

Table S4. InDel markers (15640) differentiating high pod number-containing parental accession (Pusa 256) and homozygous bulk (HPNB) of a mapping population (Pusa 256 x ILWC 46) from reference *kabuli* accession (CDC Frontier)

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 (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
C11122410_P3_2331	C11122410	2331	G/GCGT	GAAAAACACATTCCCGT TGC	TTTGTGTGTCAGTTG CGCT	60.4	133	INTERGENIC	--	--	--
C11154862_P3_3633	C11154862	3633	CTT/CT	GCCAAGTCCCACTTA GATCC	GATAGAAGAGGCCGAA ACCC	60.0	583	INTERGENIC	--	--	--
C11169592_P3_2162	C11169592	2162	TAAAAAAAA/TAAAAAAAA	TTATTTCAACCGTTCT CTTTCTT	TGTGCACATCAAACAT ATGACA	57.7	911	INTERGENIC	--	--	--
C11172910_P3_8105	C11172910	8105	AATATATATATAT/AATATATATAT ATAT	TTCCATCACCAACAAGA CCA	GTATTGTCAGGTCCCG TGTC	59.9	287	INTRON	Ca_27557	P	--
C11177592_P3_13168	C11177592	13168	CAAA/CAA	TTGTTGTTGTACATTAA CGGGTC	TTTAATTGGAGCATCA ACGAAT	58.8	229	URR	Ca_27747	--	--
C11177592_P3_7683	C11177592	7683	CAAA/CAA	CAGGCACACTGCACAA AGTT	TCCCTCGGATTATGTG AAGC	59.9	533	INTRON	Ca_27746	O	bHLH
C11178116_P3_12920	C11178116	12920	CTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATT/CTTATT ATTATTATTATTATTATTATTATTATTAT TATTATTATTATT	TGCACATTGGGTCAGAG CATT	AAACCAACATCCCAT AAGGAG	60.0	786	INTERGENIC	--	--	--
C11181782_P3_14863	C11181782	14863	A/AC	TGAACCCTAGGTTTCGT CCAC	TGGGCTTTGATACGTG GTTT	60.0	539	INTERGENIC	--	--	--
C11181782_P3_18097	C11181782	18097	AATATAT/AATATATAT	TTGCACAAAATGACTG GACC	GTTGGCTTGTGGTTGG ACTT	59.5	754	INTERGENIC	--	--	--
C11181782_P3_18610	C11181782	18610	TG/T	AAGTCCAACCACAAGC CAAC	GGAGTGTTGAGAGCC TTTG	60.0	510	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 (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
Ca1_P3_10057638	Ca1	10057638	CATATATATATATATATAT/CATATATAT ATATAT	TGATGGGAGCAATGAA TGAA	TCAAATCCGACTTGA GGGA	60.0	542	INTERGENIC	--	--	--
Ca1_P3_10183238	Ca1	10183238	ACCC/ACC	CCAATAAGCAAACCGG TCAC	ACCATTGCATTGTG CTCA	60.4	177	INTERGENIC	--	--	--
Ca1_P3_10428835	Ca1	10428835	GTTTT/GTTTTT	TCAAACAAGCCTAAAA CATCA	TCATGCCTTCTTCACT TATTCA	57.5	361	INTERGENIC	--	--	--
Ca1_P3_10513925	Ca1	10513925	CTTATTATTTATTTATTTATTTAT TTATTATTTATT/CTTATTATTTATTTA TTTATTTATTTATTTATTTATTTAT T	CCAGATTCCTTTTCCC CTC	GGTAGGCCACAGACT GTCTTA	59.9	634	INTERGENIC	--	--	--
