACGACAATCACCCGA AGAT	59.9	753	DRR	Ca_28219	--	Trihelix
scaffold4511_P2_22953	scaffold4511	22953	TAAAA/TAAAAA	CTCCCCCTGAGTTTG GAAT	GACGACAATCACCCGA AGAT	59.9	753	DRR	Ca_28219	--	Trihelix
scaffold4511_P2_38356	scaffold4511	38356	GTTTTTTTTT/GTTTTTTTTTTT	AATGCCACCCATAATT TCA	CTGGGCAAGGGATCTG AATA	60.0	642	INTRON	Ca_28219	--	Trihelix
scaffold4515_P2_721	scaffold4515	721	TG/T	GTGTTTGTGTCGTTGG ATGC	ACCTATTGGATGCACA AGCC	60.0	677	INTERGENIC	--	--	--
scaffold453_P2_281880	scaffold453	281880	CATATATATATATATAT/CATATATATAT ATATATAT	GTTGGTTCCTAGCAC CGTA	AACGTGGTATCAGCCC TTTG	60.0	777	INTERGENIC	--	--	--
scaffold453_P2_476431	scaffold453	476431	AATATATATATATATATATATATATAT ATA/AATATATATATATATATATATATA TA	GAGCACGAACTGAAAC ACGA	TCACAGGGAGCTGAGT AGCA	59.7	756	INTERGENIC	--	--	--
scaffold453_P2_497792	scaffold453	497792	CAATAATAATAATA/CAATAATAATA ATAATAATA	GCCGTGATTGGAAAA AGAA	TGTCAGTTTTGAGCCC AATG	59.7	479	URR	Ca_21748	--	--
scaffold453_P2_498751	scaffold453	498751	GATAT/GATATAT	GCCCCCAAAGATAAC CCAT	GACCATGATTTCTTACT AGCCGTT	59.9	838	URR	Ca_21748	--	--
scaffold453_P2_499030	scaffold453	499030	AA/AATAATAATA	GCAAAGGATTGTTGGT AAGAAA	TGCAATTTATGCATTG AAGG	58.7	757	URR	Ca_21748	--	--
scaffold453_P2_503657	scaffold453	503657	TAAA/TAA	GAACATTGCAGAAACG CAGA	CTATTGACGCCTTGCG TGTA	59.9	728	INTERGENIC	--	--	--
scaffold453_P2_504160	scaffold453	504160	TC/T	TACACGCAAGGCGTCA ATAG	GCAAGACAAGAATACC ACTCACA	59.3	334	INTERGENIC	--	--	--
scaffold453_P2_526129	scaffold453	526129	ATTTTT/ATTTTTTT	TCCTCTTAGTTTCGAGG ACGA	TGTCCCTCTTAATTGC ACA	59.1	630	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4647_P2_2085	scaffold4647	2085	TCCCCCCCCCCC/TCCCCCCC	TTTGTCTCCTCCAGG CTT	ATGCACAAGATGTTCA CCCA	60.0	894	INTERGENIC	--	--	--
scaffold466_P2_102412	scaffold466	102412	T/TC	TGTTTGGTCGTGGAAT CGTA	CCCCAGAATCACTAGG CTTG	59.7	819	INTERGENIC	--	--	--
scaffold466_P2_12138	scaffold466	12138	AATATATA/AATATATATA	ATTCAGTTCCTTGCA CAT	TCTCCGCATAAGCTTC GAT	59.9	661	INTERGENIC	--	--	--
scaffold466_P2_125302	scaffold466	125302	TCGAGGGGTACGA/TCGA	ATCGTCTGAAAGTCCC GATG	TTGGACTTCTCGAGCG ATTT	60.0	506	INTERGENIC	--	--	--
scaffold466_P2_164337	scaffold466	164337	T/TCC	AATAGGTCAAGGGTGT TGCG	AGTCTGGAAGCGTC CTCA	60.0	584	DRR	Ca_25699	--	--
scaffold466_P2_164520	scaffold466	164520	CTCT/CTCTCACCCTCT	CCCAAGTCAGACGAAC GATT	AGTCTGGAAGCGTC CTCA	60.0	442	DRR	Ca_25699	--	--
scaffold466_P2_168483	scaffold466	168483	TTATTAAAAATATTAAAAATATTAA A/TTATTAAAAATATTAAAAATATTAA AAAAATATTAAAA	AGCAAAAAGTGTCGA GAGC	AGTCACCAGTCACCAG TCCC	60.0	655	INTRON	Ca_25699	--	--
scaffold466_P2_169717	scaffold466	169717	A/ATGCAAAAGATTCTA	CTTTCGTGCCCTTGATT TGT	CGTGGCCTATCGATCC TTTA	60.1	740	INTRON	Ca_25699	--	--
scaffold466_P2_170442	scaffold466	170442	CA/CACGGA	ACCCTTTTGTCCACAC GAG	AAGCTGACTTCGGTTG GCTA	60.0	270	INTRON	Ca_25699	--	--
scaffold466_P2_200825	scaffold466	200825	CATATATATATATATATATATATAT TATATATATATATATATATATATATAT	AGGAAGCAACGAAAC GAAA	GATCGGAGACCCCTTA AAGC	60.0	550	INTERGENIC	--	--	--
scaffold466_P2_254290	scaffold466	254290	TCTTCTCCACTT/TCTT	GGATTCCGCGTAAGAT TTCA	ACTAGGTTTGGGTT CGCT	60.0	465	INTERGENIC	--	--	--
scaffold466_P2_44099	scaffold466	44099	CATATATATATATATATATATATAT AT/CATATATATATATATATATATATAT ATATAT	CCATCAAAAATACCCCT CAAAA	TTGTGTTGACATTGTG TGATTCT	59.4	336	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4711_P2_9037	scaffold4711	9037	CA/CAA	AACCAATCTTGTGCATC CAA	AAGACGAGGGACGACA AAAA	59.7	379	INTERGENIC	--	--	--
scaffold4713_P2_1946	scaffold4713	1946	TG/TGG	TCATCCAATGACACAAA CGC	AGGTCATTTTCGCCTC CCT	59.9	193	INTERGENIC	--	--	--
scaffold4733_P2_507	scaffold4733	507	AT/ATT	ACAGTGAACGTGCACC CATA	CTGGTTATGCCGTTTG GAGT	60.0	697	INTERGENIC	--	--	--
scaffold4745_P2_9371	scaffold4745	9371	GT/GTT	TCCAATGACACATCCAC ACC	AGGTCATTTTCGCCTC CCT	59.9	289	INTERGENIC	--	--	--
scaffold475_P2_141188	scaffold475	141188	A/AAAATGGGG	GAGGAGCGACCAAGTTG TTTC	GAAACTAATGCGACCG GTGT	60.0	884	INTERGENIC	--	--	--
scaffold475_P2_163127	scaffold475	163127	C/CCT	TTCAGGCAATCCAATCT TCC	TGGGTCCAAAGGACAG GTAG	60.0	503	INTERGENIC	--	--	--
scaffold475_P2_174713	scaffold475	174713	GTTTTTTT/GTTTTTTTT	AAGGTTGACTGCATAAC GAAGA	CAACACCATTTGACAAC ACCA	60.3	730	INTERGENIC	--	--	--
scaffold475_P2_20307	scaffold475	20307	GTTATTAT/GTTATTATTAT	TCACCGTTTATAGTTC TACGTCA	ATCTTCGTTATGCAGTC AAACTT	57.2	417	INTERGENIC	--	--	--
scaffold4759_P2_19724	scaffold4759	19724	CTATATATATATATAT/CTATATATATA TATAT	GCTGCCTTTGATTTTCG GATA	GGGTGGATCAAAATTTT CGTG	60.2	565	INTERGENIC	--	--	--
scaffold477_P2_10236	scaffold477	10236	CAAAAAAA/CAAAAAAA	TTGGAAAAGCCCACTA CAC	TGCAGTGCAATGTCCA TTTT	60.1	208	INTERGENIC	--	--	--
scaffold477_P2_11283	scaffold477	11283	C/CA	TGTCATCTTGTTCCTT TGG	TGATGAAACTCTGAACT CGTGG	60.3	114	INTERGENIC	--	--	--
scaffold477_P2_20714	scaffold477	20714	T/TG	CCCCCTAATGCTCAATT TCA	TGCAACAAGAGGCAAA ACAC	59.9	288	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold477_P2_28410	scaffold477	28410	TAAAA/TAAA	GTAGGAGGATCTCAAG GGGC	CCAAAATTAGGAAGCA CCCA	59.9	567	INTERGENIC	--	--	--
scaffold477_P2_46187	scaffold477	46187	TT/TTACTTCAT	ATAGTCGGCCCAAAG AGAG	TGCTAAAACGACAGTT GCAT	57.0	708	INTERGENIC	--	--	--
scaffold477_P2_46653	scaffold477	46653	GAAAAA/GAAAAAA	ATGCAACTGTCGTTTA GCA	TTAGAGCGCCTTCTGA TGGT	60.0	405	INTERGENIC	--	--	--
scaffold477_P2_49382	scaffold477	49382	GCTCTCACTCTCACTCTC/GCTCTCACT CTCACTCTCACTCTC	CCCGCGAATAACTCCA ATAA	TACCCACACCACTGAC CAGA	60.0	583	INTERGENIC	--	--	--
scaffold477_P2_61527	scaffold477	61527	GCT/GGAATAGAAAACT	GGGACTTGGGAGTCCT CTTC	CTTTGTGTGATCTTGG GGCT	60.1	220	INTERGENIC	--	--	--
scaffold4773_P2_12563	scaffold4773	12563	A/AT	CTTGTGAAAAACGCGC TGTA	TAGCTTGTGCGGTTGA TTTG	60.0	612	INTERGENIC	--	--	--
scaffold4773_P2_12822	scaffold4773	12822	ATCT/AT	CTTGTGAAAAACGCGC TGTA	TAGCTTGTGCGGTTGA TTTG	60.0	612	INTERGENIC	--	--	--
scaffold4773_P2_12850	scaffold4773	12850	TA/T	CTTGTGAAAAACGCGC TGTA	TAGCTTGTGCGGTTGA TTTG	60.0	612	INTERGENIC	--	--	--
scaffold4773_P2_13699	scaffold4773	13699	TTTTATTATTATTATTATTATT/TT TTATTATTATTATTATTATTATT	TATGCCACATGCCAAC TAC	TAGGCCGACTGCTCTT ATGG	60.4	247	INTERGENIC	--	--	--
scaffold4773_P2_14894	scaffold4773	14894	CAAAA/CAAAA	CCGCAGTCCCTTTGTT TTA	CTCCACGGTTCTGTCA TCAG	59.3	684	INTERGENIC	--	--	--
scaffold4773_P2_16885	scaffold4773	16885	TNNNNNNNNN/TNNNNNNNNN	TGCGGCTATTCATAAC TGG	GCATATCTGAGGCTGC CAAT	60.2	600	INTERGENIC	--	--	--
scaffold4773_P2_18351	scaffold4773	18351	GAAA/GAAAA	TGGGGGATTGTTGGAA AATA	GGGACAGAAAGAAAG GGAG	60.0	313	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4773_P2_35409	scaffold4773	35409	GATTATTA/GATTA	TTGGCTTAGGTCGACT CCAT	TTCAGTTATTGTTTCGG GGC	59.9	229	INTERGENIC	--	--	--
scaffold4773_P2_36112	scaffold4773	36112	T/TCCTGC	CGCAAATGGGTAAAC CCTA	AGCCTTCGAGATACGG TTGA	59.8	663	INTERGENIC	--	--	--
scaffold4773_P2_36184	scaffold4773	36184	GATATATATATATAT/GATATATATATATATATAT	CGCAAATGGGTAAAC CCTA	AGCCTTCGAGATACGG TTGA	59.8	663	INTERGENIC	--	--	--
scaffold4773_P2_52253	scaffold4773	52253	TTA/TTATA	CCAAGGTAGGCGTTGG ATAA	CACGTGATGTTGGGC ATAG	60.0	408	INTERGENIC	--	--	--
scaffold4773_P2_52490	scaffold4773	52490	ACTTCTTTGG/ACTTCTTTGGCTTCTTT GG	CCAAGGTAGGCGTTGG ATAA	CACGTGATGTTGGGC ATAG	60.0	408	INTERGENIC	--	--	--
scaffold4773_P2_52918	scaffold4773	52918	ATTTTTT/ATTTTTT	TTTGGCATTGGGAGAA AAAC	ATCCACCAATTATCCA CGA	60.0	576	INTERGENIC	--	--	--
scaffold4773_P2_53190	scaffold4773	53190	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	TCGTGGATAATTGGTG GGAT	GCAAATGTATGCTTCC ATCG	59.1	339	INTERGENIC	--	--	--
scaffold4773_P2_54795	scaffold4773	54795	CC/CCTTCGC	TTACACCTCCAGAAA TCC	GAAGAAAACGAACCAG CAGC	60.0	314	INTERGENIC	--	--	--
scaffold4773_P2_55151	scaffold4773	55151	CCTTCTT/CCTT	GCTGCTGGTTCGTTTT TTC	CTGTTGGCTTCCACTT CCAT	60.1	307	INTERGENIC	--	--	--
scaffold4773_P2_55608	scaffold4773	55608	AT/ATTATT	ATGGAAGTGAAGCCA ACAG	TCACGTTGGATGAAT TGAA	59.9	624	INTERGENIC	--	--	--
scaffold4773_P2_58116	scaffold4773	58116	TAAAA/TAAA	AACGCAAAACCCTAAAC CCT	AGAACTTCCGAACAC GATG	60.1	174	INTERGENIC	--	--	--
scaffold4773_P2_58332	scaffold4773	58332	CTTTTT/CTTTT	CATCGTGTCGGGAAG TTCT	AGATCTGGTGGAATC GTTG	59.9	572	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4777_P2_102810	scaffold4777	102810	CT/C	GACCCAAATGAGGTCA GGAA	ACTCAACACAATTGCCA CCA	60.0	631	INTRON	Ca_26711	R	--
scaffold4777_P2_118728	scaffold4777	118728	CTTTTTTT/CTTTTTTTTT	AACGGTTTGGTTTGATC TGC	ACGTCGTCAAACAGAT GCAC	59.8	231	INTRON	Ca_26711	R	--
scaffold4777_P2_29741	scaffold4777	29741	CAAAAAAAAA/CAAAAAAAAA	TGGCTTGTGTTTCTCTC CCT	TGTTGTTCTACATGCG CTGA	59.0	663	INTERGENIC	--	--	--
scaffold4777_P2_52787	scaffold4777	52787	CATTTTGATTTTGATT/CATTTTGATT	CGAGGCACTAAGCACC TCTC	GTTCCCTTTTCTACGA GGG	59.9	189	INTERGENIC	--	--	--
scaffold4777_P2_70506	scaffold4777	70506	AT/ATTATTATT	ATGGTTTGAATGGGA TGAA	ATTATTTTGGGGTTTG GGC	59.9	804	DRR	Ca_26709	--	--
scaffold4777_P2_83071	scaffold4777	83071	GTTTTTTTT/GTTTTTTTT	CGGTCTCAACCTCTCC CATA	AAAATCCAACAATCTCC CCC	60.0	522	DRR	Ca_26710	--	--
scaffold4784_P2_684	scaffold4784	684	TG/TGATGGCTAG	TCCTGGTCCTCGATTTC ATC	GGGCCGAGAGACCTT ATAG	60.1	339	INTERGENIC	--	--	--
scaffold479_P2_125417	scaffold479	125417	CTTTT/CTTTTT	ACAAACCAATCGATTTC CCA	CGGAGGACGAAAATGA CCTA	60.1	180	INTERGENIC	--	--	--
scaffold479_P2_7594	scaffold479	7594	TTA/TTAGGCATA	TGTGTTTGTGGCATTG GATT	AGGGAGGACGAAAATG ACCT	59.9	329	INTERGENIC	--	--	--
scaffold48_P2_11811	scaffold48	11811	AAATAATAATAATAATAATA/AAATA ATAATAATAATAATAATAATA	GCTAACTGACTTGCAAT GCG	ATTCATCAGTTGCGCA AAAA	59.3	758	INTERGENIC	--	--	--
scaffold48_P2_11870	scaffold48	11870	TATATAGAGAGA/TA	TTTGCACTTTCGATGA ACT	TTTTTAACGCGTGCGTT TTT	60.6	977	INTERGENIC	--	--	--
scaffold48_P2_12244	scaffold48	12244	AATTAT/AAT	TTTTTGCGCAACTGATG AAT	ATGGAAAGTTTGGTGC CTTG	60.0	646	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4804_P2_8867	scaffold4804	8867	CTT/CT	TGGATGCACCAGATTG GTTA	AGGTCATTTTCGTCCTC CCT	59.9	570	INTERGENIC	--	--	--
scaffold4804_P2_893	scaffold4804	893	TAAAAAAA/TAAAAAAA	AGCCTAGGGGTGACGA AAAT	GTCCTCCCCAGGCTTA ATTC	59.9	516	INTERGENIC	--	--	--
scaffold4822_P2_847	scaffold4822	847	A/AGAATACT	CAGCGGATCCCCAGAT ATAC	AGGTCATTTTCGTCCTC CCT	59.9	545	INTERGENIC	--	--	--
scaffold4829_P2_1089	scaffold4829	1089	AGG/A	ATATGGACCCGAAATG GATG	GCGTCGTAGGTTTCGAC TAGG	59.9	561	INTERGENIC	--	--	--
scaffold4829_P2_5930	scaffold4829	5930	AGGGG/AGGG	TGTAAAGCCCGCATTTT CCT	GGAGAACGTTAAGGCA GCAG	60.0	512	INTERGENIC	--	--	--
scaffold4829_P2_6279	scaffold4829	6279	TCCC/TCCCC	GACCCGCATTTTCCTCA TTA	GGAGAACGTTAAGGCA GCAG	60.0	507	INTERGENIC	--	--	--
scaffold4829_P2_6512	scaffold4829	6512	AGGGG/AGGG	CTGCTGCCTTAACGTTT TCC	CCAAAAATCAGCCCGA TCTA	60.0	262	INTERGENIC	--	--	--
scaffold4829_P2_8205	scaffold4829	8205	TAAAA/TAAA	CAATAGCATGCAGTTG GAGG	GGAGACTCCCATACAT TGGC	59.4	500	INTERGENIC	--	--	--
scaffold4833_P2_1167	scaffold4833	1167	TAAAAAAAAAAAAAAAAA/AAAAAAAAAAAA AA	AAAAGCATAGGTGTTT GGGA	TGAAGCAGTTTGAAT GTGGA	59.3	496	INTERGENIC	--	--	--
scaffold4833_P2_1321	scaffold4833	1321	TAAAAAAA/TAAAAAAA	AAAAGCATAGGTGTTT GGGA	TGAAGCAGTTTGAAT GTGGA	59.3	496	INTERGENIC	--	--	--
scaffold4833_P2_3774	scaffold4833	3774	T/TA	CCAAGCCAGTCAAACA CAAA	GGGCTCGCTATGTACA GCA	60.0	839	INTERGENIC	--	--	--
scaffold4833_P2_3926	scaffold4833	3926	CATATATATAT/CATATATATATAT	CAATTCAAATTGGCCCT GTC	GGGCTCGCTATGTACA GCA	60.0	477	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold484_P2_65687	scaffold484	65687	AC/A	TATCACCTATCAGAGCGGG	TGATTCCGGGAAGTCAAC	59.8	472	INTERGENIC	--	--	--
scaffold484_P2_676515	scaffold484	676515	AATATATATATATATATATATATAT/AT/ATATATATATATATATATATAT	ATGTTTTGGATTTTGGCTCG	AGGAAGAGTGGAGTTGCGAA	60.0	524	INTERGENIC	--	--	--
scaffold484_P2_793859	scaffold484	793859	CACACTA/CACACTAACACTA	GGAAGGTGTGTGGGAAGTGT	ATATTTGCCTCCTCCCCGTGT	59.8	631	INTERGENIC	--	--	--
scaffold485_P2_131454	scaffold485	131454	TCC/TC	TCAATCCACACCAGCTGGTA	TGTTGGTTTATGGGGGAAGA	60.2	475	INTERGENIC	--	--	--
scaffold485_P2_4082	scaffold485	4082	CTGTGT/CTGT	CCTTATCCCCGGTATCACCT	GAAGACAAAAAGGGGCAACA	60.1	790	INTERGENIC	--	--	--
scaffold485_P2_4919	scaffold485	4919	TTTATTATTATTATTATT/TTTATTATTATTATTATT	AGAGCAAACAAGAACCGAA	TGTTGACACCTAATTTGTCCG	59.9	165	INTERGENIC	--	--	--
scaffold4851_P2_2996	scaffold4851	2996	G/GCGATTTTC	GGTCTCGATTTTCATCTGGA	GGGCCGAGAGACCTTATAG	60.1	130	INTERGENIC	--	--	--
scaffold4851_P2_3617	scaffold4851	3617	TAAAAAA/TAAAAAA	CGCGGAACCTGAAACACTAT	CCGATGCTAAAAATGGCAGT	60.1	616	INTERGENIC	--	--	--
scaffold486_P2_119363	scaffold486	119363	G/GTGTA	AGGAAGTTCCACCGTTCTT	AGGACGATCCTACCGTTTCT	60.0	613	INTERGENIC	--	--	--
scaffold486_P2_159779	scaffold486	159779	TTATATATATATA/TTATATATATATATATATATATATATA	TCAATGCGGTCTCTGAAGTG	TATTGAGATCCCTTGCCGAG	60.0	586	INTRON	Ca_26083	--	Trihelix
scaffold486_P2_207089	scaffold486	207089	A/AT	AGCCTCCGAGTTCAATGCA	CAGCCCCCTAAACCAACATA	59.8	428	INTERGENIC	--	--	--
scaffold486_P2_39329	scaffold486	39329	G/GC	CAGCAAGTGTCTCCTCACCA	ATCAGTGGAAAGGCATACGG	60.0	724	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold4865_P2_1149	scaffold4865	1149	C/CA	ATTATGCCAAAAGGG GGAG	CGATTGTGTTGTCA GGG	60.0	330	INTERGENIC	--	--	--
scaffold4869_P2_702	scaffold4869	702	TATAATAATAATAAT/TATAATAATA TAAT	AGCCAGTAAGCACCT TTGA	GACGCTACCACCTGAC ATGA	59.7	276	INTERGENIC	--	--	--
scaffold487_P2_1826	scaffold487	1826	CTTTTTTTTT/CTTTT	TATTTGTGCGTGAAT ACA	AACGCAAAATGCACCA TGTA	60.0	835	INTERGENIC	--	--	--
scaffold487_P2_3721	scaffold487	3721	T/TG	AAGTGCATAAGTCCAA CGG	TGCCTAAGAACCAAG TGGG	60.1	533	INTERGENIC	--	--	--
scaffold487_P2_87751	scaffold487	87751	T/TC	ACATTGAGGTCATTTT GCC	AGCCTAGGGAGGATGC AAAT	60.1	229	INTERGENIC	--	--	--
scaffold4872_P2_661	scaffold4872	661	G/GTCTATCA	TGGGCACATGCTTCTC AGTA	TACTGGAACGACCAC ACAA	60.0	498	INTERGENIC	--	--	--
scaffold4902_P2_108944	scaffold4902	108944	AAATAATA/AAATA	CCGTGAATATGCAGAA GGAA	CCAAGCAACGATGCA AATA	59.7	371	DRR	Ca_26351	--	Trihelix
scaffold4902_P2_15167	scaffold4902	15167	ATTTTTTTTT/ATTTTTTTTTT	CTTTTGTTCCTCCAC TCA	CCGAGACCTCGCAGTT GTAT	60.3	263	DRR	Ca_26347	T	WRKY
scaffold4902_P2_15526	scaffold4902	15526	AAT/A	CGAGGTCTCGGATTCA AAAT	TTTTCCAATCACCTTT CCA	60.3	682	DRR	Ca_26347	T	WRKY
scaffold4902_P2_22267	scaffold4902	22267	CA/CAA	CACGTTTTGACCAAG AGGT	TACCGTCCAATTTCCCT CAA	60.3	255	INTERGENIC	--	--	--
scaffold4902_P2_22641	scaffold4902	22641	AAT/AATAT	AAGCAGGAGCAGAAA TGAA	AAGAATTCGGAGCCA TTTT	59.9	570	INTERGENIC	--	--	--
scaffold4902_P2_30200	scaffold4902	30200	AAATCCAAAA/AAATCCAAAAATTAAT TCCAAAA	TCACCATGTGCTACTTC ATTCA	GTGACGGTGTTCGTTG CTAA	59.8	503	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4902_P2_30281	scaffold4902	30281	ATTTTTT/ATTTTTTT	TCACCATGTGCTACTC ATTCA	GACACCCAAAATCTCA GGGA	59.9	779	INTERGENIC	--	--	--
scaffold4902_P2_34435	scaffold4902	34435	TTATATATATATATATATATATATATATATATATATAT/TTATATATATATATATATATATAT	TTTGGTCCCCACATTT GAT	TTCACCTGAAAATTGTC GCA	60.2	684	INTERGENIC	--	--	--
scaffold4902_P2_39096	scaffold4902	39096	TAAAAA/TAAAAA	AAGCCGCTGCTTACGA AATA	AGTTAGTGGCTGGGG AGAT	60.0	494	DRR	Ca_26348	TU	--
scaffold4902_P2_40882	scaffold4902	40882	GAAAAAAA/GAAAAAAA	GCAGAACCAAAACGC AAAT	AATTCATGAAACCTCGT CCG	59.9	177	INTRON	Ca_26349	C	--
scaffold4902_P2_65969	scaffold4902	65969	ATTTTTTTT/ATTTTTTTTT	TGAAAAACGCAACGAA GATG	CTTTTGCCAATTAACCC GAA	59.9	746	INTERGENIC	--	--	--
scaffold4902_P2_72921	scaffold4902	72921	CTT/CT	GGGGTTACATTACGG GGTT	CACCTCATAACGTGTT GGGC	61.4	613	INTERGENIC	--	--	--
scaffold4902_P2_73019	scaffold4902	73019	AA/AACTGAAATTTA	GGGGTTACATTACGG GGTT	CACCTCATAACGTGTT GGGC	61.4	613	INTERGENIC	--	--	--
scaffold4902_P2_73309	scaffold4902	73309	ATTTTTTT/ATTTTTTTT	TCATTGTTAATAACCA CGCCA	CACCTCATAACGTGTT GGGC	61.4	421	INTERGENIC	--	--	--
scaffold4902_P2_73796	scaffold4902	73796	CTTTTTTTT/CTTTTTTTT	GTCGGCCCAACAGTT AT	AGCGGCCTCTCTATCA AACA	60.0	532	INTERGENIC	--	--	--
scaffold4902_P2_73891	scaffold4902	73891	CGG/CGGGG	TTTGATAGAGAGCCG CTTG	ACTAAGCGTGAAAAAC GGTG	60.2	372	INTERGENIC	--	--	--
scaffold4902_P2_75211	scaffold4902	75211	ATTTTTTTTT/ATTTTTTTT	GGTGTGGCGTTTCTT CAT	AAAACCTGTTTACATG ACAATGC	59.4	458	INTERGENIC	--	--	--
scaffold4902_P2_82598	scaffold4902	82598	TAA/TAAA	TTGTCACTACAAGGT TGCAT	CCAATCCATTTCCATCA AGC	60.3	635	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4902_P2_83305	scaffold4902	83305	CTTT/CTTTTT	GCTTGATGGAATGGA TTGG	AAAAACGCAACCAACAT CAA	59.1	609	INTERGENIC	--	--	--
scaffold491_P2_20154	scaffold491	20154	GAAAA/GAAAA	CCCGAAAAGTCCAGAT GAAA	TGACGTGGAACACGAA TCAT	60.0	411	INTERGENIC	--	--	--
scaffold492_P2_36767	scaffold492	36767	T/TTTTTT	TCCAAGGGTACAAAAAT CGC	TCCCAGTCCTCGATT CATC	60.0	505	INTERGENIC	--	--	--
scaffold4920_P2_19062	scaffold4920	19062	CA/C	CAGAAAATCGATTGCC AGT	AGTCCAAGTACAAAT GCCG	60.3	497	INTERGENIC	--	--	--
scaffold4923_P2_11425	scaffold4923	11425	AATATATATATATATATATA/AATAT ATATATATATATATA	TTGGATTTTGGCTCATA GGC	CGCGTTAACAGAGGAA GAGG	60.0	392	INTERGENIC	--	--	--
scaffold493_P2_106607	scaffold493	106607	T/TAA	GAGATGAATGGGAGAG AGCG	GCATGGTAGCTCCAA CATT	60.0	883	INTERGENIC	--	--	--
scaffold493_P2_124059	scaffold493	124059	ACTCTC/ACTC	TCTTTGGTTTTACGGCT GCT	TGAAATCGGGTCACTT GTCA	60.1	759	INTERGENIC	--	--	--
scaffold493_P2_149227	scaffold493	149227	CTTTTTTTT/CTTTTTTTT	AAGCCTATTACAGCGCT CTTTG	GGTCTTTTAAAGCGCTT GTTG	59.1	930	INTERGENIC	--	--	--
scaffold493_P2_149974	scaffold493	149974	CTATATATATATATATATATAT/CTATA TATATATATATATATAT	AAGCGCTGTAAAGAC CTCG	TACGAACCCTCACAAC CACA	60.0	615	INTERGENIC	--	--	--
scaffold493_P2_186572	scaffold493	186572	T/TAATCAGGAAGACAGC	CGAAAGCGCTGGTTAG AAAC	TCCGTCTAGTGCTCAT CGTG	60.0	384	INTERGENIC	--	--	--
scaffold493_P2_189434	scaffold493	189434	TTATATATATATATATATATAT/TTA TATATATATATATATATAT	CCGCCATCAACAGAGT CATA	AAAAACCTCCGAGCCA AAAT	59.9	419	INTERGENIC	--	--	--
scaffold493_P2_25789	scaffold493	25789	GT/GTCATAGGTCCTTCCCTATT	ACAATCGTGCCTAAAT GCC	TTGGACTGCAATGAA AGGA	59.2	495	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold493_P2_285201	scaffold493	285201	ACCC/ACC	TAGAAATCACGTGCGAA TGC	CTGATAGGTGAGACCG GGAA	60.1	612	INTERGENIC	--	--	--
scaffold493_P2_297027	scaffold493	297027	AT/ATATATATGTGTGT	ATGTTTTGGATTTTGGC TCG	AAATTGGTCCACTAGC ACCG	60.0	643	INTERGENIC	--	--	--
scaffold493_P2_300495	scaffold493	300495	T/TTAA	TGGATTGAGAATTTTC CGC	GTTATTCATAGCCTCC GCCA	60.1	458	INTERGENIC	--	--	--
scaffold493_P2_71059	scaffold493	71059	GTT/GTTT	ATTCAAACCAAAACCC TCC	GTGGCACCTCGGTAA CAGT	60.0	265	INTERGENIC	--	--	--
scaffold4943_P2_1324	scaffold4943	1324	A/AC	GAAGTCGGGTGGTACG AAAA	CGCGGAACCAAAACA TAGT	60.0	731	INTERGENIC	--	--	--
scaffold495_P2_111241	scaffold495	111241	TTTTGAAAATAACCCTT/TTT	GGTTTGCCTTTGGTGT CTGT	GTGCTTGCATGGAAC AAGA	59.8	534	INTERGENIC	--	--	--
scaffold495_P2_121305	scaffold495	121305	GAGAGA/GAGAGATAGAGA	CAATGCAGAGTTGCGA GAAA	CGCTTCAGAATTGTCA CCA	59.8	252	INTERGENIC	--	--	--
scaffold495_P2_121457	scaffold495	121457	ATTTTTTTTTTTT/ATTTTTTTTTTTT	CAATGCAGAGTTGCGA GAAA	TTTTTAAATTGCGGGTT TGG	59.8	444	INTERGENIC	--	--	--
scaffold495_P2_126369	scaffold495	126369	GAAAAAAAAA/GAAAAAAAAA	TACATTCGCGGTCCCTT AAC	AGCCAAATTTAGGGA GGCA	60.9	859	INTERGENIC	--	--	--
scaffold495_P2_128188	scaffold495	128188	CTTTTTTTTTT/CTTTTTTTTTT	GTGGGACATTCCGACG TTAT	ACAGGTTCTCACGTTT GCC	60.2	595	INTRON	Ca_26761	--	AP2
scaffold495_P2_136316	scaffold495	136316	TTATATATATATATATATAT/TTATATA TATATATATATATATATATATAT	TCGATGCATTGCAATAT TGTTT	TGGTTCATCTGCCGT AACA	60.1	657	INTERGENIC	--	--	--
scaffold495_P2_141467	scaffold495	141467	TAAAAAAAAA/TAAAAAAAAA	CAGAGTTTCCCCACC GTTA	TTTCTCTCAAACCCGTA AGCA	59.9	700	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold495_P2_141795	scaffold495	141795	GTTTTTTTTTTT/GTTTTTTTTT	TCACTTTGGTCTCCAA CACC	GGCTTCCAATCACAA ACCT	59.0	602	INTERGENIC	--	--	--
scaffold495_P2_27848	scaffold495	27848	CTTTTTTTTTT/CTTTTTTTTTTTT	AAGGCTACCATGGGTC TGTG	CCAAGAATGCTATCTC CCCA	60.0	532	INTERGENIC	--	--	--
scaffold495_P2_33497	scaffold495	33497	TAAAAAAAAAAAAA/TAAAAAAAAA AA	AACTCTTTGGCTTTCTG CCA	GGGGAAATTCGCTTTG ATTT	60.3	480	INTERGENIC	--	--	--
scaffold496_P2_121429	scaffold496	121429	CT/C	TCTGGTCCTCGATTTC ATC	AATCGCCTGAAAAGAC GAGA	60.0	379	INTERGENIC	--	--	--
scaffold496_P2_183316	scaffold496	183316	AATATATATATA/AATATATATATA	TTGCAATCTCATCACT CGG	TCCTCTACGTATTGTGC GGC	61.2	923	INTERGENIC	--	--	--
scaffold496_P2_211993	scaffold496	211993	GTATATATATAT/GTATATATATAT	CCTTCATGAACCGCAAT ACA	TCTCCGCATAAGCTTTC GAT	59.9	651	INTRON	Ca_27203	--	--
scaffold496_P2_245894	scaffold496	245894	CTTT/CTT	TTTTCAAATAAGTAAC ATTGACAACA	TTATCTTCGTTTTAAGG TATTATTCCA	58.0	727	INTERGENIC	--	--	--
scaffold496_P2_54994	scaffold496	54994	CAAA/CAAAAGTTGAAAA	GGAATAAGGAAAAGTC GCCC	TCAAGTTGCCACTGAC TTGC	60.0	637	INTERGENIC	--	--	--
scaffold497_P2_55035	scaffold497	55035	TA/T	CGTTCCTGAGGGAATT GTGT	AGTACTGAGCCCCCTG GTTT	60.0	578	INTERGENIC	--	--	--
scaffold497_P2_69293	scaffold497	69293	ATTTATTTT/ATTTATTTTATTTT	GGTAGTCAAGCCTGAG GCAG	TCTTGTATGTTTGATTA ATGTTAGGTG	57.9	585	INTERGENIC	--	--	--
scaffold497_P2_69995	scaffold497	69995	GTTTTTTTTTTTT/GTTTTTTTTT	TGGTGCTTTTGAAAAA GTG	ATTTGGTTTGGTTGCAT TCG	60.7	446	INTERGENIC	--	--	--
scaffold497_P2_70043	scaffold497	70043	CAATAAATAAATAAATAAT/CAATAAAT AAAT	TGGTGCTTTTGAAAAA GTG	ATTTGGTTTGGTTGCAT TCG	60.7	446	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold501_P2_116645	scaffold501	116645	T/TATA	AGCAGCGGAAAAGTTT CTCA	GGAGGGTTTTGGTTTG GAAT	60.0	870	INTERGENIC	--	--	--
scaffold501_P2_33930	scaffold501	33930	CAAA/CAA	GGTGTGTTTATGGCATT GGA	GCCTATGGAGGACGAA AGTG	59.7	950	INTERGENIC	--	--	--
scaffold501_P2_66521	scaffold501	66521	TCC/TCCC	ATTTTGGACTCCCTTG GCT	AATCCAATGCCACAAAC ACA	59.8	686	INTERGENIC	--	--	--
scaffold501_P2_87430	scaffold501	87430	CATATATATATATATAT/CATATATATAT ATATATAT	TGGGTGTGCCTATATAC ACGTAA	TTCTTTGCCACACACCA TGT	60.0	519	INTERGENIC	--	--	--
scaffold5016_P2_4306	scaffold5016	4306	AAAA/AAAAAGAAAA	TCTGGGCTAGCGACT TCTA	TTTTTGTCGAAAACAAA ATTCAGA	60.0	199	INTERGENIC	--	--	--
scaffold5016_P2_4506	scaffold5016	4506	GTATATATATATATATA/GTATATATA TATATATA	TCTGGGCTAGCGACT TCTA	TTGTCGAAATTACATTT TCTAAGTCA	58.4	848	INTERGENIC	--	--	--
scaffold5030_P2_906	scaffold5030	906	AAATAATAAT/AAATAAT	TGGGGATACGTAGGAG CAAG	TGTTGGTCCATTTTGA CGA	59.9	432	INTERGENIC	--	--	--
scaffold5030_P2_944	scaffold5030	944	AAAATAAATAAATAAATA/AAAATAAATA AATAAATAAATA	TGGGGATACGTAGGAG CAAG	TGTTGGTCCATTTTGA CGA	59.9	432	INTERGENIC	--	--	--
scaffold5031_P2_692	scaffold5031	692	GAAAAAAAAA/GAAAAAAAAA	AGTTTGAAACCTAGCG CGAA	TGTTGGTCCATTTTGA CGA	59.9	548	INTERGENIC	--	--	--
scaffold506_P2_18074	scaffold506	18074	TAAA/TAAAA	CTATGGTAGACGGTT TCGC	TTCTCCCGAGTTTGG TCTC	59.3	487	INTERGENIC	--	--	--
scaffold506_P2_18975	scaffold506	18975	TA/TAA	TCTCGATACCATCGTG GACA	TCCCATTGATTGCTGA ACA	60.0	489	INTERGENIC	--	--	--
scaffold506_P2_23660	scaffold506	23660	ATACTA/ATA	TGAGATGCGACGGTAA GTTG	CGTTTTGATTTAGTGC GGGT	60.0	884	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold506_P2_33758	scaffold506	33758	TTCT/TT	TGACCAACTCTTTTGG CCA	AGCCAACCTCTGTCTC ATGG	60.3	667	INTERGENIC	--	--	--
scaffold506_P2_39357	scaffold506	39357	TTAA/T	TTTGAAAAGTTGGCATT TCG	TTGCGACTTCACACTT GGTT	59.3	361	INTERGENIC	--	--	--
scaffold506_P2_39512	scaffold506	39512	GAA/GA	AAACCTTTGAGAAATGC CCA	AATGGAGTTCGGAGAT TGGA	59.5	563	INTERGENIC	--	--	--
scaffold5083_P2_2034	scaffold5083	2034	AG/A	AACCCAAAACGCTAAAC CCT	TCCGTCCAATAAGAGC AAATG	60.1	559	INTERGENIC	--	--	--
scaffold5086_P2_3516	scaffold5086	3516	ACC/AC	TAGGGAGGACGAAAAAT GACG	CCAATCGTGTGCATCC AATA	60.3	469	INTERGENIC	--	--	--
scaffold5089_P2_3720	scaffold5089	3720	TAAA/TAAAAA	AGCCTAGGGAGGACGA AAAA	AAACAATCGTGTGCAT CCAA	60.0	541	INTERGENIC	--	--	--
scaffold509_P2_266405	scaffold509	266405	TAAA/TAA	GGTGGTAGCTGGTAGG GTGA	ATATCAAAGCACATTCC GCC	59.9	184	INTERGENIC	--	--	--
scaffold509_P2_266782	scaffold509	266782	AG/A	GGTGGTAGCTGGTAGG GTGA	TGCACTTGACCTTTCTT CCC	60.2	935	INTERGENIC	--	--	--
scaffold509_P2_46543	scaffold509	46543	T/TC	AACCAATCATGTGCATC CAA	CAAAGCTTGACCTCA AGAA	59.2	749	INTERGENIC	--	--	--
scaffold5094_P2_2305	scaffold5094	2305	TAA/TA	TGGCACATGAATAGTTC CACA	GCCACCTCATTCAAAAT TTGC	59.4	669	INTERGENIC	--	--	--
scaffold510_P2_65061	scaffold510	65061	A/AT	TCTCCCTGTACACCACC CTC	GATTTTGCTACTGGGG GACA	59.9	361	DRR	Ca_26547	--	--
scaffold510_P2_85609	scaffold510	85609	TAACA/TA	TTGTCAAATAAGTAAC AACAAAACG	TTGCAACAATTGTACCC GAA	60.0	995	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold510_P2_86131	scaffold510	86131	TAAA/TAAAA	TTTTGGTCCCCAACAA TAA	AAAAGTCTCTCCGCT CCTC	60.0	514	INTERGENIC	--	--	--
scaffold511_P2_101350	scaffold511	101350	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT AT	CGGTGAATCCTTTACG GAGA	GGAGGAGAAGGAGGG ATTG	60.0	306	INTERGENIC	--	--	--
scaffold511_P2_101474	scaffold511	101474	GAAAAAAAA/GAAAAAAAA	CGGTGAATCCTTTACG GAGA	GGAGGAGAAGGAGGG ATTG	60.0	306	INTERGENIC	--	--	--
scaffold511_P2_102809	scaffold511	102809	TA/T	GCCTGTGATAGGCGCT ACAT	ATTCCAAACCAAAACCC TCC	60.0	240	INTERGENIC	--	--	--
scaffold511_P2_140157	scaffold511	140157	CA/CAA	TTTTGGATATTGGCCTG GAG	GCCCTCAGATGAGAGT CAGG	59.9	467	INTERGENIC	--	--	--
scaffold511_P2_151707	scaffold511	151707	AATATATATATATATA/AATATATATAT ATATATATA	GAGAAAGTCGGGTGAA ACAA	GAGGAGGGAGGGATT TGAG	60.0	571	INTERGENIC	--	--	--
scaffold511_P2_193038	scaffold511	193038	AATATATATATATATATATA/AATATAT ATATATATATATATA	TTTCAGGTTATCGACTG GGG	AACAAGAAAGCGCAAG CAAT	60.0	729	INTERGENIC	--	--	--
scaffold511_P2_194529	scaffold511	194529	AAA/AAACAA	AATCTGCTTCCGTTAGC TGC	TGCACAATAAACCTGCT TGC	59.9	667	INTERGENIC	--	--	--
scaffold511_P2_194614	scaffold511	194614	AAT/AATAT	AATCTGCTTCCGTTAGC TGC	TGCACAATAAACCTGCT TGC	59.9	667	INTERGENIC	--	--	--
scaffold511_P2_206082	scaffold511	206082	TTATATATATATATATATATA/TTATAT ATATATATATATATATATA	GTTATCGATCAGCAGT GCCA	AAATCGTGTATGGT TAGACA	57.6	122	INTERGENIC	--	--	--
scaffold511_P2_4257	scaffold511	4257	CTTTTTTTTT/CTTTTTTTTT	CCTTGATAGATCGACT GGGA	GACTTGGACCTTGTT TCCA	59.9	670	INTERGENIC	--	--	--
scaffold511_P2_64588	scaffold511	64588	CAAAAAAAAA/CAAAAAAAAA	ACGGTGGGAGAATGAG TGAA	TGGTACCAACGGTCTG GATT	60.2	590	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold5115_P2_16853	scaffold5115	16853	GAA/GAAA	AATGGCCACGAATCTG AAAG	GAAGTACGCCTAAGAG GGGG	60.1	538	INTERGENIC	--	--	--
scaffold512_P2_111039	scaffold512	111039	GAAAAAAA/GAAAAAAA	GGTCCTCGATTTCATCT GGA	GACCGGAGACCCCTTA TAGC	59.9	168	INTERGENIC	--	--	--
scaffold512_P2_126235	scaffold512	126235	AAA/AAAGAA	TTTGATGAGACCTATGC CCC	ATGAAGATGCCTTGCT TGCT	60.0	327	INTERGENIC	--	--	--