Ca1_P3_10577010	Ca1	10577010	TA/TATATACA	AAGGAAGCCTACTCC CAAA	GGTGGTCCAAATAGTA CCCCG	60.1	919	INTERGENIC	--	--	--
Ca1_P3_10705135	Ca1	10705135	CA/CACGGA	TTGCCCTTGGTATTCTT TGC	ACTGGATGTACGGAGG AACG	60.1	365	INTRON	Ca_02693	R	--
Ca1_P3_10843023	Ca1	10843023	TT/TTATTAT	CCGATATCTTCCTGCG ATGT	CACGGTTCAAAGTGAC AACTTC	60.1	192	INTRON	Ca_02674	G	NAC
Ca1_P3_10858035	Ca1	10858035	TTTCTTCTTCTTCTTCTTCTTCTTC TT/TTTCTTCTTCTTCTTCTTCTTCT TCTTCTT	TCATTTGGAAAAGCACA CCA	CCACGAAGTCCCAAG ATAA	60.1	237	INTERGENIC	--	--	--
Ca1_P3_10893701	Ca1	10893701	CCTCTCTCTCTCTCTCTCT/CCTCTCTC TCTCTCTCT	TTGACTGATTGAGGGC TAAGG	ATTTTGCACCCAAAT TGTC	59.3	186	INTERGENIC	--	--	--
Ca1_P3_10927883	Ca1	10927883	GC/G	GTTGGAGCCCAAAGTT GTGT	TTGATCGTGACGTTAT TCGC	60.0	596	DRR	Ca_02668	D	M-type

[illegible]

[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 (°C)	Expected 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_P3_12110141	Ca1	12110141	ATTTTTTTTTTTTT/ATTTTTTTTTT	TGAATTGGGCCAAGAC ATTT	TGGCAGACCACAGATA ACCA	60.3	943	INTERGENIC	--	--	--
Ca1_P3_12112319	Ca1	12112319	C/CTTGG	GCGAAATTATTGACG GAGTTT	CATTTCAGAAGTGAAG AGCAACA	59.5	874	INTERGENIC	--	--	--
Ca1_P3_12232952	Ca1	12232952	TAAAA/TAAAAA	GACCGTGGGCTATAAG TGGA	AAGCTGAAATCATGGG TGGA	60.0	542	DRR	Ca_02532	--	--
Ca1_P3_12253965	Ca1	12253965	CAAA/CA	AATCGCGTTTCCTGAA GCTA	TGAGGATTCAACGCAC AAAA	60.0	546	INTERGENIC	--	--	--
Ca1_P3_12376905	Ca1	12376905	GGTTGTT/GGTT	GAAGGTTTGCTACGCA GGAG	TCCACATTGCTTCC AAGA	60.0	143	INTERGENIC	--	--	--
Ca1_P3_12420239	Ca1	12420239	CAAAAAAAAA/CAAAAAAAAAA	AAATGCAATCTTGGTTT CCA	TTTTGGTAATGTGCC ATGATA	58.1	595	INTERGENIC	--	--	--
Ca1_P3_12425557	Ca1	12425557	CTTTTTTTTT/CTTTTTTTTTT	GCTAAGGCGACGTGTT GAAT	AGCAATCATTTGAACT GGGC	60.3	892	INTERGENIC	--	--	--
Ca1_P3_12452777	Ca1	12452777	AATATATATATATATATATATATA/ AATATATATATATATATATATATA	TTTTTGAAGGATATTGA TGCGA	CTCGAGCTAGCCATCC TCAG	59.6	734	INTERGENIC	--	--	--
Ca1_P3_12526252	Ca1	12526252	CTATATATATATATATATATATATA TAT/CTATATATATATATATATATA TATATATATAT	TTTGGTGCACTGGTTC TGAG	AAATGGCACCTCACCA AAAC	59.9	449	INTERGENIC	--	--	--
Ca1_P3_12536004	Ca1	12536004	AAAAAATAAAATAAAATAAA/AAAA AATAAAATAAAAA	CGCTTAATACCGACAT GGCT	ACGCAGGCAGAAAAC TACC	60.1	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
Ca1_P3_12544202	Ca1	12544202	TTATATATATATATAT/TTATATATATAT AT	TCGGTGTCTCCCTTCAT TTC	TCATTCAAGGATGCAA CTGG	60.1	656	INTERGENIC	--	--	--