scaffold512_P2_138105	scaffold512	138105	GTTATTATTATTATTATT/GTTATTATTAT TATT	TCTGGTCCTCGATTTC ATC	ACGTTAATACCCCCAAA CGA	59.2	470	INTERGENIC	--	--	--
scaffold512_P2_173709	scaffold512	173709	T/TG	TCCAGATGAAATCGAG GACC	ACCTGGTCTTTTCGGG AGAT	59.9	768	INTERGENIC	--	--	--
scaffold5120_P2_14840	scaffold5120	14840	TTATATATATATATATATATATATATAT/T TATATATATATATATATATATATATATAT	TATCGTGCCTGTTGAGA ACG	CTAATTAGCGTCGGAG TCGG	59.9	527	INTERGENIC	--	--	--
scaffold5120_P2_15547	scaffold5120	15547	TAGAGTACGAGA/TAGA	CCGAAGTAATAGTGGG GCAA	GGACCAGGTTCTGCAT CAAT	59.9	214	INTERGENIC	--	--	--
scaffold515_P2_12197	scaffold515	12197	TC/T	CGCCTTAAAGTCCCAA TGA	CCCATTGACGATAATG GACC	60.0	314	INTERGENIC	--	--	--
scaffold515_P2_131764	scaffold515	131764	CAAAA/CAAAAA	CGGAACCCGAAAGACA TTTA	TCAGGATGAAATCGAG GACC	60.0	514	INTERGENIC	--	--	--
scaffold515_P2_204298	scaffold515	204298	TTCTCCTAAATAT/TT	TAGGTGGTACGAAAT CGCC	GGTCCTCGATTTCATCT GGA	60.0	362	INTERGENIC	--	--	--
scaffold515_P2_216518	scaffold515	216518	ATTTTTTTTTT/ATTTTTTTTTT	TAATAAAATGAGGCGGT GGC	TTAGCATCGTCATTTTC TTCAA	57.6	902	INTERGENIC	--	--	--
scaffold515_P2_216623	scaffold515	216623	AG/AGG	CAGTTTCATCGCCGTA GTCA	TTAGCATCGTCATTTTC TTCAA	57.6	630	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold515_P2_235422	scaffold515	235422	CTATATATA/CTATATATATA	TTGCTCCAAATTGATCA CGA	AACCGATGCTAATCCG ACAC	60.0	818	INTERGENIC	--	--	--
scaffold515_P2_266354	scaffold515	266354	TAG/TAGAG	CCACCCAACAAAAATGG AAC	CATAGAACAAAATTGAG TTGTGAGA	57.6	635	INTERGENIC	--	--	--
scaffold515_P2_28282	scaffold515	28282	TA/T	CGCACGAAAAGTCTTG ATGA	CGGTGATTTTCGTAC CACT	60.0	169	INTERGENIC	--	--	--
scaffold515_P2_42759	scaffold515	42759	C/CT	GGTCCTCGATTTCATCT GGA	TTTCATCTGGACTTTTC GGG	60.0	652	INTERGENIC	--	--	--
scaffold515_P2_43016	scaffold515	43016	GAAAAA/GAAAA	CAAGAGTCTCCTGGTC CTCG	CTCCCGAAAAGTCCAA ATGA	60.0	912	INTERGENIC	--	--	--
scaffold5152_P2_20235	scaffold5152	20235	CTTTTTTTTT/CTTTTTTTTTT	CCAAGGGGAGCAATTA TGAA	TGATGCAATTGTGTGA GTCATT	59.1	366	INTERGENIC	--	--	--
scaffold5158_P2_17065	scaffold5158	17065	TAAAAAAA/TAAAAAAA	GGCCATCACGTTTCATCT TCT	GATACTATGTCACCGC GCAA	59.7	832	INTERGENIC	--	--	--
scaffold5158_P2_17908	scaffold5158	17908	A/AT	CAATTGTGGGCGAATTT CTT	TACCCCAAAATGGAA ATGA	60.0	203	INTERGENIC	--	--	--
scaffold5158_P2_17947	scaffold5158	17947	ATTTGATTTTGATTTTGATTTGA/ATTT GATTTTGATTTTGA	CAATTGTGGGCGAATTT CTT	TACCCCAAAATGGAA ATGA	60.0	203	INTERGENIC	--	--	--
scaffold5158_P2_6384	scaffold5158	6384	TAA/TA	CCAAACAATCTATTCC CCATC	TGATTGTTCTGGACGC ATCT	59.2	463	INTERGENIC	--	--	--
scaffold5158_P2_6929	scaffold5158	6929	TAAAAAAA/TAAAAAAA	TGGTCAAAACAATAAG CCG	TCGAGTCTTTCACATT TGC	60.0	502	INTERGENIC	--	--	--
scaffold5165_P2_1609	scaffold5165	1609	CTTTTTTTTT/CTTTTTTTTTT	TTTCAGTTAATTCGTG GTTCC	CAAAATTTCAACAAA ACGCA	60.0	412	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold5186_P2_27510	scaffold5186	27510	AATATATATATATATATATATATATATATATAT/AAATATATATATATATATATATATAT	TCGTATGCAACCACTAAGCG	AAGGAGGAAGGAGTTGGAA	60.0	823	INTERGENIC	--	--	--
scaffold5186_P2_6668	scaffold5186	6668	CAAAAA/CAAAAA	ATTTAGGTCATTTCCGCCT	TGGATGCACAAGATGGTTA	59.9	363	INTERGENIC	--	--	--
scaffold5186_P2_8653	scaffold5186	8653	GA/G	GAGTGTGGGGTCGTTGAAT	CCTAGGGAGGCTAAATGGC	60.1	270	INTERGENIC	--	--	--
scaffold5195_P2_4588	scaffold5195	4588	TA/TCGCTATGTGCA	AATAACATGTGCAGGAGCC	GGTTTGAACGGAACCTAT	60.1	766	INTERGENIC	--	--	--
scaffold520_P2_127701	scaffold520	127701	T/TCATCGC	ATCGAGGATCGAGAAACCT	GGTCTCGATTTCATCTGGA	60.0	166	INTERGENIC	--	--	--
scaffold520_P2_88340	scaffold520	88340	A/AATAT	AAGGAAACGAATAAATAAATAACACAA	CGAATCTTGATTTCCGTAACCT	59.5	786	INTERGENIC	--	--	--
scaffold5211_P2_3755	scaffold5211	3755	TAAAAAAAA/TAAAAAAAA	GTTCTCGAAGCAGAAAAACGG	CTTTGGTCAAGTCTGGCACA	59.9	702	INTERGENIC	--	--	--
scaffold523_P2_49637	scaffold523	49637	AGGAAGG/AG	ATCTGGAACGTTGGAGGTG	TCACCCCAAAGACTGTTC	59.9	424	INTERGENIC	--	--	--
scaffold5234_P2_584	scaffold5234	584	ATTTTTTTTT/ATTTTTT	ATGACGAAGCTGCTGGAGTT	AATCTCCCCTGAGTTTGG	60.3	664	INTERGENIC	--	--	--
scaffold5234_P2_969	scaffold5234	969	GT/G	TCCCGCTGGTAATAAGAGG	TTGGTTGATTCCTTGAGTTGC	60.1	656	INTERGENIC	--	--	--
scaffold5234_P2_990	scaffold5234	990	GTTTTT/GTTTTTTT	ATTCCAAACTCAGGCGGAG	TTGGTTGATTCCTTGAGTTGC	60.1	246	INTERGENIC	--	--	--
scaffold5235_P2_1115	scaffold5235	1115	CTAT/CTATTATTAGTTATAT	CGGAAAATTTACACGCAAGGT	AGCCTTTTGGTTCCATGTG	60.0	640	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold5235_P2_6143	scaffold5235	6143	CAAAAA/CAAAAA	AAGAGAGGTCACCTTG GCGA	TTGCGTTCCTCCTAAAC ACA	59.3	300	INTERGENIC	--	--	--
scaffold5235_P2_6209	scaffold5235	6209	AG/A	AAGAGAGGTCACCTTG GCGA	TTGCGTTCCTCCTAAAC ACA	59.3	300	INTERGENIC	--	--	--
scaffold5251_P2_1190	scaffold5251	1190	CTCTTCTT/CTCTT	TGGCCACCATTAGCATT ACA	AGCGCAGTGGTGAAAA GAAT	59.9	383	INTERGENIC	--	--	--
scaffold526_P2_51766	scaffold526	51766	GTTTTT/GTTTT	TTCTTGTCCAATTGGGG TTT	TTTGGGAGGACGAAGA TGAC	60.1	594	INTERGENIC	--	--	--
scaffold526_P2_72192	scaffold526	72192	GTCTTCC/G	ACCATCCTTGTGCATCC AAT	AGGGAGGACGAAATG ACCT	59.9	170	INTERGENIC	--	--	--
scaffold527_P2_104697	scaffold527	104697	CA/CAA	CAAAATACACCGGGGA AATG	GTGAGATCACCCGAG TTGT	60.0	284	INTERGENIC	--	--	--
scaffold527_P2_108544	scaffold527	108544	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT/ATA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTAT	GGTGGAGTATTCTGCC GAGA	ATGGGTGTTTGTGGTG GATT	60.0	578	INTERGENIC	--	--	--
scaffold527_P2_121286	scaffold527	121286	ATTTTTTTTTT/ATTTTTTTTTT	ATCTACGGAAAACCGT GTG	GGACGAGTTCGGACAA GAAG	59.8	332	INTERGENIC	--	--	--
scaffold527_P2_3195	scaffold527	3195	ATTTTTTTTTT/ATTTTTTTTTT	AAATGGCCAAACCTCTG ATG	AAGGGGCTGAGGATTC TGAT	60.0	703	INTERGENIC	--	--	--
scaffold527_P2_4805	scaffold527	4805	AT/ATTAATT	TCGTTGGTCATTATT CCA	TTGCAAGAAGGGGTTT TGAC	60.1	437	INTERGENIC	--	--	--
scaffold527_P2_52781	scaffold527	52781	TTATATATATATAT/TTATATATATATA TATAT	CTTAATGCCCTCCTTGG ACA	AGGAAGAGTGGAGTTG CGAA	60.0	605	INTERGENIC	--	--	--
scaffold527_P2_550	scaffold527	550	TAGGATG/TAGGATGTAGGATG	CATTTCCTTTACACC GTT	CACCATCTCATGGTG TTCG	60.0	664	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold528_P2_312579	scaffold528	312579	A/AAAT	TTGAGGGAAGGCATAA TTGC	TGGAATAGTGTGGGG AAAA	60.2	294	INTERGENIC	--	--	--
scaffold528_P2_316082	scaffold528	316082	TTATATATATATATAT/TTATATATATATA TATAT	TCAATTTTGTTCCTCC TCATC	TGGCGGTGTCTTCC TATC	60.1	471	INTERGENIC	--	--	--
scaffold528_P2_69096	scaffold528	69096	AG/A	TGGATGCTTCTATGAT GTGC	TATCGATCACTGGTGC CAAA	60.1	868	INTERGENIC	--	--	--
scaffold528_P2_95160	scaffold528	95160	TAAAAAAAAA/TAAAAAAAAA	TCCTCACACTAGAGCT GCCA	TTCAAGTCTTCCAATG CCA	59.2	787	INTERGENIC	--	--	--
scaffold528_P2_98941	scaffold528	98941	GNNNNNNNNN/GNNNNNNNN	GCAAGAGCAAGAGCTA GGGA	TTGAAACTCACCACCA CCAA	60.0	191	INTERGENIC	--	--	--
scaffold53_P2_110806	scaffold53	110806	GTATATATATATATATATATATATATATAT TATAT/GTATATATATATATATATATATAT ATAT	GCACCGTGAGTAAATT CGGT	TATTTTGGATTTTGGCT CGG	59.9	727	INTERGENIC	--	--	--
scaffold53_P2_125242	scaffold53	125242	GTTTTTTTTT/GTTTTTTTTT	GCCCTCAGATGAGAGT CAGG	TTTCAAGCAGCGGAAA AAGT	60.0	283	INTERGENIC	--	--	--
scaffold53_P2_1354	scaffold53	1354	T/TG	ACCACAATGTAACACC CGT	CGATTGAATTAAGCCC AGGA	60.0	788	INTERGENIC	--	--	--
scaffold53_P2_137170	scaffold53	137170	CTT/CTTTT	GGAATGGTGGCTCAAA GGTA	TCGACCGGAGTTTTG ATTA	60.4	671	INTERGENIC	--	--	--
scaffold53_P2_86530	scaffold53	86530	TTTATTATTATTATTATTATTATTATT ATTATTATTATT/TTTATTATTATTATTAT TATTATTATTATTATTATTATTATTATTA TTATT	CCCTTTTGTCTTTTGT GGC	CGAAGCCGAGAAATG ACTC	60.0	812	INTERGENIC	--	--	--
scaffold530_P2_10667	scaffold530	10667	CG/C	ACCAAAATTTGCGAAC AGC	TTGAGTGTGAGTGTCC AGGG	59.7	342	INTRON	Ca_27188	J	--
scaffold530_P2_11502	scaffold530	11502	GTTTCTT/GTTTCTTATGTTAATTTTC TT	AGGCCAAAGATCAGCA CACT	AGATGCCCAACCTGTT GTTT	59.5	379	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold530_P2_12323	scaffold530	12323	ATTTTTTTTT/ATTTTTTTTT	TATGGGTGTGTGTG GGTG	AGGTCATTTTCGTCCTC CCT	59.9	483	INTERGENIC	--	--	--
scaffold530_P2_28571	scaffold530	28571	TAAAA/TAAAAA	AGGGAGGACGAAAATG ACCT	GGTGTGTTGGTGTCAT TGGA	60.3	646	INTERGENIC	--	--	--
scaffold5306_P2_9364	scaffold5306	9364	GAAAAAAAAA/GAAAAAAAAA	TAGATGGGTGTGACGG TGAA	TGAGGGAGCACTATTG GGAG	60.2	590	INTERGENIC	--	--	--
scaffold531_P2_11911	scaffold531	11911	A/AT	ATTCCATTTGGCATGCT TTC	TTTGGGTACAAAATCA GAAAATTG	59.3	892	INTRON	Ca_22388	--	--
scaffold531_P2_12542	scaffold531	12542	CAAAAAAAAA/CAAAAAA	AAACAATTTTCTGATT TGTACCCA	GTTATGTCAACGAGGC CCAT	59.8	344	INTRON	Ca_22388	--	--
scaffold531_P2_13740	scaffold531	13740	GA/GAGGAGGATAAGAGAA	TGGTGCCTTAGATTG GTCC	ATTGGCACTCCAAC GAAA	60.5	663	INTERGENIC	--	--	--
scaffold531_P2_83931	scaffold531	83931	CCGG/CCGGCCGGTTCGG	GAGAACGCAAGCTAAC GGAC	ACCTTGTGGATGGCAG TTTC	60.0	180	DRR	Ca_22395	--	--
scaffold532_P2_1668	scaffold532	1668	GCC/GC	GAAGCTCAGATGGCAC ACAA	TTACCCTCAAACTGG GGTG	59.8	748	DRR	Ca_28241	--	--
scaffold533_P2_24645	scaffold533	24645	ACTCT/ACT	CACAGTGAACCCAG TTTT	TTCTAGCTGGCTTTCT CGC	59.9	884	INTERGENIC	--	--	--
scaffold5340_P2_799	scaffold5340	799	GTT/GTTT	TGTCGATGCGACTTAAC CTG	CCGCATCAACACAAATT GAC	60.0	128	INTERGENIC	--	--	--
scaffold535_P2_125817	scaffold535	125817	AATATATATATATATATATA/AATATAT ATATATATATATATATATATA	TTTGGAAGCATTGGAG ATCA	GAAGTTGTCTCCACA GGGA	60.1	681	INTERGENIC	--	--	--
scaffold535_P2_94648	scaffold535	94648	GATATATATAT/GATATATATATAT	AATGGAGGAGAAGGGA GGAA	TGAAAAGGGTAGGCA ACAC	60.0	563	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold537_P2_126696	scaffold537	126696	GTTTTTTTT/GTTTTTT	CGATTGTTGATCCTCGT	TCTCCCTCAAACCTCACGAT	59.7	191	DRR	Ca_23280	R	ZF-HD
scaffold537_P2_157875	scaffold537	157875	AAGAGAGAGAGAGAGAGAGAGA/AA GAGAGAGAGAGAGAGAGAGAGA	ATTGCCTCCTCACGATT CAC	CATCAACCGATCAACG ACAC	60.0	629	DRR	Ca_23282	--	NAC
scaffold537_P2_178610	scaffold537	178610	ATTTTTTTTTT/ATTTTTTTTTT	GCCCAGAATGACTCCA TGAT	CGTCTCAGGGGATTTC AAGA	60.2	923	INTERGENIC	--	--	--
scaffold537_P2_258578	scaffold537	258578	CTTTTTATTT/CTTTTTATTTTTATTT	GATGTTTGGATTGGGG TTTG	AAGCACATATTTGTTGC CCC	59.8	288	URR	Ca_23292	R	--
scaffold537_P2_67474	scaffold537	67474	CTT/CTTT	GCTTCACCCCAAAGG ATTT	CCTAGTGGTTGCAAAG GAGC	59.9	663	INTERGENIC	--	--	--
scaffold5420_P2_685	scaffold5420	685	ACC/ACCC	AAGGGAGGATGGAAT GACC	ATTTTGTCTCCTTGG GCT	59.9	613	INTERGENIC	--	--	--
scaffold543_P2_229568	scaffold543	229568	ATTTTT/ATTTT	TTTGCCCCAACTCTAC ATC	ATGGGCACATGCTATC ATCA	59.9	755	DRR	Ca_24786	--	--
scaffold543_P2_287153	scaffold543	287153	AG/A	GGGCGATCTAGGCATC ATAA	TGTTTTTGCCAATGATT GACTC	60.0	351	INTERGENIC	--	--	--
scaffold543_P2_35180	scaffold543	35180	CAAAAAA/CAAAAAA	AGGAATCGTGCAAGG AAAA	TTTTGGGGTTTAGGGT GTCA	60.2	803	INTERGENIC	--	--	--
scaffold543_P2_39888	scaffold543	39888	TTTTATTATTATTATT/TTTTATTAT TTATT	TGCGAAAAATCATGAGA GCA	CATTTGTTGTCAAGCC CCT	60.0	399	INTERGENIC	--	--	--
scaffold543_P2_69059	scaffold543	69059	TGGGG/TGGGGG	TCGCTACTGAAGATGG GCTT	TTGATAACTTGAAAACG AAATGAAA	59.1	363	CDS (FRAME SHIFT)	Ca_24780	--	--
scaffold543_P2_69595	scaffold543	69595	GATAATAATAATAATAATAATAATAA T/GATAATAATAATAATAATAATAAT	TTTCATTTCGTTTTCAA GTTATCAA	CCTCCTAATGCGTTGG TTTT	59.1	619	DRR	Ca_24780	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold544_P2_11157	scaffold544	11157	C/CG	ATTGTGTTGTACAGG CCA	CGATTGCGTAAAGGG TTGT	60.0	293	DRR	Ca_26539	--	--
scaffold544_P2_147706	scaffold544	147706	CAAAAA/CAAAA	CCCCCTTTTGCATAAG TGA	GAGGAGACATCTGCTG AGGG	59.9	582	DRR	Ca_26540	--	--
scaffold544_P2_192787	scaffold544	192787	AG/A	TGGTTCAAAGCCCTTAT TGG	AGGTCATTTTCGTCCTC CCT	59.9	554	INTERGENIC	--	--	--
scaffold544_P2_232429	scaffold544	232429	GAAA/GAAAA	GGACTAGGATAAGCCT GGGG	AGGTCATTTTCGTCCTC CCT	59.9	335	INTERGENIC	--	--	--
scaffold544_P2_239543	scaffold544	239543	TG/T	TTCGATGCACGAGATT GTT	AGGTCATTTTCGTCCTC CCT	59.9	469	INTERGENIC	--	--	--
scaffold544_P2_267766	scaffold544	267766	ATTTTTTTTT/ATTTTTTTTT	GGAAGCATGTTTGGGC TAGA	GGAGTTTCAAAGGATG GCAA	60.1	860	INTERGENIC	--	--	--
scaffold544_P2_287340	scaffold544	287340	T/TA	AAAACCAAAGCGTTTC CCT	CACCGTAGTGTGGTGG TGAG	60.1	283	INTERGENIC	--	--	--
scaffold544_P2_296448	scaffold544	296448	ATTTT/ATTT	ACGATTGTTGTGAATGG GGT	ATTCCAAACCAAAACCC TCC	60.0	417	INTERGENIC	--	--	--
scaffold544_P2_319324	scaffold544	319324	AATCAGAGCATCAGATCAGAGCAT/AAT CAGAGCAT	CCCCCTTTTGCATAAG TGA	ACGTTGAGGAGACACC TGCT	59.9	574	INTERGENIC	--	--	--
scaffold544_P2_342056	scaffold544	342056	GTTTTTTTTT/GTTTTTTTTT	CGGGGTGTTACACTCA TCCT	CGACATCCGTCAAACA CAAC	60.0	846	INTERGENIC	--	--	--
scaffold544_P2_342129	scaffold544	342129	TAAAAAAAAA/TAAAAAAAAA	CGGGGTGTTACACTCA TCCT	CGACATCCGTCAAACA CAAC	60.0	846	INTERGENIC	--	--	--
scaffold544_P2_343923	scaffold544	343923	CAAAAAAAAA/CAAAAAAAAA	GTGAAATAAGGGGGA AGGG	TTTTCTTCCTTTTCCT GCG	59.6	323	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold544_P2_41662	scaffold544	41662	CT/CTT	GTACCCTGTGGATGGG AATG	TGGATGCACTCGATTG GTAA	60.1	606	INTERGENIC	--	--	--
scaffold544_P2_57260	scaffold544	57260	TAAAA/TAAAA	AATTCCTTGGGACCGT GATT	TCCTCCCAGGCTTAT TCTT	60.0	822	INTERGENIC	--	--	--
scaffold544_P2_58853	scaffold544	58853	ATTT/ATTTT	GCATTGATTGGTAA CCC	AGGTCATTTTCGCTCT CCT	59.9	261	INTERGENIC	--	--	--
scaffold544_P2_82660	scaffold544	82660	AGGG/AGG	AATCCAATGACCCCAAT GAA	TCATTCTCATCTCCCA AGG	60.0	190	INTERGENIC	--	--	--
scaffold545_P2_116816	scaffold545	116816	ATATTATTATTATTATTATTATT ATTATTATTATT/ATATTATTATTATT ATTATTATTATTATTATTATTATTAT T	TTGCGGCCTACATTCTT AGG	TCACATTCATTCCAAA GCG	59.7	775	INTERGENIC	--	--	--
scaffold545_P2_12890	scaffold545	12890	TCAATCGATT/TCAATCGATTGCCAAT CGATT	GTTTCAAGCTGGCTTTC TCG	GGGCAATCGACTGACA AAAT	59.9	885	INTERGENIC	--	--	--
scaffold545_P2_155533	scaffold545	155533	ATATATATATATATATATATATATAT TAT/ATATATATATATATATATATATAT ATATATATAT	AGTTGCTCCCTATGGCT CCT	TGGATTAGGTTGAGTT CACAGG	59.1	694	INTERGENIC	--	--	--
scaffold545_P2_193109	scaffold545	193109	CAAAAA/CAAAAA	AATCTCCCCCTGAGTTT TGG	ATCTTTGGACACCGTC GTTT	60.0	643	INTERGENIC	--	--	--
scaffold545_P2_208207	scaffold545	208207	GATATATATATATATATATATATATAT ATATATATATATATATATATATATATAT ATATATATATATATATATATATATATA TATATATA	ATGCTTTCAGCAAAAC GCT	TGAAAGTCCGTGACCC GTAT	60.4	524	INTERGENIC	--	--	--
scaffold545_P2_34032	scaffold545	34032	ATTTTTT/ATTTTTTTT	TTGTTCCACTTCCGAGT TCC	ATCCAATACTGCAAAAT GCC	59.9	509	INTERGENIC	--	--	--
scaffold545_P2_73358	scaffold545	73358	TGG/TG	AAGCTTTCATCTTTTCC CGA	TTTTTGTACGTCCATT TGACA	58.1	520	DRR	Ca_23918	--	B3
scaffold546_P2_67935	scaffold546	67935	AG/A	TTTGGACCAATTTGTG GCT	TGCAAAACCACTTTCA AGG	58.8	652	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold546_P2_73018	scaffold546	73018	T/TTGC	CCAAGCCAACCCACATT ACT	CGCTTCTTCCATCTCCT CAG	60.1	871	INTERGENIC	--	--	--
scaffold546_P2_82405	scaffold546	82405	TT/TTAAGT	ATCAGCGAGGATGCAG AACT	TAACGTGGTTCAGGAG TGCC	61.1	338	INTERGENIC	--	--	--
scaffold546_P2_86146	scaffold546	86146	GTTTTTTT/GTTTTTTTTT	TTTCTTGATGTTTGAT TAAAGTGTGC	TCTCCAAGTACGGCTG CTCT	60.2	552	INTERGENIC	--	--	--
scaffold546_P2_86389	scaffold546	86389	ATAGGCTA/ATA	TGGAAAATTGAGGGAT ATTAAAAA	AATTCCACGAGCAAAC AACC	60.0	686	INTERGENIC	--	--	--
scaffold547_P2_147903	scaffold547	147903	TT/TTGGATTTTGAT	CCTGAGACTCATGGTG AGCA	TTTCCCAATCGATTTGC TTC	60.0	509	DRR	Ca_27332	--	--
scaffold547_P2_155914	scaffold547	155914	ATCAAA/ATCAAAGTTCAAA	TCGATCTGTACGAACAT TGACC	CGGAACCCGAAACACT TTTA	60.0	295	INTERGENIC	--	--	--
scaffold547_P2_156143	scaffold547	156143	CAAA/CAAAA	TTCGGTCTATTTTGTG GGG	CGGAACCCGAAACACT TTTA	60.0	219	INTERGENIC	--	--	--
scaffold547_P2_96713	scaffold547	96713	TT/TTGAT	CGGAACCCGAAACACT TTTA	TTCAAGCACTAGCCAT CGTG	60.0	152	INTERGENIC	--	--	--
scaffold547_P2_96984	scaffold547	96984	CAAAA/CAAAA	CACGATGGCTAGTGCT TGAA	CGATCGGTATGAACAT TGACC	60.2	276	INTERGENIC	--	--	--
scaffold548_P2_114800	scaffold548	114800	ACCCC/ACCCCC	AATCGACATTCGACCCA CTC	CCCCGCTCTGATAGGT GATA	60.1	384	INTERGENIC	--	--	--
scaffold548_P2_212010	scaffold548	212010	G/GA	GGAACACTTCGGTGTG GACT	CATGTCCCGAAAAGAG CAAT	60.1	563	DRR	Ca_21489	--	--
scaffold548_P2_238316	scaffold548	238316	AATATATATATATATATATATATAT ATATATA/AATATATATATATATATATA TATATATATATA	AACAACTCCTTCGCTC CAA	GTGCTTGCTAAACACA AGCG	59.7	470	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold553_P2_291778	scaffold553	291778	GATAATAATAATAATAATAATAAT/G ATAATAATAATAATAATAATAATAAT	GAACTGCCTTGTGGG GTTA	TTGCAACCTGATCTTT CCA	59.2	609	DRR	Ca_19933	R	MYB
scaffold553_P2_320114	scaffold553	320114	TTATATATATATATATATATAT/TTATA TATATATATATATAT	CCTCTCCCAACCAATAA CCA	GATCCGTGTACGATC CCAC	60.2	581	INTRON	Ca_19934	L	--
scaffold553_P2_325345	scaffold553	325345	GAAA/GAA	GAATTTGAGCATGGGG AAGA	GTGGCAAATCAGCAGA GACA	60.0	756	INTRON	Ca_19934	L	--
scaffold553_P2_325514	scaffold553	325514	CT/CTAT	ATCGGAAGTTGGACAG GTTG	TGGCAAATCAGCAGAG ACAC	60.0	317	INTRON	Ca_19934	L	--
scaffold553_P2_375996	scaffold553	375996	TAAAA/TAAAA	AGCCCATATTGGATGAA TCG	TTGTCCAATCTTCTCA CCC	59.9	669	INTERGENIC	--	--	--
scaffold553_P2_390307	scaffold553	390307	AATATATATATATATATATATATAT AT/AATATATATATATATATATATAT ATATATATAT	TTGTCACAGAAATTGGC AGTTC	TTTTGTTGTGTGACGA CATCC	59.5	222	INTERGENIC	--	--	--
scaffold553_P2_487422	scaffold553	487422	CAA/CAAA	AATTACCGCCAATTAC ACC	CGAGAAGTGACGACGT GAGA	60.2	469	INTERGENIC	--	--	--
scaffold553_P2_589644	scaffold553	589644	ATATGTATGTATGTATGTATGTAT GTATGTATGTATGTATGTAT/ATATATGT ATGTATGTATGTATGTATGTATGTATGT ATGTATGTATGTATGTAT	TAAGCCAATCGACCATG TCA	TCCAATCCAATGTCCA CTT	60.2	290	INTERGENIC	--	--	--
scaffold553_P2_611921	scaffold553	611921	TTATATATATATATATATATATATAT/T TATATATATATATATATATATAT	TCTCTTCAACAACCTGG TCAACA	AGAAGAGAAGAACCAC GCCA	60.0	669	INTERGENIC	--	--	--
scaffold553_P2_73496	scaffold553	73496	A/AGTGTGG	AGCACATCATAGAAATC ATGCC	AGCACATAGTAAACTT GGCG	57.2	258	INTERGENIC	--	--	--
scaffold553_P2_76075	scaffold553	76075	TTATATATATATATATATATAT/TTATA TATATATATATATATATATATAT	GGGAGAATTGTAACAC CCCA	AGCAGCTGCCGTATAC CTTG	60.4	890	INTERGENIC	--	--	--
scaffold553_P2_768310	scaffold553	768310	CTTAATT/CTTAATTAATT	CACCCGAAACTAGAAG CAGG	GAGCATGTTCAAAGTG CGAA	60.0	616	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold5598_P2_8613	scaffold5598	8613	TAAAAAAAAA/TAAAAAAAAA	GTTGCTACTTTCCACG GAA	AGGAGACGGTTGCTTC TCA	60.0	334	INTERGENIC	--	--	--
scaffold5598_P2_9627	scaffold5598	9627	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AAAA	TTTCCACAAGTGAGG GGTC	AAAAACCCCATCCAACA ACA	60.1	472	INTERGENIC	--	--	--
scaffold560_P2_138622	scaffold560	138622	GTAAATAAATAAATAAATAAATAA TAAATAAAT/GTAAATAAATAAATAA AATAAATAAATAAATAAATAAATAA AT	TATTCCTGTTTCATCCCA CAT	CACGCTATATTTAGCC CCTTTT	59.9	506	INTERGENIC	--	--	--
scaffold560_P2_156538	scaffold560	156538	ATTTTTTTT/ATTTTTTTTTT	AGGTGGTGTTGGTGAA GGAG	TCAATGCAGAAACTCA ACCT	57.5	522	INTERGENIC	--	--	--
scaffold560_P2_160741	scaffold560	160741	ATT/AT	TGTTTCATCATGAGGAGA GGG	TGGTCCAATGAATGA GTCTTG	60.0	360	INTERGENIC	--	--	--
scaffold560_P2_30079	scaffold560	30079	TATAATAAATAAATAAATAAATAA TAATAAATAAATAAATAA	GCATTCTCGTTTCATCTC ACG	CGAATCTTGATTTCCGT AACCT	59.5	906	INTERGENIC	--	--	--
scaffold5602_P2_4886	scaffold5602	4886	TG/TGG	ACAAAGGAATGAGTGG CACC	TCAAGTCTCGCACAAAC AACC	59.9	347	INTERGENIC	--	--	--
scaffold561_P2_124753	scaffold561	124753	GCTCTCTCTCTCTCTCTCT/GCTCTC TCTCTCTCTCTCT	GATCGTTTTGGCGTTG ATTT	TTCATGGGTAAAGCCC AAGT	59.4	355	INTERGENIC	--	--	--
scaffold561_P2_25431	scaffold561	25431	CTCTTTCT/CTCT	TTGATTCATCAACACG GGA	AAATTGGGTTCTGCCA ATCA	60.3	399	DRR	Ca_26215	--	MYB_related
scaffold561_P2_84147	scaffold561	84147	T/TG	ATTGACTAGTGGTGG TGCC	AGGCCGCCACAAATA TTAC	59.0	669	INTERGENIC	--	--	--
scaffold562_P2_186797	scaffold562	186797	GTATATATATATATATATATATATAT GTATATATATATATATATATATATAT	GCAGCAAGGACAAATG ACAA	CTATTCGTTCAATCGCC GTT	60.1	940	INTERGENIC	--	--	--
scaffold562_P2_223200	scaffold562	223200	GATTTTGGAT/GATTTTGGATCAAAATA ATTTTGGAT	ATGGGAAATAGCTTGCT GCT	TGGATCTGCATTTTACA GCG	59.8	497	INTRON	Ca_23135	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold562_P2_257117	scaffold562	257117	GTATA/GTATATATA	ATCTTTGGCATCCTCA ACG	GCATGATGCATGTGA GCTT	59.8	289	INTRON	Ca_23136	--	Trihelix
scaffold562_P2_331614	scaffold562	331614	ATTTTTTTTTT/ATTTTTTTTTT	TGTCCAAAGGAGGTGA GAAGA	GCGATTCCACATTGGC TTAT	59.9	723	INTERGENIC	--	--	--
scaffold562_P2_351149	scaffold562	351149	GAAAAAAAAA/GAAAAAAAAA	TTCTTGGGTAGAAAATG CGG	CGACAACCTGGCGATT CTAA	58.9	504	INTERGENIC	--	--	--
scaffold562_P2_36647	scaffold562	36647	ATA/ATATTTA	TCCGCTCATCGCTCTTA GTT	ATAAGACTTGCTTCGG CTGC	59.6	640	INTERGENIC	--	--	--
scaffold564_P2_11737	scaffold564	11737	CTCTTTCT/CTCT	ATGAAGTCGCATCCAA GGAG	ATATCAACCTGCTCCAA CGG	60.0	623	INTERGENIC	--	--	--
scaffold564_P2_12224	scaffold564	12224	A/AC	GGTATTGGGCTCCCTT CCTA	CTCGTGAGGAGCAACA ACAA	60.0	552	INTERGENIC	--	--	--
scaffold564_P2_13897	scaffold564	13897	T/TG	GAGCACATTGGAGGAC ACTG	CGGAGATAAAACAATT GGCA	60.0	659	INTERGENIC	--	--	--
scaffold564_P2_15097	scaffold564	15097	TTAT/TTATAT	TGGAGAAATGCTAAATC CCG	GATGGCAGGTAAAAGC GAAA	60.2	599	INTERGENIC	--	--	--
scaffold564_P2_15227	scaffold564	15227	ATATCTATTATCTATTAT/ATATCTATTAT	TGGAGAAATGCTAAATC CCG	AGATGGCAGGTAAAAG CGAA	59.8	600	INTERGENIC	--	--	--
scaffold564_P2_25971	scaffold564	25971	TA/TAGTTTATTAATAGTTAA	GTATCTGAGCCTCTGC CAGC	AATTGGTGTGTCTGCG TCAA	60.2	555	INTERGENIC	--	--	--
scaffold564_P2_26112	scaffold564	26112	A/AG	GTATCTGAGCCTCTGC CAGC	AATTGGTGTGTCTGCG TCAA	60.2	555	INTERGENIC	--	--	--
scaffold564_P2_2634	scaffold564	2634	ATTTTT/ATTTT	TCGAATGCTCGACTTTA CCC	GCGGAATAACATGTTT GCTT	60.0	641	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold575_P2_103640	scaffold575	103640	ACCCCC/ACCCC	AAACAACGAGTATGGG CGAC	CGCAATTAGCCTCTTC GTC	60.0	707	INTERGENIC	--	--	--
scaffold575_P2_103819	scaffold575	103819	ATT/ATGCCTTATTT	TCTTCTCGCTGACTTGG GAT	CGCAATTAGCCTCTTC GTC	60.0	205	INTERGENIC	--	--	--
scaffold575_P2_110022	scaffold575	110022	C/CCTCT	TTTGGGGATCCAAGTA GCTG	CTGAGGCCTTGACCAG AAAG	60.0	721	INTERGENIC	--	--	--
scaffold575_P2_110510	scaffold575	110510	GT/GTGTAACACT	CTTCTGGTCAAGGCCT CAG	CTAGACCTGCGGAAGA CAGG	60.0	446	INTERGENIC	--	--	--
scaffold575_P2_111632	scaffold575	111632	TA/TAAACAAATAA	GTTCTCTGCTGCTTATC GAC	TTTAACAACCGTGGGC TAGG	60.0	229	INTERGENIC	--	--	--
scaffold575_P2_112885	scaffold575	112885	GCCTGACCT/GCCT	CCTTACACTTTGCTCCT CGC	GGCTTGAGCCTAGCCT TTTT	60.0	419	INTERGENIC	--	--	--
scaffold575_P2_113273	scaffold575	113273	ATT/AT	TTCCGGCAACATTCCGTA TTT	GCCTGACCTATGGCCT ATCA	60.1	283	INTERGENIC	--	--	--
scaffold575_P2_113513	scaffold575	113513	ATCTC/ATCTCTC	TGATAGGCCATAGGTC AGGC	GCTAAGTGCTCTTCC GCTG	60.0	440	INTERGENIC	--	--	--
scaffold575_P2_113710	scaffold575	113710	GAAAAA/GAAAAAA	TGATAGGCCATAGGTC AGGC	GCTAAGTGCTCTTCC GCTG	60.0	440	INTERGENIC	--	--	--
scaffold575_P2_114032	scaffold575	114032	AACTA/AACTACTA	AAAGACCACTTAGCGC AGGA	TCAACTTGCTTGCTTTC CCT	60.0	591	INTERGENIC	--	--	--
scaffold575_P2_114736	scaffold575	114736	A/ATG	GGGAAAGCAAGCAAGT TGAG	AACACAAGTCCTCCCA CCAG	60.0	808	INTERGENIC	--	--	--
scaffold575_P2_118471	scaffold575	118471	A/ACG	TCGTGAAAGAAGCACA CTGG	TTGAAGTGGAGCATAG TGCG	60.0	339	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold575_P2_126334	scaffold575	126334	T/TTCA	CCGACATGTTGTTGACTTGG	GAGCAAATCCCTGCAC TCTC	60.0	762	INTERGENIC	--	--	--
scaffold575_P2_137452	scaffold575	137452	GATATATATATATATATATATATAT/GATATATATATATATATATATATATAT	TGGTGTGGAGTCATGCTTT	AACTTGTGCGTCACATGGAG	59.8	238	INTERGENIC	--	--	--
scaffold575_P2_65125	scaffold575	65125	G/GT	TTGAAGTTAAGGGGTGCTGC	TCCATCCAACCTTG TGATT	60.2	531	DRR	Ca_27003	--	--
scaffold575_P2_66804	scaffold575	66804	CTTTTTTT/CTTTTTTT	AACCGGATGTTGGGATGTAA	CCCATTCACTCCCACTCTGT	60.0	348	INTERGENIC	--	--	--
scaffold575_P2_67025	scaffold575	67025	ATTTAGGGTA/ATTTAGGGTATGGTTAGGGTA	ACAGAGTGGGAGTGAA TGGG	CCTAAGCCTGACCCTA CCCT	59.6	397	INTERGENIC	--	--	--
scaffold575_P2_67830	scaffold575	67830	TGGTTTAGGGTTTAGGGTT/TGGTTTAGGGT	GGGTTAGGGTAGGGTCAGGA	AGGCTGGAATCGGTAA GTGA	59.7	357	INTERGENIC	--	--	--
scaffold575_P2_82264	scaffold575	82264	AAGGGTTAGGGTTAGGGTTAGGGTT/AGGGTTAGGGTTAGGGTTAGGGTT	TGCTTGATTGCTTGAGATCC	CCCTAACTCCCTAAACCCCA	60.2	518	INTERGENIC	--	--	--
scaffold575_P2_82549	scaffold575	82549	TAAAAAA/TAAAAAA	GCAATAACGAAATGGCTGTG	CCCTAACTCCCTAAACCCCA	60.2	101	INTERGENIC	--	--	--
scaffold575_P2_83114	scaffold575	83114	GTTAGGGTT/GTTAGGGTTTAGGGTT	GGGTAGGGTCAGGGTATG	TCCTAACCCCAACCTTAAAA	57.7	519	INTERGENIC	--	--	--
scaffold575_P2_89948	scaffold575	89948	TAAAAAA/TAAAAAA	GGATTGCCCAATAAGAT	CCCTTGTCATTGCTGCTGTA	59.9	722	INTERGENIC	--	--	--
scaffold575_P2_90216	scaffold575	90216	G/GA	CCCAAATTGCAATAACAGG	TACCGTTCCCACTCACA	60.0	637	INTERGENIC	--	--	--
scaffold575_P2_91034	scaffold575	91034	AATATATATATATATATATATAT/AATATATATATATATATATATAT	TGTGAGTGTGGGAAACGGTA	GGCAATGTCATAAACAAAA	58.6	426	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold575_P2_91358	scaffold575	91358	TC/T	TTTTGTTTATGCACAT TGCC	TTCAAGACACCGTAA CACCA	59.1	690	INTERGENIC	--	--	--
scaffold575_P2_92874	scaffold575	92874	A/AT	GCCCTTGAAATTGACAA AGC	TTCTGTGACCGTGCAAT ACAT	60.0	577	INTERGENIC	--	--	--
scaffold575_P2_98341	scaffold575	98341	GCC/GCCC	AGTGCCAACGACGGT ATAG	TACGGGGTTTTAGCGA GTTG	60.1	869	INTERGENIC	--	--	--
scaffold575_P2_98810	scaffold575	98810	TC/T	TAAGCCAGGGCTTTCTT TCA	CCTCCACTCCAAACCT ACCA	60.0	404	INTERGENIC	--	--	--
scaffold575_P2_98925	scaffold575	98925	TC/TCC	TAAGCCAGGGCTTTCTT TCA	GGCTAAGTCTGAAAGT GGCG	60.0	647	INTERGENIC	--	--	--
scaffold575_P2_99188	scaffold575	99188	CT/CTGT	TGGTAGGTTTGAGTG GAGG	GGCTAAGTCTGAAAGT GGCG	60.0	263	INTERGENIC	--	--	--
scaffold575_P2_99345	scaffold575	99345	A/ACGGCCC	CGCCACTTTCAGACTTA GCC	CGTGTGCTTTACCGT AGGT	60.1	240	INTERGENIC	--	--	--
scaffold575_P2_99548	scaffold575	99548	CGG/CGGG	CGCCACTTTCAGACTTA GCC	AGGAAGCAAGGGGAT TCTA	60.0	690	INTERGENIC	--	--	--
scaffold5761_P2_1101	scaffold5761	1101	C/CG	TCCTGGTCCTCGATTTC ATC	AACGCCTTAAAGCCC AAAT	60.0	362	INTERGENIC	--	--	--
scaffold5761_P2_842	scaffold5761	842	CTTTT/CTTTTT	GGTCCTCGATTTCATCT GGA	AACGCCTTAAAGCCC AAAT	60.0	684	INTERGENIC	--	--	--
scaffold577_P2_40910	scaffold577	40910	GTT/GT	GAGTCCGTTTCGATT TCA	GGTCCTCGATTTCATCT GGA	60.0	443	INTERGENIC	--	--	--
scaffold577_P2_69778	scaffold577	69778	AT/ATT	TCGACGACTGAGAGAC CCTT	GACGCATAACGGGAAA CACT	60.0	538	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold5777_P2_16517	scaffold5777	16517	CTT/CTTT	TTGCAATTGGCACACAA AAT	TGAGTTGCTTCAAAGT GATGTG	59.0	742	INTERGENIC	--	--	--
scaffold5777_P2_16560	scaffold5777	16560	TAATAAAATAAATA/TAATAAATAA TAAATAAATA	TTGCAATTGGCACACAA AAT	TGAGTTGCTTCAAAGT GATGTG	59.0	742	INTERGENIC	--	--	--
scaffold5777_P2_16606	scaffold5777	16606	ACTT/ACTTTCTT	TTGCAATTGGCACACAA AAT	TGAGTTGCTTCAAAGT GATGTG	59.0	742	INTERGENIC	--	--	--
scaffold578_P2_11617	scaffold578	11617	CTTTTTTT/CTTTTTT	TTCATTGATCTTTTCG GGG	CCTCGAGAAAAATGGA CCAA	60.0	513	INTERGENIC	--	--	--
scaffold578_P2_38009	scaffold578	38009	C/CGGTCTT	GACTTTTCGAGCGATT TCG	ATCGAGGATGAGGAGA CCCT	60.0	312	INTERGENIC	--	--	--
scaffold5780_P2_2877	scaffold5780	2877	AC/A	GGAATCCGGTTCTTTC CAT	GACCATTATTCACAG GTGG	58.7	765	INTERGENIC	--	--	--
scaffold5780_P2_5394	scaffold5780	5394	CAAAAAA/CAAAAAA	CGTGTCTCCCCGTGT ATTT	ATGTGACACCCTAAAC CCCA	60.1	488	INTERGENIC	--	--	--
scaffold5780_P2_5464	scaffold5780	5464	ATT/AT	CGTGTCTCCCCGTGT ATTT	ATGTGACACCCTAAAC CCCA	60.1	488	INTERGENIC	--	--	--
scaffold5780_P2_5895	scaffold5780	5895	ATT/ATTT	TGGGGTTTAGGGTGTC ACAT	AGGCTTTTCAGGCCCT ATCT	59.3	659	INTERGENIC	--	--	--
scaffold5780_P2_8742	scaffold5780	8742	CTTTT/CTTTT	AAGTCCGATTAGGC CTTT	GTTTGGGTCAAGGCTA TGGA	59.9	444	INTERGENIC	--	--	--
scaffold5780_P2_9297	scaffold5780	9297	GAAAC/GAAACGTCAATAAAAC	TCCATAGCCTTGACCCA AAC	CCCCTGCTTGCAATA ATGA	59.7	404	INTERGENIC	--	--	--
scaffold5781_P2_12542	scaffold5781	12542	A/AT	CAAGGCTGTTTCAGCAT TCA	TTGTCCGTGAGAGACT GCAC	60.0	574	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold5781_P2_2413	scaffold5781	2413	TAAGCAAGCAAG/TAAGCAAG	GTCCAATTTGAATTGTC CGC	CCAAAGAAAAGTTGTT GGCA	58.8	967	INTERGENIC	--	--	--
scaffold5792_P2_19474	scaffold5792	19474	TTATATATATATATATATATATATAT/T TATATATATATATATATATATAT	CCCTTTTCTCACCATCG AAA	AAAATCTCCTTGACACC CCC	60.2	424	INTERGENIC	--	--	--
scaffold5792_P2_55332	scaffold5792	55332	ATTTTTTTTTT/ATTTTTTTTTT	CCAAACTTTGAAAGGCC TGA	GGGAATAGGCTAGACC GTCC	59.9	683	INTERGENIC	--	--	--
scaffold5792_P2_89682	scaffold5792	89682	TAAAAA/TAAAAAA	TGACTCATTGCGATTGTG CATT	CTTCCACCAAGTATC CCCT	60.2	687	INTERGENIC	--	--	--
scaffold5797_P2_6185	scaffold5797	6185	AT/A	TAACGCACCGGACCTT TTTA	GGTTGATTGGTTGTGA TTTCC	59.1	415	INTERGENIC	--	--	--
scaffold5797_P2_9341	scaffold5797	9341	GTTTTTT/GTTTTTTTT	GCCCTATGCAACTCTCA AGG	TGTTGTGTTGAGGAAT GGGA	59.9	341	INTERGENIC	--	--	--
scaffold5801_P2_854	scaffold5801	854	GATT/GATTATT	AGACGCATTACACCA CCA	AAGCGGCATACAAAA CAAC	60.0	582	INTERGENIC	--	--	--
scaffold5812_P2_30560	scaffold5812	30560	G/GC	GTGCTCCATGTTTCC AGT	CCGGATCCTTAGGGT ATGT	60.0	515	INTRON	Ca_27755	--	--
scaffold5812_P2_36812	scaffold5812	36812	ATTTTTT/ATTTTTT	CTAGCTCTCCACCA GTCG	TCAAGTGTTGTTTC ATCA	59.9	664	INTERGENIC	--	--	--
scaffold582_P2_17418	scaffold582	17418	TAAAAAA/TAAAAAA	CAAAGGGAGGACGAA ATGA	AACCAATGTTGTGCAT CCAA	59.8	447	INTERGENIC	--	--	--
scaffold5823_P2_938	scaffold5823	938	GAA/GA	ACACACCTATTGGACG CACA	AGGTCATTTTCGTCCT CCT	59.9	278	INTERGENIC	--	--	--
scaffold583_P2_106064	scaffold583	106064	G/GCCA	GATCGCCAGAAGAGTT ACGC	TAAAAAGCCTTCGAGC CAAA	60.0	470	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold584_P2_76473	scaffold584	76473	AATATATATATATATATATATATAT/AA TATATATATATATATATATATATAT ATATATAT	AGTGAACCAACGCCA AAAC	CCGGAATCACTAGGCT TGTC	59.7	766	INTERGENIC	--	--	--
scaffold5843_P2_781	scaffold5843	781	TC/T	ACGGGGTGTACATTG TGGT	CTATTAGCGTTGGCTC TCGG	60.0	281	INTERGENIC	--	--	--
scaffold586_P2_17534	scaffold586	17534	CATATATATATATATATATATATAT ATATAT/CATATATATATATATATAT ATATATATATATAT	TGTGAGTGAGGTGGTG TGTG	GTAAGATCTCCGCTCG CAAC	60.0	537	INTERGENIC	--	--	--
scaffold586_P2_8356	scaffold586	8356	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATA TATATATA	GCGCGCCAAAAATAGT GTAT	GGTGCTTGTTAAGTTG TGCT	59.3	492	INTERGENIC	--	--	--
scaffold5867_P2_874	scaffold5867	874	TA/T	TCCAGATGAATTCGAG GACC	CTGAACGTTTTGGGCA ATTT	60.0	431	INTERGENIC	--	--	--
scaffold5869_P2_18300	scaffold5869	18300	GAAAAAAAAA/GAAAAAAAAA	TTCCAAATATGCTTGGG ACAC	TGAACCTTTTACACGG TTCTCA	58.9	601	INTERGENIC	--	--	--
scaffold5869_P2_8432	scaffold5869	8432	TTTCTTCTT/TTTCTT	ATTTGCCAACTGCAATT CCT	TCATTATTGGAAGAAA CAAAGAA	57.1	358	INTERGENIC	--	--	--
scaffold587_P2_15238	scaffold587	15238	TG/TGGCATAG	TACCATTTCACCGTAAC GCA	CTCAGCTGTTGAAAGT GCCA	60.2	399	INTERGENIC	--	--	--
scaffold587_P2_18087	scaffold587	18087	T/TCA	GTCCTTGCGCTTATGCT TGT	TGCTTGATTGCTTGAG ATCC	59.0	347	DRR	Ca_27621	--	--
scaffold587_P2_19378	scaffold587	19378	AC/ACC	TTTTGTAGTTGTACTCA ATAACGAAGA	GTGCCAGTCGATTGCC TAAT	60.1	630	INTERGENIC	--	--	--
scaffold587_P2_23045	scaffold587	23045	AC/A	CCCGAAAAGTCCAGAT GAAA	GCGATTTCGTAACCA CTAA	60.0	329	INTERGENIC	--	--	--
scaffold587_P2_29094	scaffold587	29094	GAA/GAAATTAGGAAATAA	TCCAGTCCTCGATTTC ATC	TACGAACATTCCCCGA AAAG	59.9	501	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold587_P2_50853	scaffold587	50853	TAAAAA/TAAAAAA	AGGGGAATTTTCGTAC CACC	ATCGAAGACCAGGAGA CCCT	60.1	638	INTERGENIC	--	--	--
scaffold587_P2_51041	scaffold587	51041	CAAAAAAAAA/CAAAAAAAAA	AGGGGAATTTTCGTAC CACC	ATCGAAGACCAGGAGA CCCT	60.1	638	INTERGENIC	--	--	--
scaffold587_P2_53018	scaffold587	53018	CAAAAA/CAAAA	TACACGAAACCCGAAAC ACA	CGAGGACCAGGAGACC ATTA	60.1	749	INTERGENIC	--	--	--
scaffold587_P2_54888	scaffold587	54888	AATATATATATATATATA/AATATATATAT ATATA	CAAGACATGCGAAAGT CGAA	TCCAGCTTCCTCAAAG CCTA	60.1	484	INTERGENIC	--	--	--
scaffold587_P2_56115	scaffold587	56115	GAA/GAAA	AACTGCCAAAGAGATGT GGG	TGCAGTTCATCTCAT GCTC	60.0	338	INTERGENIC	--	--	--
scaffold587_P2_70502	scaffold587	70502	CAAA/CAAAA	GATGAAATCCAGGACC GAGA	TTCGAACGATTTTCGTA CCC	59.9	732	INTERGENIC	--	--	--
scaffold588_P2_14116	scaffold588	14116	TAAA/TA	TTGGATGCACAAGATTG GTT	AGGTCATTTTCGTCCTC CCT	59.9	369	INTERGENIC	--	--	--
scaffold588_P2_16402	scaffold588	16402	GAAAAA/GAAAA	TTGCATGCACAAGATTG GTT	AGGTGTGTTTCGTTTCC TTGG	60.0	793	INTERGENIC	--	--	--
scaffold589_P2_178513	scaffold589	178513	ACCCC/ACCC	TCAGAAGGCTTCACTC GGAT	GTTTGGGGTTACCAAT GCAC	60.1	693	INTERGENIC	--	--	--
scaffold589_P2_202092	scaffold589	202092	TTATATATATATATATATATATATATATATATATATAT TATATAT/TATATATATATATATATATATATATATAT ATATAT	TGAATGTTCTTCCACACGA	CATGTGTCGCATTCT GAGG	60.3	412	INTERGENIC	--	--	--
scaffold589_P2_309093	scaffold589	309093	TTAAAAA/T	TTTAAAAACGGGGTG CTAC	GTTTGGCGTTGGTTT CACT	60.0	886	INTERGENIC	--	--	--
scaffold589_P2_78723	scaffold589	78723	ACAAAAATTCAAAAATTC/ACAAAAATTC CA	GCCATAGGCCCATAC TCAA	TGAGAAACTTTCCGCT GCT	60.1	641	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold589_P2_88433	scaffold589	88433	C/CAAGACATTAA	ACCTATCACGGTAAG CACG	TACGGTGCTAGGGAAC CAAC	60.0	771	INTERGENIC	--	--	--
scaffold5891_P2_5025	scaffold5891	5025	TTATATAT/TTATAT	GCCAATCGATTATCGCA AGT	CCCTGTGACAAACACA ATCG	60.0	481	DRR	Ca_27904	--	--
scaffold5891_P2_918	scaffold5891	918	TAA/TAAA	CGAGTGACTGCAAGGA TCAA	AGGTCAATTTTCGTCCT CCT	59.9	589	INTERGENIC	--	--	--
scaffold590_P2_119359	scaffold590	119359	TTATATATATATATATATAT/TTATATA TATATATATATATATAT	GGTTTATTGACGGAAG GGGT	TCATGAAATTTTTCGTG GGAA	60.3	408	INTERGENIC	--	--	--
scaffold590_P2_14172	scaffold590	14172	CA/CAA	AAAATCACGTTTGGAG GCAA	TGCAGAACCTTTCGCT TCTT	60.1	400	INTERGENIC	--	--	--
scaffold590_P2_145776	scaffold590	145776	TTAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATAA ATAATAATAATAATAATAATAATAAT A	GGTAACCAATCCGAAG ACGA	ACGGAGTGACCAGGAA ACAC	60.0	776	INTERGENIC	--	--	--
scaffold590_P2_165839	scaffold590	165839	ATTTTTTTTTTT/ATTTTTTTTTTT	TTTTGTTTCAACCCTCC GAC	TAAAGCTCCCTCTCAC GACG	60.5	518	INTERGENIC	--	--	--
scaffold590_P2_19258	scaffold590	19258	TT/TTACCATAGT	TCCTAAGAAAGCTACCC CACC	TGGCAAAGCACAAGAC ACTC	60.0	398	INTERGENIC	--	--	--
scaffold590_P2_19291	scaffold590	19291	AC/ACCCC	TCCTAAGAAAGCTACCC CACC	TGGCAAAGCACAAGAC ACTC	60.0	398	INTERGENIC	--	--	--
scaffold590_P2_19307	scaffold590	19307	A/AAT	TCCTAAGAAAGCTACCC CACC	TGGCAAAGCACAAGAC ACTC	60.0	398	INTERGENIC	--	--	--
scaffold590_P2_19474	scaffold590	19474	AG/AGG	CTATCCATGCATGTGCA ACAC	TGGCAAAGCACAAGAC ACTC	60.0	175	INTERGENIC	--	--	--
scaffold590_P2_220970	scaffold590	220970	TGGG/TGG	GAGAAATGGCAGCCCAA AATA	TCGGTATTTGCCATGA GACA	60.1	427	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold590_P2_3079	scaffold590	3079	AT/ATT	AATAAAAGACCAATCG GAAAAA	TGACAACCATTTATATT TGCCAC	58.8	393	INTERGENIC	--	--	--
scaffold590_P2_3166	scaffold590	3166	TTATATATATATATATA/TTATATATATAT ATA	AATAAAAGACCAATCG GAAAAA	TCAACCAAGTTGGAG GATG	58.5	578	INTERGENIC	--	--	--
scaffold590_P2_46710	scaffold590	46710	AATATATATATATATATAT/AATATATATA TATATAT	GAGAAGGCTGGGTGA ACAA	CGTAGCGTGGTAGTGA GCAA	60.1	874	INTERGENIC	--	--	--
scaffold590_P2_96189	scaffold590	96189	TTATATATATATAT/TTATATATATATATA T	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGGCT CGG	59.9	385	INTERGENIC	--	--	--
scaffold5901_P2_5039	scaffold5901	5039	CAT/CATATAT	AATCGTGGCACTTTTGC TCT	TTCAGGATTGTTGGGG AATC	59.7	493	INTERGENIC	--	--	--
scaffold5904_P2_17347	scaffold5904	17347	TG/T	TCCGTCGAATAACTTGT GGA	ACACCTTCTTTTGCCCT TGA	59.7	958	INTERGENIC	--	--	--
scaffold5904_P2_23362	scaffold5904	23362	CTATATATATATAT/CTATATATATATATA TAT	AATGGAAGGAACCGAG TCAG	GGTCCAAGATCCATCC ATGT	59.6	854	INTERGENIC	--	--	--
scaffold5916_P2_1178	scaffold5916	1178	CAAAA/CAAAAA	TGACACCATTCTCTAGG CCC	AGGGAGGACGAAAATG ACCT	59.9	310	INTERGENIC	--	--	--
scaffold592_P2_18365	scaffold592	18365	GTTTTTTT/GTTTTTTT	TAACCAATCTTGTGCGT CCA	AGGGAGGACGAAAATG ACCT	59.9	873	INTERGENIC	--	--	--
scaffold592_P2_21132	scaffold592	21132	TT/TTAT	TTTTGGTCTCCCTAGG CTT	GGGCGAAAATGACCTA AATG	59.4	807	INTERGENIC	--	--	--
scaffold592_P2_38363	scaffold592	38363	GTTTTTTT/GTTTTTTT	TTTGGTCATTTTCGTCC TCC	ACACACCTATTGGACG CACA	60.0	281	INTERGENIC	--	--	--
scaffold592_P2_42914	scaffold592	42914	CCATA/CCATATCATA	TGCCAGTCAATTGGTTT CAA	TGCTAAGATGCTCTGA TACTTCTG	58.0	430	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold598_P2_126131	scaffold598	126131	GAT/GATCAT	CCATCATCGATATTCAT GCG	TTCCAAACTGAAGCAA GAACA	59.9	170	INTERGENIC	--	--	--
scaffold598_P2_129275	scaffold598	129275	GTTTTTTT/GTTTTTTT	ACTTTGCCGTTGTTGAT CCT	AATGGAACACGCAAGG AAAC	60.0	431	INTERGENIC	--	--	--
scaffold598_P2_131012	scaffold598	131012	GA/GAA	GAGGCTCCTCCTCTAT CGGT	TCCTTAATGACACCCC CAAA	60.2	727	INTERGENIC	--	--	--
scaffold598_P2_165238	scaffold598	165238	ATTTTTTTTTT/ATTTTTTTTTT	TGAAGGAGGAGGATCC TGAA	TGAGAGGGGTTCAAGA GGTG	60.2	696	DRR	Ca_21754	--	--
scaffold598_P2_167184	scaffold598	167184	CA/CAA	GAAAACGCTGCTCAAG TCTTT	TGGGACCTATGGGGTA ATTG	59.5	387	INTERGENIC	--	--	--
scaffold598_P2_225299	scaffold598	225299	TAGGAGCAGGAGCAG/TAGGAGCAGGA GCAGGAGCAG	ACGACCCATATCGAACA AGG	TCCAGAATAAACACGC TGCC	60.2	192	INTERGENIC	--	--	--
scaffold598_P2_232941	scaffold598	232941	CAA/CAA	ACATCCATTTCGGTCC ATA	GCCCTCAGATGAGAGT CAGG	59.9	582	INTERGENIC	--	--	--
scaffold598_P2_272921	scaffold598	272921	CAAAAAAAAAAAAAAAAA/CAAAAAAAAA AAAAAA	CCTGCTGTCTCGCAT TACT	TATCAGAGTTCTCCC ACCG	60.1	795	INTERGENIC	--	--	--
scaffold598_P2_278573	scaffold598	278573	GTTTTTTTTT/GTTTTTTTTT	AGGAACTGGAACAGA GGCA	CTCAGGCCCAATCCAA CTTA	60.1	636	INTERGENIC	--	--	--
scaffold598_P2_299443	scaffold598	299443	TTT/TTTATT	ATTTTAACGGATGTCG AGG	TGTTGGACTTGTGGTT GCAT	60.0	583	INTERGENIC	--	--	--
scaffold598_P2_311554	scaffold598	311554	GTTTTTTTTT/GTTTTTTTTT	ACGAATGCCACACTAA AGG	TTCATTGTGTGCTTTTC ACCA	60.1	408	INTERGENIC	--	--	--
scaffold598_P2_318052	scaffold598	318052	GAAAA/GAAAA	TCGGGAAAAAGAATAC GTGG	AGATTGTGGCGCAGAA GACT	60.0	116	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold598_P2_327519	scaffold598	327519	GAGTTTTGAATTATAGTTTTGAATTATA GTT/GAGTTTTGAATTATAGTT	GTCCTACAATTGGCGAC GGT	AGGCTTCACCACCTGC TTTA	59.9	605	INTERGENIC	--	--	--
scaffold598_P2_376887	scaffold598	376887	TAAAAAAAAA/TAAAAAAAAA	AACGCATCCAGTTATCC AGG	CGTATGGCATGCTAGG GATT	59.9	841	INTERGENIC	--	--	--
scaffold598_P2_392260	scaffold598	392260	CATATATATATATATATATATATATATAT ATATATAT	ATCCCCCTTCATCTTG GAC	TTGTTTGCAAATGCATG CTC	60.8	345	INTERGENIC	--	--	--
scaffold598_P2_392352	scaffold598	392352	GTATATATATATATATAT/GTATATATAT ATATATATATATATATATATATAT	ATCCCCCTTCATCTTG GAC	TTGTTTGCAAATGCATG CTC	60.8	345	INTERGENIC	--	--	--
scaffold598_P2_392540	scaffold598	392540	AA/AATCAAGA	ATCCCCCTTCATCTTG GAC	GAATTCAGCTCATTGC CAAA	58.8	876	INTERGENIC	--	--	--
scaffold598_P2_413659	scaffold598	413659	GAT/GATGATCGTCAT	CCAGGTGCACCTTAACC CAAT	TCACCTTCACAACAAC CAA	60.0	744	INTERGENIC	--	--	--
scaffold598_P2_415109	scaffold598	415109	TAAAAAAAAA/TAAAAAAAAA	CCAAGGCATCATCACAT CAC	CAACCCCTTTTCGTGT TTG	60.4	734	INTERGENIC	--	--	--
scaffold598_P2_478255	scaffold598	478255	AATATATATATATATATA/AATATATATAT ATATA	GTTGGTCCCTAGCAC CGTA	TTTGGCATGAAGTGGA AACA	60.1	753	INTERGENIC	--	--	--
scaffold598_P2_48301	scaffold598	48301	GTTTTTTTT/GTTTTTTTT	GTGGATGCTGGAGGGA ACTA	AACGTTCTCGATCTC CCTT	60.1	345	INTERGENIC	--	--	--
scaffold598_P2_486318	scaffold598	486318	ACC/ACCC	TGTATCCGTCAAAATTG GCA	TTCTCCCCGTAATACA TGC	59.8	480	INTERGENIC	--	--	--
scaffold598_P2_488128	scaffold598	488128	CAAAAAA/CAAAAAA	ATGGTCAAAAAGATGCC TCG	GGCTACACCATCTCGT AGTCG	59.8	785	INTERGENIC	--	--	--
scaffold598_P2_488435	scaffold598	488435	C/CT	AATTTGATTCCGGTGTC TTCA	TGACTTGGTTTTGTATT CGGC	60.0	726	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold598_P2_526319	scaffold598	526319	ATTTTTTTTT/ATTTTTTTT	ACACAAGCGCACTGTG GTAG	GGGCAAATTATTGGGG TTTT	59.9	860	INTERGENIC	--	--	--
scaffold598_P2_537669	scaffold598	537669	AAAAGCTTTTAGAAAGCTTTTAGA/AAA AGCTTTTAGA	CCCGAGTTTCTATCAAG CCA	TGGCGTTCAACTATCC AAGA	59.3	877	INTERGENIC	--	--	--
scaffold598_P2_538613	scaffold598	538613	GTTT/GTT	CATTAAAGGCGCAAAAT GGC	CACTCTGAGCCTTGCT GTTTT	59.7	510	INTERGENIC	--	--	--
scaffold598_P2_563403	scaffold598	563403	CAAAAA/CAAAAA	TTTTGCAATGTGACACA CGA	AACGCATCAATCCTAC GACC	60.0	897	INTERGENIC	--	--	--
scaffold598_P2_568507	scaffold598	568507	CTCAAAATCAAAATCAAAATCAAAATCA AAATC/CTCAAAATCAAAATCAAAATCAA AATCAAAATCAAAATC	CAGCCACTACTATTGGC CTTT	AGGATTCTCCAAGTTG GCCT	60.1	499	INTERGENIC	--	--	--
scaffold598_P2_84328	scaffold598	84328	AATATATATATATATATATATATATA/A ATATATATATATATATATATATATATA	CGCAAATCAAAAGAAT TCAAA	TTCAATGAGCATGAT GGGA	60.0	572	INTERGENIC	--	--	--
scaffold598_P2_90421	scaffold598	90421	AGGGGGGG/AGGGGGGGG	AGCATTCTCATCAGAG CGT	ACGGCCTAGCCTATTT CCAT	60.0	333	INTERGENIC	--	--	--
scaffold598_P2_99722	scaffold598	99722	ATTTTTTT/ATTTTTT	CATCGCTGAATGGCT TAAT	TGACATGTACGGTGAT GCCT	60.0	795	DRR	Ca_21751	R	--
scaffold598_P2_4478	scaffold598	4478	C/CA	TGTGCGTCCAATAGGT GTGT	AGGGAGGACGAAATG ACCT	59.9	561	INTERGENIC	--	--	--
scaffold599_P2_120510	scaffold599	120510	GAAAAA/GAAAAA	AGAGGCTGAAAAACA ACACA	TGCCTTGCAAGCTGA GAGA	59.9	454	INTERGENIC	--	--	--
scaffold599_P2_121963	scaffold599	121963	CAAAAAAAAA/CAAAAAAAAA	TGGAAGGCTAATGGA AGTG	TGAGTTTCATCCCATC CTC	59.9	587	INTERGENIC	--	--	--
scaffold599_P2_123496	scaffold599	123496	GAAAAA/GAAAAA	AACTCGCCAAGCGAAA ATAA	CTCGCAAGTCACAGTC GAAA	60.2	952	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold599_P2_152779	scaffold599	152779	C/CT	CACCAACTTCCGCCACT AAT	CCAAGCAGTGATCGGA GAAT	60.2	525	INTERGENIC	--	--	--
scaffold599_P2_169676	scaffold599	169676	A/ATTTCTGAT	CCCTGAGACTCACGAA GAGG	AAAATCCAACAATCTCC CCC	60.0	573	INTERGENIC	--	--	--
scaffold599_P2_175169	scaffold599	175169	CTTTCTTTTTCTTTTT/CTTTCTTTTT CTTTTTCTTTTT	CTGAGAACATGCATCAG GCT	CCTAGCTGTGAGCTTT TGGG	60.0	717	INTERGENIC	--	--	--
scaffold599_P2_177867	scaffold599	177867	ATTTTTTTTT/ATTTTTTTTT	CCTTACTTATCTCAGCG GCG	AAACGCAATCCTTGAG TTCC	60.2	433	INTERGENIC	--	--	--
scaffold599_P2_187793	scaffold599	187793	CCT/C	TTGGTATTGAACTCGGA GGC	TTCTTTCCACACAACC ACA	60.0	690	INTERGENIC	--	--	--
scaffold599_P2_203598	scaffold599	203598	ATT/AT	TTGCAGATTCTCGACAG TGG	TTCCCCAAAAGTTTTTC CAA	59.4	656	INTERGENIC	--	--	--
scaffold599_P2_207221	scaffold599	207221	TTATATATATATAT/TTATATATATAT	CGTTGGGTGTGGATT TCAT	GCATAAGCTTTTCATTG AGCG	60.0	179	INTERGENIC	--	--	--
scaffold599_P2_254244	scaffold599	254244	CAAAAAAAAA/CAAAAAAAAA	AAGCTAAATAGCACCC GTGG	GGTGCCAATTTATGAG GACG	60.3	710	INTERGENIC	--	--	--
scaffold599_P2_270007	scaffold599	270007	TTCTCTCTCTCTCTCTCT/TTCTCTCT CTCTCTCTCTCTCTCTCTCT	TCAAACACATCAACGA GCA	AATGTATGTCGCCGA AGAG	60.1	845	INTERGENIC	--	--	--
scaffold599_P2_282543	scaffold599	282543	CTTTTTTTTTTT/CTTTTTTTTTTT	AATTTTGGCGTCATGG TTC	TCCATTGTGCCACATC AACT	60.0	392	INTERGENIC	--	--	--
scaffold599_P2_284681	scaffold599	284681	GAAAAAAAA/GAAAAAAAA	AACGAACTCTACCGG CTTT	GGCCTGAAAGCATACC AAAA	60.1	634	INTERGENIC	--	--	--
scaffold599_P2_285996	scaffold599	285996	CTTTTTTTTTTT/CTTTTTTTTTTT	GAGTTGATGTGGCACA ATGG	CATCTCCAGCGGTAAT TTCAA	60.1	603	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold599_P2_323301	scaffold599	323301	TTATATATATATATATATATATATA/TT ATATATATATATATATATATA	AAAAATACGGCAAAGCA AAA	TTGAGGTTGAGAGTCT TTTCCA	59.0	732	INTERGENIC	--	--	--
scaffold599_P2_325844	scaffold599	325844	GAAAAAAAA/GAAAAAAAA	TGAAACACACAAAAGCT CACG	AACCAATGTGGTCGGA AAAA	60.2	721	DRR	Ca_25345	--	--
scaffold599_P2_329422	scaffold599	329422	CAAAAAAAAA/CAAAAAAAAA	CACGTAAATCGCCTAA AATCT	CCGATAGTAAACGAC ATCCTG	58.7	562	INTERGENIC	--	--	--
scaffold599_P2_330437	scaffold599	330437	AAATATTTCAAATT/AAATATTTCAAATT AATATTTCAAATT	AAAATTCTGTTTGGGG ACC	TTGAGTATTGCTTGC CTTG	59.1	599	INTERGENIC	--	--	--
scaffold599_P2_335351	scaffold599	335351	CTTTTTTTTT/CTTTTTTTTTTT	GCCAACCATGTAAATCG CAT	TCAATCATCAATTTTTG TGTGTTTC	60.1	327	INTERGENIC	--	--	--
scaffold599_P2_335786	scaffold599	335786	T/TCA	TTTGAAACACACAAAA TTGATGA	AGCAAACTGCATGCA AAAA	59.5	793	INTERGENIC	--	--	--
scaffold599_P2_338561	scaffold599	338561	CTATATATATATATATATATATA/CT ATATATATATATATATATATA	ATTGGGTGGGATACA ATGA	GATCTTGAAAAATTGAT GGTGC	58.6	307	INTERGENIC	--	--	--
scaffold599_P2_347393	scaffold599	347393	CTTTTTTT/CTTTTTT	CCTCTTTTCTTCGATT TCG	AACAACAGCCCAATG TAGC	60.0	504	INTERGENIC	--	--	--
scaffold599_P2_352138	scaffold599	352138	TT/TTTTATATAT	GGTGGAATATTTGCATG AACC	TGATGACAAAAGTAAG GAAGAGGA	59.3	955	DRR	Ca_25346	--	--
scaffold599_P2_358992	scaffold599	358992	CAAAAAAAAA/CAAAAAAAAAAAAA	GGGGTTTTAGAAAAC CGTCA	TTTTGCCTTGCCATATC TTTTT	60.0	349	INTERGENIC	--	--	--
scaffold599_P2_364148	scaffold599	364148	CTATATATATATATATATATATA/CTATA TATATATATATATATAT	GCAAGCACCGTTGTGA GTAA	TCTTTAGTAGCCCGCC AAGA	60.0	784	INTERGENIC	--	--	--
scaffold599_P2_366068	scaffold599	366068	ATTTTTTTTT/ATTTTTTTTTT	AGAGCGCAATCATTTC GGT	CTTTTGAAAGAAGCC CTCC	60.2	613	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold599_P2_369580	scaffold599	369580	T/TCA	AGGGCACTTTGGAAA CCTT	TCATTTAAAGGCCTCAA TACGAT	59.1	492	INTERGENIC	--	--	--
scaffold599_P2_371527	scaffold599	371527	TAAAAAA/TAAAAAA	CAGCGTTGTTGTTGTTG TTTTT	TTTCGAATGAACATGG ATGA	57.4	531	INTERGENIC	--	--	--
scaffold599_P2_373801	scaffold599	373801	TAAAAAAAAA/TAAAAAAAAA A	CCCCCTAAGTTCATTCG ACA	GGCTTGTCGCGGTGA AATA	60.0	567	DRR	Ca_25347	--	--
scaffold599_P2_391375	scaffold599	391375	GTTTTTTTTTTT/GTTTTTTTTTTT	TGCGGTGAAGAAGAAC AGTG	CACATCAAGAGGAAA TGCC	58.1	666	INTERGENIC	--	--	--
scaffold599_P2_410067	scaffold599	410067	GTTTT/GTTT	ATCGATTCCCAATCGG TTA	TATACCCTATAGCCAC GGCG	60.0	609	INTERGENIC	--	--	--
scaffold599_P2_51753	scaffold599	51753	TG/T	TGCATCCAACAGGTGT GTTT	CCTTTGGAGGACGAAA ATGA	60.0	662	INTERGENIC	--	--	--
scaffold599_P2_75672	scaffold599	75672	ATGTGTGT/ATGTGT	TTGCCTCTTTTGTCT CATCA	ACAAATTTGCCACCGTT TTT	59.4	423	INTERGENIC	--	--	--
scaffold599_P2_80987	scaffold599	80987	TAAAAAAAA/TAAAAAAAA	TCGTCGATTTTAGATCG GTTG	CAAATTTGCCACCACCT TTT	59.8	413	INTERGENIC	--	--	--
scaffold599_P2_87125	scaffold599	87125	TAAAAAAAA/TAAAAAAAA	AAAAAGCAAGACGTC ACAAA	GAGGAACGATGTTGA AGGA	60.1	520	INTERGENIC	--	--	--
scaffold599_P2_87205	scaffold599	87205	ATTTT/ATTTT	AAAAAGCAAGACGTC ACAAA	GAGGAACGATGTTGA AGGA	60.1	520	INTERGENIC	--	--	--
scaffold599_P2_87478	scaffold599	87478	CAAAAAAAAA/CAAAAAAAAA	GCGGTGGCAAAATTTGT TATT	GAGGAACGATGTTGA AGGA	60.1	330	INTERGENIC	--	--	--
scaffold599_P2_91366	scaffold599	91366	GTATATATATAT/GTATATATATAT ATATATAT	TAAAGAGATTCGCAGC GGTT	ACTTGCGAGAGCGCAG TTAT	60.2	372	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold599_P2_95270	scaffold599	95270	GTT/GTTT	CGTGCTCTTTTGTCTCA	AATAAATTGCCACCGT TTTT	57.6	469	INTERGENIC	--	--	--
scaffold5992_P2_1551	scaffold5992	1551	G/GA	CGAGGTAAGGGGTGAG ATGA	TCCCCGAATCACTAGG TTTG	59.9	544	INTERGENIC	--	--	--
scaffold5992_P2_921	scaffold5992	921	TTCTCCTCTCCTCTCC/TTCTCCTCTCC TCTCCTCTCC	TTGGAGAACTTTTCCG CTG	TCATCTCACCCCTTACC TCG	60.1	686	INTERGENIC	--	--	--
scaffold5993_P2_18562	scaffold5993	18562	GTTTTTTT/GTTTTTTT	TTGATGTACGAAAAGTT TTAGCAAG	GGGGGCACCTTATTTAT CACTT	57.1	267	INTERGENIC	--	--	--
scaffold5993_P2_18598	scaffold5993	18598	CTTATATTTTTATATTTTATATTTT/CTT ATATTTTTATATTTT	TTGATGTACGAAAAGTT TTAGCAAG	GGGGGCACCTTATTTAT CACTT	57.1	267	INTERGENIC	--	--	--
scaffold601_P2_125813	scaffold601	125813	GATATATATATATATATATATATA/GATA TATATATATATATATATATATATATA	TACGTAGTAAGCCCCG GATG	AGTGGCGAGCAATAAC CAAT	59.6	460	INTERGENIC	--	--	--
scaffold601_P2_49572	scaffold601	49572	CTTTTTTT/CTTTTTTT	GGGGACATTTTCGAGAG TCAA	TCACAAGGGAGGCTCT ATGG	60.2	519	INTERGENIC	--	--	--
scaffold601_P2_63797	scaffold601	63797	GAAAAAAAAA/GAAAAAAAAA	CCACAATGCACAAGCAA AAC	GGGACTACTTTCGCGA ATCA	60.2	671	DRR	Ca_27093	--	--
scaffold601_P2_95778	scaffold601	95778	TGG/TCAGCAGGG	CTGAAATTGGTCGTGC CTTT	GGAGTCGTTTCTCCA ACAA	60.1	437	INTERGENIC	--	--	--
scaffold6022_P2_19852	scaffold6022	19852	TC/TCC	TCATTTTCGTCCTTCCT TGG	GTATGGCTGGAGAATG CGAT	60.1	687	INTERGENIC	--	--	--
scaffold6022_P2_20892	scaffold6022	20892	GTTT/GTTTT	AGCGCTGTTTATCGCAT TCT	ATCGATTTCTCAGCA CTGG	60.2	534	INTERGENIC	--	--	--
scaffold604_P2_14590	scaffold604	14590	TAATAAATAAATAAATAAATAA/TA ATAAATAAATAAATAAATAA	TGGGCTTCAACTTTTTG GAC	CGATTTTTGATTGCATG CTT	58.8	536	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold604_P2_15841	scaffold604	15841	AT/A	CAAAATCTCTAATTT GCTTTCC	TTGGGATAGCTTTTG CCAC	60.1	807	INTERGENIC	--	--	--
scaffold604_P2_40273	scaffold604	40273	CTTTTTT/CTTTTTTTT	CCAACGCTGAGTAG GAGG	ACCGAATTGGATTGGT GAAA	60.2	575	DRR	Ca_27531	--	--
scaffold604_P2_70429	scaffold604	70429	CTTTTTT/CTTTTTTTT	ACGCATTATTGGATGC ACA	TGAAACGTTTGGAGAG TGGA	59.3	776	INTERGENIC	--	--	--
scaffold604_P2_73679	scaffold604	73679	TCC/TC	GAAGGCACAACCTGAC CAAT	AATGGCTACCACATCC AAGG	59.8	337	INTERGENIC	--	--	--
scaffold605_P2_52612	scaffold605	52612	AAATAATAATAAAT/AAATAATAATAA TAATAAT	GGTTGCATGAATGACG TTTG	TTTCCTAGCAGAAGGA CCCC	60.6	176	INTERGENIC	--	--	--
scaffold6055_P2_14409	scaffold6055	14409	GT/GTT	GGTAAGGCTCCTTCC AAAC	AACGATTTCCACCCAAA ACA	60.2	583	INTERGENIC	--	--	--
scaffold6066_P2_2831	scaffold6066	2831	CCT/C	CTGCAAGCAACCATCT CAA	CCTCAGATGAGAGCCA GGAC	59.9	797	INTERGENIC	--	--	--
scaffold6113_P2_1438	scaffold6113	1438	GAAAA/GAAAAA	ACAAGCCTATCGTTTGG CAC	GATGCAACATTGGAGC ATGA	60.6	589	INTERGENIC	--	--	--
scaffold612_P2_17406	scaffold612	17406	CATAATAATAATAATAA/CATAATAA TAATAATAATAATAATAA	CCCAATCACCTAACTT GTGAA	TGTAAAAGTCGATCG GACA	60.4	221	INTERGENIC	--	--	--
scaffold612_P2_28576	scaffold612	28576	GAAAAA/GAAAAAA	AAAAAGGAGGGTGCAC ATGAT	TCACCAATATCTTAACC ACCAAAA	59.7	701	INTERGENIC	--	--	--
scaffold612_P2_30300	scaffold612	30300	TAAA/TAA	TGCCACAAATTCGAG GACT	ACACGTTAAATCGCATA AAATCT	57.1	321	INTERGENIC	--	--	--
scaffold6120_P2_2075	scaffold6120	2075	CTTTTT/CTTTTT	AATCAAAGTCGGTCTG GTGG	AGCAAGCTCTGCTTGA CACA	59.9	797	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold6120_P2_3713	scaffold6120	3713	GAGATA/GA	TCTGAAAGCCGTGAA GACC	CGTGACAACCAAC TCTTT	60.1	929	INTERGENIC	--	--	--
scaffold6125_P2_1553	scaffold6125	1553	TAAAGA/TA	ATGCGATCCTCTCGTT CTA	GAGACCGAAGAGTATT GGGAGA	59.7	838	INTERGENIC	--	--	--
scaffold613_P2_78619	scaffold613	78619	CNNNNNNNNN/CNNNNNNNN	ATTGAAATTCGGTTTG TGC	TAAAGACGACGGAGT TGCC	60.2	763	INTERGENIC	--	--	--
scaffold6154_P2_548	scaffold6154	548	CCGCCTCA/CCGCCTCAGGCGCCTCA	AACCGCTCCAATGGTG TTAG	GAAGATGATGTGCGCT TGAA	60.0	221	INTERGENIC	--	--	--
scaffold6154_P2_586	scaffold6154	586	AT/ATCT	AACCGCTCCAATGGTG TTAG	GAAGATGATGTGCGCT TGAA	60.0	221	INTERGENIC	--	--	--
scaffold617_P2_1781	scaffold617	1781	A/ATAT	GGACAAAACGAAACCA ATCAA	TTGGGGTTTAGGGTTT AGGG	60.0	659	INTERGENIC	--	--	--
scaffold6177_P2_3708	scaffold6177	3708	AG/A	TTTTTGTCATCATCGGA CCA	AAATCCGTTTGGATTG CAG	59.9	613	INTERGENIC	--	--	--
scaffold6179_P2_967	scaffold6179	967	TAAAAAAA/TAAAAAAA	TGGGTGCACAAGATTG GTTA	AGGTCATTTTCGTCCTC CCT	59.9	468	INTERGENIC	--	--	--
scaffold618_P2_197211	scaffold618	197211	AATATATATATATATATA/AATATATAT ATATATATATATA	TGTTGAGCACCTAGGG ACATT	AACATCAGTCAAGCGC ACAC	59.9	758	INTERGENIC	--	--	--
scaffold618_P2_24350	scaffold618	24350	TA/TAA	GAACACGTTTGTGTG GTCG	TTCAAATTGATGATGT CCCA	58.8	299	INTERGENIC	--	--	--
scaffold618_P2_3219	scaffold618	3219	AATATATATATATATATATATATATAT ATATATATATATAT/AATATATATATATAT ATATATATATATATATATATATATATA TAT	AAGAAGAAAGGGTTG GGAA	TATTTTCATTGGCCAGA GGC	60.0	739	INTERGENIC	--	--	--
scaffold618_P2_54529	scaffold618	54529	AAAAACATAATCATAAAAAACATAATCA TAAAAACATAATCATAAAAAACATAATCA T/AAAAACATAATCATAAAAAACATAATC ATAAAAAACATAATCAT	TTGTCTCAACAATCTCC CCC	GCCAACTCTGATGTT CCAT	59.9	492	DRR	Ca_27362	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold618_P2_87840	scaffold618	87840	AT/ATTATTATTATT	TGAGGGTGTGGGTA TTTG	TATTGTACGTAGCGAG CCCC	60.1	599	INTERGENIC	--	--	--
scaffold6185_P2_2912	scaffold6185	2912	GA/G	GCAAAGTCGCATTATG GTATGA	AGCCCTCACATTAATTC GCA	60.6	740	DRR	Ca_27924	--	--
scaffold6185_P2_3433	scaffold6185	3433	TAAAA/TAAAA	GCAAGCCATTGTCCAT TTT	TCAGCTCACTCTCGCT TTGA	60.0	190	DRR	Ca_27924	--	--
scaffold6185_P2_569	scaffold6185	569	TTATCCCACTCAAAA/TTATCCCACTCA AAATATCCCACTCAAAA	TGAGTTGGACTCGTTG GAAA	TTGGGTGAAATGGCTA AAGG	59.9	864	INTERGENIC	--	--	--
scaffold6185_P2_6573	scaffold6185	6573	CAAAAAAAAA/CAAAAAAAAAAAAA A	TGCACATTTTACAGCGC TTC	AATCTTTTAAACTCCAT GGTGAAA	58.2	785	URR	Ca_27924	--	--
scaffold619_P2_14013	scaffold619	14013	GTTTTTTT/GTTTTTTT	TGTTGGACTGTCCATT TCA	TCAACAAAAGCTTGAG CCCT	60.0	108	INTERGENIC	--	--	--
scaffold6199_P2_831	scaffold6199	831	A/ATTATT	TCATCCAATGACCCAAA CAA	TTACGTAATTTTCGTCG CCC	60.0	577	INTERGENIC	--	--	--
scaffold62_P2_150253	scaffold62	150253	AGTTGTCCAAT/A	AACATTTAAGAAAATTG AGTTGTCAAA	GTGTGTTGGGCTGTTT AGGG	60.4	405	INTERGENIC	--	--	--
scaffold62_P2_20787	scaffold62	20787	TAAAAAAAA/TAAAAAAAAAAAAA	ACCAAGTTTCCCTTCA CCT	AATGGGCGCTGTAAA TGTC	60.0	660	DRR	Ca_26576	--	--
scaffold62_P2_338714	scaffold62	338714	ATT/ATT	CCATCGTCAAGTCCGA AAAT	CCAAAACGAAACCC AAAA	59.9	565	INTERGENIC	--	--	--
scaffold62_P2_44828	scaffold62	44828	A/AG	GTATTGACGTGTGGCG AATG	CTGCAGTCAAGCGTTC ACAT	60.1	397	INTERGENIC	--	--	--