Ca1_P3_12553366	Ca1	12553366	ACACAATCAATTCACAA/ACACAA	CCTATTACAGCGCTTTT TCCA	CGCTATAAAAGGGTGC TTGC	59.4	544	INTERGENIC	--	--	--
Ca1_P3_12616198	Ca1	12616198	ATTTTTTTTT/ATTTTTTT	ATGGCCACAATCACAA CAAA	TGGTGGTAGAAGAAA ACGTG	59.8	409	INTERGENIC	--	--	--
Ca1_P3_12644693	Ca1	12644693	TA/T	TTGATTTTCAATTGGGA GCC	TGCCAGGATGTAACCC TTTC	59.9	807	INTERGENIC	--	--	--
Ca1_P3_12644727	Ca1	12644727	TGTA/TGTACGTA	TTGATTTTCAATTGGGA GCC	TGCCAGGATGTAACCC TTTC	59.9	807	INTERGENIC	--	--	--
Ca1_P3_12644844	Ca1	12644844	CGG/CG	ACCCAACCGCAAAAAC AATA	TGCCAGGATGTAACCC TTTC	60.2	440	INTERGENIC	--	--	--
Ca1_P3_12644922	Ca1	12644922	AC/A	ACCCAACCGCAAAAAC AATA	TGCCAGGATGTAACCC TTTC	60.2	440	INTERGENIC	--	--	--
Ca1_P3_12645367	Ca1	12645367	TAAAAAAA/TAAAAAAA	GAAAGGGTTACATCCT GGCA	TTGGATAAAATTCAAGT GTTTGACA	59.9	511	INTERGENIC	--	--	--
Ca1_P3_12647652	Ca1	12647652	CTTTTTTTTTTT/CTTTTTTTTT	TGCTTCCAATTTCAAAC ACAA	TTTTTCCCTCGATTAA TCCTTT	59.2	751	INTERGENIC	--	--	--
Ca1_P3_12653983	Ca1	12653983	TAA/TA	AAAAATGTTACACGCTCC CTC	TTGCTTCAAGATGATG TGGC	59.2	123	DRR	Ca_02490	--	--

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
Ca1_P3_12690899	Ca1	12690899	TTAAATAAATAAATAAATAA/TTAAATAA ATAAATAAATAAATAA	TGCTTCATACCAACGTT CCA	CAGAGTTTTAAACGTA TGACGGTG	60.1	516	INTERGENIC	--	--	--
Ca1_P3_12721902	Ca1	12721902	CATATATATATATATATATATAT/CAT ATATATATATATATATAT	CGCATGATTCAAACAA TGG	CCAACTCAGGTTTCAGC AAGA	59.9	746	DRR	Ca_02480	--	--
Ca1_P3_12727627	Ca1	12727627	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	CCTTACGGACAACCA GCAT	GCAAAAGAATTTGCAA CAAAGA	60.0	419	INTERGENIC	--	--	--
Ca1_P3_12774149	Ca1	12774149	TTAAT/TTAATCGTTATAAT	GAAGCAGCCTCAACCT CAAC	TCCGCCACCTCTAAAT ATGAA	60.0	782	INTERGENIC	--	--	--
Ca1_P3_12776177	Ca1	12776177	T/TC	ATCTCCCGTCAGATAT CCC	GACAATAACCAACCCAG TGCC	60.1	225	INTERGENIC	--	--	--
Ca1_P3_12776605	Ca1	12776605	GAAAAA/GAAA	GGCACTGGGTGGTTAT TGTC	CAATCTTGTTACACAG ACGGC	60.2	800	INTERGENIC	--	--	--
Ca1_P3_12783563	Ca1	12783563	CATATA/CATA	GCCACACAAAAGGAA GGAA	ACAATGTGGCCTCCTT GAAC	60.1	287	INTERGENIC	--	--	--
Ca1_P3_12905675	Ca1	12905675	CAAA/CAA	TTGGGAGGATGCCAAA TTAC	TTGAATAACCTCCAG CACA	59.8	941	INTERGENIC	--	--	--
Ca1_P3_12927388	Ca1	12927388	GAAAAAA/GAAAAA	ACCTACGACATCGGTT TTTG	TGGAAGAAACACAGAT TGGG	59.9	919	INTERGENIC	--	--	--
Ca1_P3_12947634	Ca1	12947634	ATAAATTTAAA/ATAAATTTAAAATTAA ATTTAAA	AACTTTGTGGTCGTTTT GGC	TGCTTATTGTGGCTGC TTTG	60.0	647	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
Ca1_P3_12956423	Ca1	12956423	CAAAAAA/CAAAAA	TTGTCGGATACCTGCT CAGT	TTGCAAATTCGGACAA ACAA	58.3	455	INTERGENIC	--	--	--
Ca1_P3_1297317	Ca1	1297317	ATTTTTTTTT/ATTTTTTTTT	TGCATGAACAAAGGGA CAAG	TAACATCCCGCGTAAC ATGA	59.7	625	INTERGENIC	--	--	--
Ca1_P3_12985940	Ca1	12985940	ATT/ATT	TTGATGAGGATCTTTCT ATGGGA	TCAACAAGTATTTCGAA AGGCA	59.9	364	INTERGENIC	--	--	--
Ca1_P3_12988934	Ca1	12988934	C/CGGG	ATCGGCATCCTTCCTTC TTT	GACGCTAAGCCCCTTT CTCT	60.0	354	INTERGENIC	--	--	--
Ca1_P3_13007507	Ca1	13007507	TTAT/TTATATAT	CACGGGTCCAGATGGT TAGT	CCAAGCATCTTGGTGC ATAA	59.8	322	INTERGENIC	--	--	--
Ca1_P3_13014725	Ca1	13014725	TTCT/TT	AAAATGAAGTCAGTTTT TCAAAAGG	AGCTTGATTCCACCA CGAC	59.2	766	INTERGENIC	--	--	--
Ca1_P3_13060064	Ca1	13060064	AAATAATAATAATAATAATAAT AATAATAATAATAATAAA/AAATAATA ATAATAATAATAATAATAATAATAA TAATAA	TCCTGAAACAAATGCAC CAA	GGTCTGAAATAAGGCC GTGA	60.1	463	DRR	Ca_14070	O	--
Ca1_P3_13084713	Ca1	13084713	TAAAAAA/TAAAAAAA	TCACTGTGCAGATAACA ACAACA	GGACACCGTCTTATCA CCCA	59.3	570	INTERGENIC	--	--	--
Ca1_P3_13117590	Ca1	13117590	TAATAAAATAAAATAAA/TAATAAA ATAAAA	TGTTGTTTACGGAATTT GGTTTT	TTTCGTTGTATATTAA GCACGG	59.7	547	INTERGENIC	--	--	--
Ca1_P3_13487363	Ca1	13487363	TAAAAAAAAA/TAAAAAAAAA	GATGATTGCAGCAAGT TGGA	TCGTGTTGGCTAATTC AACG	59.8	558	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 (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
Ca1_P3_13570743	Ca1	13570743	AT/ATCTCCTCT	CCGGAAGAACATTCAA AGGA	TTCAAACCCAAACCTC TTCG	60.0	460	INTERGENIC	--	--	--
Ca1_P3_13671513	Ca1	13671513	AACA/AA	CGAGGAAGAGGTGGAT TCAA	TGGTTTATGATAGGTT CAATTTGG	60.2	348	INTERGENIC	--	--	--
Ca1_P3_13671962	Ca1	13671962	ATTT/ATT	CCAAATTGAACCTATCA TAAACCA	AAAAGACCAATCGGG AAAAA	59.2	748	INTERGENIC	--	--	--
Ca1_P3_13672615	Ca1	13672615	AC/A	TTTTCCCGATTGGTC TTTT	TTTCCCGATTGCTCC TTTA	59.8	448	INTERGENIC	--	--	--
Ca1_P3_13679372	Ca1	13679372	CTTTT/CTTT	AGGTGCTCTCCTCTCC ACAG	TTTGGCATGGATAGGG GTTA	59.6	429	DRR	Ca_14133	--	ERF
Ca1_P3_13683980	Ca1	13683980	TAAA/TAAAA	ATCGAAATGGGTGCAA AGTC	GGTTGCCCTGGTATGG AGAA	59.9	621	DRR	Ca_14134	--	MYB_related