scaffold62_P2_81760	scaffold62	81760	ATTT/ATTTT	TGAGCAACAAATCAGCA AGG	GGTTGCATGAATGACG TTTG	60.0	556	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold62_P2_81841	scaffold62	81841	CT/CTT	TGAGCAACAAATCAGCA AGG	GGTTGCATGAATGACG TTTG	60.0	556	INTERGENIC	--	--	--
scaffold622_P2_10235	scaffold622	10235	TAAAAA/TAAAAAA	ATAGGCCTAGGGAGGA CGAA	TTTAGCCAACCTGTGCA TCG	59.9	381	INTERGENIC	--	--	--
scaffold622_P2_30884	scaffold622	30884	A/AC	TGGGTGCACAAGATTG GTTA	AGGGGTGTTTGAGTCA TTGG	59.8	832	INTERGENIC	--	--	--
scaffold622_P2_46025	scaffold622	46025	A/AC	CACTCCTATGGGATGC ACAA	AGGTCATTTTCGTCCTC CCT	59.9	373	INTERGENIC	--	--	--
scaffold622_P2_61725	scaffold622	61725	GACACACACACAC/GACACACAC AC	CAAAACCCACCTATTGGA TGC	GGTCATTTTCGTCCTC GCTA	60.2	310	INTERGENIC	--	--	--
scaffold622_P2_68177	scaffold622	68177	T/TA	GCGGACGAAATGACC TAAA	ATTTCGTCATCCCTAG GCT	59.9	510	INTERGENIC	--	--	--
scaffold622_P2_84488	scaffold622	84488	CAAAAA/CAAAAAA	ACCCAGTGACCATATT GGA	CATCCGCCCTAGGCTT ATT	60.4	374	INTERGENIC	--	--	--
scaffold624_P2_129835	scaffold624	129835	AATATATATATATATATAT/AATATATA TATATATATATATATATATAT	GGCTTCTAGCCCAGTTT TTG	TGTTCACTAGCACCGT AGCG	60.1	386	INTERGENIC	--	--	--
scaffold624_P2_266315	scaffold624	266315	T/TGTGG	GCCCTCAGATGAGAGT CAGG	CCTCCATCGAATTCTC CAA	60.0	803	INTERGENIC	--	--	--
scaffold626_P2_172733	scaffold626	172733	C/CAATTA	GTGAGCAAAATGCTGG GAAT	GTTGTGAGTTGTTGG GGCT	60.0	393	INTERGENIC	--	--	--
scaffold626_P2_219233	scaffold626	219233	CAAA/CAAAA	GGATTTAGGGTTTGG CCTT	GATGAAATCGAGGACT GGGA	60.0	654	INTERGENIC	--	--	--
scaffold626_P2_224966	scaffold626	224966	CTTTTT/CTTTTTT	CGCAAGAACTCCACAA CAAA	GGAGGGCTGGAACATC TGTA	60.1	433	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold626_P2_225194	scaffold626	225194	T/TG	TACAGATGTTCCAGCC CTCC	GAACCTGTACCTCCAG CCAA	60.1	501	INTERGENIC	--	--	--
scaffold626_P2_236880	scaffold626	236880	AGGG/AGG	CCCATCCACAAAATAT GCC	GATGAAATCGAGGACC AGGA	60.0	302	INTERGENIC	--	--	--
scaffold626_P2_242253	scaffold626	242253	A/AAAAATGATCGTCTTC	CCGATGCGTAGATTGA CAGA	GGTAACCAATCCGAAG ACGA	59.9	177	INTERGENIC	--	--	--
scaffold626_P2_258123	scaffold626	258123	ATTTTT/ATTTTTT	AACTGTGTTTCGGGTG TGG	CTTTTCGGGCGATTTT CATA	60.0	432	INTERGENIC	--	--	--
scaffold626_P2_268228	scaffold626	268228	CAA/CAAA	TAACCCAAACCTCAAAC CCA	TTCATCTGGACTTTTTG GGC	60.1	760	INTERGENIC	--	--	--
scaffold626_P2_270284	scaffold626	270284	AAGGA/AA	CCCCAGAAAAGACCAG ATGA	AGGGTCTCTTGGTCCT CGAT	60.1	669	INTERGENIC	--	--	--
scaffold626_P2_275345	scaffold626	275345	TCGAG/TCGAGGACCGAG	TCCGCATCAAATTTCAA ACA	ATGCTATGTGGGACTC TCGG	60.1	390	INTERGENIC	--	--	--
scaffold626_P2_27921	scaffold626	27921	TTATATATATATATATAT/TTATATATA TATATAT	CGATCAAGGTACAGGG AGGA	TAAGGTTGTCTGGGGA GGTG	60.0	594	INTERGENIC	--	--	--
scaffold626_P2_334424	scaffold626	334424	C/CGCT	TGCATAGGCCTCTTGTC CTT	AACCTGTGTTTCAGGTT CCG	60.0	728	INTERGENIC	--	--	--
scaffold626_P2_33804	scaffold626	33804	TAAAA/TAAA	TTTTGGCGATTTTCTTA CCG	GGTCCGCTTAGATT TCAA	60.1	581	INTERGENIC	--	--	--
scaffold626_P2_452443	scaffold626	452443	CAAA/CAAAA	GGTCTCGATTTTCATCT GGA	CGAAAATCGCTCGAAA AGTC	60.0	336	INTERGENIC	--	--	--
scaffold626_P2_454559	scaffold626	454559	ACC/ACCCC	TAAGTGTTCGCGGTT CCG	GGTCTCGATTTTCATCT GGA	60.0	292	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold626_P2_464649	scaffold626	464649	GT/G	CAGTGTTCGATTCTG GGT	TTCAACTGGACGTTA GGC	60.1	769	INTERGENIC	--	--	--
scaffold626_P2_482945	scaffold626	482945	GAA/GAAA	TACATTGGACTTTTCG GGC	AATTGTGTTTCAGGTC CGC	60.0	855	INTERGENIC	--	--	--
scaffold626_P2_504911	scaffold626	504911	AG/A	CTATGTTTTTGGTTCCG CGT	GTTTCGTACCCCTCGA CAAA	60.0	930	INTERGENIC	--	--	--
scaffold626_P2_512589	scaffold626	512589	ATTTA/ATTTAGGGTTTA	CCCGACAAAACGGAC TAAA	ATAACCCGAACCTCAAA CCC	60.1	359	INTERGENIC	--	--	--
scaffold626_P2_515112	scaffold626	515112	TTAT/TTATAT	CGTTATAAAGTAAACT ACATTGCGAA	AAATTTAGGAGACGAAT GCTTTTT	58.9	848	INTERGENIC	--	--	--
scaffold626_P2_520360	scaffold626	520360	CTTT/CTTTT	AAGGTCTCCTGGTCCTT GGT	CACGAAACCCGAAACA AAGT	60.0	515	INTERGENIC	--	--	--
scaffold626_P2_522371	scaffold626	522371	CTTT/CTT	TTTGTCGAGGGGTACG AAAC	GGTCCTCGATTTCATCT GGA	60.0	691	INTERGENIC	--	--	--
scaffold626_P2_524724	scaffold626	524724	ATTTTTTTTTTT/ATTTTTTTT	AAATCCCCGAAAATAC CAG	TCCAGATCAAATCGAG GACC	60.0	670	INTERGENIC	--	--	--
scaffold626_P2_553162	scaffold626	553162	AT/A	TCCAGATGAAATCGAG GACC	TTTCATTTGGGCTTTTC AGG	60.0	325	INTERGENIC	--	--	--
scaffold626_P2_554690	scaffold626	554690	TAAGAAGAAGAA/TAAGAAGAA	GGTCCTCGATTTCATCT GGA	CCATCGTCTGGTTCGA AAAT	59.9	415	INTERGENIC	--	--	--
scaffold626_P2_55641	scaffold626	55641	ACC/AC	CATGTCAAAAGGGGGA GAAA	CACAAAGGATTTTGC CACT	60.0	482	DRR	Ca_25170	--	--
scaffold626_P2_561543	scaffold626	561543	GA/G	CGTCGATGGGTACGAA AGTT	TTTCATCTGGTCTTTTC GGG	60.0	393	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold626_P2_631432	scaffold626	631432	ATAT/A	TTGATTTGACCACCCAT TTTT	CAGCCCAACACACTAA ACCC	60.4	242	INTERGENIC	--	--	--
scaffold626_P2_94461	scaffold626	94461	CATATATATATAT/CATATATATAT	AGTGTGTGCAATGTTAC TTTATTCAA	GGGTTTGAGGTTCTGGG TTAT	60.1	695	INTERGENIC	--	--	--
scaffold627_P2_19300	scaffold627	19300	CTTTTTTT/CTTTTTTTT	TGATTGAACAAAATGCG GAA	TCCCCCAACAGAATTT GAG	59.9	544	INTERGENIC	--	--	--
scaffold627_P2_22209	scaffold627	22209	TGGGGCT/TGGGGCTCTGGGGGCT	AGTTTGAGTCGGTGCG AGTT	GCCCATAGGCCCACTT ATTT	60.2	842	INTERGENIC	--	--	--
scaffold629_P2_30227	scaffold629	30227	AATATATATATATATAT/AATATATATA TATATATATAT	TGAACAACCCGAACCTG CAT	TTAGGGTGGATCAGTT CGGT	59.4	734	INTERGENIC	--	--	--
scaffold629_P2_30545	scaffold629	30545	G/GT	CCGAAGTATCCACCC TAAA	TTTGATGCAACTGAATG TGG	58.1	180	INTERGENIC	--	--	--
scaffold629_P2_91066	scaffold629	91066	CATATAT/CATAT	TGCAAAAACCACTTTCA AGG	TTTGACCAATTTTGTG GCT	60.3	620	INTERGENIC	--	--	--
scaffold63_P2_19424	scaffold63	19424	T/TA	CAATTGGGAAATCAATT GGG	CGATGTGCAATCGAA TATG	59.9	362	INTERGENIC	--	--	--
scaffold63_P2_59319	scaffold63	59319	TAA/TAATAAA	CGAGGTAAGGGGTGAG ATGA	AGGTTTGCAGACCCT CCCT	60.0	481	INTERGENIC	--	--	--
scaffold63_P2_65167	scaffold63	65167	ATTTGGTTTGGTTTGGT/ATTTGGTTTG GT	GGCTTGATAGCAACTG ATGGA	CACCGATTCCCAACAA TTAGA	59.8	811	INTERGENIC	--	--	--
scaffold63_P2_6585	scaffold63	6585	GTT/GTTT	CCCCAGCTTTGTTGTTT CAT	CCAATTTTGAATGAAG GCGT	59.9	600	INTERGENIC	--	--	--
scaffold63_P2_8644	scaffold63	8644	TAAA/TAA	ACCCCATCCTTGTGTTT TCA	TATGTTTCGAGCCGGC TATC	60.2	425	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold639_P2_103317	scaffold639	103317	AATATATATATATATAT/AATATATATATATATATAT	TTCGACTCCCTTCCCTT TTT	CATTCTTTTATGCGTT GGC	58.3	551	INTERGENIC	--	--	--
scaffold639_P2_11325	scaffold639	11325	T/TC	TGGTGCAATTTACTTTC TCGG	TTCGGTTCTTGTTGCC TTT	59.7	783	INTERGENIC	--	--	--
scaffold639_P2_156816	scaffold639	156816	TAAA/TAAAA	GCTAAAAGCTAAAAGCT AAAAGCTAAA	GGGTTGAGGGTTAAGG GTTG	60.6	367	INTERGENIC	--	--	--
scaffold639_P2_160230	scaffold639	160230	GACCCTTAACCCCTTAACCCCTTAACCG/GA CCCTTAACCCCTTAACCCCTTAACCCCTTAA CC	TGGGTTTAGGGTGTGT TTTGA	TTTTGGGTTTCAGGTTT AAGG	58.2	392	INTERGENIC	--	--	--
scaffold6391_P2_2129	scaffold6391	2129	AA/AAATTA	TGCAATGTTTCATTTTC AACAA	TTTGTTTTGGGGGTGT CATT	60.1	209	INTERGENIC	--	--	--
scaffold6394_P2_4743	scaffold6394	4743	ATTTTTTT/ATTTTTTTT	TTTCGGTCATTTTCGTG CTC	AATCCAATGACGCAAA CACA	60.0	730	INTERGENIC	--	--	--
scaffold642_P2_171116	scaffold642	171116	CC/CCGCTCTTCCAAGTTTTC	GGCTCTGTTGGTCAGC TTTC	AAAATTGGGCTCGCTA GGTT	60.1	157	INTERGENIC	--	--	--
scaffold642_P2_211590	scaffold642	211590	AATATATATATATATATA/AATATATATATATATATATATA	TCGTGTCTCGAACTCA AGAAG	AGTGTGTGCTTTGGTT TCCC	60.0	548	INTERGENIC	--	--	--
scaffold642_P2_27247	scaffold642	27247	TGATTGGTTTGTGAGATTGGTTTGT TG/TGATTGGTTTGTGAGATTGGTTT GTTTGAGATTGGTTTGTGTTG	GAGAAGCGAAAGCGAA GAGA	GGAAGGGTAGAACGTA GGGC	60.0	451	INTERGENIC	--	--	--
scaffold642_P2_27309	scaffold642	27309	CT/CTGAAGATTGT	GAGAAGCGAAAGCGAA GAGA	GGAAGGGTAGAACGTA GGGC	60.0	451	INTERGENIC	--	--	--
scaffold642_P2_287766	scaffold642	287766	TTTTATTTATTTATTTATTTAT/TTTTAT TTATTTATTTATTTATTTATTT	AAAAATGGGAGAAGGG GTTG	ATTTGGAACCTGGGCT TCCT	59.9	366	INTERGENIC	--	--	--
scaffold642_P2_337812	scaffold642	337812	AAATCGATT/AAATCGATTAGCCAATCG ATT	CGTGGTAATCGCGTAG GAAT	ATCGCTTTGGTCGAAT ATGG	59.9	248	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold643_P2_56303	scaffold643	56303	TAAA/TAAA	AGTGTGGATGGCAGGA AATC	TCCGATTGGATTTTCAG GAC	59.9	689	INTERGENIC	--	--	--
scaffold643_P2_71230	scaffold643	71230	TTGTG/TTG	CCACATTCTTAACGCC AGT	CATTGCGAACGGAGAT TTTT	60.1	446	INTERGENIC	--	--	--
scaffold643_P2_71595	scaffold643	71595	CATATATATAT/CATATATATATATAT AT	GGTAAAAATCTCCGTG GCA	ATCGCTTCTCAACGCA TCTT	60.0	616	INTERGENIC	--	--	--
scaffold645_P2_254689	scaffold645	254689	AATATATATATATATATATATATATAT ATATAT/AATATATATATATATATATAT ATATATATATATAT	CACCGTAGTGTGGTGG TGAG	ATTTTGGCTCGGAGGT TTTT	59.9	659	INTRON	Ca_25158	I	Trihelix
scaffold645_P2_287301	scaffold645	287301	GT/G	CACAGCTATTGGAGGC ACAA	AGGTCATTTTCGTCTC CCT	59.9	676	INTERGENIC	--	--	--
scaffold645_P2_67604	scaffold645	67604	ATTTT/ATTT	CAAAGGAGCGTTGATC AGAGT	CCTGGAAAACCATTTG ATCG	60.3	711	INTERGENIC	--	--	--
scaffold645_P2_73753	scaffold645	73753	GAAATTTTAAA/GAA	ACATCTTGCTTGGGTTT TGG	CCCCCTCAGAATATGC TTCA	60.0	229	INTERGENIC	--	--	--
scaffold645_P2_73896	scaffold645	73896	AGGGG/AGGGGG	ACATCTTGCTTGGGTTT TGG	CCCCCTCAGAATATGC TTCA	60.0	229	INTERGENIC	--	--	--
scaffold645_P2_87205	scaffold645	87205	AAATGCAATGCAATGCAATGCA/AAATG CAATGCAATGCAATGCAATGCAATGCA	ACTGCAATTCACAAAC GCA	GAGGACAAGGCCAATT TGAA	60.1	416	INTERGENIC	--	--	--
scaffold6458_P2_24160	scaffold6458	24160	T/TAATAACAGA	AAGAGGCTACACCGC TACA	AGATGTTTGTCTGCT GCAA	59.4	530	INTRON	Ca_27555	T	C3H
scaffold647_P2_188740	scaffold647	188740	ATTTTTTT/ATTTTTT	TCGTTTCGAAGGACTT TTT	GACGGAAAAATTGGGA TTCA	59.7	565	INTERGENIC	--	--	--
scaffold647_P2_190202	scaffold647	190202	ATTTTTTTT/ATTTTTTTTTT	ATAGCGCAACAACACAA CCA	TGTGTAAGCCCTTTTGA GCC	60.2	209	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold661_P2_266987	scaffold661	266987	GAAAAAAAA/GAAAAAAAA	TTTTCTTTCGATTCTG TCG	TCCATTCATATGATTCC ATCCA	60.0	749	INTERGENIC	--	--	--
scaffold661_P2_326392	scaffold661	326392	CAAA/CAA	TCCACACGACCACAG ATAA	GGGAAAAGGAAGGAA AACG	59.9	543	INTERGENIC	--	--	--
scaffold661_P2_339116	scaffold661	339116	TA/T	AGGAAGAGTGGAGTTG CGAA	ATTTTGGCTCGGAGGT TTTT	59.9	505	INTERGENIC	--	--	--
scaffold661_P2_41087	scaffold661	41087	A/ATTTTC	CAATCTTGAGCCAATTG TGTTT	TCAAAAGCTAAAGGT GCTAAACC	58.2	538	INTERGENIC	--	--	--
scaffold661_P2_474773	scaffold661	474773	GTATATATATATATATATATAT/GTAT ATATATATATATATATATATAT	CGTAGCGTGGTAGTGA GCAA	GTTTTGGATTTTGGCTT GGA	59.9	668	INTERGENIC	--	--	--
scaffold661_P2_523501	scaffold661	523501	AATATATATATATATATATATATATAT/ AATATATATATATATATATATATATAT ATAT	ATGTTTTGGATTTTGGC TCG	GCACCGTGAGTAAATT CGGT	60.0	713	INTERGENIC	--	--	--
scaffold661_P2_559302	scaffold661	559302	ATTTTTT/ATTTTTTT	GGTGCAATTGAAGAAA GGGA	AAATGTGCCACAAATG CAAG	59.6	625	INTERGENIC	--	--	--
scaffold661_P2_589134	scaffold661	589134	CAAAAAAAAA/CAAAAAAAAA	CGTTGACCCTCACCTC AAAT	GAGGCATGCTGAGTTT GTGA	60.0	760	INTERGENIC	--	--	--
scaffold661_P2_754358	scaffold661	754358	AT/A	TACGTCACTCCACAACC CAA	CCTCCATCGAATGCTT GAAT	60.0	419	INTERGENIC	--	--	--
scaffold662_P2_2607	scaffold662	2607	GATAATAATAATAATAATAATAATAA TAATAATAATAATAATAA/GATAATAATA ATAATAATAATAATAATAATAATAAT AA	CGAGGAGTGAATTCGT GTCG	CCTGGTTGTGGTTGG AAAT	59.7	289	INTERGENIC	--	--	--
scaffold662_P2_32735	scaffold662	32735	ATTTTTTTTTT/ATTTTTTTTTT	TGGCTTGATAGAAATTG AGGG	GCTCCAAATTGACCAC GATT	59.9	648	INTERGENIC	--	--	--
scaffold662_P2_50819	scaffold662	50819	GAAAAA/GAAAAA	TGGGAAATCGATTGGG TAAG	TCATGTTAATCGGAGT GCCA	60.1	252	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold6720_P2_5246	scaffold6720	5246	CA/CAA	TTTTCGTCCTCCCTAGG CTT	CAACTATTGGATGCGC AAGA	59.8	470	INTERGENIC	--	--	--
scaffold6720_P2_536	scaffold6720	536	TAAA/TAAATAAAA	CGATACTCACCCTCG TTGT	ATGTGACACCCTAAAC CCCA	60.1	338	INTERGENIC	--	--	--
scaffold6720_P2_5522	scaffold6720	5522	GTTTTT/GTTTT	TGCGCATCCAATAGTTG TGT	AGGGAGGACGAAAATG ACCT	59.9	561	INTERGENIC	--	--	--
scaffold673_P2_17785	scaffold673	17785	ATT/ATTT	GCGTCCAATAGGTGTG TGTG	TAGGGAGCACGAAAAT GACC	60.1	657	INTERGENIC	--	--	--
scaffold6737_P2_6104	scaffold6737	6104	TG/T	CTAGGAAAAGCCTATG GGGG	CGAGTGACTGCAAGGA TCAA	60.0	466	INTERGENIC	--	--	--
scaffold674_P2_135503	scaffold674	135503	TCC/TC	GGCCTCATGAATGTTTT AGGTT	TGCAACATGTGTGTAT GGAGG	60.4	536	INTRON	Ca_20154	--	--
scaffold674_P2_149842	scaffold674	149842	TAGAAGA/TA	AGAATGAGAAGGGAAT GGACA	TCAAACCAATATGAAG GGG	59.6	293	INTERGENIC	--	--	--
scaffold674_P2_178284	scaffold674	178284	GTGTTTTTTTTT/GTTTTTTTTT	AATAGGGGGACCAAAA GTGC	AAGACTTTGTGCTTCGT GGC	60.4	301	DRR	Ca_20157	--	--
scaffold674_P2_201425	scaffold674	201425	GTGTTTTTTTTT/GTTTTTTTTT	TTCAATTGAGTTGCGAC GAG	TGAATGCACCTTTTACA GCG	59.9	616	INTERGENIC	--	--	--
scaffold674_P2_208457	scaffold674	208457	GATTTGCCAATCGATTGCCAATC/GAT TTGCCAATCAATTTGCCAATCGATTGCAATC	TGCCAATCGAATGTGTT GAT	CCAATGGCTGAGGTT CTGT	60.1	105	INTERGENIC	--	--	--
scaffold674_P2_212421	scaffold674	212421	GAAAAAAAA/GAAAAAAAAA	GACGGTCTTACCGGTT CGTA	CACACGTGGACAAAAC TTGG	60.0	569	INTERGENIC	--	--	--
scaffold674_P2_226567	scaffold674	226567	TAAAAAAAA/TAAAAAAAAA	GCTCGGGGTATAGTT CCTC	CACCGGAGATACGTA GGAG	59.6	652	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold674_P2_232088	scaffold674	232088	GAAAAAAAAA/GAAAAAAAAA	GTAACCCCAAGGATCC AACA	AGATGTGTATCGAGCG TCGT	58.3	110	INTERGENIC	--	--	--
scaffold674_P2_248531	scaffold674	248531	GAT/GATAT	ACTTTTATGTGCGTTG ACTGA	TCCAATCCCTTCCCTT TTT	59.9	534	INTERGENIC	--	--	--
scaffold674_P2_256816	scaffold674	256816	CTTTTTTTTTTT/CTTTTTTTTTTT	TTGGAGTTTAGGAAGG ACAGGA	TGAAATAGCAGATTAG GTGCAA	58.9	198	INTERGENIC	--	--	--
scaffold674_P2_256886	scaffold674	256886	ATTTTTTTT/ATTTTTTTTTT	TTGGAGTTTAGGAAGG ACAGGA	CGAAAGATTCGAGCAA TCTGA	60.5	671	INTERGENIC	--	--	--
scaffold674_P2_263650	scaffold674	263650	AT/A	GCTTCCCTTTTTCTCT CAA	AGATCGCTGTCGTCTC TGGT	60.0	559	INTERGENIC	--	--	--
scaffold674_P2_312426	scaffold674	312426	ACC/AC	TTCCCCAACTTGGTCCT TTA	CAACTCCACAAGGGT CGTT	60.0	410	INTERGENIC	--	--	--
scaffold674_P2_343997	scaffold674	343997	AAATTTTAAATTTTAAATTTT/AAATTTT AATTTTAAATTTTAAATTTT	TGGACCAACTTGTGTAA GATTTTT	GCTTTATTGCTTTTGGC AGC	60.0	622	INTERGENIC	--	--	--
scaffold674_P2_35037	scaffold674	35037	GAAAAAAAAA/GAAAAAAAAA	TACCCTTTGCTAGCCCC TTT	TCCTAGAACATGCATCA CGC	59.8	519	INTERGENIC	--	--	--
scaffold674_P2_351413	scaffold674	351413	GTTTTTTTTTT/GTTTTTTTTTTTTT	TGGTGCCAGTAAAC TCAA	CCAATGATTGTTCCAT CCC	60.0	939	INTRON	Ca_20165	--	--
scaffold674_P2_394555	scaffold674	394555	A/AT	CGGCTACGTCACTCT TCAT	TGCAAAAATCCATACG GTG	59.4	410	INTERGENIC	--	--	--
scaffold674_P2_394638	scaffold674	394638	ATTTTTTTTT/ATTTTTTTTTT	CGGCTACGTCACTCT TCAT	TGCAAAAATCCATACG GTG	59.4	410	INTERGENIC	--	--	--
scaffold674_P2_401251	scaffold674	401251	AAGA/AA	GAGATGGAGTACGGG TTGA	ATATCTGAGCGTCGA TTGG	60.1	310	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold674_P2_401473	scaffold674	401473	TAAA/TAA	TGCATTAGTCGATGCC CAA	AATCGATTTCGCGTTG TTC	60.1	134	INTERGENIC	--	--	--
scaffold674_P2_406179	scaffold674	406179	ATTTTTTTTT/ATTTTTTTTT	CGAAAGCATTGTACCA GCA	TGCGAGTCGATTATGC GTAG	60.0	807	INTERGENIC	--	--	--
scaffold674_P2_437989	scaffold674	437989	TAACAACAACAACAACA/TACAA CAACAACAACAACA	GCATAATCGTGCTCG ACAA	CAGATTCAACCAAGC AGCA	60.0	333	INTERGENIC	--	--	--
scaffold674_P2_438243	scaffold674	438243	TAAAAAA/TAAAAAA	TGCTGCTTTGGTTGAAT CTG	TGGCCTTGTGCATACC ATAA	60.0	499	INTERGENIC	--	--	--
scaffold674_P2_439330	scaffold674	439330	A/AG	AAGACCTTGCCTGTCTC GAA	TGCATCTGTTACCACC ATCG	60.5	284	INTERGENIC	--	--	--
scaffold674_P2_441706	scaffold674	441706	GATATATATATATATATA/GATATATA TATATATATATA	ATGTGAATCCCACCAG GAAA	GAAAGAGCGCTGCAAA AGAC	60.3	533	INTERGENIC	--	--	--
scaffold674_P2_44191	scaffold674	44191	T/TG	CCCAACCCCGATACAA TTC	CCACTATGGAGGCCAG AAAA	60.1	190	INTERGENIC	--	--	--
scaffold674_P2_453884	scaffold674	453884	TAAAAA/TAAAAA	GTTGTTGCATCTTTGC AGC	CCAACCACGTCAAAC TTCT	60.0	522	INTERGENIC	--	--	--
scaffold674_P2_468778	scaffold674	468778	ATT/ATT	GCTAAGAGCATCTCCAA CGG	TTTAGAGCATCTCCAAC GGG	60.2	590	INTERGENIC	--	--	--
scaffold674_P2_468848	scaffold674	468848	TAAAAA/TAAAAA	GCTAAGAGCATCTCCAA CGG	TTTAGAGCATCTCCAAC GGG	60.2	590	INTERGENIC	--	--	--
scaffold674_P2_476249	scaffold674	476249	GTTTTTT/GTTTTTT	TCGACATTGTGACCTT TGA	CGAGTTGGGTTGTGGA AGTT	60.0	543	INTERGENIC	--	--	--
scaffold674_P2_476385	scaffold674	476385	ACTCTCTCTCTCTCTCTCTCTCTCTC TCTCTC/ACTCTCTCTCTCTCTCTCTCT CTCTCTCTC	TCGACATTGTGACCTT TGA	CGAGTTGGGTTGTGGA AGTT	60.0	543	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold674_P2_512513	scaffold674	512513	TAGCGCTTT/TAGCGCTTTTAGAGCGCTT	TCGCCAAGTTAGCAC TTCT	GGAGAGGAAGGTTCTG AGGG	60.1	504	INTERGENIC	--	--	--
scaffold674_P2_512606	scaffold674	512606	TAAAAA/TAAAAA	CTCGCCAAGTTAGCAC CTTC	TCAGCATGTCAATTTCC CAA	60.0	880	INTERGENIC	--	--	--
scaffold674_P2_518331	scaffold674	518331	ATTTTTTTTT/ATTTTTTTTTTT	TTTTGACAACTGCGA AAC	TTTTAAAGAGGGACTG ACCACAA	60.0	386	INTERGENIC	--	--	--
scaffold674_P2_519109	scaffold674	519109	AC/A	TCAAAAATATTGTGGTC AGTCCC	CCAATGGTCATACCTC CACC	60.1	813	INTERGENIC	--	--	--
scaffold674_P2_569743	scaffold674	569743	GAAAAAAAA/GAAAAAAAAA	TCCTACCGGTTCTGAC CTTG	CTCAGTTGTGTAAAC CCCG	59.1	449	INTERGENIC	--	--	--
scaffold674_P2_570233	scaffold674	570233	TATATATA/TATATATAATATATA	CGGGGTGTTACACA TGAG	CGCATCGTCACAATTC ATTT	59.5	601	INTERGENIC	--	--	--
scaffold674_P2_592895	scaffold674	592895	GAAAAA/GAAAAA	ACAAGAAAAATGCGGGT AACG	CCATATTGATTTTGAA ACCG	59.2	668	INTERGENIC	--	--	--
scaffold674_P2_613777	scaffold674	613777	TAAAAAAAAA/TAAAAAAAAA	AACAAGGGGCCATCTC TTCT	GTGGTATTGTCGTCG CCTT	60.0	509	INTERGENIC	--	--	--
scaffold674_P2_617218	scaffold674	617218	C/CTCATTTGTTTT	GACAGCTCAACCCTTTC CAA	CACCCAATCCAAGCTA CGTT	60.0	534	INTERGENIC	--	--	--
scaffold674_P2_624634	scaffold674	624634	TAAAAAAAAA/TAAAAAAAAA	TGAGTGGCTTTAAGCTT GACC	TTTCCAATCGATTTCG TTC	60.0	769	INTERGENIC	--	--	--
scaffold674_P2_624986	scaffold674	624986	TAATCGATTGGGAATCGA/TAATCGA	GAAGCAAATCGATTGG GAAA	CCTAGTGCCCTGTGAC TTCC	59.7	237	INTERGENIC	--	--	--
scaffold674_P2_630332	scaffold674	630332	TAAAAA/TAAAAA	GCGAGGATTGGTATCG TCAT	TGCACGAAAGGTATAA TTGGG	59.8	922	DRR	Ca_20173	BD	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold674_P2_705834	scaffold674	705834	CT/CTT	TTGAGCTCCCTTTTCTGA	GTCAAAGGTGACCTTCTGC	59.7	718	INTERGENIC	--	--	--
scaffold674_P2_711627	scaffold674	711627	CAAAAAAAAA/CAAAAAAAAA	TCCACCCTTTGATGCTTTTC	TGCTTTGGTGTCACCTTTG	59.9	669	INTERGENIC	--	--	--
scaffold674_P2_71897	scaffold674	71897	ATTTTTTTTT/ATTTTTTTTT	CGTCCTTCAACTCACAA GCA	ATCTCGTCAAGCCAGCTGTT	60.0	709	INTERGENIC	--	--	--
scaffold674_P2_739319	scaffold674	739319	GAAAAAAAA/GAAAAAAAA	TGGATTGAGAATTTTTC CGC	ATTGGAGGCTGAAGGT GTTG	60.1	472	INTERGENIC	--	--	--
scaffold674_P2_744234	scaffold674	744234	ATTTTTTTTT/ATTTTTTTTT	CAATTCCTTTCATGCC ATT	TCGACAGTTTGGTCC CTTT	59.6	412	INTERGENIC	--	--	--
scaffold674_P2_74850	scaffold674	74850	CAAAAAAAAA/CAAAAAAAAA	AGGCGCTTCTAAGT CACA	TAACCTTCTCCACGCGACT	59.9	684	INTERGENIC	--	--	--
scaffold674_P2_758115	scaffold674	758115	AGG/AG	CTCTCATCTGAGGGCA AAGC	TCGATTGGCTTAAAC CTGG	60.1	465	INTERGENIC	--	--	--
scaffold674_P2_761615	scaffold674	761615	TAAAAAAAA/TAAAAAAAA	CAAACATTGTGCCACCT CAT	TGGAGGAACATGAAT GTCG	59.5	232	INTERGENIC	--	--	--
scaffold674_P2_829987	scaffold674	829987	CAA/CAAAA	AATGTGGATCCTGCAC ACAA	TTGTTGCTTTGCTCCT CCT	60.0	460	INTERGENIC	--	--	--
scaffold674_P2_833729	scaffold674	833729	ATTTTTTTTT/ATTTTTTTTT	GCTTCAGGTAGGAGAA GGCA	TGCATATTCCAAGTGA CTTTTTG	59.2	665	INTERGENIC	--	--	--
scaffold674_P2_84363	scaffold674	84363	TAAAAAAAA/TAAAAAAAA	TAAGAAAGCGAGGGTG ATGC	GAAAGCTGAAGTTGGT TCGC	60.0	668	INTERGENIC	--	--	--
scaffold674_P2_84428	scaffold674	84428	GC/G	TAAGAAAGCGAGGGTG ATGC	GAAAGCTGAAGTTGGT TCGC	60.0	668	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold674_P2_868010	scaffold674	868010	GA/GACCTAAATATTAA	CCAAGGGAAGTCCAAATGA	CATTTTCGTCACCCCTCAAC	60.4	589	INTERGENIC	--	--	--
scaffold674_P2_878066	scaffold674	878066	CTTTTTTTTTTTTTTTTT/CTTTTTTTTTTTTT	TCCAACCACACCATAATCCC	CGAGAAACTCCTAAAGGGG	60.1	599	INTERGENIC	--	--	--
scaffold675_P2_18191	scaffold675	18191	T/TA	CGGTTATAAGCGTTGCCAT	AGGAAAGAGGCCATGATT	59.9	365	INTERGENIC	--	--	--
scaffold675_P2_81863	scaffold675	81863	CTTTTT/CTTTTTT	TATCAGAGTTCTCCCCACCG	AAACATGACGAGGGCATTTA	58.1	895	INTERGENIC	--	--	--
scaffold675_P2_81930	scaffold675	81930	TT/TTGAAAT	TATCAGAGTTCTCCCCACCG	AAACATGACGAGGGCATTTA	58.1	895	INTERGENIC	--	--	--
scaffold675_P2_82372	scaffold675	82372	T/TC	TAAATGCCCTCGTCATGTTT	CCCCTTTCCACGGCTATTAT	60.2	444	INTERGENIC	--	--	--
scaffold675_P2_89761	scaffold675	89761	A/AT	AGATGCGCTTGCTTTTTCAT	GCTAAAATCACCGCAAGAGG	59.8	400	INTERGENIC	--	--	--
scaffold676_P2_102412	scaffold676	102412	GAAA/GAA	TTCATCTGGACTTTTGGC	TCCAGATCAAATCGAGGACC	60.0	261	INTERGENIC	--	--	--
scaffold676_P2_104156	scaffold676	104156	GAAAAAAA/GAAAAAAA	TTTCATCTAGGCATTTGGG	TCCAGATGAAATCGAGGACC	60.0	475	INTERGENIC	--	--	--
scaffold676_P2_104639	scaffold676	104639	ACC/ACCC	GGTCCTCGATTTCATCTGGA	GACACTCGCTCGAAAA GTCC	60.0	686	INTERGENIC	--	--	--
scaffold676_P2_109998	scaffold676	109998	TG/T	AATTGTGTTTCAGGTTCCGC	TCTTTTCGAGCGATTTTCGT	60.0	512	INTERGENIC	--	--	--
scaffold676_P2_14215	scaffold676	14215	CG/C	GATGAAATCGAGGACCAGGA	TTTCATCTGGACTTTTCGGG	60.0	823	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold676_P2_161888	scaffold676	161888	TAAAAAAA/TAAAAA	AACCCTAAACAACCAA CACA	CGGGTGATTTTCGTAC CACT	59.9	737	INTERGENIC	--	--	--
scaffold676_P2_84081	scaffold676	84081	CTTTT/CTTT	CACGAAACCCGAAACA CTTT	GCCATCGTCTAATCCG AAAA	60.0	146	INTERGENIC	--	--	--
scaffold676_P2_84534	scaffold676	84534	GCAC/GCACAAACAC	TTTTCGGATTAGACGAT GGC	GATGAAATCGAGGACC AGGA	60.0	796	INTERGENIC	--	--	--
scaffold6760_P2_1141	scaffold6760	1141	ATTTTTT/ATTTTT	AAATGTGTCCATCTCAG CCC	TCAAAACTCAAGGGG CAAT	59.5	545	INTERGENIC	--	--	--
scaffold6760_P2_618	scaffold6760	618	TC/T	TGTTTTCAAAGGGGGT CAG	GGGCTGAGATGGACAC ATTT	59.9	621	INTERGENIC	--	--	--
scaffold6760_P2_921	scaffold6760	921	TT/TTCT	TGTTTTCAAAGGGGGT CAG	GGGCTGAGATGGACAC ATTT	59.9	621	INTERGENIC	--	--	--
scaffold6778_P2_18273	scaffold6778	18273	CAGGTCTAGGTCT/CAGGTCT	TTTTGTGGCAAATAAAA GCG	TTGGTTTATTGGGTTG GGA	60.0	671	INTERGENIC	--	--	--
scaffold678_P2_104024	scaffold678	104024	CTTATTATTATTATTATTA/CTTATTATTA TTATTATTATTATTA	TGATAGACCTCATAGCC CCG	GAGCCAAATAAGCCCA ATGA	60.0	655	INTERGENIC	--	--	--
scaffold678_P2_12833	scaffold678	12833	TTAT/TT	CGCCGCCCAATAAAGT ATTA	TTTGGTGGAGAATTCC AAGG	59.9	276	INTERGENIC	--	--	--
scaffold678_P2_14639	scaffold678	14639	CG/C	GCTACCATTGGGCTTGA AAAA	GTGGTACATGAGCGGA GGAT	60.0	772	DRR	Ca_26300	--	--
scaffold678_P2_27933	scaffold678	27933	ATTTTTTT/ATTTTTT	GCATGGATTCTCCAC AGTT	TGAGGCATTCCACCAT TTTT	60.3	524	INTERGENIC	--	--	--
scaffold678_P2_39763	scaffold678	39763	TAGTTATTAAGTTATT/TAGTTATT	AGGAGTTTGAGCATCG CATT	ATCCCAACCCTAAAAA CAAG	60.0	470	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold678_P2_40865	scaffold678	40865	CTATTATTATTATTATTATTATTATC TATTATTATTATTATTATTATTATTA TTAT	GAACAGCTTTGAGGGC AATC	TTTGAATTTGGTCTTT GAAAGTG	59.6	647	INTERGENIC	--	--	--
scaffold678_P2_40998	scaffold678	40998	TAAAAAAAA/TAAAAAAAAA	GAACAGCTTTGAGGGC AATC	CGATCACCACGTGACA CTTC	60.2	849	INTERGENIC	--	--	--
scaffold678_P2_41072	scaffold678	41072	T/TG	TCATTTTGGCTTTTGT GAAA	CGATCACCACGTGACA CTTC	60.2	753	INTERGENIC	--	--	--
scaffold678_P2_42464	scaffold678	42464	TAAAAA/TAAAAA	GCGCACAATAGATGGG TTTA	TTTTCCAACGAGTCCA CCTC	60.1	816	INTERGENIC	--	--	--
scaffold678_P2_46690	scaffold678	46690	TAA/T	TTCATGCGCACAATTC TTC	GCAACCAGAAGCACA ATAA	59.7	558	INTERGENIC	--	--	--
scaffold678_P2_56380	scaffold678	56380	TAA/TA	GGACCCGAGGATGGTT ATTT	AGGTTGTAAGCTTGGC GAGA	60.0	219	INTERGENIC	--	--	--
scaffold678_P2_73978	scaffold678	73978	A/AG	TGGTTGATGAAGACGC GATA	CCGGAACCAACCCTT ATTT	60.0	549	INTERGENIC	--	--	--
scaffold678_P2_88242	scaffold678	88242	AATAT/AAT	TGTCAAGGGACGTTAC ACCA	AAATGGTGCTTGCCAA TTTC	59.9	601	INTERGENIC	--	--	--
scaffold6782_P2_1068	scaffold6782	1068	GA/GAGAAA	GACGTTCTTGCGGTA CCAT	CAAATGCAACCACACA TTTTG	58.8	428	INTERGENIC	--	--	--
scaffold6782_P2_1089	scaffold6782	1089	GAAAAA/GAAAAA	GACGTTCTTGCGGTA CCAT	CAAATGCAACCACACA TTTTG	58.8	428	INTERGENIC	--	--	--
scaffold6782_P2_1165	scaffold6782	1165	C/CA	GACGTTCTTGCGGTA CCAT	TTTAAATTGCTGCTAAG ATTGGT	57.3	469	INTERGENIC	--	--	--
scaffold6782_P2_544	scaffold6782	544	AC/A	ACTCACCCACATCCAA CAT	ATGGTACCGCAAAGAA CGTC	60.0	337	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold6782_P2_758	scaffold6782	758	ATTTTTTTT/ATTTTTTTT	GACGTTCTTGCAGT CCAT	TCAAACGCTCACAC ACAA	59.9	292	INTERGENIC	--	--	--
scaffold6790_P2_1414	scaffold6790	1414	C/CA	TCCTTGACCCCAATCG TAG	TTTTGGGGTTTAGGGT GTCA	60.2	356	INTERGENIC	--	--	--
scaffold6790_P2_2258	scaffold6790	2258	ACC/ACCC	TTCAAATGGCCTTGTC CTC	CATAGACCAACGAGGG GAGA	60.1	317	INTERGENIC	--	--	--
scaffold6790_P2_910	scaffold6790	910	TATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATA ATAATAA/TATAATAATAATAATA AATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA	TAGTTATGCTGAGGGG ACGG	TGCAAGTACATCCCG ATCA	60.1	714	INTERGENIC	--	--	--
scaffold6791_P2_13647	scaffold6791	13647	AATATATATATATATATATATAT ATATATATAT/AATATATATATATAT ATATATATATATATATATATATAT	TGACCTCAATTTGTGCG AAA	GTTGGGAAATGCATCC AACT	59.8	636	INTERGENIC	--	--	--
scaffold681_P2_48751	scaffold681	48751	CATATATATATATATATATAT/CATAT ATATATATATATATAT	TTGGTATTGAACCTGGA GGC	GTTGGTCCCTAGCAC CGTA	60.0	662	INTERGENIC	--	--	--
scaffold682_P2_150057	scaffold682	150057	G/GGAATCAGTTGCT	TAAGGCAGACGATGTG CAAG	TTTTGGTAGAACCAATC GGC	59.9	556	CDS (large-effect mutations)	Ca_23185	--	B3
scaffold682_P2_196858	scaffold682	196858	TTTTATTTATTTATTTATTT/TTTTA TTTATTTATTTATTTATTTATTT	TCTTTTAAGTGGACATC CGGT	GCGTTACAGTTGGTCA TGGA	59.6	840	INTERGENIC	--	--	--
scaffold682_P2_239210	scaffold682	239210	ACC/AC	TCCAAAGCATCACGTAT CCA	TGCGTGACAGGAACAA GAAG	60.0	667	DRR	Ca_23188	R	ERF
scaffold682_P2_239323	scaffold682	239323	AGATGATG/AGATG	CAACTCCCCCTGCAAA CTTA	TGCGTGACAGGAACAA GAAG	60.0	417	DRR	Ca_23188	R	ERF
scaffold682_P2_253031	scaffold682	253031	TATATATATAT/TAAATATATATAT	TATTCAGATCCCTTGCC CAG	TGGGTGCTATTTGCAA TCAA	60.1	626	INTRON	Ca_23190	--	--
scaffold682_P2_302365	scaffold682	302365	A/AGAGAGAT	GCTGCAAAAGTCAACG TCAA	CACCCCTGAACCTTGG AGGA	60.1	177	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold684_P2_87582	scaffold684	87582	CT/CTCAAATAT	TTTATTTTCATGTGTGG CTCAT	TCAAGGACTTGAAAAC CAAAAA	58.8	500	INTERGENIC	--	--	--
scaffold6842_P2_1766	scaffold6842	1766	ATTT/ATTTT	TCCGATTATTTTCGAGGT CGT	CCGTGCATGACGTTTA TCAT	59.4	570	INTERGENIC	--	--	--
scaffold6846_P2_1083	scaffold6846	1083	CAATAATAATAATAATATTAATAATA ATATTAATAATGATAATGATAATAATAAT AATAATAATAATAATAATAATAATCA TAATAATAATAATAATAATAATA/CAATA ATAATAATAATTAATAATAATATTAAT ATGATAATGATAATAATAATAATAATA	TCCTCTTCTGTGCGATG GTT	CTCATCAACGGCTCCT CTTC	60.0	692	INTERGENIC	--	--	--
scaffold6846_P2_522	scaffold6846	522	T/TC	TGCATTGGTATATGGG GGTT	CGATCGACAGGAAGAG GAAG	59.9	538	INTERGENIC	--	--	--
scaffold6846_P2_677	scaffold6846	677	G/GGACCT	TGCATTGGTATATGGG GGTT	CGATCGACAGGAAGAG GAAG	59.9	538	INTERGENIC	--	--	--
scaffold686_P2_108847	scaffold686	108847	AGG/AGGG	GGGAGAAGGAGGAAGA ATGG	AATTTTGCTCGGAGG ATTT	59.9	421	INTERGENIC	--	--	--
scaffold686_P2_108971	scaffold686	108971	GATATATATATATATATATATA/GATA TATATATATATATATATATATA	GGGAGAAGGAGGAAGA ATGG	CTTGGGAAGGAGAG CAAG	60.0	564	INTERGENIC	--	--	--
scaffold686_P2_134728	scaffold686	134728	ATATTATTATTATTATTATTATTATT ATT/ATATTATTATTATTATTATTATT	TGAGAAATGCACTCTTC CCAT	CATCCGCCTCTAAAGT GAGC	60.0	506	INTERGENIC	--	--	--
scaffold686_P2_140005	scaffold686	140005	TT/TTAT	AGGCTTATGATCCCA ACA	TCGACCAACCATGTCT TTCA	60.1	262	INTERGENIC	--	--	--
scaffold686_P2_143540	scaffold686	143540	AATATATATATATAT/ATATATATATA TAT	AACCGGTACCAATTC ACA	AAATGGAAGAGGAGG AGGA	60.0	620	INTERGENIC	--	--	--
scaffold686_P2_162105	scaffold686	162105	ATTTTTTTTTTTT/ATTTTTTTTTTTT	AGCTTAACAAAGCGCC GATA	CCCTTTACATGTGCATC ATCA	59.4	563	INTERGENIC	--	--	--
scaffold686_P2_182712	scaffold686	182712	CTA/CTAATA	ATGGGGTTCAAACCAT GCTA	GCAAGGACTTTTGCTTT TGC	60.0	696	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold686_P2_183469	scaffold686	183469	AT/ATT	TGGATTAAATCATTCCTCC	ATCCCTGTTGATTGCTTCG	60.1	617	INTERGENIC	--	--	--
scaffold686_P2_183725	scaffold686	183725	TACAAAGAACTAGAAAACAAAGAACTAGAAAACAA	TTACGAAGCAAATCAACAGGG	GTGGCATAGTATCGTGCCT	60.0	332	INTERGENIC	--	--	--
scaffold686_P2_184091	scaffold686	184091	ACCC/ACC	AGGCCACGATACTATGCCAC	TAGGCCAACGAGAGGAGAAA	59.9	259	INTERGENIC	--	--	--
scaffold686_P2_264405	scaffold686	264405	GAAAA/GAAAAA	TTGTTCTTGAGTGCCATAAACG	ACAAGCGGATCTTTTCCT	60.1	331	INTERGENIC	--	--	--
scaffold686_P2_59958	scaffold686	59958	ATT/AT	TTGGCCAAGTCCCTGTTTAC	GAGGGTTTTGGTTGGATT	60.0	357	INTERGENIC	--	--	--
scaffold686_P2_61481	scaffold686	61481	TTCTCTCTCTCTCTCT/TTCTCTCTCTCTCTCTCT	CGTAGCATGGAGATGAGCAA	GGAAGTGATGGGTGAATGG	60.2	451	INTERGENIC	--	--	--
scaffold6873_P2_1457	scaffold6873	1457	T/TA	TACCAATCTTGTCACCA	CCTAGGGTCGACGAAATGA	60.1	575	INTERGENIC	--	--	--
scaffold688_P2_2385	scaffold688	2385	GAAT/GAT	AGGTCATTTCCGTCCTTCT	GACACGAACACACCTCATGG	60.0	388	INTERGENIC	--	--	--
scaffold6903_P2_17324	scaffold6903	17324	CT/CTTCGATGT	CCCACATTATAAATCGCTCA	TCCGATATGCATCACTCTGC	59.8	470	CDS (FRAME SHIFT)	Ca_28223	--	--
scaffold6903_P2_5314	scaffold6903	5314	A/AT	GCACACCACAACAAATGGA	GCATCCTCTGATTGTTGGG	60.5	458	INTRON	Ca_28223	--	--
scaffold692_P2_50884	scaffold692	50884	GTATATATATATA/GTATATATATATATA	TCAAGTATGGACACGCCAAA	TTAGCTGCGGTGAATCCTTT	59.8	605	INTERGENIC	--	--	--
scaffold6931_P2_592	scaffold6931	592	TAAA/TAAAA	AGGGAGGACGAAAATGACCT	TGTGCATCCGATAGGTGTGT	60.0	661	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold7_P2_21308	scaffold7	21308	CGG/CGGG	TTTGAGTGGTGGATTG GGTT	AGGAAGAGTGGAGTTG CGAA	60.0	605	INTERGENIC	--	--	--
scaffold7_P2_215103	scaffold7	215103	A/AC	TTGATCCTTGCACTCAC TCG	TGGCACTCCGATTAAC ATGA	60.1	805	INTERGENIC	--	--	--
scaffold702_P2_11331	scaffold702	11331	GAAAAAAAA/GAAAAAAAAA	AACTAAAAGAGGCACCA CGG	CCTGTGCACACAATAG AAAAGG	59.7	510	INTERGENIC	--	--	--
scaffold702_P2_114373	scaffold702	114373	AGGGG/AGGGGG	TACATTGGAAGTGGG GACG	GATGTTGAAAAAGCT TGCC	59.7	596	DRR	Ca_25203	--	--
scaffold702_P2_131731	scaffold702	131731	AT/ATT	CAGATGAAGGACCA AGGA	TCACGCGAAATTTTCAT TCA	60.2	678	INTERGENIC	--	--	--
scaffold702_P2_156273	scaffold702	156273	TAAAAAAAA/TAAAAAAAA	TGGACAAAATTGGAATC CTACA	GTGACACGTCGGAAGG AAAT	60.0	525	INTERGENIC	--	--	--
scaffold702_P2_156460	scaffold702	156460	TAAAAAAAA/TAAAAAAAA	TGGACAAAATTGGAATC CTACA	GTGACACGTCGGAAGG AAAT	60.0	525	INTERGENIC	--	--	--
scaffold702_P2_174143	scaffold702	174143	T/TC	GCGCTGTAAATGTGC ACTC	CGAGCGCTTATGGGAG TTAG	60.0	793	INTERGENIC	--	--	--
scaffold702_P2_183682	scaffold702	183682	ATTTT/ATTTTT	TGCCTTAAGTTTGG GTTG	GACGACAACTAGGGAT GGGA	59.9	941	INTERGENIC	--	--	--
scaffold702_P2_204315	scaffold702	204315	GC/G	ACTGCATCACATGCGTT GTT	CTCCCCCTGAATTTTG GAGT	60.3	489	DRR	Ca_25205	--	--
scaffold702_P2_21142	scaffold702	21142	TAATAATAAATAAATAAATAAATA /TAATAATAAATAAATAAATAAATA	CTGTGCATAAATCGTG GCCT	GCGTGCGTAGGAATAT GGAT	60.0	651	INTERGENIC	--	--	--
scaffold702_P2_216004	scaffold702	216004	GA/G	CTGTTTGGGCGTCGAA TTAT	TATTTTCTCCCTCGTT GGT	58.5	630	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold702_P2_218329	scaffold702	218329	GAAAAAAAAA/GAAAAAAAAA	TGTCGGTTACAAGGAG GACC	GGGAAAAGAGTCATCA ACCAA	59.0	560	INTERGENIC	--	--	--
scaffold702_P2_223066	scaffold702	223066	TTTATTATTATTATTATTATTATT ATTATTATTATTATTAT/TTTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTAT	GGACGAAATCAGGAAG AAAA	CCTGAGTGTGGCCTAC GATT	60.1	556	INTERGENIC	--	--	--
scaffold702_P2_246690	scaffold702	246690	CAATTAACAAATTAACAAATTAA/CAATT AACAAATTAA	ACAGGCTTCAAAGGCA AAAA	TCAACCACCCCACTGT ACCT	60.3	515	INTERGENIC	--	--	--
scaffold702_P2_249855	scaffold702	249855	TAA/TA	TTGGATGCACAAGATTG GTT	AGGTCATTTTCGCCTC CCT	59.9	569	INTERGENIC	--	--	--
scaffold702_P2_273004	scaffold702	273004	AG/A	ATTGGTTAAAAACCCCG GAT	AGGTCATTTTCGCCTC CCT	59.9	454	INTERGENIC	--	--	--
scaffold702_P2_275210	scaffold702	275210	TAAAAA/TAAAAA	GGACAAGAATATGCCTT GGG	AGGTCATTTTCGCCTC CCT	59.9	336	INTERGENIC	--	--	--
scaffold702_P2_291780	scaffold702	291780	CTTT/CTT	TGGCGATCTTCGTTGAT GTA	TCTTGATGCCAATTGTT GGA	60.0	484	INTERGENIC	--	--	--
scaffold702_P2_301404	scaffold702	301404	AATTCTCTTATTCT/AATTCT	TGAGTTTGACGATCGA CTGC	CCAATTAGGGTTTGAA GCCA	59.9	870	INTERGENIC	--	--	--
scaffold702_P2_36812	scaffold702	36812	AT/A	GCAATGATTCAATTTTG GGG	TGCTTGCTATCTCGCA TGG	60.0	261	INTERGENIC	--	--	--
scaffold702_P2_49940	scaffold702	49940	ATATTATTA/ATATTA	GTTTTCGAATCAACGAG GGA	TTTGGCTCGAAGGCTT TTTA	60.0	452	INTERGENIC	--	--	--
scaffold702_P2_55303	scaffold702	55303	CAAAAAAAAA/CAAAAAAAAA	GCATCTGCACATGAAAA ACAA	CAACCCCAATTGATCC GAC	60.2	865	INTERGENIC	--	--	--
scaffold702_P2_59657	scaffold702	59657	ATTTTTTTT/ATTTTTTT	TAGCCACATAGGCAAC CACA	CGTGCAATTTGAGGT GGTG	60.0	225	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold702_P2_75950	scaffold702	75950	AT/ATT	CTCACCAATGATCCAAC CGT	TGGTCACATGAGAATC GCTAA	59.3	621	INTERGENIC	--	--	--
scaffold702_P2_78328	scaffold702	78328	TAACAAC/TAAC	CAAAATAGGAAGGATG CACCA	AAACCAACATGAAACCT CGC	60.0	665	INTERGENIC	--	--	--
scaffold702_P2_99680	scaffold702	99680	ATTTTGCATAGTTTTGCATAGT/ATTTT GCATAGT	CGCTCGATAACCCCAA AATA	ATTACCGACATTGCAG AGGG	60.0	577	INTERGENIC	--	--	--
scaffold7038_P2_1268	scaffold7038	1268	TTATATATATATATATATATATATATATA T/TTATATATATATATATATATATATATAT ATATAT	GGTGCTTGTTAAGTTGT GCCT	CCAACTCACCTTTCTTT ACCG	58.8	517	INTERGENIC	--	--	--
scaffold705_P2_16425	scaffold705	16425	ATTTT/ATTTT	ATTTCCAACAAGACGAT GGC	GATGAAATCGAGGACC AGGA	60.0	272	INTERGENIC	--	--	--
scaffold705_P2_17000	scaffold705	17000	TAAA/TAAAA	AGGGTCTTTCGATCCTC GAT	AGTTCCGCGCTAGATT TCAA	60.0	556	INTERGENIC	--	--	--
scaffold705_P2_32855	scaffold705	32855	CAAAAA/CAAAAAA	CATGGAACCCGAAAGA CAGT	TCAACACTAGCCGTCG TCTG	60.0	481	INTERGENIC	--	--	--
scaffold705_P2_45256	scaffold705	45256	AGGG/AGGGG	TTTCATCTGGTCTTTTC GGG	CGATCCATTTTGTCTGT GTG	60.0	215	INTERGENIC	--	--	--
scaffold705_P2_45291	scaffold705	45291	CGGG/CGG	TTTCATCTGGTCTTTTC GGG	CGATCCATTTTGTCTGT GTG	60.0	215	INTERGENIC	--	--	--
scaffold707_P2_10522	scaffold707	10522	CAA/CAATTGGAGAGAA	GAATGTGGCACCAAGG AAAT	GAATCTCTCCCACTTCA CCG	59.7	512	INTERGENIC	--	--	--
scaffold707_P2_121772	scaffold707	121772	GAAA/GAA	TTCTAAGCAGGGGCC TAAT	TGCTGCTTTGGTTCAAA ATG	59.8	149	INTERGENIC	--	--	--
scaffold707_P2_25303	scaffold707	25303	ATTTTTT/ATTTTTTTT	AGTTTTCTGGAGACAT GGG	CAAATCTCACGTCGCT CAAA	60.0	555	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold707_P2_51138	scaffold707	51138	GTTTTTTTT/GTTTTTTTT	AATTGCTCTAGGGTCT GCAT	TCACGTTGATTGAGG AGTG	59.7	347	INTERGENIC	--	--	--
scaffold707_P2_51565	scaffold707	51565	TAAAAA/TAAAAAA	TGTCACTCCCTCAATCA ACG	TCACATCGTCAGTCAA CGTAAA	59.2	638	INTERGENIC	--	--	--
scaffold707_P2_61601	scaffold707	61601	CTTTTTT/CTTTTTT	CCAGGACCAAAATTGTT GAA	GGTTCAAATTCGAGAT CTCCTG	60.1	206	INTERGENIC	--	--	--
scaffold707_P2_69409	scaffold707	69409	ATGACTATTGAC/ATGAC	CATTTGCAATGATTGCT CAT	AAGGCTCAAACCTATG ATTGCT	59.3	212	INTERGENIC	--	--	--
scaffold707_P2_69823	scaffold707	69823	TT/TTAAAAAT	TGACGGCTCCAATAGA ATCA	CGAACTCTCGACCCCT AAGA	59.4	869	INTERGENIC	--	--	--
scaffold707_P2_70120	scaffold707	70120	GAAAAAA/GAAAAAA	TTTTTATTATTTGTAC GTCGCA	CGAACTCTCGACCCCT AAGA	59.4	356	INTERGENIC	--	--	--
scaffold707_P2_86080	scaffold707	86080	CACTCTAGAGTTTCA/CACTCTAGAGTT TCAACTCTAGAGTTTCA	GGAGGAGCAGAAGCAA CAAC	GGAGCATCAATGGAAA GGTC	59.5	715	INTERGENIC	--	--	--
scaffold707_P2_86614	scaffold707	86614	CAAA/CAAAA	GACCTTTCCATTGATGC TCC	AGTGGTTGGATGGACC TGAG	60.0	595	INTERGENIC	--	--	--
scaffold707_P2_90276	scaffold707	90276	TAAAA/TAAA	TTGAGGGACTTTTGTCT GTCC	TGATGGAAAAGACACC CACA	59.9	576	INTERGENIC	--	--	--
scaffold707_P2_90383	scaffold707	90383	ATTTTTTT/ATTTTTTT	TTGAGGGACTTTTGTCT GTCC	TGATGGAAAAGACACC CACA	59.9	576	INTERGENIC	--	--	--
scaffold707_P2_90892	scaffold707	90892	ATTTTTTT/ATTTTTTTTT	ACTTTGTCCTTTGTGTT GGC	TTGGACCCAAAGATAC AGGC	59.9	623	INTERGENIC	--	--	--
scaffold707_P2_91274	scaffold707	91274	TAAAA/TAAA	TTCTTTTGGGCTTGCTCT CTA	AAAGATTGCCTTTAAGC GATCA	60.0	494	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold708_P2_13474	scaffold708	13474	AC/ATC	CTCTACCCAAGAAGAT CGC	TGGAAAATCGATTGGC TTATG	59.9	451	INTERGENIC	--	--	--
scaffold7081_P2_2451	scaffold7081	2451	A/AC	TTAATGAGGGGCTGAA TTGG	AAGCGTACCTGTGGGA ATTG	60.0	259	INTERGENIC	--	--	--
scaffold7081_P2_2734	scaffold7081	2734	ATTTT/ATTTT	CAATTCCCACAGGTAC GCTT	TGGGGGTTAAAGGGAT TAGG	60.0	465	INTERGENIC	--	--	--
scaffold709_P2_1585	scaffold709	1585	CTTTT/CTTTT	ATGTTTTCTTTGGGT GCG	CGTTTTTCAAAGCGAG GGTA	60.2	211	INTERGENIC	--	--	--
scaffold709_P2_4010	scaffold709	4010	GTTTT/GTTTTTT	ACTCAATGATGTTGGC GCT	CATGAGGAAACAATTG TGCAG	59.2	788	INTERGENIC	--	--	--
scaffold709_P2_7022	scaffold709	7022	TAACAACAA/TAACAA	ATCGCCATAATTGGAA TGC	TGAATTGATGATTGAGA ACCG	58.6	635	INTERGENIC	--	--	--
scaffold71_P2_29022	scaffold71	29022	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTAT/AAATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT	GGTCGCATCCTAGACT TGTGA	TCAAGGGTTTGTACTT GGG	60.1	555	INTRON	Ca_27236	--	--
scaffold7107_P2_12825	scaffold7107	12825	AA/AAAGA	GGGGACTAAAATTGGG GAGA	TGCAGGCAATCAATGA AAGA	60.3	459	INTERGENIC	--	--	--
scaffold7107_P2_13331	scaffold7107	13331	TAAAA/TAAAAA	GACTCATTCAATGCACC CAA	TGCGATTGTTGTGGTT GTTT	60.0	627	INTERGENIC	--	--	--
scaffold7107_P2_14640	scaffold7107	14640	AAATAATAATAATAATAAT/AAATAA TAATAATAATAATAAT	TAATAGAAGGTCGCATC CCG	TGTGTCAAACGAAATG ATGTG	58.0	368	INTERGENIC	--	--	--
scaffold7107_P2_15792	scaffold7107	15792	CAAAATCATCTAAAAATCATC/CAAAAT CATC	TCACTCGGTTGCATCAC ATT	GGAGGTTCTAGCCCCT ATAGCTT	60.5	323	INTERGENIC	--	--	--
scaffold7107_P2_16409	scaffold7107	16409	CTATATATATATATATA/CTATATATAT ATATATA	GGGGCTAGAACCTCCT ACAA	CCATTGTCATGATTCCA CAC	59.8	946	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold7107_P2_16449	scaffold7107	16449	TTTCAT/TTTCATCTTCAT	TCCAATGCTTACAATCC TCTCTC	CCATTTCATGATTCCA CAC	59.8	508	INTERGENIC	--	--	--
scaffold711_P2_146188	scaffold711	146188	G/GT	GTTCTTTTACAGCGCT TGC	CGCAAACGCTATATGA CCCT	60.1	116	INTERGENIC	--	--	--
scaffold711_P2_184195	scaffold711	184195	TTA/T	TCCCAAGCAGAATTTT GAC	TAAGGGTTCAGTTCAT CCCA	60.3	477	INTERGENIC	--	--	--
scaffold711_P2_198349	scaffold711	198349	AATATATATATATATATATA/AATATAT ATATATATATATA	CAAAAGATGGGTCGTG TCTTG	TTGATCTGACATGTGA CACAACCT	59.6	711	INTERGENIC	--	--	--
scaffold711_P2_204653	scaffold711	204653	GATATATATATATATATA/GATATATATA TATATA	AATGTGAATCCCACCAG GAA	TTTACAGCGCTTGTCTC CAA	59.6	796	INTERGENIC	--	--	--
scaffold711_P2_36213	scaffold711	36213	T/TCAG	CGGGAGACAAGAACTG CTTC	CCTTTTGACAAGCTTC ACA	60.0	256	INTERGENIC	--	--	--
scaffold716_P2_112534	scaffold716	112534	GTTTTT/GTTTT	CCTCTTGACTCTACAGC CCG	GTTGCCAAGTCCGCAA TAAT	60.0	277	INTERGENIC	--	--	--
scaffold716_P2_117351	scaffold716	117351	CATATATATATATATATATATATATAT/ CATATATATATATATATATATATATAT AT	AGGAGGTTTGTGTTTG ACGG	GCTGTTAGCCCAGTTT TTGG	59.7	612	INTERGENIC	--	--	--
scaffold716_P2_135403	scaffold716	135403	AATTATTATTATTATTATTATTATTA TTATTATTATTATTAT/AATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTAT	TGATCATATAAAAAACA ATGCTCACA	TGTGCAAGATTCCTGTT CCA	60.2	410	INTRON	Ca_24965	--	bHLH
scaffold716_P2_163516	scaffold716	163516	C/CA	TCCCAACCCAAATAAAC CAA	TTTACAGCGCTTCTCC CAAT	59.8	744	INTERGENIC	--	--	--
scaffold716_P2_174216	scaffold716	174216	TA/T	GGGTTGTGGAGCTTTT GGT	CTGTAGCATGGAGGTG AGCA	60.0	928	INTERGENIC	--	--	--
scaffold716_P2_189823	scaffold716	189823	TAAA/TAAAA	AAGCTTGTGCAAAGGG AAAA	TGGTTTTGATGGGACC AAAT	60.0	113	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold716_P2_23644	scaffold716	23644	GCA/GCATAACCA	CCACAATCTTGGCAAA CCT	GATTGCCACCGTAAG AGAA	60.1	620	INTERGENIC	--	--	--
scaffold716_P2_262424	scaffold716	262424	ATTTTTTTTTTT/ATTTTTTTTTTT	TATCCGAGTTCTCTCCA CCG	GGAAGTCCACGACCA CATC	60.4	803	INTERGENIC	--	--	--
scaffold716_P2_365948	scaffold716	365948	AAATAATAATAATAATAATAATAATA ATAATAATTAATAATAATAATAATAAT AATAATAATAA/AAATAATAATAATAA ATAATAATAATAATAATAATAATTAAT AATAATAATAATAATAATAATAATAA	TGGATGCAAAAGATTG GTTG	GGCAAACAAGAACTGA AAGCA	60.4	595	INTERGENIC	--	--	--
scaffold7187_P2_901	scaffold7187	901	A/ATAAC	TTTTAGGTTTGAGGTTC GGG	AATTATTCATATTATT TGGCAACTC	57.5	388	INTERGENIC	--	--	--
scaffold719_P2_123762	scaffold719	123762	TAAA/TAAA	AGGTCATTTTCGTCTCT CCT	TTTCATCCAATGGCACAA AGA	60.0	695	INTERGENIC	--	--	--
scaffold719_P2_15161	scaffold719	15161	AGTTGT/A	TGCATCCAACAGGTGT GTTT	TGCTCATTGGTTTGCTT TAAC	58.0	145	INTERGENIC	--	--	--
scaffold719_P2_15306	scaffold719	15306	TAAA/TAAAAA	TGCATCCAACAGGTGT GTTT	TTGCATTGTCAATTTCT ATTGTG	57.8	349	INTERGENIC	--	--	--
scaffold72_P2_23400	scaffold72	23400	AATATATATATATATATATATA/AAAT ATATATATATATATATA	TCAAATGTTTACCGCAA CGA	CCGCCACAAATGTTTT CTTT	60.0	686	DRR	Ca_27654	--	--
scaffold720_P2_118820	scaffold720	118820	CAAA/CAAAA	AACTTTTCCGCTGCCTG TAA	GTGTAAGCTTTGCCAA GGGA	60.2	496	INTERGENIC	--	--	--
scaffold720_P2_128007	scaffold720	128007	GAAAAAAAA/GAAAAAAAAA	ACAAACAAGTTGAGCAC CCC	TTGGAAAAGCCACCT ACAC	60.0	702	DRR	Ca_24735	--	--
scaffold720_P2_160655	scaffold720	160655	CAATAATAATAATAATAATAATAATA ATAATAAT/CAATAATAATAATAATAATA ATAATAATAATAATAATAAT	ATGTGTCGTCACGTCTT CCA	GGCTGCTTGAATAGCG AATG	60.9	599	INTERGENIC	--	--	--
scaffold720_P2_205887	scaffold720	205887	ATTTTTTTTTT/ATTTTTTTTTTT	CCTAAATGCGTTACACT TGGC	TCATTTGGAATTTGAG TGAATG	59.0	449	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold720_P2_262586	scaffold720	262586	ATTTTTTTTT/ATTTTTTTTT	CCTGATCCGTTGTCGTA CATT	TGGCTGATTACGCTTG TTTG	59.9	296	INTERGENIC	--	--	--
scaffold720_P2_297961	scaffold720	297961	TAAAAAA/TAAAAAA	GAGGAACCCGATGCAT TAGT	TTGCAATAATCTGCCCA TCA	60.0	802	INTERGENIC	--	--	--
scaffold720_P2_330056	scaffold720	330056	ATC/ATCATTTCTTC	GGTTTGAGAGGCGATG TGAT	AGCAACTTTTCCTTCTG CCA	60.0	329	INTERGENIC	--	--	--
scaffold720_P2_330129	scaffold720	330129	ATTTTT/ATTT	GGTTTGAGAGGCGATG TGAT	AGCAACTTTTCCTTCTG CCA	60.0	329	INTERGENIC	--	--	--
scaffold720_P2_337368	scaffold720	337368	CTTTTTTTT/CTTTTTTT	CAGAAAACGGAGGAAA GCTG	GCGTTTGACGGTTTTG AAAT	60.0	219	INTERGENIC	--	--	--
scaffold720_P2_337935	scaffold720	337935	ATGTGT/ATGT	ATTTCAAAACCGTCAAA CGC	ACATGGAATCTTCTCGT GGC	60.1	945	INTERGENIC	--	--	--
scaffold720_P2_360540	scaffold720	360540	T/TC	CACCGGAAGAAATTGAT CGT	CCAGCCTGAGTCCTCT TTTG	60.0	401	INTERGENIC	--	--	--
scaffold720_P2_370209	scaffold720	370209	A/ACTAAAATCT	TTGCCTTAACGGAAATC CAC	GGTGGGTGTAGGGAGT GAGA	60.0	336	INTERGENIC	--	--	--
scaffold720_P2_370690	scaffold720	370690	CATTGAT/C	TCTCACTCCCTACACCC ACC	CAATTCACAATTGCACC GTC	60.0	625	INTERGENIC	--	--	--
scaffold720_P2_372071	scaffold720	372071	T/TTA	ACCAACATTTAGGCTC ACC	TAGAGCGCCAAACCCT AATG	60.2	486	INTERGENIC	--	--	--
scaffold720_P2_68127	scaffold720	68127	CAAAAAA/CAAAAAA	TCACAACGGAGCTTTTC TCA	TTGGACCAATTTTGTG GCTT	60.3	421	INTERGENIC	--	--	--
scaffold721_P2_191166	scaffold721	191166	GA/GAA	CGGAGGACGAAAATGA CCTA	TGTGCATCCCATAGGT GTGT	59.8	473	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold7210_P2_7073	scaffold7210	7073	G/G	TTTTCGTCCTCCCTAGG CTT	TTGGATGCACATGATT GGTT	59.8	364	INTERGENIC	--	--	--
scaffold724_P2_100088	scaffold724	100088	ATTTTTTTTT/ATTTTTTTTTT	ACAGGAGGGTGATCGA GAGA	TGCATACTTGTGTGGC ATTTT	59.1	727	DRR	Ca_25051	Q	NAC
scaffold724_P2_100193	scaffold724	100193	TAAAAAAA/TAAAAAAA	CTGTAAGCGGAGAAAA TTGG	TTGCATACTTGTGTGG CATTT	59.1	319	DRR	Ca_25051	Q	NAC
scaffold724_P2_100328	scaffold724	100328	TAAAAAAA/TAAAAAAA	CTGTAAGCGGAGAAAA TTGG	AATGGTAGTCCCTCTG GCCT	60.0	690	DRR	Ca_25051	Q	NAC
scaffold724_P2_100591	scaffold724	100591	AATTTAACATAT/A	AAATGCCACACAAGTAT GCAA	AATGGTAGTCCCTCTG GCCT	60.0	392	DRR	Ca_25051	Q	NAC
scaffold724_P2_101398	scaffold724	101398	TA/TAGA	ATCTTGCCCAATGTTGA TGA	TGGGATAGCGGCATTT TTAC	59.9	249	INTRON	Ca_25051	Q	NAC
scaffold724_P2_104152	scaffold724	104152	CAAAA/CAAA	TCGCACTTCAATATGCT TCG	GGATGACATGTTGATT GTTGG	58.7	304	INTERGENIC	--	--	--
scaffold724_P2_112603	scaffold724	112603	TCA/T	TTACCCACGGTAGCT CTTG	TGGGATTCCTTTGGTT ATGC	59.8	849	INTRON	Ca_25052	Q	NAC
scaffold724_P2_126741	scaffold724	126741	CTTTTT/CTTTT	TCGCACTTCAATATGCT TCG	AAAGGCCATGCAAGAA GAGA	60.0	851	URR	Ca_25052	Q	NAC
scaffold724_P2_60095	scaffold724	60095	TAAAAAAA/TAAAAAAA	CTGCCACGTACCCCTTT TAT	ATACCATTGACTTGCC GGAG	60.0	401	DRR	Ca_25048	--	--
scaffold7279_P2_558	scaffold7279	558	AA/AAAGGGTGTGGTCGA	GGAATCGAGAGCTCCA AGTG	TCTCAACGCCAGTTA GCTT	60.0	523	INTERGENIC	--	--	--
scaffold728_P2_45160	scaffold728	45160	CAAAAA/CAAAAA	CTTCTGGATTGGAGG ACCA	TGGATCTGCATTTTACA GCG	59.8	614	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold7280_P2_1708	scaffold7280	1708	AC/ACC	GTTTCGTACCCCTCGA CAAA	TCCAGATGAAATCGAG GACC	60.0	311	INTERGENIC	--	--	--
scaffold7293_P2_13170	scaffold7293	13170	AG/A	TGCCTCTGGATTGGTT GAAT	AATCTATCCACCCGGA AACC	60.0	471	INTERGENIC	--	--	--
scaffold7293_P2_15472	scaffold7293	15472	TT/TTAGAAAAGTGATAGT	TTCATGCCAGCAACTCT TTG	TGCTTTGCTATGCACC AGTC	60.0	626	INTERGENIC	--	--	--
scaffold7293_P2_20198	scaffold7293	20198	TC/T	TTGCTGCCTTCTCCTGT TTT	ATGATGCACCTTGGGC CTAC	60.0	661	INTERGENIC	--	--	--
scaffold7299_P2_551	scaffold7299	551	AATATATATATATATAAATATATATAT A/AATATATATATATATATATATAAATA TATATATA	CACCAAACTTAATTTT CCCTTT	TGATTCTATGCATCGT ATTTTG	59.0	459	INTERGENIC	--	--	--
scaffold731_P2_10361	scaffold731	10361	T/TTG	ATGTCCCACCGTGAGT AAGG	TTGTCGAGCACGATTT ATGC	59.8	504	INTERGENIC	--	--	--
scaffold731_P2_222880	scaffold731	222880	GAAAAAAAA/GAAAAAAAAA	TTGATTTCTCGTTTCATT CTCCA	TTTGCTTCATGTCACCC AGA	60.2	378	INTERGENIC	--	--	--
scaffold731_P2_286109	scaffold731	286109	AATATATATATATATATATATATATAT ATATATAT/AATATATATATATATATATAT ATATATATATATAT	TCTTTTATGGCATGGTG ATTTTT	CTCATCGTCCTCCCAT CAGT	60.1	558	INTERGENIC	--	--	--
scaffold731_P2_310367	scaffold731	310367	GG/GGTGAATCCTTTACAG	GAGCCCAGAGAATTGAT GTGT	TCCGTTTTTCTTCGTTT TCG	60.2	803	DRR	Ca_23813	J	--
scaffold731_P2_315325	scaffold731	315325	CTG/CAAAAAAATTGTG	TGCGATTCGAACAGTA GTCG	AAAGCATGGCACTTCG AGTT	59.9	382	DRR	Ca_23814	J	--
scaffold731_P2_315903	scaffold731	315903	GATGA/GATGAATGA	AACTCGAAGTGCCATG CTTT	CAATACGCAATGGTGG TGAG	60.0	660	DRR	Ca_23814	J	--
scaffold731_P2_322781	scaffold731	322781	T/TCAAATTCATTAAAA	ATCCCCGATTCTCTCA AGT	AATTCCTACTGGATGC ACGC	60.1	479	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold731_P2_323192	scaffold731	323192	ATT/AT	GCAGGAATCCTCGTAC CTCA	CTGCGAATTGCGTGAA AGTA	60.0	296	INTERGENIC	--	--	--
scaffold731_P2_324478	scaffold731	324478	AT/AAATAGT	TGTTTGAAGACCGAA AACC	CAACCATCCCGTTTGG TATC	60.1	257	INTERGENIC	--	--	--
scaffold731_P2_324638	scaffold731	324638	CAAA/CAAAA	TGTTTGAAGACCGAA AACC	CAACCATCCCGTTTGG TATC	60.1	257	INTERGENIC	--	--	--
scaffold731_P2_334742	scaffold731	334742	A/ACGAGA	ATTTCTGGGAGGCAAC TCCT	TGGATCATTGGACGT TTCA	59.9	401	INTERGENIC	--	--	--
scaffold731_P2_335005	scaffold731	335005	A/AGTGGA	CTATCAATAACCCAGCC GGA	TGGATCAGATCGAGTT GGAA	59.2	857	INTERGENIC	--	--	--
scaffold731_P2_339474	scaffold731	339474	GT/GTTTCTCTT	TGTGCAACGTCATTG GATT	CCTCAGATGAGAGGCA GGAC	59.9	544	INTERGENIC	--	--	--
scaffold731_P2_342154	scaffold731	342154	CAAAAA/CAAAA	AAATGGAGGAGAAGGA GGGA	ACCCAATTACTGGAGA TGCG	60.0	574	INTERGENIC	--	--	--
scaffold731_P2_347933	scaffold731	347933	ATT/ATTT	TAAGCCCAATCGATTTC CAA	CTCGTGTCGTTTCGTG AGAA	60.0	438	INTERGENIC	--	--	--
scaffold731_P2_354972	scaffold731	354972	T/TATAATCATAC	ATAACCTTAGCGATTTC CCA	CCTCCCGTAAGATCCA ACAA	59.9	308	INTERGENIC	--	--	--
scaffold731_P2_359790	scaffold731	359790	T/TAGCAAGTGC	ATTTCTGGGAGGCAAC TCCT	AAGACGCGTAAGCGGA TCTA	60.0	298	DRR	Ca_23818	--	--
scaffold731_P2_361613	scaffold731	361613	TGG/TGGG	TGTGCTATTGCTCAAA CCG	AGCAGTCGTTTCCAGC TGTT	60.1	640	DRR	Ca_23818	--	--
scaffold731_P2_365327	scaffold731	365327	GT/GTCCGCTTAT	CTACGAGATCACCCCA AGGA	CCTAATGTGGGTGGAT TTGG	60.0	498	INTRON	Ca_23818	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold735_P2_5676	scaffold735	5676	GTATATATATATATATATATATA/GTA TATATATATATATATATATATATAT ATATA	TTTACAGCGCTTTCTCA CGA	CTTTGCCAATTCAGTC CAT	59.9	700	DRR	Ca_25786	--	--
scaffold735_P2_57041	scaffold735	57041	GTATATATATATATATATATATATA TATATATATATATAT/GTATATATATAT ATATATATATATATATATATATATA TATATATAT	GTTGGTTCCTAGCAC CGTA	TATTTGGATTTTGCCT CGG	59.9	659	INTERGENIC	--	--	--
scaffold735_P2_9565	scaffold735	9565	CTTTTT/CTTTT	ACAACGCTTTCCCAA ATG	GCATGCATGTTGAGCT TGTT	59.9	354	INTERGENIC	--	--	--
scaffold7355_P2_10548	scaffold7355	10548	ATGT/AT	AGTGTTGGAGGGAGC AGTA	CCACCATAGTGGGT GTCA	60.3	342	INTERGENIC	--	--	--
scaffold7355_P2_17568	scaffold7355	17568	TAAAA/TAAAAA	AGTAAACGCGGGAAA AGGT	GCATCAAGACGACGAA CAAA	59.8	756	INTERGENIC	--	--	--
scaffold7355_P2_18537	scaffold7355	18537	A/AAGTT	ATTTTGGCTAGGGGAG AGGA	GAGTGGGCTGATGCAA AAAT	60.1	439	INTERGENIC	--	--	--
scaffold7355_P2_20370	scaffold7355	20370	TAAAAA/TAAAAA	AAAAAGTTTCGCTTCTG ATCAAC	TGTAGACCCACAAAAT CCACC	59.7	453	INTERGENIC	--	--	--
scaffold7355_P2_21405	scaffold7355	21405	TT/TTTCT	AGGCAAAGAAGCTTATC GCA	TGGCCCATATACCAAC CCTA	60.0	773	INTERGENIC	--	--	--
scaffold7355_P2_22141	scaffold7355	22141	AAT/AATAT	ATGGGCCATTGAAATT GAG	TGGCTAACAATTTGCAA CACA	60.2	530	INTERGENIC	--	--	--
scaffold7355_P2_5128	scaffold7355	5128	AAGAGAGAGAGAGAG/AAGAGAGAGAG AGAGAGAGAG	GCAGTTCAAAGGGGCA TAGA	TCAAACACCACCCTCA CAAA	60.0	358	URR	Ca_28031	--	NF-YB
scaffold7355_P2_5659	scaffold7355	5659	TAAA/TAAAA	TTTGTGAGGGTGGTGT TTGA	GACATGGGGTCACTGC ATTA	59.4	708	URR	Ca_28031	--	NF-YB
scaffold7355_P2_866	scaffold7355	866	CTTTTTTTT/CTTTTTTTT	CAAATGAGGCACCTGG TGTG	CGTTACCGGTTGCTTT TTGT	60.0	898	DRR	Ca_28031	--	NF-YB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold7355_P2_9362	scaffold7355	9362	ATTTTTTTTTT/ATTTTTTTTTT	AGAGAAACGCTCCTCT CCC	TTGCATACCCCTTTCGA CAT	60.3	266	INTERGENIC	--	--	--
scaffold7355_P2_9948	scaffold7355	9948	AAGATAGA/AAGA	CGTTGGGAGTCATGTC ACTG	ACTGCTCCCTCCGAAC ACTA	59.9	404	INTERGENIC	--	--	--
scaffold7364_P2_2154	scaffold7364	2154	CAT/C	TCAATTTGGGTTTAGGG TGC	TGTAGTGGCATGTTTG GCAT	60.0	497	INTERGENIC	--	--	--
scaffold7364_P2_2278	scaffold7364	2278	GTTTTTTTTTT/GTTTTTTTTT	ATGCCAAACATGCCACT ACA	TGCCACCTTGACTAAT GCAC	59.7	378	INTERGENIC	--	--	--
scaffold7377_P2_545	scaffold7377	545	CT/CTT	TTTCTTCCCAACCTTCA TCG	GCCGTTGGAACCTTCAT CATT	59.9	816	INTERGENIC	--	--	--
scaffold738_P2_10670	scaffold738	10670	GAAAA/GAAAAA	GTACCACCCCACAAAA TGG	CATCAGGACTTTTGGG GCTA	60.1	637	INTERGENIC	--	--	--
scaffold738_P2_2137	scaffold738	2137	T/TC	TGAATATCGCCGAAAA GTC	TTTCATAGCAGACGAG GGCT	60.0	292	INTERGENIC	--	--	--
scaffold738_P2_5098	scaffold738	5098	ATTTTTT/ATTTTT	TCGGGTGGTACTTAAAT CGC	ATCTGACGTGGAAAC GAAC	60.0	274	INTERGENIC	--	--	--
scaffold74_P2_19648	scaffold74	19648	GTTT/GTTTT	AACGAATCTTGTGCATC CAA	AGGGAGGACGAAAAATG ACCT	59.9	169	INTERGENIC	--	--	--
scaffold74_P2_71060	scaffold74	71060	ATT/AT	CAATGTTGCGCATCAA TAG	AGGGAGGACGAAAAATG ACCT	59.9	364	INTERGENIC	--	--	--
scaffold743_P2_14244	scaffold743	14244	AACACACA/AACACA	TGCTTGATTGCTTGAGT TCC	GTACCCTGATTGCCCT CTGA	60.1	321	INTERGENIC	--	--	--
scaffold7448_P2_21480	scaffold7448	21480	GAAA/GAAAA	AGGATCTCCGATTCTC GAT	TTCCGGGTCAGATTTC AAAC	59.9	287	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold750_P2_264392	scaffold750	264392	GTTATTATTATTATTATTATTAT TATTATTATTATTATTAT/GTTATTAT TATTATTATTATTATTATTATTATTA TTAT	CGTCGCCCAATAAAGT CCTA	TTTGTTAGCATTTGCAA GGGT	59.6	622	INTERGENIC	--	--	--
scaffold750_P2_31851	scaffold750	31851	GAAAAAAAA/GAAAAAA	TGAGTTTCTATGCAAGG GCA	TTCATGAAGACACCGG AACA	60.1	273	INTERGENIC	--	--	--
scaffold750_P2_318580	scaffold750	318580	ATATAACTTAACCTATAACTTAACCTATA ACTTAA/ATATAACTTAACCTATAACTTA ACTTATAACTTAACCTATAACTTAA	AAGCGCTGTAAAAGT GCAT	AGCATTCTGCAAGGGA TCTG	60.4	436	DRR	Ca_25943	--	--
scaffold750_P2_32434	scaffold750	32434	AGG/AG	GCTTGTCCTCCAAACAAC AAT	TTGGGATGGTGATTCT CACA	59.9	627	INTERGENIC	--	--	--
scaffold750_P2_327941	scaffold750	327941	ATTTTTTTTT/ATTTTTTTTT	CCTTCTCTCGGCCTCTT TTT	GCGATCATGCTCTGTT GTGT	59.9	382	INTERGENIC	--	--	--
scaffold750_P2_360259	scaffold750	360259	GA/G	TGTTTGCTTGCTGCTT TGC	AAAATCCAACAATCTCC CCC	60.0	626	DRR	Ca_25944	--	--
scaffold750_P2_38979	scaffold750	38979	AT/A	CACTGATAACGCGACTA ATTTGA	ACCGCCACAAATGATA AAGC	60.0	748	INTERGENIC	--	--	--
scaffold750_P2_5643	scaffold750	5643	TAAA/TAA	TCGGGAACACACAC AACA	ACAACTGCGATTTCCTC AAC	60.0	504	INTERGENIC	--	--	--
scaffold750_P2_58677	scaffold750	58677	TAA/TAAA	CGTAGCATCAGCAACC TTCA	TGCTTTTGGGTGAAC CATTT	59.4	634	INTERGENIC	--	--	--