Ca1_P3_13692764	Ca1	13692764	CTTTT/CTTTTT	CGCCAGTGGTTATGCT CTTA	AAGGAACCACACTTGA ACCG	58.9	875	INTERGENIC	--	--	--
Ca1_P3_13697453	Ca1	13697453	TAAAAAA/TAAAAAAA	TCTGAAAACAATTTCCC CTTG	CTAGACCATGGCCGTT CAAT	59.1	865	DRR	Ca_14135	--	bHLH
Ca1_P3_13698221	Ca1	13698221	TG/T	TTGAACGGCCATGGTC TAGT	ATGGAATTATGGTGCC GTGT	60.5	611	DRR	Ca_14135	--	bHLH
Ca1_P3_13701840	Ca1	13701840	AGAATGTATAT/A	TGCAAAACCAAGTCTGT CCA	ACCTTGCCCTGAAGT AGGT	60.3	632	INTRON	Ca_14135	--	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 (°C)	Expected 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_P3_13703551	Ca1	13703551	GTTTTTTTTT/GTTTTTTTTTTT	TTTCCTCCATCTTGTA GGC	AACCTCAAAGGATGA CCCC	60.1	533	INTRON	Ca_14135	--	bHLH
Ca1_P3_13704468	Ca1	13704468	ATTTTTTT/ATTTTTT	TCATTACGGTGTCTA TGCC	GGATATGCAATTGGGA TGCT	60.1	981	INTRON	Ca_14135	--	bHLH
Ca1_P3_13710997	Ca1	13710997	TAAAAAAAA/TAAAAAAAA	CCACCGAAAACTTCAT CCA	CCGGAAAACTTCATTC CAAA	60.9	411	INTERGENIC	--	--	--
Ca1_P3_13841782	Ca1	13841782	GTTTTTTTTT/GTTTTTTTTTTT	CATCTCCTATTTGCGG CCTA	TGAATCAATGCAACTTT TTATGC	60.2	465	INTERGENIC	--	--	--
Ca1_P3_13915867	Ca1	13915867	CAAAAAAAAA/CAAAAAAAAA	TACAATTGTGTGCGT CGAT	ATAGTCAAGAGCGCT TCCA	60.0	528	INTERGENIC	--	--	--
Ca1_P3_13939746	Ca1	13939746	TA/TACTTTATTAATAA	TCAGGTGTCTCATCCA CTGC	TGGATTTTCAATGCCA GACA	59.8	755	DRR	Ca_07137	--	--
Ca1_P3_13950121	Ca1	13950121	AATATATATATATATATAT/AAATAT ATATATATATATATAT	CAAATTTTGGACGGAG AGGA	ACGGGGATAATGGTTT TGTG	60.0	463	INTERGENIC	--	--	--
Ca1_P3_1397435	Ca1	1397435	CA/C	TGGAACAGCAACGTG GTAG	CAAAGGGTTGGATTTT CCAC	59.8	555	INTERGENIC	--	--	--
Ca1_P3_14094110	Ca1	14094110	TA/TAA	GAATTTCTTTTGGGAG GAGAA	CCAACTACATTGTTGT GCCA	58.7	442	INTERGENIC	--	--	--
Ca1_P3_14194799	Ca1	14194799	ATTTTTTTTT/ATTTTTTTTT	CGGTGATATTGGGGA AATG	AAAGACTTTTTCGATG GCATGT	60.0	762	INTRON	Ca_07116	V	--

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 (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
Ca1_P3_14309917	Ca1	14309917	G/GAA	AACCATTGGAAGGCAA AATG	TCTTCCACCTCTTTG CATC	59.8	106	INTERGENIC	--	--	--
Ca1_P3_14399975	Ca1	14399975	TAAAAAAA/TAAAAAA	AGACGTGATCCGACAA AAAGA	GCACCAAAACGGGATA AAAA	59.7	585	INTERGENIC	--	--	--
Ca1_P3_14400629	Ca1	14400629	TCAAAGCAA/TCAA	TGATGCGGCATTGAAG TTAG	TGGGAAACACGGATAC AAGA	59.8	290	INTERGENIC	--	--	--