scaffold750_P2_59023	scaffold750	59023	ATTGTTGTTGT/ATTGTTGTTGTTGT	CGTAGCATCAGCAACC TTCA	TCCTCTTTTGTTTTTC CCA	59.5	989	INTERGENIC	--	--	--
scaffold750_P2_59256	scaffold750	59256	TATGTTCTGCTAATGT/TATGT	TGGTTACACCCAAAAGC AAA	TCCTCTTTTGTTTTTC CCA	59.5	373	INTERGENIC	--	--	--
scaffold750_P2_86054	scaffold750	86054	TTCTCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCT/TTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCTCTCT	GATTCCAACAATCTCCC CCT	TGCCATTGTCTCACCA AAA	60.1	536	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold7502_P2_560	scaffold7502	560	TTATATATATATATATATATATATATAT T/TTATATATATATATATATATATAT	GTTGGTCCCTAGCAC CGTA	TATCCAATCTGTGCGT CCA	60.1	806	INTERGENIC	--	--	--
scaffold752_P2_131814	scaffold752	131814	GTATATATATATATATAT/GTATATATAT ATATATATAT	GTTGGTCCCTAGCAC CGTA	ATTGCCAGAGGTGTG GAGT	59.6	754	INTERGENIC	--	--	--
scaffold752_P2_269557	scaffold752	269557	A/AC	AACGACACAATTTACT CATCGT	TAAGGTTGTCTGGGGA GGTG	60.0	368	INTERGENIC	--	--	--
scaffold752_P2_29379	scaffold752	29379	ATTAAATAAACTTAAATAAAC/ATTAAAT AAAC	ATTTGCCATGGGGTGA AATA	CATGATGCTGAGGAGC AAGA	60.1	583	INTERGENIC	--	--	--
scaffold752_P2_327098	scaffold752	327098	CTTTTTTTTTT/CTTTTTTTTTT	AAACCCCTGTCACAATC CAA	GTTGCTCCCGTATCA AAAA	60.1	340	INTERGENIC	--	--	--
scaffold752_P2_340408	scaffold752	340408	AATATATATATATATATATATAT/AA TATATATATATATATATATATATATAT	TTTGGTATTGACTCAGG GCG	AATCCGGTAAATCTCC GCT	59.9	691	INTERGENIC	--	--	--
scaffold752_P2_3867	scaffold752	3867	CAAAAAAAAA/CAAAAAAAAA	TGGATGACAATGGGTA GGGT	TATAGTACCCATTCCG CCCC	60.9	645	INTERGENIC	--	--	--
scaffold752_P2_41940	scaffold752	41940	ATTTTTTTTTT/ATTTTTTTTTT	AGCACACATGACACAAA GCA	TGAATTGTGAGGGTGT TGGA	59.9	569	INTERGENIC	--	--	--
scaffold752_P2_505163	scaffold752	505163	TTTTATTTTATTTATTTAT/TTTTATTT ATTTATTTTATTTATTTAT	AGCCATTGCAGCTTTC GTCT	TCGTGTCTCAAACTCA AGGAA	59.9	854	INTERGENIC	--	--	--
scaffold752_P2_505373	scaffold752	505373	TATTCATTCATT/TATTCATTCATTCATT	TTGGGTTTGGGCTTTAC TCA	TCCTACGTATCTTCG GTGC	60.1	909	INTERGENIC	--	--	--
scaffold752_P2_505436	scaffold752	505436	CTTTTTT/CTTTTTTTTTT	TGTCCAAGTTTAGCCCA TTT	TCCTACGTATCTTCG GTGC	60.1	831	INTERGENIC	--	--	--
scaffold7528_P2_15297	scaffold7528	15297	GTT/GTCTTCTT	TTTGGTCATTTTCGTCC TCC	TGTGACGCACAAGATT GGTT	60.2	188	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold7650_P2_9735	scaffold7650	9735	T/TG	TATGGCATTGTGGTGC ACTT	GGATTAATAATTGGAATT GTTCAAGA	59.6	482	URR	Ca_27809	O	--
scaffold7650_P2_9922	scaffold7650	9922	CA/CATA	CCGCAATTATATCTGGC ACA	AGTTCAAAAATACGCG GGTG	60.0	857	URR	Ca_27809	O	--
scaffold7657_P2_660	scaffold7657	660	CACAACAA/CACAA	AGGGAGGACGAAAATG ACCT	GGTGTGTTTGTGTCGT TGGA	60.5	412	INTERGENIC	--	--	--
scaffold766_P2_164185	scaffold766	164185	CATCAAAAA/CATCAAAAAATCAAAAA	CTGAGTCGAACCCCGT ACAT	AGCAGCAAAACAGTGAA AGCA	59.8	656	INTERGENIC	--	--	--
scaffold766_P2_179582	scaffold766	179582	GTTTTTT/GTTTTT	TGGGTGGATTTTCTGA AGC	TTTTATGGGGCCAACA ACTC	59.8	426	DRR	Ca_24688	--	--
scaffold766_P2_183062	scaffold766	183062	TAAAAAAAA/TAAAAAAAAA	AAAAGAAAACGGAGGA GGGA	GCAACCTTTATTGATTG CTATGC	60.0	592	INTERGENIC	--	--	--
scaffold766_P2_231807	scaffold766	231807	ATAATATTAATTAATA/ATAATATTAAT ATTAATATTAATA	GTTTAATTGTCGGCCT TGA	GTGCAATTCTTGTATGC CCA	59.5	528	DRR	Ca_24692	R	NAC
scaffold766_P2_243668	scaffold766	243668	GTTA/GTTAATTA	CTCAACATGCATGCAAA ACC	TCCCAACCCAAATAAAC CAA	60.0	537	URR	Ca_24693	--	--
scaffold766_P2_36512	scaffold766	36512	CCAGCATAATCAGCATAATCAGCAT/CC AGCATAATCAGCAT	CAGCTGATCAGTGCTT CACC	TTGTACAGGTGTCTGC CGAG	59.9	490	DRR	Ca_24682	--	--
scaffold766_P2_66312	scaffold766	66312	TTATATATATATATATATATATA/TT ATATATATATATATATATA	CCCAATCATCCAAACAT TCC	TTGTTGCATTCCATAC CCA	59.8	831	INTERGENIC	--	--	--
scaffold766_P2_67907	scaffold766	67907	ATTTTTTTTT/ATTTTTTTTTT	TTAGCAAGAAGGGCAG CAAT	TCAAGTTTGGGAGAAG TCCG	60.2	573	INTERGENIC	--	--	--
scaffold766_P2_79566	scaffold766	79566	CTT/CT	CAGCGAGTTCATCCTCT TCC	CCTCAGATGAGAAACC CCAA	60.0	612	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold768_P2_560	scaffold768	560	T/TG	CCATGAGAGTCGAAATCGGT	TCCCACAGATCCACATTCAA	59.9	188	INTERGENIC	--	--	--
scaffold769_P2_1084	scaffold769	1084	TTT/TTTCAATT	AAATGAACCAATTTAATGAGCTACC	CCCTCCCAAACACCC TTAT	60.0	479	INTERGENIC	--	--	--
scaffold769_P2_17748	scaffold769	17748	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TTGCTCCTTTTGCAAATAAA	TTGTGTGGCAGCTTCTAACG	60.1	545	INTERGENIC	--	--	--
scaffold769_P2_27694	scaffold769	27694	T/TAC	CTGGGCAAGGGATCTGAATA	TCACAATCAGTGCACA CAACA	59.8	311	INTERGENIC	--	--	--
scaffold769_P2_2786	scaffold769	2786	TGGCAGCAG/TG	ACGTACACGTCAGCGTTTGG	CCCAATTCTCAATCCCACTT	58.8	147	INTERGENIC	--	--	--
scaffold769_P2_29353	scaffold769	29353	AGC/AGCCCACTAATATGC	GCACTCTCATTATCCCAACA	CCACATGTCATTTAACCCTGC	60.2	370	INTERGENIC	--	--	--
scaffold769_P2_3178	scaffold769	3178	ACTCTCT/ACTCT	ACGTACACGTCAGCGTTTGG	AGCTGGATGATCACCA TGATA	58.0	975	INTERGENIC	--	--	--
scaffold769_P2_3493	scaffold769	3493	CTAA/CTAATAA	TCCAAGAAAACAGTTTCGA	TGAATGGTTTTATTGAGCTGGA	59.6	588	INTERGENIC	--	--	--
scaffold769_P2_5414	scaffold769	5414	AATATATATATATATATATATATAT ATAT/AAATATATATATATATATATAT	TCACTCGCGTTAATTTTGATG	GCGAGTGAATACATGTGCCA	60.7	518	INTERGENIC	--	--	--
scaffold769_P2_5924	scaffold769	5924	AATATATATATATAT/AAATATATATA TATATAT	TGGCACATGTATTCACGCGC	TGTTGTTATTTGTGGC GGAA	60.0	489	INTERGENIC	--	--	--
scaffold7697_P2_589	scaffold7697	589	G/GA	CTAGCCCTCGTCTGTTCAG	AATCCGTATTTGCGAC CAG	60.0	521	INTERGENIC	--	--	--
scaffold7698_P2_946	scaffold7698	946	AAA/AAAAATAA	CCGGTGATATGATGAGCTT	GGCTTTGAATCACCGAAAA	60.1	650	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold771_P2_50419	scaffold771	50419	TTATATATATATATATATATAT/TTATA TATATATATATATATATATAT	GCTTCGACACTGTAGC ACCTC	TTGTTGTAGGGCACAT TGGA	60.0	266	INTRON	Ca_27145	--	--
scaffold7715_P2_5297	scaffold7715	5297	CGTG/C	CATGCAAGACGAAGCG TTTA	ATCCTCGAATCCGACA GTTG	60.1	382	INTERGENIC	--	--	--
scaffold772_P2_112502	scaffold772	112502	CATATATATATATATATATATATAT/C ATATATATATATATATATATATATA TATATATATAT	AGGGAGGTTTGTGTT GACG	CCGGGTTGCTTTTCAA GATA	60.1	791	INTERGENIC	--	--	--
scaffold772_P2_11892	scaffold772	11892	TAAA/TA	GGCACACTCCCATAA ATTG	TTTTTCGCACCAATG AGA	60.2	539	INTERGENIC	--	--	--
scaffold772_P2_213642	scaffold772	213642	AGG/AGGG	ACTTGAGGGCGAAGAA CAAA	TTGGATGACCTACGAC TCCC	59.9	573	INTERGENIC	--	--	--
scaffold772_P2_23600	scaffold772	23600	G/GAGAGACATGTGTT	GGAAACAATGCCTCCA AGAA	GGAGGATGTAACGAC GAAA	59.9	191	CDS (FRAME SHIFT)	Ca_26413	--	--
scaffold772_P2_251341	scaffold772	251341	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	GCTCCACCCATGAAGA CATT	TGGTTCCTTAACCCG TAGC	60.0	768	INTERGENIC	--	--	--
scaffold772_P2_29841	scaffold772	29841	AATATATATATATATATATATATAT ATATATATATATATATAT/AATATATATAT ATATATATATATATATATATATAT	TCTGCAAAGAATACCCC AGG	TCCATGAATCACAAAC CTTCA	60.3	534	INTERGENIC	--	--	--
scaffold772_P2_39391	scaffold772	39391	CAA/CAAA	CAGGTGATTCGCTTG GGTT	GCCAAAACTGTTGAG GGAA	60.1	396	INTERGENIC	--	--	--
scaffold772_P2_64471	scaffold772	64471	CAAAAAAAAA/CAAAAAAAAAAAAA	TTTCTCAACCCACT CCT	AGGGAGAGGTGACAC GCAT	59.9	734	INTERGENIC	--	--	--
scaffold774_P2_3829	scaffold774	3829	GAAAATGACC/GAAAATGACCAAAATGA CC	TGGATGCACAAGATTG GCTA	AGGTCATTTTCGTCCT CCT	59.9	468	INTERGENIC	--	--	--
scaffold775_P2_110824	scaffold775	110824	TAAA/TAA	GCCGAATCGATTTTGTG AGT	GGAGGGTTTTGGTTTG GAAT	60.0	521	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold775_P2_116393	scaffold775	116393	AATATATATATATATATATATATAT/AA TATATATATATATATATATATATATAT	TTGGTATTGAACTCGGA GGC	ATCCGGTAAAAATCTCC GCT	59.9	649	INTERGENIC	--	--	--
scaffold775_P2_142405	scaffold775	142405	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATT/GTTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATT	CAACAAAAATCTCATGT GGCA	CATGACAGTGGTGTGC GATA	59.1	448	INTERGENIC	--	--	--
scaffold775_P2_156639	scaffold775	156639	TA/TAA	CAAAGGCAACTCCAC GAAT	AAAAGCGCTGTAAAAG ACCTTC	59.1	627	INTERGENIC	--	--	--
scaffold775_P2_226154	scaffold775	226154	CAA/CAAA	TATGCAGCCATAAATGC CAA	GCCGAATAAAACCTC ACAA	59.9	345	INTERGENIC	--	--	--
scaffold775_P2_325642	scaffold775	325642	TTATATATATATATATATATATATA TATATATATATAT/TTATATATATATAT ATATATATATATATATATATAT	TCGCTCAGCTGGAAC TGTA	TCAACTCATTCGACGT CACC	59.7	572	INTERGENIC	--	--	--
scaffold775_P2_347207	scaffold775	347207	AATATATATATATATATATATATAT ATATATATAT/AAATATATATATATAT ATATATATATATATATATATAT	CACTGAGTTGGTCCCC TTGT	ACCAAGATCCAAAAG TCCC	60.2	533	INTRON	Ca_23412	--	--
scaffold775_P2_388602	scaffold775	388602	CATATATATATATATAT/CATATATAT ATATATATATAT	CTTCGCGAAATAAGCT TGG	TTGGTATTGAACTCGG AGGC	60.1	567	INTERGENIC	--	--	--
scaffold775_P2_446063	scaffold775	446063	TTATATATATATAT/TTATATATATATA T	TTTTGCAAGATCTGCCA CTG	TGGAAGGATCCGGAAC TATG	59.9	867	INTERGENIC	--	--	--
scaffold775_P2_449733	scaffold775	449733	CTTATCAATTGTGTTT/CTTATCAATTGT GTTTATCAATTGTGTTT	CTCTCTTCTGCGCATCA ACT	TTGACCATGACACATG CCTT	60.0	459	DRR	Ca_23414	--	NAC
scaffold775_P2_450377	scaffold775	450377	TG/TGG	AAGGCATGTGTCATGG TCAA	TTTACGGGAACGAGGA GAGA	59.8	738	DRR	Ca_23414	--	NAC
scaffold775_P2_71985	scaffold775	71985	CTT/CT	TCGGCATATATGGAGC CTTC	TTTTCCACCAGGTTTCT TCG	60.1	256	INTERGENIC	--	--	--
scaffold776_P2_156641	scaffold776	156641	AATATATATATATATATATAT/AAATATA TATATATATATATATATAT	CAATTCCCACAGGTAC GCTT	GCTTCACCACTCTCT CTGC	60.1	722	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold776_P2_217797	scaffold776	217797	ATTTTTTTTTTT/ATTTTTTTTTT	TAGGCTACAAACCCAC CAGG	CTGCAGGATTCAAGGC TAGG	60.0	506	INTERGENIC	--	--	--
scaffold776_P2_222824	scaffold776	222824	AAATAATAATAATAATAATAATAATA ATAATAATAATAATA/AAATAATAATAA TAATAATAATAATAATAATAATAATA ATAATAA	AAAATGATTGCGACCCA AAG	CCATCAATCCATTCTT TTCG	59.4	608	INTERGENIC	--	--	--
scaffold776_P2_224423	scaffold776	224423	T/TCCCTA	TGGGATACGTAGGAGC AAGG	TGTCGGTGAAAAATGA GTGC	59.7	310	INTERGENIC	--	--	--
scaffold776_P2_90801	scaffold776	90801	GATATATATATATATATATATATA/GA TATATATATATATATATATATATA	TTGGAAAGGCTGAAAT CTGG	CCTCTTTGATCTCACCC CAA	60.0	871	INTERGENIC	--	--	--
scaffold776_P2_977	scaffold776	977	ATTTTTTTTTT/ATTTTTTTTTTTTTT	AGATGGCTGCAGCTCA AAGT	TTTCCAAGAGGTTTGG GGTC	59.0	464	INTERGENIC	--	--	--
scaffold779_P2_1492	scaffold779	1492	T/TCAATTATTA	CCTTATTTGACGCTTT TGC	TGTGATACGTTGCTAG TCTTGTC	59.9	476	INTERGENIC	--	--	--
scaffold783_P2_104485	scaffold783	104485	ATT/A	CAATCGATTGCCTGAA GGT	CCCGTATAGGCAGTA CGTT	60.0	703	INTERGENIC	--	--	--
scaffold787_P2_115849	scaffold787	115849	ATTTTTTTTTT/ATTTTTTTTTT	TTTGGACCAATTTGTG GCT	CCACTTTCAAGGTTACA CGTCA	60.1	614	INTERGENIC	--	--	--
scaffold787_P2_126309	scaffold787	126309	TTATATATATATAT/TTATATATATATA TATAT	CGTGTATATACGCACAC CCAA	TATCGATCAACGATGC CAAA	60.0	649	INTERGENIC	--	--	--
scaffold787_P2_131894	scaffold787	131894	AATTTATTTATTTATTTATTTA/AATTTAT TTATTTATTTA	CGTTATATTTATCCGCT TTTTAATCC	GGAATTTGCGTATTTCC CGTT	60.0	600	INTERGENIC	--	--	--
scaffold787_P2_144944	scaffold787	144944	ATTTTTTTTTT/ATTTTTTTTTT	CTGGAGCTACCATGCA ACAA	GAAGAACAGCCAACA ATCA	59.7	418	INTERGENIC	--	--	--
scaffold787_P2_149556	scaffold787	149556	ATTTTT/ATTTT	CGGGATGGTGGCATAA TATC	AGCAGGGTTTCTCCCA AACT	60.1	343	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold787_P2_15148	scaffold787	15148	TATCTCTC/TATCTCTCACCAACATCTCT C	AAATATTGGAAGGGAC GCCT	CAGCACATTCACCTTG GCAT	59.7	515	INTERGENIC	--	--	--
scaffold787_P2_15221	scaffold787	15221	A/AT	AAATATTGGAAGGGAC GCCT	ATGTGGGTTGGGTCCA ATAA	59.9	658	INTERGENIC	--	--	--
scaffold787_P2_154027	scaffold787	154027	TAAAAAAAA/TAAAAAAAAAAAAA	AATCCAATGACACAAAC GCA	TCAGTCAAGCGCACAT AAAA	58.1	415	INTERGENIC	--	--	--
scaffold787_P2_156863	scaffold787	156863	TG/T	ACCAGGTCTGTCCAAT CAGG	AAACACAAATCCAATCA AAAGG	58.0	347	INTERGENIC	--	--	--
scaffold787_P2_270953	scaffold787	270953	TATAAAATAAAATAAAATAAAATAA AA/TATAAAATAAAATAAA	AAACTGTTTGCGGCATC TTT	TGAAACCTTAGAGTGG TTGTTTC	59.6	777	INTERGENIC	--	--	--
scaffold787_P2_288311	scaffold787	288311	ATTTTTTTT/ATTTTTTTTT	GGGACTTAATTGTCCC GGTT	TCACAATGGTGTCTTTG CACT	59.2	670	INTERGENIC	--	--	--
scaffold787_P2_289233	scaffold787	289233	TAAAAAAAA/TAAAAAAAAA	CAAGCTATTCTTTCGGC ACAT	CGACATTCAAACATGA CCCTT	59.8	621	INTERGENIC	--	--	--
scaffold787_P2_303765	scaffold787	303765	ATTTTTTT/ATTTTT	CAAAATTCAGGTTGGA GGGA	TGGACACCAACGAAA CAAA	60.0	405	INTERGENIC	--	--	--
scaffold787_P2_306297	scaffold787	306297	TTA/T	GACAGCAAAAGGAGAG GCAC	ATCGCGATACAAAGAC CACC	60.0	524	INTERGENIC	--	--	--
scaffold787_P2_313488	scaffold787	313488	CAAA/CAA	AGGGTCTCCTGGTCTC CAAT	CTTGCCATCGTCTTGT CTCA	60.0	427	INTERGENIC	--	--	--
scaffold787_P2_314839	scaffold787	314839	GACCCAAACCCAAACCCAAACCCCA AAAC/GACCCAAACCCAAACCCAAAC C	GGTCTCGATTTCATCT GGA	GTGGTACGAAATCTCC CGAA	59.9	483	INTERGENIC	--	--	--
scaffold787_P2_316828	scaffold787	316828	ATTTTTTT/ATTTTT	CTGACCTGGAACCCGA AATA	ACACTAGCCATTGTTTG GGC	60.0	435	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold787_P2_333307	scaffold787	333307	TTTTCGAATTTCTGAATTT/TTTTCTGAATTT	AGAGAGAAGGGCTGGA CACA	TACGATTCCACGACCA AACA	60.0	505	INTERGENIC	--	--	--
scaffold787_P2_334329	scaffold787	334329	ATTTTTTTTT/ATTTTTTTTTT	CTTCCTCTGTGCCACAT CCT	TTCATTCGTGTCTGCTT TGG	59.8	598	INTERGENIC	--	--	--
scaffold787_P2_33665	scaffold787	33665	CTTTTTTTTTT/CTTTTTTTTTT	CACCAGGAGAAGCTGG AAAG	GCATCCTGCCACAATG AAT	59.5	190	INTERGENIC	--	--	--
scaffold787_P2_34016	scaffold787	34016	ATTTTTTTTTTTTTTT/ATTTTTTTTTTTTTT	CACCAGGAGAAGCTGG AAAG	GGCACTCGTGACTCTG TCAA	60.0	780	INTERGENIC	--	--	--
scaffold787_P2_348087	scaffold787	348087	TTATATATATATAT/TTATATATATAT	GAGGGGATGGTGAGAG TGAA	GCAGACATCACATGGA AGGA	59.6	595	INTERGENIC	--	--	--
scaffold787_P2_350892	scaffold787	350892	GAAAAAAAAA/GAAAAAAAAA	TTTTTGAGTTGTTAGGG CACAA	TTCAGTGCGATGGAG AAAT	60.6	439	INTERGENIC	--	--	--
scaffold787_P2_353218	scaffold787	353218	A/AT	CCCCCTCTTAGGCGTA CTTC	TACCTCCCGTCACCAA AAAC	59.8	529	INTERGENIC	--	--	--
scaffold787_P2_353468	scaffold787	353468	G/GA	ATTGTTTTTGGTGACGG GAG	ATGAATTAAGCCCAAC CCC	60.0	503	INTERGENIC	--	--	--
scaffold787_P2_354624	scaffold787	354624	ATATTATTATTATT/ATATTATTATTA TTATTATTATT	TGGAACAGGTCAAATC AAGG	TGGGATGAATTGACCC CTTA	60.1	569	INTERGENIC	--	--	--
scaffold787_P2_362537	scaffold787	362537	GAAAAAAAAA/GAAAAAAAAA	TTCCCGATTAGTCCTT TATTCC	GCATGAATGATGTTGC TTGG	60.1	518	INTERGENIC	--	--	--
scaffold787_P2_416924	scaffold787	416924	ATTTTTTTTT/ATTTTTTTT	TGGAAGACATTTGTGA TGAGG	ATCAGACGACTGTTAA GCTAATTTAA	57.1	905	INTERGENIC	--	--	--
scaffold787_P2_429004	scaffold787	429004	G/GGA	TCATTTCAATGCCCTCT TCC	TCTTTGAGGGATTCGT TTGG	60.0	316	INTRON	Ca_25848	R	NAC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold787_P2_435184	scaffold787	435184	GAAAAAAAAA/GAAAAAAAAA	CGTTCATCGTGTCTCTG	TCGCACTCTTGTCAAACACA	59.0	464	URR	Ca_25848	R	NAC
scaffold787_P2_437054	scaffold787	437054	CAAAAAAAAAA/CAAAAAAAAAAA	TCAATGGCTCATCAAAACAA	TTTTGTGCATCGATTGGT	60.0	397	INTERGENIC	--	--	--
scaffold787_P2_460684	scaffold787	460684	CAT/CATAT	TATGGGAAGGAAATGTGGGA	TCACTCGCAACGAGAA GTTG	60.2	601	INTERGENIC	--	--	--
scaffold787_P2_463325	scaffold787	463325	CTTTTTTTTT/CTTTTTTT	CCCTAGTGCCAATTCGAGAG	AAGACAAAACCAACCGCATC	60.0	780	INTERGENIC	--	--	--
scaffold787_P2_468035	scaffold787	468035	CTTTTTTTTT/CTTTTTTTTT	CACCCTAACCTAGGTTCCA	GCTACGCACGGGTTACTC	60.7	644	INTERGENIC	--	--	--
scaffold787_P2_472975	scaffold787	472975	T/TTA	ACGCTGTGGTCCATGTAAA	TGAACAAAATCTAAAGCGTAAAGG	60.1	428	INTERGENIC	--	--	--
scaffold787_P2_473392	scaffold787	473392	TAATAAATAAA/TAATAAATAAATAA	CCTTTTACGCTTTAGATTTGTTC	AATGTGTATCCGTGTTCCG	58.4	545	INTERGENIC	--	--	--
scaffold787_P2_473598	scaffold787	473598	TAA/TA	CGGTGAATTTTGAATATGTAGGG	CAATCGAAATATCAGGCCGT	59.9	469	INTERGENIC	--	--	--
scaffold787_P2_5282	scaffold787	5282	TGAGAGAGAGA/TGAGAGAGA	AGACCAGAAAACCCACATGC	CCAAGTGTCAAAGAGGAAACA	59.3	475	INTERGENIC	--	--	--
scaffold787_P2_68520	scaffold787	68520	GTTTTTTT/GTTTTTTTT	TTTCTCCCGAGGCTTACTT	GCATATGGAGGACGAA AAGG	59.5	713	INTERGENIC	--	--	--
scaffold787_P2_79180	scaffold787	79180	GTTTT/GTTTTT	GTCCTCCCGAGCTTATTCT	GCATAGGGAGGTCGAA AATG	59.5	711	INTERGENIC	--	--	--
scaffold787_P2_91954	scaffold787	91954	C/CA	AGGTCATTTTCGACCTCCCT	TAGAACAAGCCTCGGGAAGA	59.9	331	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold793_P2_248408	scaffold793	248408	T/TA	TGCTCATGCATTTTCAT GCT	GAGTCCCTGTGTTGCC AAAT	60.0	410	INTERGENIC	--	--	--
scaffold793_P2_254314	scaffold793	254314	GATATATATATATATATAT/GATATATAT ATATATATATATAT	TGCAAGCAACCTTGTT GAC	TGTCACCGTCATATTCA TTCAA	58.9	579	INTERGENIC	--	--	--
scaffold793_P2_49023	scaffold793	49023	CATAATAATAATAATAATAATAATAA /CATAATAATAATAATAATAATAATA ATAA	TGTATGAGCAACGGAT GTTGA	GCAAGGCGCGAGTTAG TATC	60.0	351	INTERGENIC	--	--	--
scaffold793_P2_49283	scaffold793	49283	GTATATATATATATATATATATATAT/ GTATATATATATATATATATATATATA TAT	GATACTAACTCGGCC TTGC	GGGGGTGTAATGAAAT TGACC	60.3	469	INTERGENIC	--	--	--
scaffold793_P2_99697	scaffold793	99697	TTAATAATAATAATAATAATAATAAT AATAATAATAA/TTAATAATAATAAAT AATAATAATAATAATAATAATAA	ACAGTGTGGGTTGCT TTCC	TCACAATGGCTTTTGA GCTG	60.0	671	INTERGENIC	--	--	--
scaffold794_P2_137216	scaffold794	137216	TCTG/TCTGTTTACTGCTG	CGCTTAATCCGGTCAAA GAA	ATCAGGAAGTGAGCCT CCAA	59.8	678	INTERGENIC	--	--	--
scaffold794_P2_138143	scaffold794	138143	GA/G	CTGTCAAACGGGTTCT TGTT	TGCTTGCACTGCTTCA TCTT	59.7	378	INTERGENIC	--	--	--
scaffold794_P2_243225	scaffold794	243225	AC/A	AATGGCCACGAATCTG AAAG	CGGTCAATTTTGTGCT GTG	60.0	855	INTERGENIC	--	--	--
scaffold796_P2_26479	scaffold796	26479	GTT/GTTT	TCATTTTCGTCTCCTT TGG	GCCTATTGGATGCACA GGAT	59.9	470	INTERGENIC	--	--	--
scaffold796_P2_7462	scaffold796	7462	GTTTTTTT/GTTTTTTT	TCCTCCCTTGGCTTATC CTT	GGAGGACGAAAATGAC CTGA	60.1	607	INTERGENIC	--	--	--
scaffold797_P2_15287	scaffold797	15287	CAAAAA/CAAAAAAA	GGTGATTTTATGATGT GCTAGTTTT	CCCTTTCAATCCCGTT TTT	60.2	689	INTERGENIC	--	--	--
scaffold798_P2_11771	scaffold798	11771	AAGGGTTTAGGGTTTAGGGTTTAGGAT TAAGGGTTTAAGGGTTTAGGGTTTAGGG TTTAGGGTTTAGGGTTTAAGGGTTTAAG GTTTAGGGTTTAGGGATTAGGGTTTAG GGTTTAGGGTTT/AAGGGTTTAGGGTTT AAGGGTTTAGGGTTTAGGGTTTAGGGTT	GAAAAAGCGCTGTAAT GGC	TGCATTGATTTAAACAA ACATGG	59.8	500	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold798_P2_16927	scaffold798	16927	T/TC	ATGCAATGCGTATATG CAA	TAAATCGTGTGACCC GTGA	60.0	233	INTERGENIC	--	--	--
scaffold799_P2_20961	scaffold799	20961	TAAAAAAAA/TAAAAAAAA	TCGTCTGATAGACGGC TGAA	ATATTGGTTAAACGGC GCT	58.7	873	INTERGENIC	--	--	--
scaffold799_P2_7440	scaffold799	7440	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	AGGAAGAGTGGAGTTG CGAA	TGACGCGACTAACATT CAGC	60.0	560	INTERGENIC	--	--	--
scaffold80_P2_140990	scaffold80	140990	TAAAAAAAA/TAAAAAAAA	TGTGGTTTGCACTTCTA ACTTTG	TCAAAATCATGACGAAT GCC	59.5	796	INTERGENIC	--	--	--
scaffold80_P2_25932	scaffold80	25932	TAAAAAAAA/TAAAAAAAA	AATGTAGTCCCAACCC GATG	CGATACTACCCCTCG TTGT	60.0	210	INTERGENIC	--	--	--
scaffold80_P2_273178	scaffold80	273178	T/TC	CTCTCATCTGAGGGCA AAGC	TCGATTGGCTTAAAC CTGG	60.1	409	INTERGENIC	--	--	--
scaffold80_P2_301960	scaffold80	301960	GATATATATATATATATATATA/GATA TATATATATATATATATA	GCTTTGTGGAGAAAT GGAA	TTGTCTCTCGACGAAC GATG	60.0	745	INTERGENIC	--	--	--
scaffold80_P2_364459	scaffold80	364459	CT/CTT	CCCACATTTCTTTGCA GAT	TCGTTTAATTCGGGAC TGG	59.9	625	INTERGENIC	--	--	--
scaffold80_P2_386609	scaffold80	386609	ACC/AC	GGAGGTCTTTTACAAC GCTCTT	TGGAGATGATTGCAA TGGA	60.0	692	INTERGENIC	--	--	--
scaffold80_P2_432444	scaffold80	432444	GNNNNNNNNN/GNNNNNN	AGGAAAAAGAGGGCA GGAA	TGGTGTGACAGAAACG GTGT	60.0	679	INTRON	Ca_26298	--	--
scaffold80_P2_43513	scaffold80	43513	AGGG/AGG	CCGAGCCAAAATCCAAA ATA	TTCTCGGGCTAAAATC ATGG	60.0	352	INTERGENIC	--	--	--
scaffold80_P2_56806	scaffold80	56806	GCC/GC	ATGCCTCCTTCTTCTCO CTT	GGAAATTCATGTTTCA CGA	58.4	544	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold801_P2_10173	scaffold801	10173	CTTTTTTTTT/CTTTTTTTTT	GGAAAATTAGCCACGG ATCA	GGGTATGAAGGGTTA GGGA	60.0	421	INTERGENIC	--	--	--
scaffold801_P2_106576	scaffold801	106576	AGG/AG	CCGTGTCGTGAAATCA ATG	GGTGAGTTGGGCATGC TTAT	60.0	348	INTRON	Ca_26177	--	--
scaffold801_P2_118356	scaffold801	118356	TG/TGAGTCGTGTAG	ATGGGCCACCGTGTTA GTAG	CAATTCTCGCAGCACT CAAA	60.0	507	INTERGENIC	--	--	--
scaffold801_P2_138996	scaffold801	138996	GTTTTTTTTTTTTT/GTTTTTTTTTTTT T	GCAGCAATTGTCAACAA CAC	TTTGGTCCTTCAACTTG CAC	58.7	929	INTERGENIC	--	--	--
scaffold801_P2_144799	scaffold801	144799	GTTTTTTTTTT/GTTTTTTTTTTT	TTTTCATGTTGCACATG GGT	GGAGTCTTGCACAAG AGGG	59.8	218	INTERGENIC	--	--	--
scaffold801_P2_145857	scaffold801	145857	GAAAAAAAAA/GAAAAAAAAA	ACGAAACACATCTGATG GCA	TGCATGAGAGTTGCCA TTGT	60.3	829	INTERGENIC	--	--	--
scaffold801_P2_152306	scaffold801	152306	ATTTTTTTTTT/ATTTTTTTTTT	TCCCCATTCTCTTCTTC ACC	TGGTGGTCTTGTTGGT TTCA	60.0	778	INTERGENIC	--	--	--
scaffold801_P2_152885	scaffold801	152885	TAATAAAATAAATAAT/TAATAAAATAAT AAATAAAT	TGAAACCAACAAGACCA CCA	TTATCCCCTCCTCTCT GCT	60.2	552	INTERGENIC	--	--	--
scaffold801_P2_160078	scaffold801	160078	TAA/TAATAACAA	ACTAGATGGTCGCATC CTGG	CACACGTTTGTTTATG GCAA	59.5	717	INTERGENIC	--	--	--
scaffold801_P2_160972	scaffold801	160972	CCCA/C	AACAAAATTGAACAACC AAAGAA	TTTGTGTTCCGACATCT CCA	60.1	532	INTERGENIC	--	--	--
scaffold801_P2_161086	scaffold801	161086	TAAAAAAAAA/TAAAAAAAAA	CAGGATGCGACCATGT AGTG	TTTGTGTTCCGACATCT CCA	60.1	244	INTERGENIC	--	--	--
scaffold801_P2_165990	scaffold801	165990	CAA/CAAAA	ATCGCGGTCACCACTT AAAC	TCGAAAAGAAATCGAG ACCG	60.3	655	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold801_P2_189547	scaffold801	189547	CTAAATTGATA/CTAAATTGATAAATTGATA	CAGGAAAAAGAAGGA CCGA	TGCAACACACTTTCCAAT GTCA	60.1	637	INTERGENIC	--	--	--
scaffold801_P2_192338	scaffold801	192338	ATTTTTTTTT/ATTTTTTTTTT	TGTGCAGATAAATGGC CAAA	GAGCTGTGTCTTGGCA ATCA	60.0	792	INTERGENIC	--	--	--
scaffold801_P2_197501	scaffold801	197501	ATTTT/ATTT	CGATACTAAGGTCGG GCTG	GGGAAGCACAAGAGCA AAAC	59.9	556	INTERGENIC	--	--	--
scaffold801_P2_201715	scaffold801	201715	CTTTTTTTTTT/CTTTTTTTTTT	TGCACCTTCTTCATTG GGT	TGAAGCAAAACGTGCA AAAG	60.0	320	INTERGENIC	--	--	--
scaffold801_P2_202304	scaffold801	202304	TAAAAAAAA/TAAAAAAAA	TGCTTCTTTTGCACGTT TTG	AGACGTCCTTCTTTGC GGA	60.0	837	INTERGENIC	--	--	--
scaffold801_P2_20920	scaffold801	20920	ATTTTTTTTT/ATTTTTTTTT	TACCCATGTGCGTCACT GTT	GGACATGGTTGAGGAA ATGG	60.2	223	DRR	Ca_26173	--	--
scaffold801_P2_254946	scaffold801	254946	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TTTTGTTCGTCGTCCTG CTG	TCATCATCAAGAAAGA AAATGTG	58.3	825	INTERGENIC	--	--	--
scaffold801_P2_258190	scaffold801	258190	AAA/AAACAA	AGGGAGGAGAGGCAAA GAAG	CATGGTATAACGCATT CCCC	60.0	677	INTERGENIC	--	--	--
scaffold801_P2_260992	scaffold801	260992	CATAT/CAT	TCGTCCGTAAAAGATAC CGC	GGAGGACCAAAATTG AGCA	60.1	661	INTERGENIC	--	--	--
scaffold801_P2_4383	scaffold801	4383	CCTC/CC	ATGGTGGTGAGCAACT TTCC	TATTTTGGATTTTGGCT CGG	59.9	626	INTERGENIC	--	--	--
scaffold801_P2_46754	scaffold801	46754	TAAAAAAAAAAAA/TAAAAAAAAAAAA	AGGCGTGAAAAAGTTG ATGA	GATCAAGCCCAAAAGG TCAA	60.1	350	INTERGENIC	--	--	--
scaffold801_P2_79233	scaffold801	79233	ATTTTTTTTTT/ATTTTTTTTTT	CTCGACACATTTCAAAG GCA	TTGACTGCTGTTGCGT TAGG	60.1	671	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold801_P2_95356	scaffold801	95356	GAAAAA/GAAAAAA	TCAAAGTACAATGGGT AAACAA	TTGTTATGGCATCGGA AGTCT	59.6	737	INTERGENIC	--	--	--
scaffold802_P2_8269	scaffold802	8269	AATATATATATATATATAT/AATATATA TATATATAT	CAATTTAATTTTGGAA GGGAA	TGAATCTAGGTGACCG CAAG	58.9	694	INTERGENIC	--	--	--
scaffold8054_P2_1926	scaffold8054	1926	AT/A	TGTTAATCCAATGCCGA TGA	GAATTTGGGATTTCAAC CGA	59.7	447	INTERGENIC	--	--	--
scaffold806_P2_105829	scaffold806	105829	CTTTTTTTTT/CTTTTTTTTTT	GTTTGATGTGTGTTGG CTGG	CATTTTAACCCCTGCCT CAA	59.9	590	INTERGENIC	--	--	--
scaffold806_P2_133895	scaffold806	133895	CTTTTTTTTT/CTTTTTTTTTT	CACGAGTCCGATAAGG GTGT	GGGCAATTGAAGAACC AAGA	60.1	537	DRR	Ca_27381	--	--
scaffold806_P2_24195	scaffold806	24195	CTTTTTTTTT/CTTTTTTTTTT	CACAACCAAGGCAAAAC AAGA	GAGGTTGTTGGACTG GCAT	60.0	896	INTERGENIC	--	--	--
scaffold806_P2_37447	scaffold806	37447	AATATATATATATATATA/AATATATAT ATATATATATATA	TTGGTATTGAACTCGGA GGC	CGAGGCAGAGGAAGAA AATG	59.9	359	INTERGENIC	--	--	--
scaffold806_P2_81697	scaffold806	81697	GCC/GC	CTTGGCCAAATGGACA AAAT	CGTGAGATCCCCTAT CGTA	59.9	733	INTERGENIC	--	--	--
scaffold808_P2_3146	scaffold808	3146	G/GC	TGTTGGATAAGTTCTGC CCA	CCCAGAAAACGCAGAT TGAT	60.1	430	DRR	Ca_27975	--	--
scaffold809_P2_156393	scaffold809	156393	TAAAAA/TAAAAAA	GAATCGGCAGATATGA AGGG	CTCCCCAGTTTGGTA GCCT	60.5	392	INTERGENIC	--	--	--
scaffold809_P2_24118	scaffold809	24118	AATATATATATATATATATA/AATAT ATATATATATA	AAACAGTATTTGTGGC GGC	ATTTGTTGGCATTTTGT GGC	60.7	782	INTERGENIC	--	--	--
scaffold81_P2_21608	scaffold81	21608	GAAAAAAAAA/GAAAAAAAAA	TGGGGTCCATGTACCA CTTT	AACCTCTACCTTCACG CCCT	60.1	337	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold81_P2_91419	scaffold81	91419	A/AC	TGAGGAGAAACAAAT GGGG	ATGGAAGGGTCGTTGA CATT	59.3	458	INTERGENIC	--	--	--
scaffold811_P2_125062	scaffold811	125062	AATATATATATATATATATATA/AAAT ATATATATATATATATATATA	TTGGTATTGAACTCGGA GGC	GGTTTTGCATGCATGT TGAG	60.1	628	INTERGENIC	--	--	--
scaffold811_P2_159571	scaffold811	159571	TTATATATATATATATATATATATAT/T TATATATATATATATATATATATAT	TTGCAACATGCTATTTCC CCA	TGGTGCTATTTCGAA TCAA	60.1	613	INTRON	Ca_27462	--	--
scaffold811_P2_234762	scaffold811	234762	GTAATAATAATAATAATAAAAAAT AATAATAATAATAATA/GTAATAATA ATAATAATAATAATAAAAAAAT AATAATAATAATAATA	GGTGTGCTGTGTGTT TGCC	GGCTCTCGATTTCATCT GGA	60.0	683	INTERGENIC	--	--	--
scaffold811_P2_238697	scaffold811	238697	CTATATATATATATATATATA/CTATAT ATATATATATATATATATA	GGTGTGCTGTGTGTT TGCC	CCGTGCTAATCTCTGC TTCC	60.0	447	INTERGENIC	--	--	--
scaffold811_P2_266221	scaffold811	266221	GTTATTATTAT/GTTATTATTATTAT	GATGCACTCAATCTTTA AAAGGAA	TGACAACCAATTTGT TCTATG	58.9	384	INTERGENIC	--	--	--
scaffold811_P2_268488	scaffold811	268488	TAC/T	TCCAGATGAAATCGAG GACC	GGCTAGCGTTTGAGAT CTGG	60.0	722	INTERGENIC	--	--	--
scaffold811_P2_2791	scaffold811	2791	ATTTTTTT/ATTTTTT	CACACACACAAAAACA AAACAAA	TCTGTTTGCTGATGCC AGTC	60.0	416	INTERGENIC	--	--	--
scaffold811_P2_56559	scaffold811	56559	GATATATATATATATATATATAT/GAT ATATATATATATATATATATAT	TTTAACGTGTCGCTCT TTG	GAATAAAATGCACCG CACT	60.0	748	INTERGENIC	--	--	--
scaffold812_P2_188671	scaffold812	188671	CTTTTTTTTTTTTTTT/CTTTTTTTTT TTTTTTTT	AGTGCTCGGACACTTG TTAGC	TCTAGCCTTTCGAT GACC	60.4	938	INTERGENIC	--	--	--
scaffold812_P2_202003	scaffold812	202003	TAAAAAAA/TAAAAAAA	AAATAGGGGGACCAAT TTCG	GCTTACCCAACAAAA GGAA	60.0	462	INTERGENIC	--	--	--