Ca1_P3_14426009	Ca1	14426009	CATATATATATATATATATATATATAT /CATATATATATATATATATATATATA TATAT	CAGCCAAGACCCAATT TCAT	ACTCTCCAAAAAGGC GATT	59.9	432	INTERGENIC	--	--	--
Ca1_P3_14575406	Ca1	14575406	CATATATATATATATATATATATATAT A/CATATATATATATATATATATATAT ATATATATA	TGGTTAGAAATGGAGG AGCC	TGGTGGTGAAAGATT GGGT	59.1	790	DRR	Ca_07077	--	NAC
Ca1_P3_14660648	Ca1	14660648	T/TA	GGAAATTGAATCAGCA GGGA	AGATGATGCGACCTCT TGCT	60.0	170	INTERGENIC	--	--	--
Ca1_P3_14682464	Ca1	14682464	CTTTT/CTTT	TCCATTGTTGAGCGAAA ACA	TGGATGAAGGATCAAC CACA	60.2	659	INTERGENIC	--	--	--
Ca1_P3_14695327	Ca1	14695327	CTTTTTT/CTTTTTT	ATTACAGATGTGGGCC GTTC	CGAGAATCATGTCATG TGCG	59.8	572	DRR	Ca_07061	--	ERF
Ca1_P3_1470537	Ca1	1470537	T/TC	AAGTGGCGATAGGGTT TGTG	CAAAATGTGGCATATG AGCTG	60.0	834	INTERGENIC	--	--	--
Ca1_P3_14727063	Ca1	14727063	CT/C	ATAGCTGGCGGGTCAC ATAC	TGCGTCCATTGAAAAT GATG	60.0	452	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
Ca1_P3_14843454	Ca1	14843454	GTTT/GTTTT	ATCGATTGAACCAATC CCA	TTCTAGCTGGCTTTTC TCGC	60.1	802	INTERGENIC	--	--	--
Ca1_P3_14870030	Ca1	14870030	CAATAATAATAATAATAATAATAAT AATAAT/CAATAATAATAATAATAAT AATAATAATAATAAT	TCCTTTTCCATATGCTG CAA	TTTCAAACCAAAACAAA CCAAA	59.3	684	INTERGENIC	--	--	--
Ca1_P3_14891282	Ca1	14891282	AATATATATATATATATATATATAT /AATATATATATATATATATAT	TCACAAGATAGTTTTGC CTTTTT	CAAAATCATCGGAACG ATTACA	57.2	360	INTERGENIC	--	--	--
Ca1_P3_14995819	Ca1	14995819	TTGTTATGTTAT/TTGTTATGTTATGTTA T	CAGCGCTTTTCCCAAT AAG	CCAAAAAGGGTGGAGA TTGA	59.8	359	INTERGENIC	--	--	--
Ca1_P3_14995847	Ca1	14995847	ACATGCATGCA/ACATGCA	CAGCGCTTTTCCCAAT AAG	CCAAAAAGGGTGGAGA TTGA	59.8	359	INTERGENIC	--	--	--
Ca1_P3_15037301	Ca1	15037301	CATATATATATATA/CATATATATATA TATATA	GTCACACGAGCATGGA AAGT	TAACCTGGCCAGTCAC CATT	58.7	578	INTERGENIC	--	--	--
Ca1_P3_15380342	Ca1	15380342	ATTCTTCTTCTTCTTCTT/ATTCTTC TCTTCTTCTTCTTCTTCTTCTT	GGCTAAGCCATAAGTT CCCA	TGAACAGGATTTGGAC GACA	59.2	238	INTERGENIC	--	--	--
Ca1_P3_15667505	Ca1	15667505	AC/A	TCGGGCAAAAATTCTG ACAT	CAATTCACAGGTAC GCTT	60.4	447	INTERGENIC	--	--	--
Ca1_P3_15773203	Ca1	15773203	A/ATATATT	CCTAAAGAAAGATGGG CCTG	TTGTCTTTTGGCCT TCTG	58.8	288	INTERGENIC	--	--	--
Ca1_P3_15835234	Ca1	15835234	TTTATTATTATTATTATTATTATTAT TATT/TTTATTATTATTATTATTATTA TTATT	TCGTTTGCCGTTAACTA GGG	TTGGCCTAACCTGAAA GCAT	60.1	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 (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