scaffold812_P2_202037	scaffold812	202037	ATTTTTTTTTTT/ATTTTTTTTTTT	AAATAGGGGGACCAAT TTCG	GCTTACCCAACAAAA GGAA	60.0	462	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold812_P2_206693	scaffold812	206693	TAAAAAAAAA/TAAAAAAAAA	GCTGGACTCAATTCCT TAATTC	GCTTACACATTTCTCCC CGA	60.1	401	INTERGENIC	--	--	--
scaffold812_P2_207728	scaffold812	207728	GAAAAAAAAA/GAAAAAAAAA	AACCATTTTGCACGTGA TTTT	TTTTCATGCATGCGATC CTA	60.2	763	INTERGENIC	--	--	--
scaffold812_P2_213627	scaffold812	213627	ATTTTTTTTT/ATTTTTTTTT	GGGACAAGACGTCCAA CCTA	TGTGAATGCCTAAGTG GCTG	59.9	694	INTERGENIC	--	--	--
scaffold812_P2_215247	scaffold812	215247	TGG/TG	AGAAGGAACAACGAGA ACGC	TGCTCTTCTCATTGGG AACC	59.9	178	INTERGENIC	--	--	--
scaffold812_P2_215880	scaffold812	215880	TAAA/TAAA	GAGCGCTGTAAAGAC CACC	TTGTCCCATGCAAGGT TAGG	60.9	760	INTERGENIC	--	--	--
scaffold812_P2_216839	scaffold812	216839	TAAAAAAAAA/TAAAAAAAAA	GCATTTGATCGTCCCTC ACT	GGACAAAGCACACCAG GAAT	60.0	447	INTERGENIC	--	--	--
scaffold812_P2_219294	scaffold812	219294	T/TGCTATA	GAATGCCACGACATG TTTA	CGCACACGAAATATC ACCA	60.5	486	INTERGENIC	--	--	--
scaffold812_P2_222201	scaffold812	222201	GTTTTTTTTTT/GTTTTTTTTTT	GGAAGTTGCCTTAGTG GCAG	CTTGAAAGATGGTCCC CAAA	59.9	423	INTERGENIC	--	--	--
scaffold812_P2_228611	scaffold812	228611	TAAAAAAAAA/TAAAAAAAAA	CAAGTGCATTCGCCAA GAT	CGCATGAATATTGTCAA CGG	60.0	529	INTERGENIC	--	--	--
scaffold812_P2_240537	scaffold812	240537	TAAAAAAAAA/TAAAAAAAAA	CTGATGCTCACTTTTGT CCA	TCCATTACATTAATGC ACGA	59.9	409	INTERGENIC	--	--	--
scaffold812_P2_245558	scaffold812	245558	GAAAAAAAAA/GAAAAAAAAA	CAAAGTCTTCACACACC GACA	TGTTGACTCCAGTCAC CGAG	59.9	736	INTERGENIC	--	--	--
scaffold812_P2_255112	scaffold812	255112	ATTTTTTTTT/ATTTTTTTTT	CCAAACTGGGGAGAA ACAA	CCACAAATCTTTTGCA TTGA	58.7	461	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold818_P2_1660	scaffold818	1660	GTTTT/GTTTTT	TTAGGTCATTTCGCTCC TCC	TAAACGTTCCACCAAC GACA	60.0	602	INTERGENIC	--	--	--
scaffold820_P2_15078	scaffold820	15078	A/AG	TCATCATGGGCTTACGA CCT	GGCCAAACCCATTAAA ACCT	60.1	343	INTERGENIC	--	--	--
scaffold820_P2_54895	scaffold820	54895	AGAATAT/A	CCTTTTGCCCAATAAAA TGTG	CAGCGCTCGATTCTAC AGTG	59.8	337	INTRON	Ca_27426	I	G2-like
scaffold820_P2_54924	scaffold820	54924	ATATATG/A	CCTTTTGCCCAATAAAA TGTG	CAGCGCTCGATTCTAC AGTG	59.8	337	INTRON	Ca_27426	I	G2-like
scaffold8210_P2_907	scaffold8210	907	G/GA	GATGATGAGCAAGGCA ATCA	AACTCAGCCTCCCCTT TTGT	60.1	171	INTERGENIC	--	--	--
scaffold823_P2_52739	scaffold823	52739	TATAATAACATATAATAA/TATAATAACA TATAATAATAACATATAATAA	CCTTTTAAAGTTTGACT GCATAACAA	TGAAATAAAACCATAAA ACGAAGA	57.1	830	INTERGENIC	--	--	--
scaffold824_P2_11902	scaffold824	11902	TAT/TATTATGTTGTTTGAT	TGGTCGACAAGCAACT GAAG	CTCCCCCTTTTGGCAT AAT	60.1	518	INTERGENIC	--	--	--
scaffold824_P2_6128	scaffold824	6128	CA/C	CACCCAGTTTTGAGG GTAA	CGATTGTGTTTGACACA GGG	60.0	191	INTERGENIC	--	--	--
scaffold8253_P2_3721	scaffold8253	3721	TTAC/T	AAAATCCAACATCTCC CCC	TTGATGGTTTTGCATG CTGT	60.1	173	INTERGENIC	--	--	--
scaffold829_P2_10973	scaffold829	10973	T/TA	TTTATTTGACAACCTCGT TTTTGTT	GAGCGAATTGAGAAAC GAGG	60.0	799	INTERGENIC	--	--	--
scaffold829_P2_12450	scaffold829	12450	GT/G	AATCGAATTCACAAGCC ACC	GAACCAAGGGCCAAAA ATCT	60.3	153	INTERGENIC	--	--	--
scaffold8301_P2_5927	scaffold8301	5927	AGTTAGTTTTTTTATTGTTAGTTTTTT/A GTTAGTTTTTT	ATGTCGCGTCTTCATCA ACC	ACAATTTATCCGTGTCG CGT	60.4	546	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold831_P2_50051	scaffold831	50051	A/AAG	TGACCAAAATGCTCATC CAA	AGGTCATTTTCGTCCTC CCT	59.9	285	INTERGENIC	--	--	--
scaffold8314_P2_1258	scaffold8314	1258	CTTTTTTT/CTTTTTTT	AATTTAGCTCATTGCTG CCG	TACCTCCTTTGGAAGC ATGG	60.1	353	INTERGENIC	--	--	--
scaffold8314_P2_2052	scaffold8314	2052	G/GC	TCAATTAGGCCCTTCAC CAC	GTCCTCTGAAACCTCC CACA	60.1	915	INTERGENIC	--	--	--
scaffold8314_P2_868	scaffold8314	868	CAAAAAAAAA/CAAAAAAAAA	TGAATGGTTCATGGTT ATCA	GTGGGAAGTGGTAGAG TGCG	60.7	415	INTERGENIC	--	--	--
scaffold8315_P2_17783	scaffold8315	17783	GTATATATATATATATAT/GTATATAT ATATATATATATATATAT	AGGGTCTCCAAGTCCT CGAT	TTTTAGGGCTAGTTGTA CACATGAA	59.2	377	INTERGENIC	--	--	--
scaffold8315_P2_18988	scaffold8315	18988	TAAA/TTTAAAAA	AAAAATTATATTGCGT CAATTTGG	GTGCTGGCCATAGGAA ATGT	60.0	565	INTERGENIC	--	--	--
scaffold8315_P2_20409	scaffold8315	20409	ATT/AGTTTTT	TTTCCAACCTCGGGAGTA ATTG	TGGAAAGAATGTTTAA GGTTTTGA	59.1	777	INTERGENIC	--	--	--
scaffold8315_P2_20462	scaffold8315	20462	GTTT/GTT	AAAAGGATATTCAACTC TCCAAAAA	CGATTTTGCTACACAAA ATTTC	59.9	759	INTERGENIC	--	--	--
scaffold8317_P2_2177	scaffold8317	2177	CTTTGTTT/CTTTGTTGTTT	TGACAATGGCACTTTTG TTGA	TCACGACGAAGAATTC GATG	59.8	722	INTERGENIC	--	--	--
scaffold8393_P2_1553	scaffold8393	1553	ATTTT/ATTTTTT	CCGGTTGCACAACATT CTTA	TCTTTCTTATGGTTCTG TAAAGCTGA	59.9	378	INTERGENIC	--	--	--
scaffold841_P2_37303	scaffold841	37303	AT/ATT	TTTGTGCTCACCTTATT GATGA	AAAATGGACAATTGGC TTGC	59.9	651	INTERGENIC	--	--	--
scaffold8412_P2_961	scaffold8412	961	TAAAAAAA/TAAAAAAA	TTTTCACATTTCAAAG CATGA	TCACATCTTCCTTATG CCGC	60.1	342	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold842_P2_20647	scaffold842	20647	TA/TAA	TGATTCTGTAACACCC CAA	AACCAAAACACACAAGG AAATATGA	59.7	332	INTERGENIC	--	--	--
scaffold842_P2_30005	scaffold842	30005	CAAAA/CAAAAAAAAA	GATACTATGCCACCATC CCG	TGGTCATGCAGAACT CAGC	60.0	848	INTERGENIC	--	--	--
scaffold843_P2_1852	scaffold843	1852	GCC/G	TTTCGGTCCATTTTTC TTC	TCCTGGTCCTCGATTT CATC	60.0	283	INTERGENIC	--	--	--
scaffold844_P2_1501	scaffold844	1501	CA/C	AACCAAACTGGTGCATC ACA	AGCCTAGGTGGACGA AAAT	60.0	676	INTERGENIC	--	--	--
scaffold844_P2_5721	scaffold844	5721	TAA/TA	CATCTACGCGTGTGTT GTAA	TGCATAAAATCACCATG CCA	60.9	206	INTERGENIC	--	--	--
scaffold845_P2_100418	scaffold845	100418	C/CA	GGAAGAACAATTGAGA CGCC	GATCCAACCTTAACCTC CCC	59.6	371	INTERGENIC	--	--	--
scaffold845_P2_102274	scaffold845	102274	TTAAGTAAG/TTAAG	ACTCTAAGTGCCCTCC CGTT	TTGACGGTCAGGTGAG ACAG	59.9	233	DRR	Ca_22415	R	--
scaffold845_P2_102446	scaffold845	102446	CAA/CAAA	CTGACCGTCAAAAGCA CTGA	ACGCATAATACCTGAA CGGC	60.0	480	DRR	Ca_22415	R	--
scaffold845_P2_111245	scaffold845	111245	ACGAAT/A	GGCTCGTAGGTATCC GTAA	TTATATTAGTGCGGGC GTGG	60.8	166	INTERGENIC	--	--	--
scaffold845_P2_111713	scaffold845	111713	GTTTT/GTT	GGGACATGTAATTACC CGCA	CCGTACCTCTTGGGT ATCA	59.8	625	INTERGENIC	--	--	--
scaffold845_P2_11644	scaffold845	11644	TAAAA/TAAAAA	GCTTCTTGAGATACG TGCC	TGTGAACACGACCTCT CCCT	60.7	535	INTERGENIC	--	--	--
scaffold845_P2_118767	scaffold845	118767	GTTTTTTTTT/GTTTTTTTTTT	TAGTTCTCATACCCGCA CCC	TGCCTTAATGGCTAGG GATG	60.1	161	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold845_P2_132751	scaffold845	132751	CAATAAAT/CAATAAATAAT	AGTGTGTTTGGGTG GGAG	TCGATTGACATTGCG TGT	60.1	526	INTERGENIC	--	--	--
scaffold845_P2_132810	scaffold845	132810	GA/GAAATTCTAA	AGTGTGTTTGGGTG GGAG	TCGATTGACATTGCG TGT	60.1	526	INTERGENIC	--	--	--
scaffold845_P2_133191	scaffold845	133191	CAAA/CAA	CCACCAAAACCAACCA ACT	GGCCTAACCTGGAAGC CTAT	59.6	730	INTERGENIC	--	--	--
scaffold845_P2_133709	scaffold845	133709	TCC/TC	TCACGTGGACCTAATC CTCC	TTGTTTCGCCCTTCAAA TTC	60.1	776	DRR	Ca_22417	U	--
scaffold845_P2_134309	scaffold845	134309	GTTATTATT/GTTATT	GAATTTGAAGGGCGAA ACAA	TCATTGGGAGTGCAAG ATGT	59.1	671	DRR	Ca_22417	U	--
scaffold845_P2_134390	scaffold845	134390	ATTTTTTTTT/ATTTTTTTTT	GAATTTGAAGGGCGAA ACAA	TCATTGGGAGTGCAAG ATGT	59.1	671	DRR	Ca_22417	U	--
scaffold845_P2_134750	scaffold845	134750	CAA/CAAAA	CCGTTTGGGCCCTTAG TTAT	TCGTGTCCATTGCTATT TTCA	59.2	546	DRR	Ca_22417	U	--
scaffold845_P2_138607	scaffold845	138607	CAAAAAAAAA/CAAAAAAAAA	CTACCAACGTACCAAC CCT	TTCTGGGTTCTTTGTTT CCG	60.1	828	INTRON	Ca_22417	U	--
scaffold845_P2_141061	scaffold845	141061	TAA/TAAA	CCGGCATAATCTGACAA CCT	GTGCTTTGTGGGATG ATCT	59.9	453	INTRON	Ca_22417	U	--
scaffold845_P2_148293	scaffold845	148293	CCCATCCAT/CCCAT	TGTCATGTTGCTCACT TCAAA	CGGGCAAGGAAGAAAA TGT	60.1	499	INTERGENIC	--	--	--
scaffold845_P2_148995	scaffold845	148995	CAAA/CAA	TCAAACGGTGGTGCA AAAA	TTTGGTCTCTCCATCAA TTTCA	59.5	206	INTERGENIC	--	--	--
scaffold845_P2_151486	scaffold845	151486	A/AATTAC	ACCCGTTATCCACCCCT AAC	TTGCAAAAATCTTCTTT TAATGATGT	59.5	556	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold845_P2_152531	scaffold845	152531	GTACTTAC/GTACTTACTTAC	CACGTGCAAGTAAAG CCAA	TGCTGCACCATAATTC CAAA	60.1	537	INTERGENIC	--	--	--
scaffold845_P2_152896	scaffold845	152896	ATT/ATTTT	GCCAGTCCCCTTTACAA ACA	TGCTGCACCATAATTC CAAA	60.1	515	INTERGENIC	--	--	--
scaffold845_P2_15746	scaffold845	15746	CAAAAAAAAA/CAAAAAAAAA	ACCCTATATCATGCGGA CCA	CTTCTACCAACTTTCGC CCC	61.0	416	INTERGENIC	--	--	--
scaffold845_P2_160196	scaffold845	160196	ACCCC/ACCCCC	CGCTTTACAGGGTTGAT GGT	TTTAAATGAGGGGGT GCAG	59.9	144	INTERGENIC	--	--	--
scaffold845_P2_160215	scaffold845	160215	ACCCCC/ACCCC	CGCTTTACAGGGTTGAT GGT	CCGAAATTTTCATTCAT TCTG	59.4	287	INTERGENIC	--	--	--
scaffold845_P2_170625	scaffold845	170625	ATTT/ATTTT	ATTTGGTGCGCATGATA AGA	AAAAATGAGGTGGGTT AGAAATTA	57.4	777	INTERGENIC	--	--	--
scaffold845_P2_171362	scaffold845	171362	ACA/ACAATGTCA	TCAATCACACCCGTTCA AAT	TGATTGCCGACAATAC CAAG	59.5	159	INTERGENIC	--	--	--
scaffold845_P2_171604	scaffold845	171604	ATTTTTTTTT/ATTTTTTT	TGTCGGCAATCATGCA ATTA	CAACGGGTAAC TTGAA ACAGG	59.5	507	INTERGENIC	--	--	--
scaffold845_P2_172781	scaffold845	172781	TG/T	CATGCTTGCTCATTCTT GGA	TGTGGCACAGTTGGAA AGTG	60.8	593	INTERGENIC	--	--	--
scaffold845_P2_173852	scaffold845	173852	T/TTGTTG	TCCCATGACACAAGGA ACAA	ATGATACCATCACCCG GAAA	60.0	532	INTERGENIC	--	--	--
scaffold845_P2_174410	scaffold845	174410	CA/C	GCATAGATGCAGTGGA AGCA	ATTACCTGCAGGAGCC CTTT	60.1	848	INTERGENIC	--	--	--
scaffold845_P2_194654	scaffold845	194654	GGTGTGATTTCTGT/GGTGTGATTTTC TGTGTGATTTTCTGT	TGAATTTTGAATGCCCA TGA	CATTCGCCACACGTCA ATAC	60.0	318	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold845_P2_19662	scaffold845	19662	AT/A	TTATCGGGAAATTCGAA GGA	TTCTCGGTCAACAACA CCAA	60.1	122	INTERGENIC	--	--	--
scaffold845_P2_19791	scaffold845	19791	ATTTTTTT/ATTTTTTTT	TCGATGTCAACGTTGGT GTT	AAGAAAAATGCCAAGC TAACAAA	59.4	318	INTERGENIC	--	--	--
scaffold845_P2_202667	scaffold845	202667	CATATATATATATATATA/CATATATA TATATATATATATA	CCAAATACACTCCCCAC ACA	CAAATGACGCGGATAT TTCA	59.5	462	INTERGENIC	--	--	--
scaffold845_P2_2172	scaffold845	2172	TTA/TCCTTAGTA	CAACATTTTGGGTGCAT TTG	TGGTTATTTTGCATGTA GCGA	59.2	657	INTERGENIC	--	--	--
scaffold845_P2_228072	scaffold845	228072	GAAAAAAAA/GAAAAAAAA	GAGTAATATGGTCCGG CGAG	TAGTCGGCCACAAGAA GACA	59.4	540	INTERGENIC	--	--	--
scaffold845_P2_229892	scaffold845	229892	CTTTTTTTTT/CTTTTTTTTT	AACATGCGGGTTGTTT CTC	GCATTTGATTCGGTG TCTT	59.9	710	INTERGENIC	--	--	--
scaffold845_P2_23161	scaffold845	23161	CTATT/CTATTATT	TTGTGTACACCTGCAT CCC	CATGAGTACCAATCAT GCCAA	59.4	764	INTERGENIC	--	--	--
scaffold845_P2_23284	scaffold845	23284	GA/GAA	CAAACCTCAAGCTCCATC CCT	CATGAGTACCAATCAT GCCAA	59.4	407	INTERGENIC	--	--	--
scaffold845_P2_23461	scaffold845	23461	AT/ATTTT	CAAACCTCAAGCTCCATC CCT	CATGACCAGGTTAATAT CAAACACA	60.1	537	INTERGENIC	--	--	--
scaffold845_P2_23562	scaffold845	23562	CT/C	TCGATCAACCTAGATTG GCA	TCTGAACACTATCGTAT CATGTTTCTT	59.6	655	INTERGENIC	--	--	--
scaffold845_P2_2505	scaffold845	2505	ATTTTT/ATTTTTT	TCGCTACATGCAAAATA ACCA	TCACGTCACTTTTTCAA ATGG	58.7	388	INTERGENIC	--	--	--
scaffold845_P2_27138	scaffold845	27138	T/TACAAATATAATG	ATCGACCGCGTAAATG AAAC	TGATCCTTTTGGCCTT GAG	60.2	689	DRR	Ca_22410	--	bHLH

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold845_P2_27864	scaffold845	27864	AT/ATT	CTCAAGGCCAAAAAGG ATCA	TGAAATGAAGGCTGGG GTTA	60.4	804	DRR	Ca_22410	--	bHLH
scaffold845_P2_31907	scaffold845	31907	CTATAACAA/C	TGTGGTTTGGTTGGAT GATG	AGAGAATGTGGCCTTC ACAA	58.3	653	INTERGENIC	--	--	--
scaffold845_P2_319656	scaffold845	319656	TAAAAAAAAA/TAAAAAAAAA	GGAAGTCGGAGTTTGC AATG	GGGGAGACGTATGGCC TAAT	60.2	775	INTERGENIC	--	--	--
scaffold845_P2_32097	scaffold845	32097	AC/A	TTATGGGGGAGGAAGT TTGA	CCCACATGTGCAGCAT AAAT	59.4	878	INTERGENIC	--	--	--
scaffold845_P2_326297	scaffold845	326297	TNNNNNNNNNNN/TNNNNNNNNNN	GCGACGGTTGGAATTA TCAC	CAAAAATGTTGCAGTG GGTG	60.0	754	INTERGENIC	--	--	--
scaffold845_P2_331956	scaffold845	331956	TG/TGG	TTGCTTGGAAGGAAAA TCG	GGGGCCAAATAATGTT GCTA	59.8	802	INTERGENIC	--	--	--
scaffold845_P2_3348	scaffold845	3348	TAAAAA/TAAAAA	ACAAATGAATGTGGGT GGGT	TGATCATCTTTTGGA GGTTC	59.0	701	INTERGENIC	--	--	--
scaffold845_P2_336042	scaffold845	336042	TTATATATATATATATATATAT/TTA TATATATATATATATATAT	GACGGTGGGTGAGTGA AAGT	TCATGAAATTTTAGCG GGAA	59.6	427	INTERGENIC	--	--	--
scaffold845_P2_33752	scaffold845	33752	CATCAATCAAAT/CATCAAAT	AAAAACCTATCATGCTG CCC	ACGCCCATTTCTAGTA TGTC	60.0	299	INTERGENIC	--	--	--
scaffold845_P2_3378	scaffold845	3378	TAAA/TAA	ACAAATGAATGTGGGT GGGT	TGATCATCTTTTGGA GGTTC	59.0	701	INTERGENIC	--	--	--
scaffold845_P2_356717	scaffold845	356717	TTTTATTTATTTATTTATTTATTTAT TTATTT/TTTTATTTATTTATTTATTT TATTTATTTATTTATTT	GGAGGGTTAGCTTGGG AGAC	TGCATGCAGGACCAAT TAAA	60.1	532	INTRON	Ca_22428	R	G2-like
scaffold845_P2_357903	scaffold845	357903	GTTTTTTTTTT/GTTTTTTTTTT	TGGAATTCATACCCCC AAA	CCCGCCAATTTTATTT CTA	58.9	304	DRR	Ca_22428	R	G2-like

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold845_P2_37684	scaffold845	37684	ATTT/ATTTT	GCA GTGTTAGGATGAA ACCACA	CCCATGCAAGTTTAAT GGAGA	59.9	484	INTERGENIC	--	--	--
scaffold845_P2_39704	scaffold845	39704	GAAAAA/GAAAAAA	TGAAACGTTGAAATGG CAC	TTGTTATCGCAGGGGA AATC	59.9	251	INTERGENIC	--	--	--
scaffold845_P2_48616	scaffold845	48616	GTTTAATAATTTAATAATTTAAT/GTTTA ATAATTTAAT	AATGTCGCACCAACACA AAA	AAATTCACGTCGCATG TTCT	58.2	410	INTERGENIC	--	--	--
scaffold845_P2_48945	scaffold845	48945	A/AG	TTTCGAACATTGGTTGT GCT	GCAAAAAGGGGAGTGG TGTA	60.0	935	INTERGENIC	--	--	--
scaffold845_P2_52018	scaffold845	52018	GAA/GAAA	GCAAGTGTGCAACAC CTTC	TTCTCCACCGAGTCATT TCC	60.1	296	DRR	Ca_22412	--	--
scaffold845_P2_52346	scaffold845	52346	TAA/TAAA	GGAAATGACTCGGTGG AGAA	GAGCATATCCATATATG ACCCCA	59.9	415	DRR	Ca_22412	--	--
scaffold845_P2_52531	scaffold845	52531	TAAAAAAAAA/TAAAAAAAAA	GGAAATGACTCGGTGG AGAA	AGCTTCTGCTTTGCTT CGG	59.8	868	DRR	Ca_22412	--	--
scaffold845_P2_53124	scaffold845	53124	ACGCC/A	AATCGTTTTCTTTTCC CGA	GTGCAATGTCGTTTGT TTGG	60.0	348	DRR	Ca_22412	--	--
scaffold845_P2_55749	scaffold845	55749	CAAGTT/C	TTTTAAGCCACACCACA CCA	TCGATTCCAAGCGACC TATT	59.7	528	INTERGENIC	--	--	--
scaffold845_P2_60185	scaffold845	60185	TAAAA/TAAAA	GGTGAGGGTGAGAAG TGAA	GGAAAGTTTCGAATGT GGGA	59.9	472	INTERGENIC	--	--	--
scaffold845_P2_61188	scaffold845	61188	CTGTT/CT	TTCGAAAGTTTGCATT TCG	TGGAGAAGACCATATT GCCC	59.9	405	INTERGENIC	--	--	--
scaffold845_P2_61369	scaffold845	61369	CTTTT/CTTTT	AGGTTTGGTGGGTCA GATT	TGGAGAAGACCATATT GCCC	59.9	169	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold845_P2_62252	scaffold845	62252	TA/TAA	AAGTCGCCATTTGGAATCAC	AAATCGGAATTTGGAACTG	59.8	368	INTERGENIC	--	--	--
scaffold845_P2_69832	scaffold845	69832	A/AT	TTGTTTTAGGTTGGGTTC	CCTACGGACTTGCCTGGAT	60.0	511	DRR	Ca_22414	R	--
scaffold845_P2_81876	scaffold845	81876	GAAAAAAAA/GAAAAAAAA	GGTTTTTGGTTGGAATGTGG	AAAAGGGAGGGGCAATCTAA	59.9	382	INTERGENIC	--	--	--
scaffold845_P2_94963	scaffold845	94963	ATTTT/ATTTTTTTT	ACATGGGTCAAGCCCACTTAG	TGACTGATGTTAAGTATGCCCCG	60.0	463	INTERGENIC	--	--	--
scaffold845_P2_95882	scaffold845	95882	GAAAAAAAA/GAAAAAAAA	ATTTGGGGTGTACAGTCGG	GGACATTCTCGGATTTTGGA	59.9	364	INTERGENIC	--	--	--
scaffold847_P2_117106	scaffold847	117106	TCAATCGATTGGGCAATCGATTG/TCAATCGATTG	CCCGTGAGATCCTCTCAACA	CTCGTGTCGTTCTGTGAGAA	60.0	642	INTERGENIC	--	--	--
scaffold847_P2_218039	scaffold847	218039	CC/CCAC	GATCCATGGAATTGTCCACC	GGGTCTTTAGACTTTGGGGC	59.9	491	INTRON	Ca_25694	O	MYB
scaffold847_P2_232158	scaffold847	232158	TTT/TTTCCCTCTTTCTT	TCCAGTCTCATCCGAAATC	AAGAGTCAACGTCAATGGGG	60.0	450	CDS (large-effect mutations)	Ca_25695	--	--
scaffold847_P2_244966	scaffold847	244966	ATT/ATTT	GCCACCCTCAAGATTCAAAC	GGCGTTGGTTTCACTCAAAAT	60.0	808	INTERGENIC	--	--	--
scaffold8479_P2_1020	scaffold8479	1020	ATTTT/ATTT	GGGGCATGTTTGTTAGTTT	CCCTCCCGAACATATCATCA	60.7	815	INTERGENIC	--	--	--
scaffold8479_P2_813	scaffold8479	813	AA/AATTTT	GGGGCATGTTTGTTAGTTT	AAGTAGTCTTTGGGAACGGGC	59.6	662	INTERGENIC	--	--	--
scaffold848_P2_125465	scaffold848	125465	AATATATATATATATATATAT/AATATATATATATATATATATAT	TCACGGTTGTGAGAAATGGA	TTTTTCGTCTTTGGAACCA	60.5	435	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold848_P2_226354	scaffold848	226354	GTCT/GT	TTTTGGCGTAGTGTGCTC	CAGCAAACGTTCTCCGTTTT	60.3	678	INTERGENIC	--	--	--
scaffold848_P2_46215	scaffold848	46215	CTTTTTTTTTT/CTTTTTTTTTT	CGCAGATGCAATTAGCCTT	TTTCCCGACTTGGTCTTTA	59.5	501	INTERGENIC	--	--	--
scaffold848_P2_72755	scaffold848	72755	ATTT/ATT	ACAACATGCACTCGTGGTA	CGTTTGTGCGATATTGAAA	59.7	608	INTERGENIC	--	--	--
scaffold8493_P2_8828	scaffold8493	8828	CAAAAAA/CAAAAAAA	TCCGAACCTTTTATTATGTCAG	GAATGCTAGCTTCGCCCTCG	60.3	646	INTERGENIC	--	--	--
scaffold8493_P2_9496	scaffold8493	9496	A/AT	CGACCATGATTTAACGACCA	GTTTCAAGAGGTGGCCTTG	59.7	360	INTERGENIC	--	--	--
scaffold855_P2_30812	scaffold855	30812	TTATATATATATATATATATA/TTATATATATATATATATATA	AGGCCGTGATGTTTTGAAC	GCATCATATGTGTGGGCAAG	60.0	268	INTERGENIC	--	--	--
scaffold855_P2_31194	scaffold855	31194	ACCC/ACC	CTCGTACGCTTTTGGTGTGA	GTAGGGGGTAGAAAACCCCA	60.0	556	INTERGENIC	--	--	--
scaffold855_P2_31470	scaffold855	31470	TTAATATCC/T	AATTGGATACCCCTTTGGC	GTAGGGGGTAGAAAACCCCA	60.0	384	INTERGENIC	--	--	--
scaffold855_P2_31510	scaffold855	31510	TTAT/TTATATAT	AATTGGATACCCCTTTGGC	GTAGGGGGTAGAAAACCCCA	60.0	384	INTERGENIC	--	--	--
scaffold855_P2_8963	scaffold855	8963	AATATATATATATATATATA/AATATATATATATATATA	TGGACTCACTACGTACGGCA	TTTTCTTCTATCCCCATGTTATTC	58.9	521	INTERGENIC	--	--	--
scaffold8565_P2_6875	scaffold8565	6875	GTTTTTTTT/GTTTTTTTTT	TGACCAAAATCCATCCCTTC	TTTACAGCGCTTGTTCAAA	59.5	517	INTERGENIC	--	--	--
scaffold8586_P2_1834	scaffold8586	1834	ATTTTTTTTTT/ATTTTTTTTTT	TTCCACATTACCACTCGATACG	CGCAATAATATCGTGCCTT	60.0	689	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold869_P2_39714	scaffold869	39714	TTATATATATATATATATATATATATATATATAT	GTAAGATGAAGCGCTTT CGC	GCATTCTCACTGCAAA CTCA	59.1	658	INTERGENIC	--	--	--
scaffold869_P2_6196	scaffold869	6196	TAAATAAAAAA/TAAATA	CACCCATGGCAAAAG AAAT	TTGCTGAACCATTTCC TCC	60.1	389	INTERGENIC	--	--	--
scaffold87_P2_133306	scaffold87	133306	GAAAAAAAA/GAAAAAAAA	TCGTTATCGGGGATTCT CTG	CGACGTAATGAAATG CCCT	60.0	374	INTERGENIC	--	--	--
scaffold87_P2_357465	scaffold87	357465	GATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATA AT/GATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAAT	GGCGCCTTAACTATCA TCG	CCCTCTGAACAGAAA AGCG	60.0	585	INTERGENIC	--	--	--
scaffold87_P2_361359	scaffold87	361359	GAAAAAAAA/GAAAAAAAA	GTTCAGGAACGAGAGA TGGG	AGGACTGAGCCTGGCT TACA	60.0	803	INTERGENIC	--	--	--
scaffold87_P2_418061	scaffold87	418061	TTATATATATATATATATATATATATATAT ATATATATATA	TGTGGAAATTTGTGGG TGAA	CACTAGCATCGTAGCG TGGA	60.0	449	INTERGENIC	--	--	--
scaffold87_P2_468940	scaffold87	468940	TT/TTCGGAT	GAGAATGCGAGCCCAA AATA	TCGGTATTGCCATGA GACA	60.1	533	INTERGENIC	--	--	--
scaffold87_P2_585278	scaffold87	585278	TTTTTTTATTTTT/TTTTTT	TATGCATGCAGGCAAG AGTC	TTGGAAAAGCCACCT ACAC	60.0	570	INTERGENIC	--	--	--
scaffold87_P2_594427	scaffold87	594427	CAGATA/CA	TGACCGATTGGTGACT GAA	TTGGTGATCATGATGC TGGT	59.9	555	INTERGENIC	--	--	--
scaffold87_P2_597245	scaffold87	597245	TAAAAAAAAA/TAAAAAAAAA	TAAGCCAAATACCCCT TCC	TCTCCCCATCCTCTCAT CAC	60.0	573	INTERGENIC	--	--	--
scaffold87_P2_66252	scaffold87	66252	AATATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATAT ATATATATATATATAT	CGATGAAAACAAGGAAA AACA	CGAGAGAACCCGAATT TGAA	60.2	312	INTERGENIC	--	--	--
scaffold87_P2_9531	scaffold87	9531	CATATATATATATA/CATATATATATA TA	TGTACGAGAAGGTCGT GTGC	TATTCAGATCCCTTGCC CAG	60.0	826	INTRON	Ca_23383	--	Trihelix

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold876_P2_458310	scaffold876	458310	A/AG	AATCCGGTAAATCTCG GCT	TCGAAAACGAAGAAAA ACGG	60.2	178	INTERGENIC	--	--	--
scaffold876_P2_5309	scaffold876	5309	T/TA	CCCTTTTGCTTCTTGT GGC	TTCGGTTCTTGTTC TCT	59.9	382	INTERGENIC	--	--	--
scaffold876_P2_540114	scaffold876	540114	TAAAAAAAAA/TAAAAAAAAA	CCAACGCACCCATTAT ACC	GTTAGAGGTCTGCGGT CAGC	60.0	683	INTERGENIC	--	--	--
scaffold876_P2_5429	scaffold876	5429	TTTATTATTATTATTATTATTATT ATT/TTTATTATTATTATTATTATTATT TATTATTATT	AGAGGCAACAAGAAC CGAA	TACGGCATAACAATTG CAGC	59.7	566	INTERGENIC	--	--	--
scaffold876_P2_564339	scaffold876	564339	ATT/AT	GTGCCACTTATCACGG GTCT	TTGTTGTGGATGGAGT CAGTAT	57.0	257	INTERGENIC	--	--	--
scaffold876_P2_607138	scaffold876	607138	AATATATATATATATATATATATAT ATATATATATATATATAT/AAATATAT ATATATATATATATATATATATATA TATATATATATAT	GGCCCTATTGACACA CTTA	ATGCTCTGCACTTGCA GCTA	59.9	564	INTERGENIC	--	--	--
scaffold876_P2_622726	scaffold876	622726	TAA/TAAA	TCAGGAACAACAATCCA ATCC	TTACCCTCAAACCTGG GGTG	59.8	331	INTERGENIC	--	--	--
scaffold876_P2_63698	scaffold876	63698	CAA/CAAA	GCTCGTCGAACTTTTTC AGG	TCATCAGTATCGTGGG TGGA	59.9	602	INTERGENIC	--	--	--
scaffold876_P2_6534	scaffold876	6534	GTATATATATATATATATATATA/G TATATATATATATATATATATATATA	GGTGTGTCTGTGTGT TGCC	CGGCTTGATCAAGG TACA	59.7	355	INTERGENIC	--	--	--
scaffold877_P2_10844	scaffold877	10844	TAAAA/TAAAA	GCAGCAGTTGCAGCAG TTTA	TGATTTAGCGTCGGT TCAG	59.9	601	DRR	Ca_28083	F	--
scaffold877_P2_11190	scaffold877	11190	CCTTTT/C	CTGACACCGACGCTAA ATCA	AGTGCATAAGACCGT TTGC	60.1	210	DRR	Ca_28083	F	--
scaffold88_P2_123039	scaffold88	123039	TA/TAA	GCTCATCCTTCATGGTT GGT	CCCTACGACATCCGCT AAAA	60.1	759	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold88_P2_20403	scaffold88	20403	ATTTTTTTTTTT/ATTTTTTTTTT	AATGGATTGCTCTGTT GGC	TCCTCTATGCTTTGTC CCT	58.7	728	INTERGENIC	--	--	--
scaffold88_P2_63256	scaffold88	63256	TAAAAAAAA/TAAAAAAAA	AAATCCTTTTGGGGTGA AGC	TTTTTGAAACTGCCAG GTG	58.8	655	INTERGENIC	--	--	--
scaffold8803_P2_7444	scaffold8803	7444	ATTTTTTTTT/ATTTTTTTTT	AAGATTAAAGGGTGGT GTTGGA	AGTTTGAACCGTGC GTTT	60.0	249	INTERGENIC	--	--	--
scaffold882_P2_103090	scaffold882	103090	AATATATATATATATATATATATAT/ AATATATATATATATATATATATAT	AAGACAAAAGATGGA GGCG	TGGAAAAGTAATGATAT TGTTGTCG	59.4	584	INTERGENIC	--	--	--
scaffold882_P2_178874	scaffold882	178874	GAAAAAAAAAAAA/GAAAAAAAAAAAA	TTTGCAACCGACAGG TAGT	TTTTCATGCCATGGCTT ATG	59.5	371	INTERGENIC	--	--	--
scaffold882_P2_231327	scaffold882	231327	CATATATATATA/CATATATATATATA	CTCATACATGAGGGTT GGGC	GACCGGAATACTCAGG GACA	59.9	892	INTERGENIC	--	--	--
scaffold882_P2_314543	scaffold882	314543	CTTTTTTTTT/CTTTTTTTTT	TCTGGAATTGCTTTGAC GTG	TGCATTGTCACGTGTT CTTG	59.3	813	INTERGENIC	--	--	--
scaffold882_P2_326048	scaffold882	326048	GTATTATTATTATTATTAT/GTATTATTAT TATTATTATTAT	TTTCGAAGAAAGCGATA ACAA	GAGGAAAAACAAATGG ACAAGC	60.0	757	INTERGENIC	--	--	--
scaffold882_P2_344839	scaffold882	344839	GAAAAAAAA/GAAAAAAAA	TTTGTGTTTGACTGGCT TGG	GACACCCTAAACCCCG AAAT	60.1	416	DRR	Ca_23984	--	Trihelix
scaffold882_P2_436721	scaffold882	436721	GAAAA/GAAA	CGTACCAAAGGGCAAT GAAT	GCTCTGCATCCCATCA AAAT	60.0	323	INTERGENIC	--	--	--
scaffold882_P2_446893	scaffold882	446893	GTTT/GTTTT	TGGTTGTTTTTGTGGT GAA	TCACGGGCAACACAA TTTA	60.0	644	INTERGENIC	--	--	--
scaffold882_P2_499483	scaffold882	499483	TTTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT	ATGTGTTGGTTGTGG CAGA	TCAATCCGGATACCAT CACA	59.7	708	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold886_P2_151576	scaffold886	151576	TAAGCAA/TAA	GACAACATTGGATGCA CGTC	TGGCTTTAGGAGTTTC TTTTGTTT	59.7	767	DRR	Ca_26671	--	--
scaffold886_P2_164957	scaffold886	164957	AGG/AG	GCTAATTGGCGGCACT TCTA	CGAGTTAGTGAATCAT CCCCTC	60.0	614	INTERGENIC	--	--	--
scaffold886_P2_172563	scaffold886	172563	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	AAGCCGACAATTGTTT TTCT	TCATTCTGATTTGGG GGTA	60.1	382	INTERGENIC	--	--	--
scaffold886_P2_52860	scaffold886	52860	AATATATATATATATATATATATAT AT/AAATATATATATATATATATAT ATATAT	CACCGTTTGTCACITTC CAG	TCGGATTCTCGAGCA TTTA	58.5	320	INTERGENIC	--	--	--
scaffold886_P2_75101	scaffold886	75101	TG/T	CAACCCCAATTCTTTGA GGA	CAAGGACTAAATTGAA GCCCA	59.2	349	INTERGENIC	--	--	--
scaffold886_P2_2222	scaffold886	2222	CTAAATTTAAAT/CTAAAT	TCTGATACGCCTCATAG CCC	AGGGCAAAAGTCTCAA AGGA	58.9	519	INTERGENIC	--	--	--
scaffold886_P2_2403	scaffold886	2403	CTAAAT/CTAAATTTAAAT	GCTGTTAAATTCGGG GTGT	AGGGCAAAAGTCTCAA AGGA	58.9	496	INTERGENIC	--	--	--
scaffold887_P2_19931	scaffold887	19931	GTTTT/GTTTTT	TACAAACGGAGAAGTC GGGT	TATGGTTTGGCACCG TTAT	60.1	164	INTERGENIC	--	--	--
scaffold89_P2_221953	scaffold89	221953	GTT/GCGATTTCTTTCTT	CCCTCTGCAATGTCGG TAAT	GGTCAAACTGGGTGG AAGA	59.9	432	INTERGENIC	--	--	--
scaffold89_P2_234540	scaffold89	234540	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	AGCAATACACACACAG GCA	CCGTGGTCTGTTAAAC GTAT	59.7	476	INTERGENIC	--	--	--
scaffold89_P2_23867	scaffold89	23867	ACAT/ACATCAT	CATGGTAGCTCCGCAC ATTT	ATTTCCAAACGATTAT CCG	59.8	712	INTERGENIC	--	--	--
scaffold89_P2_244702	scaffold89	244702	CTTTTTTTTT/CTTTTTTTTT	TGTTGGCATTCTGCAG TAGTTA	TGTTGTGTGCAAGCT TTTT	59.4	697	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold89_P2_246988	scaffold89	246988	CAAAAA/CAAAAA	TCTGGTGTGCCACGACATT	AACAAGGAGGTCTGCATTTCG	60.3	722	INTERGENIC	--	--	--
scaffold89_P2_30029	scaffold89	30029	AATATATATATATATATATA/AATATATATATATATATA	GGATTGAACCTCCTATGCGA	TTCCGAGTTGTTTGAGAGGA	58.4	716	INTERGENIC	--	--	--
scaffold890_P2_1082	scaffold890	1082	AC/A	ATGGATATTCGGGCAATCA	TGGCTGAAATACGCCACATA	60.1	366	INTERGENIC	--	--	--
scaffold890_P2_1120	scaffold890	1120	ATATTATTATTATTCTTATTATTATT/ATATTATTATTATTATTATTCTTATTATTATT	TTCCGGCAAATCATTACACA	TGGCTGAAATACGCCACATA	60.1	359	INTERGENIC	--	--	--
scaffold8913_P2_2269	scaffold8913	2269	TG/T	CAATGGATGGGGTAGGATTG	AGCGACAGTGAACGATGTTG	59.9	366	INTERGENIC	--	--	--
scaffold8913_P2_2342	scaffold8913	2342	ATTTTT/ATTTT	CAATGGATGGGGTAGGATTG	GCAGGAGATTTAGATGAGGG	60.0	878	INTERGENIC	--	--	--
scaffold892_P2_25425	scaffold892	25425	TC/T	GCTACTCAAAGCTGGTTCG	TGCCTTTGTGTGGTGACAT	60.0	526	INTRON	Ca_27454	R	--
scaffold892_P2_26717	scaffold892	26717	ATT/ATTT	TCAAGCTTCTCTCCACACA	AATTAATATCCACGCAACGC	57.7	255	INTERGENIC	--	--	--
scaffold892_P2_29801	scaffold892	29801	CAAAAA/CAAAAA	GAAGCCATGAAACCTTCCA	ATGCAAAACATTTCCACCTC	59.8	392	INTERGENIC	--	--	--
scaffold892_P2_33546	scaffold892	33546	TTTCTT/TTTCTTCTT	TCCCAATTTGGTTTGTGT	TGGAATCTTCACCTGACAA	59.1	713	DRR	Ca_27455	R	--
scaffold892_P2_33776	scaffold892	33776	TC/T	TCAAAAGACACCAATGGAAAA	TGGAATCTTCACCTGACAA	59.1	251	DRR	Ca_27455	R	--
scaffold892_P2_38411	scaffold892	38411	AATATATATATATATAT/AATATATATATATATATATATAT	GTAAATGGCAGGTAGAGGCG	ACCACTAACTCGGTGCAAC	60.0	826	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold892_P2_40574	scaffold892	40574	ATTTTTTT/ATTTTTT	TGATAGGTCTCATGCC CCG	AAGTCACTTGATCATCC CCG	59.9	496	INTERGENIC	--	--	--