Ca1_P3_15890229	Ca1	15890229	ATTTTT/ATTTTT	AATTCAAATGCGCTGCT TCT	TTGTCAATTACTTGCA TCTCC	60.0	707	DRR	Ca_06963	--	--
Ca1_P3_15928922	Ca1	15928922	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/TTTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTA	GGGATAGATTTCTTTGA ATGTGC	TTTTCTGATGGGGTT GCAT	59.0	553	INTERGENIC	--	--	--
Ca1_P3_15952106	Ca1	15952106	TTCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTC/TTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCTC	AGCGGCTCTTCAATTT TCA	TGAGGTAGCCAAATCC AAGG	60.0	334	INTERGENIC	--	--	--
Ca1_P3_16106451	Ca1	16106451	ACCC/ACCCC	AGCCTTTGGCTGTCAC TCAT	CCATAATACAACTGTA GCCGC	59.9	341	INTERGENIC	--	--	--
Ca1_P3_16106562	Ca1	16106562	ATTTTT/ATTTT	AGCCTTTGGCTGTCAC TCAT	TGGGATAATTTCTAAA CGAAAAA	59.9	795	INTERGENIC	--	--	--
Ca1_P3_16146114	Ca1	16146114	ATTTTT/ATTTTTT	TACCTTCCCTGCGCAT ATC	AGAAGGCTACCACTAC GCGA	60.1	529	INTERGENIC	--	--	--
Ca1_P3_16158710	Ca1	16158710	AG/A	AGTCCGCAACCCATTTA GTG	TTTGGGGAATGCTTAA AACC	60.0	619	INTERGENIC	--	--	--
Ca1_P3_16159268	Ca1	16159268	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA AAAAAAAAAAAAA	ATGGTTTTAAGCATTCC CCA	TTAAGTTGCGAGGTTG CTCA	59.3	457	INTERGENIC	--	--	--
Ca1_P3_16166780	Ca1	16166780	TAAA/TAA	TGTCCAAAAACGGACA AACA	AAACGTGCCATGCTA AAAA	60.0	551	DRR	Ca_06938	R	--
Ca1_P3_16166882	Ca1	16166882	AC/A	CCAGAGGTGTCCACTG ATTACA	TTTTTAAACGTGCCAT GCT	60.0	495	DRR	Ca_06938	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 (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
Ca1_P3_16197666	Ca1	16197666	TAAAA/TAAAAA	TTGGTAAGTGAAGAA GATGAGA	TTGGAGGCAACCAACA AAAT	58.0	789	INTERGENIC	--	--	--
Ca1_P3_16206173	Ca1	16206173	TAAAA/TAAAAA	TTTCCCTAAAATGTCA CCAAA	GGGGCTTACGAGTACA GACTCA	58.5	644	INTERGENIC	--	--	--
Ca1_P3_16206852	Ca1	16206852	ATATTAT/ATAT	GAGTCTGTACTCGTAA GCCCCCT	ATTTTGACAATGGCCA CACA	58.9	697	INTERGENIC	--	--	--
Ca1_P3_16213026	Ca1	16213026	CGAGTAGAGTA/CGAGTA	TTTGAATGCTTCTGAG GCT	TTTCGTTACGGGTCTCT TTTG	60.0	682	INTRON	Ca_06936	--	bHLH
Ca1_P3_16360387	Ca1	16360387	AAAAAAACTATAAAAAAC/AAAAAA ACTATAAAAAAATATAAAAAAC	TGAGCATATAACAGCC CCAA	CAATTGCCTCAGTCCT CCAT	59.1	565	INTERGENIC	--	--	--
Ca1_P3_16421756	Ca1	16421756	TAAAAAAAA/TAAAAAAAAA	CTTTGCTGCCCTTTGAA GTC	TTAGAGTTGTGCCATC ACGG	60.0	580	INTRON	Ca_06921	PT	FAR1