scaffold892_P2_42751	scaffold892	42751	TGGGG/TGGGGG	GACGATGAAAAATATGC GGG	TGTTGATTGGCGAACA CAAT	60.0	387	DRR	Ca_27456	--	--
scaffold892_P2_44352	scaffold892	44352	TAAAAAAA/TAAAAAAA	CTGAGTTGCGACGAGA GTTG	TTGGAAGGAGCCCTTA CCTT	60.1	465	INTERGENIC	--	--	--
scaffold892_P2_46189	scaffold892	46189	CTTTTTTTTTTTTTTT/CTTTTTTTTTTTTT T	TGGGACCCTAAGATGG TTGA	TTCCCCAACATATGCAA ACA	59.8	294	INTERGENIC	--	--	--
scaffold892_P2_46258	scaffold892	46258	GT/GTCTATT	TGTTTGCATATGTTGGG GAA	GGTATGAATGATTGTG CAAAGAA	59.0	357	INTERGENIC	--	--	--
scaffold892_P2_46385	scaffold892	46385	TAAAAAAA/TAAAAAAA	TGTTTGCATATGTTGGG GAA	AAGGTCCGATGGAAGG TTTT	59.8	628	INTERGENIC	--	--	--
scaffold892_P2_56842	scaffold892	56842	TAAAAAAA/TAAAAAAA	CCCCCTTTAGTGGA GTTG	TTGGTATAGGCGATTTT GGG	59.8	471	INTERGENIC	--	--	--
scaffold8920_P2_817	scaffold8920	817	A/AAT	CATCAGGGTGCTTGG TCCT	GGTACGAAAATCGCCT GAAA	60.1	699	INTERGENIC	--	--	--
scaffold893_P2_10885	scaffold893	10885	A/AG	GAGATTGTGGCAATT CGAT	CTCTACCCAAGAAGA TCGC	60.0	395	INTERGENIC	--	--	--
scaffold893_P2_6971	scaffold893	6971	CATATATATATATATAT/CATATATAT ATATATAT	CTTTAACATGCGTTTCC GGT	TCAAGTCGACAAGCCT TCCT	60.0	819	DRR	Ca_27923	--	B3
scaffold895_P2_103999	scaffold895	103999	TTTATTATTATTATTATTATTATTATT /TTTATTATTATTATTATTATTATTATT TATT	AGAGGCAACAAGAAC CGAA	GAAGGCTATGTTGAT GGGA	59.9	479	INTERGENIC	--	--	--
scaffold895_P2_108834	scaffold895	108834	T/TC	TGGATCCTTGGATGGA TGAT	TTAGGCCTTGCAATGTT TCC	60.1	665	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold895_P2_111208	scaffold895	111208	TG/T	CATGCACGTGATTAA ATTGC	TCCCTTCTCCTCTCG TCA	59.9	458	INTERGENIC	--	--	--
scaffold895_P2_120837	scaffold895	120837	ATTTTTTTTT/ATTTTTTTT	AAGGATTGAAAGCAC ATTGA	GGCAAAATCATTGAC CTTGA	59.9	756	DRR	Ca_24254	--	--
scaffold896_P2_47144	scaffold896	47144	TAAA/TAAAA	AGGGAGGACGAAAAT ACCT	TGTGCATCAAATAGC GTGT	60.1	259	INTERGENIC	--	--	--
scaffold898_P2_27647	scaffold898	27647	TA/T	TGTAATTGTATTCAAT GCAAAGA	CGTTATTAAGTACAAC ATAAACGAA	57.3	469	INTERGENIC	--	--	--
scaffold9_P2_34748	scaffold9	34748	CACAACAA/CACAA	GGACAACTACCCCTC CTTTTC	TCTTCCCCCATAACCA ACA	60.2	317	INTRON	Ca_27384	--	WOX
scaffold9_P2_46290	scaffold9	46290	TA/T	CGGAGTTTGTTCAG TTGA	TTTGCAAACTTGATG GGAT	60.3	193	INTRON	Ca_27384	--	WOX
scaffold900_P2_12737	scaffold900	12737	GCAC/GCACTAGTACAC	CCATTTTGTCTCTG CAT	AAGGCCAATGCCACAT AAAG	60.0	604	INTERGENIC	--	--	--
scaffold901_P2_229595	scaffold901	229595	TTATATATATATATA/TTATATATATATATATA	CCATTTGAGCCGTTGAT TTT	ACCTTGCTCCCTTACC CACT	60.0	703	INTERGENIC	--	--	--
scaffold901_P2_23860	scaffold901	23860	TTT/TTTATT	TCAAGCCACATAATTG TCC	CGTGAGGCTGTTGGGA TATT	60.0	591	INTERGENIC	--	--	--
scaffold901_P2_98644	scaffold901	98644	AT/ATGTTCT	TCTCACGGTTGTGAG ACTG	ACAAGGCTAACAGCT GGAA	59.9	499	INTERGENIC	--	--	--
scaffold9059_P2_539	scaffold9059	539	ATT/ATTT	TTAGGGCTCATACGAT CGG	GGAAAATTAGCCACGG ATCA	59.9	443	INTERGENIC	--	--	--
scaffold909_P2_21317	scaffold909	21317	T/TA	CCCACAAAAATAGACC GAA	TGCTTGATTGCTTGAG ATCC	59.0	429	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold909_P2_6733	scaffold909	6733	AATATA/AATA	TTTCATCTGAACCTTTC GGG	TAGGGTGGTACGAAA TCGC	60.0	365	INTERGENIC	--	--	--
scaffold9125_P2_1084	scaffold9125	1084	CTTTTTTTTT/CTTTTTTTTTTTTT	CACAAGAAGACAAAGG GGGA	GCCGCGACCATTAA CTAA	60.1	491	INTERGENIC	--	--	--
scaffold913_P2_123805	scaffold913	123805	TTGT/TT	ACGTGCGTGACTTAT GAGA	TGAGAACTTTCCGCT GCT	60.1	507	INTERGENIC	--	--	--
scaffold913_P2_140774	scaffold913	140774	CAT/CATAT	TTGAGTTATGGCTAATG AAGGTCA	AGCGAGCCGCTCAATT AGTA	60.1	269	INTERGENIC	--	--	--
scaffold913_P2_161492	scaffold913	161492	GTCTATCTAT/GTCTAT	ATGTGAAACGATGGTC GAAA	ATAAGCCAAGGGCCAA CTCT	60.1	464	DRR	Ca_23205	--	HD-ZIP
scaffold913_P2_202309	scaffold913	202309	CAAAAATTCAAAAAAAAAAAATTCAA/CA AAAATTCAA	TTTTCCCGATATGGTCA TTTG	AAATGAATGGGCACGA AAAG	59.9	475	INTERGENIC	--	--	--
scaffold913_P2_251734	scaffold913	251734	ATTTT/ATTTTTT	AGCGTGAAAGGCAAGT GAGT	CCCATGCAAGGTATGC TTTT	60.0	441	INTERGENIC	--	--	--
scaffold913_P2_251896	scaffold913	251896	C/CA	AGCGTGAAAGGCAAGT GAGT	CCCATGCAAGGTATGC TTTT	60.0	441	INTERGENIC	--	--	--
scaffold913_P2_252010	scaffold913	252010	AGTGTG/AGTG	CCAAAAGTAGCGTGAA AGGC	ATGGGATTGACTTGCT CTGG	60.1	947	INTERGENIC	--	--	--
scaffold913_P2_252195	scaffold913	252195	T/TG	ATGCGTCCCAAGATTCT GTT	ATGGGATTGACTTGCT CTGG	60.1	668	INTERGENIC	--	--	--
scaffold913_P2_252276	scaffold913	252276	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	CATGGGCAGAGCTATG TTGA	ATGTGCAAGAAGAGG GGTG	60.1	755	INTERGENIC	--	--	--
scaffold913_P2_282492	scaffold913	282492	ATTTT/ATT	TTGGATTTCATACCCAC ACATC	AAAATCCGTTGGAATT TTGG	60.0	466	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold913_P2_412532	scaffold913	412532	T/TG	TATGCTGACCACTACC GCAA	GGTCCATGGAGCAAAC CTAA	59.9	905	INTERGENIC	--	--	--
scaffold913_P2_4177	scaffold913	4177	TTAT/TT	TCAATCAAATGCATCCC TTG	TTGTGCACTTTGAGAC CGAC	59.9	230	INTERGENIC	--	--	--
scaffold914_P2_118122	scaffold914	118122	CATATATATATATATA/CATATATATATA TATATA	TGCAAAATTGAACCAAC AAA	TGCCCTAGACACCAG TACC	60.0	591	INTERGENIC	--	--	--
scaffold914_P2_123326	scaffold914	123326	TTTTGTCAATTGTAGT/TT	TCTCTCAGGTCGATTCC CTC	ATTTGTCAAACGATCC GACC	59.8	591	INTERGENIC	--	--	--
scaffold916_P2_10023	scaffold916	10023	ACC/ACCC	AGGATTGAATGTGGTG GGAA	GCAGAAAAATAAGGGC GATG	59.7	354	INTERGENIC	--	--	--
scaffold916_P2_10051	scaffold916	10051	CCCT/C	AGGATTGAATGTGGTG GGAA	TAAACAATTTGGGGGT CCTG	59.7	443	INTERGENIC	--	--	--
scaffold916_P2_10102	scaffold916	10102	CTTTT/CTTT	CATGATAGACCATCGC CCTT	TAAACAATTTGGGGGT CCTG	59.7	119	INTERGENIC	--	--	--
scaffold916_P2_101426	scaffold916	101426	TCGTG/T	CTTCAGAGTTCTCGGG ACGA	TGCACTTGCTTTTGT CCA	60.4	254	INTERGENIC	--	--	--
scaffold916_P2_111093	scaffold916	111093	TAAAAAA/TAAAAAA	CATCAACATCAACCGT TGC	TACATGGCGATGTGCA TTTT	60.0	363	INTERGENIC	--	--	--
scaffold916_P2_117897	scaffold916	117897	AT/ATT	AATCCAAACCATGTATC GCC	CACAATTGCCACCAAC ACTC	60.0	453	DRR	Ca_21038	R	ERF
scaffold916_P2_124399	scaffold916	124399	TTAATAATAATAATAATAATAATAAT AATAATAA/TTAATAATAATAATAATAAT AATAATAATAATAATAATAATAA	TGAGCAAGATGTGTTT GTGG	TGGGTAGCAGTAATAA TGGCA	58.2	338	INTERGENIC	--	--	--
scaffold916_P2_134889	scaffold916	134889	TT/TTAT	AAATGGGTCTCGGTTT TGC	TTGTTTTGTGAGTTTGA ATGATGTT	59.8	770	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold916_P2_8185	scaffold916	8185	TT/TTCGATTAAT	ACACCAACTATGCACCA CCA	ATAGGCCCAATTAAC CCAC	59.9	376	INTERGENIC	--	--	--
scaffold916_P2_8308	scaffold916	8308	ATT/AT	ACACCAACTATGCACCA CCA	ATAGGCCCAATTAAC CCAC	59.9	376	INTERGENIC	--	--	--
scaffold916_P2_9278	scaffold916	9278	CTTT/CTTTT	TCACATAGGGATTGCC AACA	TCCCACCACATTCAATC CTT	60.2	769	INTERGENIC	--	--	--
scaffold916_P2_9496	scaffold916	9496	TACTA/T	CCCATATGGTTTGGGA ATCA	TCCCACCACATTCAATC CTT	60.2	257	INTERGENIC	--	--	--
scaffold916_P2_9949	scaffold916	9949	AAG/A	AGGATTGAATGTGGTG GGAA	GCAGAAAAATAAGGGC GATG	59.7	354	INTERGENIC	--	--	--
scaffold918_P2_49291	scaffold918	49291	CAAA/CAAAA	TAGCGAGGACGAAAT GACC	CGTCCTCCCTGGGTTT ATTC	60.7	820	INTERGENIC	--	--	--
scaffold919_P2_183431	scaffold919	183431	ATGTTGTT/ATGTT	TGGCAAATACCGATTCA CAA	TGCTTCCATCCTTTATT GGC	60.0	559	INTERGENIC	--	--	--
scaffold919_P2_205331	scaffold919	205331	GAAAAAAAAA/GAAAAAAAAA	CCATCAATGCCACATCT GAA	ATGATTATCCAGGAC TCGC	60.0	662	INTERGENIC	--	--	--
scaffold919_P2_218366	scaffold919	218366	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATATA TATATATATATA	CCAAGTTCAAAATGCCG ATT	CATTTGCATCAAGCGA AGAA	60.0	570	DRR	Ca_22835	--	--
scaffold919_P2_355745	scaffold919	355745	AAATATTAATATTAATATTAAT/AAATATT AATATTAATATTAATTAAT	TTTTCCAATCCTTTGTT CCG	GAGGTTTGGTGGTGGC TAGA	60.1	721	INTERGENIC	--	--	--
scaffold919_P2_424649	scaffold919	424649	AATATATATATATATATATATATATAT ATATATATATATATATATA/AATATATA TATATATATATATATATATATATATAT ATATATATATATATATA	CCATATGCGTTGGATT TCC	CAAGCAACAGGGAGAG GAAG	60.0	627	INTERGENIC	--	--	--
scaffold919_P2_431669	scaffold919	431669	AATATATATATATATA/AATATATATAT ATATATATA	TTTGGGCTGACTATAGT GTGATAA	CTTGCATGCATATTGA GAACA	58.8	567	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ nanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold919_P2_515955	scaffold919	515955	TATAATAATAATAATAATAATAATA TAATAATAATAATAA/TATAATAATAA ATAATAATAATAATAATAATAA	CACCACGTGACACTTCA TCC	CGGCCCAATAGAGTCC TATG	59.5	659	INTERGENIC	--	--	--
scaffold919_P2_55964	scaffold919	55964	TTC/TTCTC	GCAATCTCCTCAACTCG GTC	CTGCCAGTCGATTGTC AAAA	59.8	303	INTERGENIC	--	--	--
scaffold919_P2_611231	scaffold919	611231	TTATATATATATATATATATATATA TATATATATATAT/TTATATATATATAT ATATATATATATATAT	TCGTTGAGCTCGAAAA CCTT	TGCACGGCAATTACAA CAAT	60.0	193	INTERGENIC	--	--	--
scaffold919_P2_616999	scaffold919	616999	CTT/CT	GCCTGTGATAGGCGGT ACAT	CCAAAACGATTTTGCCA GTT	60.0	776	INTERGENIC	--	--	--
scaffold919_P2_635178	scaffold919	635178	ACT/ACTTACCT	GGAGTTGTCACCCCGT CTAA	CAACTAATCGTTGTCTG CCG	59.3	526	INTERGENIC	--	--	--
scaffold919_P2_73303	scaffold919	73303	GCTTCTTCTTCTTC/GCTTCTTCTTCT TTC	CACCTCGCTTAGAAAA ACG	TTTGAGACCAATGGT GACA	59.9	878	INTERGENIC	--	--	--
scaffold919_P2_83832	scaffold919	83832	AAAAAAAAATAAAAA/AAAAAAAAATAA AAAAATAAAAAA	GTTTGAAGTTGTCCGC GTCT	GACACTGCGCCCTA TAAA	60.1	479	INTERGENIC	--	--	--
scaffold919_P2_84436	scaffold919	84436	T/TTCAGAATTCGAAC	TTTATAGGGGCGCAAG TGTC	CTTGCTCTCCAGTTCC CAAG	60.0	568	INTERGENIC	--	--	--
scaffold92_P2_34238	scaffold92	34238	TC/TCTCC	CGGTCCATTATTATCGG GTG	GGTCCTCGATTTCATCT GGA	60.0	546	INTERGENIC	--	--	--
scaffold92_P2_45246	scaffold92	45246	ATATTATTATTATTATT/ATATTATTA TTATTATTATTATTATT	TGCAATAAAACCAAT ACGAAGA	TGTTTGAAGTGCATAAC GAAGA	57.0	438	INTERGENIC	--	--	--
scaffold9216_P2_661	scaffold9216	661	GGT/GGTGTGTTTCAGT	TGTGCGTCCAATAGT GTGT	AGCCTAGGGGATGAA AATG	60.3	148	INTERGENIC	--	--	--
scaffold922_P2_16211	scaffold922	16211	GTATATATATATATATATAT/GTATAT ATATATATATATAT	GCTTTAGCAAGCGATTA CGG	GGTAAGGGGTGAGAG GGTGT	60.2	724	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold922_P2_47157	scaffold922	47157	ATTGTT/ATT	AGAGGAGGTGATGGT ATGG	TTTGGTAATTGTTGGT TTTATTCAA	59.9	357	INTERGENIC	--	--	--
scaffold924_P2_123156	scaffold924	123156	CAAA/CAA	TCACTTATGCAAAAAGG GGG	GTGCCAGTCGATTGCC TAAT	60.1	297	INTERGENIC	--	--	--
scaffold924_P2_202228	scaffold924	202228	TTATATATATATATAT/TTATATATATATA T	AGGAAGAGTGGAGTTG CGAA	CAGGTTTGATGCAACC ATTG	60.0	689	INTERGENIC	--	--	--
scaffold924_P2_222190	scaffold924	222190	CCT/CCTACCTTTCTCT	GCTTTTAGCACTTGCAC ACG	TTGTGTTTGGTGTGTTG CGAT	60.0	742	INTERGENIC	--	--	--
scaffold924_P2_230213	scaffold924	230213	CTATATATATATATATAT/CTATATATA TATATATATATAT	TAAGTCCGTAAGTGGT GCC	ATTCGAATCGGACATC GTTT	59.4	541	INTERGENIC	--	--	--
scaffold924_P2_250687	scaffold924	250687	ATTTT/ATTTT	TGAAAAACGCTGCATCT CAG	GGAAAGGAATTGGTGG GAAT	60.0	525	INTERGENIC	--	--	--
scaffold924_P2_265937	scaffold924	265937	AT/ATT	AGGGAGTGAATCAACA ACGG	GGGGCTGAGTAAATGT GGTG	60.4	639	INTERGENIC	--	--	--
scaffold924_P2_74132	scaffold924	74132	TT/TTCCAT	ACCGTTGCAAAACACTT TCC	TTTTAAACCGCCAAGT CGT	59.6	814	INTERGENIC	--	--	--
scaffold9240_P2_617	scaffold9240	617	ATTTT/ATTTT	TTTAGGTCATTTTCGTC GCC	CCTTTTGACGCACAA GATT	60.1	476	INTERGENIC	--	--	--
scaffold9247_P2_528	scaffold9247	528	GATATATATATATATATATATAT/GAT ATATATATATATATATAT	CAACCATTGAGCCTTG GTTT	CGTTTGCAATATCTG CTCA	58.9	562	INTERGENIC	--	--	--
scaffold9267_P2_20082	scaffold9267	20082	CA/CAAA	TCATAAAATCACCTAT ATAACGGAAA	ACTTTTCGGCCGATTTT CTT	60.1	380	INTERGENIC	--	--	--
scaffold9281_P2_4465	scaffold9281	4465	CAAAA/CAAAAA	TGATCAAAGCAACAAAG CTCA	ATGTGCAGTCTGAGCT ACCG	59.1	316	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold929_P2_10594	scaffold929	10594	ATTTTT/ATTTTT	TCCTGGCTCTCGATTG ATC	GCGTTTCGAGTTTCGG ATTA	60.2	659	INTERGENIC	--	--	--
scaffold929_P2_17042	scaffold929	17042	TA/TAA	GCAGGAGCAACACAG ATGA	AGGCTTAATTGCACTT TGG	57.1	444	INTERGENIC	--	--	--
scaffold929_P2_20949	scaffold929	20949	AA/AAACA	GATGAAATCGAGGACC AGGA	GATGAAATCGAGGACC AGGA	60.0	133	INTERGENIC	--	--	--
scaffold93_P2_116733	scaffold93	116733	CATATATATATATAT/CATATATATAT ATATATAT	AGGAAGAGTGGAGTTG CGAA	TTATGATTTTGGCTCG GAGG	60.0	505	INTERGENIC	--	--	--
scaffold93_P2_141155	scaffold93	141155	CAA/CAAA	TCGATTGGCTTAAACC AGG	AGAATTACGAGCAGC GGAA	60.0	617	INTERGENIC	--	--	--
scaffold93_P2_226784	scaffold93	226784	GNNNNNNNNN/GNNN	GCCTTGAGATACACCTT CAACA	CAAATTTGCTACTGCCT TGC	59.3	426	INTERGENIC	--	--	--
scaffold93_P2_303537	scaffold93	303537	ATAT/A	CCAGTAAATCTTCGCT CGC	AAATCACTCGGATTG CCG	59.9	557	INTERGENIC	--	--	--
scaffold93_P2_338023	scaffold93	338023	TCCCC/TCCC	AAACTTGCAAGCCATC CAG	TTTGAGAAATATGCTG GGGC	60.0	876	INTRON	Ca_23073	L	GRAS
scaffold93_P2_338093	scaffold93	338093	CTTT/CT	GTGAGAGCCCCACAG TCTA	ATGGTGGGAAGTTAC TCCC	60.1	806	INTRON	Ca_23073	L	GRAS
scaffold93_P2_401190	scaffold93	401190	AATTATTATTATTATTATTATTATTA TTATTATTATT/AATTATTATTATTATTAT TATTATTATTATTATTATT	GCACCTAAAAGGCAT GAAA	GGCGTTACCTCTTGC ATCG	60.7	627	INTERGENIC	--	--	--
scaffold93_P2_521162	scaffold93	521162	ATT/A	AAGAATTTGTCAGGGAA GGG	CATCGAATTTGGAATCT CCTG	59.5	459	INTERGENIC	--	--	--
scaffold93_P2_562448	scaffold93	562448	TA/TAA	TATAGCCACGGCAAAAA TCC	CCGAAACACAAACCA GACT	60.0	514	DRR	Ca_23082	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold93_P2_573293	scaffold93	573293	AATAT/AAT	AATTTAGCCCGATTTCCT	CCTAAACGGGCTAGAGGTCC	60.1	711	INTRON	Ca_23083	--	--
scaffold93_P2_584392	scaffold93	584392	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT	TGCCCAGCTTCAGTTTCTT	CCACTTGTGTCCTAACAACTCA	57.8	612	INTERGENIC	--	--	--
scaffold93_P2_589346	scaffold93	589346	TAAAAAAAAA/TAAAAAAAAA	TCTCATCTTCAGGACCACTCC	TGATTTTCCCAATGCACTG	59.5	597	INTERGENIC	--	--	--
scaffold93_P2_6623	scaffold93	6623	TAAA/TAAAGGAAAA	GGATCGTAATCCGTGGGTAA	GAGAGAGCGATCATCAAGGC	60.1	415	INTERGENIC	--	--	--
scaffold93_P2_81962	scaffold93	81962	TAAAAAAAAA/TAAAAAAAAA	TGCCACATGTTGGTCAATC	GGCGATGTGAATTGTTGTA	59.5	627	INTERGENIC	--	--	--
scaffold93_P2_96883	scaffold93	96883	GGAAAAACAAAGGAAAGAAAA/GGAA AACAAAGGAAAGAAAAACAAAGGAAAG AAAAA	AGCTTACCATCCACAAACGG	TTGGTCCCTAGCACCATAG	59.9	723	INTERGENIC	--	--	--
scaffold9303_P2_1186	scaffold9303	1186	CT/CTT	AAGACCACATCATTGTGTCACC	TGTTTGTTCGCGTCTTAATTTT	58.9	439	INTERGENIC	--	--	--
scaffold9303_P2_1378	scaffold9303	1378	TAAAAA/TAAAAA	AAGACCACATCATTGTGTCACC	CAATGGAGGTTTCTTGTGGA	60.0	713	INTERGENIC	--	--	--
scaffold931_P2_100445	scaffold931	100445	AATA/AATATA	CCCTTCAAGTCCAAGTCCA	CATATTGAAGGGGGCTCAAA	59.9	574	INTERGENIC	--	--	--
scaffold931_P2_100930	scaffold931	100930	A/AC	TTTGAGCCCCCTTCAATATG	GATTCTCCTGGGGATGGAT	60.1	616	INTERGENIC	--	--	--
scaffold931_P2_115727	scaffold931	115727	TTTCTTCTTCTTCT/TTTCTTCTTCT TCT	AGTCCTGACAGCCTGGAGAA	GGGAAGGAAATTGCACCTGA	60.1	440	INTERGENIC	--	--	--
scaffold931_P2_116282	scaffold931	116282	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT	TCAGTTGCAATTCCTTCCC	TAAAACCGATTGGGAGTCG	59.9	519	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold949_P2_26559	scaffold949	26559	GTT/GT	AGGTCATTTTCGTCCCT CCT	TCCAATGACACCAACA CACC	60.3	692	INTERGENIC	--	--	--
scaffold949_P2_3822	scaffold949	3822	CAAAAA/CAAAAAA	AAGAGGGGCGTGAAC TTTT	GCTTCCATACCTGTTTT GGG	59.4	646	CDS (FRAME SHIFT)	Ca_25481	--	--
scaffold949_P2_56654	scaffold949	56654	AAATCGATTGA/AAATCGATTGAGTAAT CGATTGA	CTCGCGCTATTAATAAT CGG	TTGCCTAATCGATTCT GGG	60.0	459	INTERGENIC	--	--	--
scaffold953_P2_11624	scaffold953	11624	TG/TTAG	TGTTTGGATTGGGGC TAAG	TTTTTGTGACTCCAAC CCT	59.6	904	INTERGENIC	--	--	--
scaffold953_P2_117005	scaffold953	117005	C/CT	CTACTCCAGAGCGGAT TTGC	AAGTTACGTCAGGTTT GGCG	60.2	752	INTERGENIC	--	--	--
scaffold953_P2_11955	scaffold953	11955	CTTATTTTATTTTATTTT/CTTATTTTATT TTATTTTATTTT	CATGAGGGGTTTATCG GAAA	CACGTTTTCCACGCC AGTT	60.2	734	INTERGENIC	--	--	--
scaffold953_P2_135204	scaffold953	135204	CAGAAGAAG/CAGAAG	TTGCAAAATACATCCCC AAT	TGGCGTCATGTCAAGA GAAG	60.0	403	INTRON	Ca_26911	--	MYB
scaffold953_P2_141960	scaffold953	141960	GATATATATAT/GATATATATATATATAT	TCGTTTTGCCATGTGTG TTT	GCGTGGGAAAAGGGAA CTTA	61.3	594	INTERGENIC	--	--	--
scaffold953_P2_142447	scaffold953	142447	ATTTTTTT/ATTTTTT	GCACGTGCACAGAAA AATA	GCCTCCGAGTTCAATA CCAA	60.1	505	INTERGENIC	--	--	--
scaffold953_P2_158777	scaffold953	158777	GAAAAAAA/GAAAAAAA	TTCCGACCAGAACACA ACA	CACGTTTTTCAGGGTT CATACA	59.9	595	INTERGENIC	--	--	--
scaffold953_P2_17853	scaffold953	17853	T/TG	AAGGATAGGTACGGGT TGGG	AAATTGAAATACATGCG CCC	59.8	381	INTERGENIC	--	--	--
scaffold953_P2_37096	scaffold953	37096	TAAA/TAA	TGCAAGAACCGCTCCT CTAT	GCGTGTGGATGCAAAA TATG	60.0	305	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold953_P2_39457	scaffold953	39457	CTTTTTTTT/CTTTTTTTT	CATGTTGTGACAATTG GTGG	CGTGAGTTGGTGTGA TTCG	60.2	812	INTERGENIC	--	--	--
scaffold953_P2_44175	scaffold953	44175	ATTTTTTTT/ATTTTTTTT	GCATGCATGTTGAGGT CATT	TGGATGGGGTAGATGT GTGTT	60.1	494	INTERGENIC	--	--	--
scaffold953_P2_44845	scaffold953	44845	CTTTTTT/CTTTTTTTT	CAGGGGGAGACTACAA CTGC	GGCGGATCTTGACATG TTTT	59.9	272	INTERGENIC	--	--	--
scaffold953_P2_45249	scaffold953	45249	ATTTTTTTTTT/ATTTTTTTTTT	AAAACATGTCAAGATCC GCC	TGTATGTGCGAAGCCA AAAA	60.3	255	INTERGENIC	--	--	--
scaffold953_P2_55243	scaffold953	55243	AAA/AAATAAAATAA	CGAGAAAACGACCCGT ATGT	CCGCACTGGAAATGTT CTTT	60.1	842	INTERGENIC	--	--	--
scaffold953_P2_63323	scaffold953	63323	CAA/CA	CCAGCATAGGAAGGGA TGAA	TGGTGTTTTAACTGGT TGTTGA	59.5	816	INTERGENIC	--	--	--
scaffold953_P2_69667	scaffold953	69667	GA/GATA	TGGATAAGGTTTCCAC GAG	TCGTTGAGAGCGTGT TGTC	60.0	650	INTERGENIC	--	--	--
scaffold953_P2_69822	scaffold953	69822	TTTGT/TTTGTCGAAAAATATATTGT	TGGATAAGGTTTCCAC GAG	TCGTTGAGAGCGTGT TGTC	60.0	650	INTERGENIC	--	--	--
scaffold953_P2_73770	scaffold953	73770	ATT/AT	TCGGGGTATTTAATTGG CAG	ACCACATGCAAATTGTT CCA	59.8	353	DRR	Ca_26910	--	--
scaffold953_P2_75360	scaffold953	75360	GAAAAAAAAA/GAAAAAAAAA	TCAATGGGATTCTTCT ATGC	CACCCTCGCTTAGAAA AACG	59.9	762	INTERGENIC	--	--	--
scaffold953_P2_81848	scaffold953	81848	GTATATA/GTATATATA	CGAAAAATTTAATACCG GGC	TTGGAAGGAGCCCTTA CCTT	60.1	561	INTERGENIC	--	--	--
scaffold953_P2_87230	scaffold953	87230	ATTTTTTTTTT/ATTTTTTTTTT	CTCCCGAACTGTAACC CAAA	GAGTTGCAAGATGCAG GTGA	60.0	598	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold964_P2_79837	scaffold964	79837	TATTAATAA/TATTAATAATAAATAATAA	TTGAAGGTGCAATGCC TTTA	GCATGAACAGCAACGT CAAC	60.3	469	INTERGENIC	--	--	--
scaffold973_P2_24720	scaffold973	24720	A/AC	TTATAATCCCCGGTC CTC	ATAACCCGAACCTCAA CCC	60.1	547	INTERGENIC	--	--	--
scaffold9740_P2_598	scaffold9740	598	TTATGATCTATGATCT/TTATGATCT	GGAGACACCTGTGGAG GGTA	TTTCCAGTCGTTTGG TTTC	59.9	704	INTERGENIC	--	--	--
scaffold9757_P2_838	scaffold9757	838	TAAAA/TAAAAA	TGTTAATCCAACGGCAC AAA	TCCCTGGCTTATTGTT GTC	59.9	279	INTERGENIC	--	--	--
scaffold977_P2_6872	scaffold977	6872	GTGATGATG/GTGATGATGATGATG	CGTATTTCCCAACGATC CAT	ACGAGGTCTACCAAC CAAC	59.9	637	INTERGENIC	--	--	--
scaffold98_P2_10275	scaffold98	10275	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT AT	CCAACCACAACAAAT CCC	AAAACATTTTCCGTGC AGC	60.1	868	INTERGENIC	--	--	--
scaffold98_P2_109853	scaffold98	109853	CTATATATATATATAT/CTATATATAT ATATATATATATATA	TTTTGCCITCCGTAAC ACC	GTCGAAAGTCAAATGC GTGA	59.8	385	INTERGENIC	--	--	--
scaffold98_P2_16267	scaffold98	16267	ATTTTTTTTT/ATTTTTTTTTT	TGAATCGTGAAGTTGTT GGG	CCCTCAGATTCTATGAA GCCA	59.3	474	INTERGENIC	--	--	--
scaffold98_P2_163725	scaffold98	163725	ATTTT/ATTTT	GGCAACAACCTTTTCAC CCA	TGACAAACATTCGAA CCA	59.9	420	INTERGENIC	--	--	--
scaffold98_P2_168374	scaffold98	168374	CAAAAAAAAA/CAAAAAAAAAA	CGTCAAAAGAGGATTG ATACCAC	CGTCTTGTATGCCATT GTTG	59.1	436	INTERGENIC	--	--	--
scaffold98_P2_241916	scaffold98	241916	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	ATTTGGGTTTAAGGG TTGG	AACAAACAAGAAAAG CAAGGC	59.8	663	INTERGENIC	--	--	--
scaffold98_P2_335902	scaffold98	335902	TTTCCTT/TTTCCTTATTTCTT	CGCGTTAACAGAGGAA GAGG	TATTTTGGATTTTGGCT CGG	59.9	373	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold98_P2_361226	scaffold98	361226	TTCACACTCTTTCAGG	TGGGGTTGCATACTCT CCAT	TATTGCGAAAAGGGT CAAG	60.1	573	INTERGENIC	--	--	--
scaffold98_P2_379604	scaffold98	379604	AAGTTTT/AA	TTGCGATGGTAAGAG GGTT	ATTCTTGAGCCGATC AATG	60.0	349	DRR	Ca_21386	OE	WRKY
scaffold98_P2_419751	scaffold98	419751	TTTTATTTATTTA/TTTTATTTATTT ATTTATTTATTTA	GTGAAATCGTCCCTGA GGA	TCGTCAAGTGGGATAA CTCC	59.9	873	INTERGENIC	--	--	--
scaffold98_P2_432437	scaffold98	432437	AATATATATATATATATATAT/AAATATA TATATATATATAT	AAATGACGATGAACCG GAAG	TTGATAACATGAAAATG AAATGAAA	57.7	488	INTERGENIC	--	--	--
scaffold98_P2_452366	scaffold98	452366	GAAA/GAAAA	TGGTGCTCATAGTGCT CTGG	AATTGCACCTCCGGTT TTTA	59.5	257	INTERGENIC	--	--	--
scaffold98_P2_462843	scaffold98	462843	AATATATATATATATATATATATATAT AT/AAATATATATATATATATATATAT	AAAGTATTGCATTAATT GGATACACG	AACGGGGTGTACACA TGCT	60.3	506	INTERGENIC	--	--	--
scaffold98_P2_474976	scaffold98	474976	TAA/TA	GAGGAAGGGATTTTGG TGGT	GCAAAACCCACGTAAG TGCT	60.2	400	INTERGENIC	--	--	--
scaffold98_P2_491759	scaffold98	491759	ATTTTTTTTT/ATTTTTTTTTT	CCAGTGCGATTGAGAA ATCA	CAACATCAGCAGCGAC ACTT	60.1	738	INTERGENIC	--	--	--
scaffold98_P2_5023	scaffold98	5023	CTTTTTTTTT/CTTTTTTTTTT	TGGCACTCACTGTTTG CTT	TCCAACATTGTCCAG TTGA	59.9	563	INTERGENIC	--	--	--
scaffold98_P2_524286	scaffold98	524286	GT/GTTAGTTATTT	ATGTGACGCCAGTGAC AGAG	AAAATCCACCTACGGA ACCC	60.1	752	DRR	Ca_21396	--	--
scaffold98_P2_632610	scaffold98	632610	CAT/CATATGAT	TCAGCTGAATTGAAAGA TGCC	GTGTGCATGATTGCTT GCTT	59.9	432	INTERGENIC	--	--	--
scaffold981_P2_10301	scaffold981	10301	GA/GAAA	ACCCGAAACCTAAAACC CTT	GGTTTAGGCGTTAGGG TTGA	59.1	300	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold981_P2_10911	scaffold981	10911	CGAAACCTGAAACCTGAAACCTGAAAC CT/CGAAACCTGAAACCTGAAACCT	AACCCGAGAACCAAAAT CCT	GTTTCGGGTTTACGGT TTCA	59.8	326	INTERGENIC	--	--	--
scaffold981_P2_44219	scaffold981	44219	TAAA/TAA	TAAAACCGAATCCAGAA CGC	TTTGCTTTTCGGGTTTA TGG	59.9	541	INTERGENIC	--	--	--
scaffold981_P2_49507	scaffold981	49507	AT/A	CCGGAACGCTTAATCT GAAA	GGTTTAGGGTTTGGG CTTC	59.8	463	INTERGENIC	--	--	--
scaffold981_P2_79478	scaffold981	79478	TG/T	GTGCTTTGGCAACTGA GACA	TTACACGATTTCCGGAT GATA	60.0	127	INTERGENIC	--	--	--
scaffold981_P2_84130	scaffold981	84130	AT/ATCTTTTCCTT	GATGGAGAAGCACCGG ATTA	CTTGCTAACCCACAAA GCC	59.7	110	INTRON	Ca_27591	U	--
scaffold981_P2_84325	scaffold981	84325	AATATATATATA/AATATATATA	GAAGCAGTCCCATGTG GTTT	TCACCTTTACCAATTCA CCA	59.9	981	INTRON	Ca_27591	U	--
scaffold981_P2_9701	scaffold981	9701	GAAA/GAAATCCTAAA	TCCCAATCACTTAACG CGT	TGGGGTTTAGGGTTTC ACAA	60.2	555	INTERGENIC	--	--	--
scaffold9813_P2_1199	scaffold9813	1199	GAAA/GAAAA	AAAATCGCGCGAAAAG TCTA	TCCTGGTCCTCGATTT CATC	60.0	772	INTERGENIC	--	--	--
scaffold982_P2_1298	scaffold982	1298	CTTTTTTTT/CTTTTTTT	TTGGATGGAGTGCCAC AATA	TTTCCCGACTTGGTCC TTTA	59.5	727	INTERGENIC	--	--	--
scaffold982_P2_14935	scaffold982	14935	CT/CTAACTCTCGTAACAGT	GTCCATAGTCTTGCCG GTGT	GCGATGAGTTGGATGG AAGT	60.1	632	URR	Ca_28025	--	G2-like
scaffold982_P2_1547	scaffold982	1547	GAAAAAAAAA/GAAAAAAAAA	TTGAGAGGAAGATGA AAAACC	GGCTAATATATCCGTG GTCCC	59.5	461	INTERGENIC	--	--	--
scaffold982_P2_874	scaffold982	874	ATT/ATTT	TTGGATGGAGTGCCAC AATA	AACTGGGGTTGAAGA TGAAGA	60.0	164	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold983_P2_88622	scaffold983	88622	A/ATTGTTG	TTGGTCCTACCAGACC AAGG	TCCGACAATTTGTGCA CTTC	59.7	458	INTERGENIC	--	--	--
scaffold984_P2_143777	scaffold984	143777	CTTAATAATGTAATTAATAATGTAAT/CT TAATAATGTAATTAATAATGTAATTAATA ATGTAAT	AGCGATTTTGAACCA CTG	AACAATCTCCCCTTT TGG	60.2	539	INTERGENIC	--	--	--
scaffold984_P2_49007	scaffold984	49007	GT/GTT	TCCAGATGAAATCGAG GACC	ATGCCATCAAGGTCTC TTGG	60.1	690	INTERGENIC	--	--	--
scaffold9887_P2_1490	scaffold9887	1490	CT/C	CAATCGATTCCCTCAGC ACT	GGGGGAGATTGTTGGA TTTT	60.0	418	INTERGENIC	--	--	--
scaffold9892_P2_515	scaffold9892	515	TGAATATAAGAATATAA/TGAATATAA	TGGCATCATTTATGGCT TGA	TGGTGAATCTCCGGA TTTA	60.3	857	INTERGENIC	--	--	--
scaffold99_P2_144355	scaffold99	144355	GTTTTTTTTT/GTTTTTTTTT	ATCCCAACATTGAAGTG GCT	TAGGTCTCATAGCCCC GATG	60.1	568	INTERGENIC	--	--	--
scaffold99_P2_153416	scaffold99	153416	TTATATATATATATATATATATATATAT TATAT/TTATATATATATATATATATAT ATATATATATATAT	TTTGGAGCAAGGTTCTT CATC	TAAGAGGCAGACGGGT CCTA	59.8	831	INTERGENIC	--	--	--
scaffold99_P2_58334	scaffold99	58334	CA/C	GATAACGTAGATGGCC GCAC	GACATTAAACAGCGCC CATT	60.0	471	INTERGENIC	--	--	--
scaffold99_P2_78741	scaffold99	78741	GATATATATATA/GATATATATATATATA TATATATA	TATTTTGGATTTTGGCT CGG	AAATGGAGGAAGGAGG GAGA	60.0	611	INTERGENIC	--	--	--
scaffold99_P2_92962	scaffold99	92962	G/GTGTAGGGTA	TCGATCCAACCTTTGTG TCA	TGTTGCAAGTGGCTGA ACTC	60.0	602	INTERGENIC	--	--	--
scaffold9900_P2_1025	scaffold9900	1025	TA/TAAAAGA	TGCCTTTTCGAAATTTG TTG	TCATAGGTCCGACTGG GAAG	60.1	407	INTERGENIC	--	--	--
scaffold992_P2_33364	scaffold992	33364	TTTCTTTC/TTTTC	TCTGCCCAATCTTGAA CTC	AACTTTTCCGCTGCTT GAA	60.0	592	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ anchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold996_P2_44276	scaffold996	44276	TAAGAAGA/TAAGA	CGGTCTTCCGTGAGT AATGA	TGAATAAACTGCGCGT ATGTG	59.8	561	INTERGENIC	--	--	--
scaffold996_P2_87410	scaffold996	87410	CT/CTT	TGGCACACACGAATTC ATT	TGTGCACCGGAAAAC TGTA	60.1	700	DRR	Ca_25583	--	--
scaffold996_P2_87555	scaffold996	87555	GTTTTTTT/GTTTTTTTTTTTT	TGGCGTACTGAGAGCT GCTA	TGTGCACCGGAAAAC TGTA	60.1	435	DRR	Ca_25583	--	--
scaffold997_P2_3152	scaffold997	3152	GT/GTCAACT	TGGAGAAACTCTTCG CTGT	TGGGTGCACAAGATTG GTTA	60.0	918	INTERGENIC	--	--	--
scaffold999_P2_123867	scaffold999	123867	CT/C	CCAAATGTTATGATCAG TATGCC	TGCCAAGAAGCTCACT TGAA	59.9	734	INTERGENIC	--	--	--
scaffold999_P2_130386	scaffold999	130386	TG/TGG	TGTAAACCTGCTTGCA ACC	CTGCACAACAATCCCA CAAC	60.0	160	INTERGENIC	--	--	--
scaffold999_P2_155566	scaffold999	155566	TGAAA/T	TGGGGATCCTCACCTA CAAG	ATAGGCCTCATAGCCC CAGT	59.9	576	INTERGENIC	--	--	--
scaffold999_P2_69970	scaffold999	69970	AA/AAATCGA	TTTTGAAAAACGATCA GGG	CTCTCATCTGAGGGCA AAGC	60.1	535	INTERGENIC	--	--	--
scaffold999_P2_70267	scaffold999	70267	ATTTT/ATTTTTT	TTTTGAAAAACGATCA GGG	CTCTCATCTGAGGGCA AAGC	60.1	535	INTERGENIC	--	--	--
scaffold999_P2_70427	scaffold999	70427	AT/ATT	GCCCTCAGATGAGAGT CAGG	CAGCGAAAAGTTTCT CCAA	60.4	324	INTERGENIC	--	--	--
scaffold999_P2_77364	scaffold999	77364	A/AT	AGGAAGAGTGGAGTTG CGAA	GGATCAAGGCAGTGG TTGT	59.9	854	DRR	Ca_28108	--	--