Ca1_P3_16505055	Ca1	16505055	CAAAAAAAAA/CAAAAAAAAA	GCGAATACAAGTTGGG CAAT	TGACGTGCCAATGCAT ATTT	60.0	713	INTERGENIC	--	--	--
Ca1_P3_16509431	Ca1	16509431	CA/C	AAATACGGTGCTTTTG GTGC	TCCGACGTGTAACCTC CCAT	60.0	714	INTRON	Ca_06913	--	--
Ca1_P3_16580518	Ca1	16580518	GTTTTTTTTT/GTTTTTTTTTTTTT T	CATCTGCATGAAATC GTGT	AAGAGCCTGGGAAGA GGAG	59.5	496	INTERGENIC	--	--	--
Ca1_P3_16629521	Ca1	16629521	TTTAATTAATTAATTAATT/TTTAATTA TTAATTAATTAATTAATT	AACGTTTGAGGATTCC GTTG	GAAACTCCAGCTCCAA AACG	60.0	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 (°C)	Expected 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_P3_16661578	Ca1	16661578	TAAAAAAAAA/TAAAAAAAAA	TGCATCTCATATGGGTG GTGTG	CAGCGACAATATTATTT ATCCCG	58.5	320	INTERGENIC	--	--	--
Ca1_P3_16738344	Ca1	16738344	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAAT/AAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAAT	TCTCCCAATTTTGATC CCA	ATGCATGCACGTTGAT TTTT	60.2	815	INTERGENIC	--	--	--
Ca1_P3_16739207	Ca1	16739207	TTAATAATAATAATAATAATAATAA TAATA/TTAATAATAATAATAATAAT AATAATA	CCACTCATCGTGTAAG CTTTTC	TTCACAATTTGGGAGG GAAG	58.9	630	INTERGENIC	--	--	--
Ca1_P3_16748809	Ca1	16748809	GAAAAAA/GAAAAAA	TTGGGTCACCAAGGA TTTC	GGATGGGAGGAGAAA CTTCC	59.8	353	INTERGENIC	--	--	--
Ca1_P3_16753431	Ca1	16753431	ATTT/ATTTT	GTCAATGCGGGTTTTC AAGT	TGTTGCATTTGGGTTT GATA	60.0	724	INTERGENIC	--	--	--
Ca1_P3_16757631	Ca1	16757631	AATATATATATATATATATATATA/ AATATATATATATATATATATATAT ATATATATATA	GATTCAAGACGAGACG CAAA	AAAAATGTTTTTCAATA AGCAAAATC	59.0	562	INTERGENIC	--	--	--
Ca1_P3_1688068	Ca1	1688068	ATTTTT/ATTTTT	TTGTGCATAGTACCGC CAAG	ACGACATGGGTTTACG GTTC	59.8	575	INTERGENIC	--	--	--
Ca1_P3_1705040	Ca1	1705040	GT/GTATAT	CTGAACCTTTAATTTCA GTCACAA	ATTAATCTTCGCCTTG GTGC	57.6	760	INTERGENIC	--	--	--
Ca1_P3_17188029	Ca1	17188029	TTAT/TT	TAGACTTCCGATGCCA CACC	TTTCAATTGCGAGCAT GAGA	61.1	102	INTERGENIC	--	--	--
Ca1_P3_1720459	Ca1	1720459	TA/T	CCATGACGCCAACTTC ACTA	GGCGAAATCAGCTTTT TGAA	59.7	546	DRR	Ca_00215	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 (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
Ca1_P3_17261345	Ca1	17261345	GTGGTGATAATG/GTG	TGAACGACGTGTTGAA GTGC	TCCGTTCAATGCATGG TAGA	60.9	331	DRR	Ca_22776	--	--
Ca1_P3_1733198	Ca1	1733198	AAAAAA/AAA	GACCAAATCCACCTTCT CCA	GAGGCAGAATGCTCCA AAAA	59.9	693	INTRON	Ca_00217	--	TALE
Ca1_P3_17339203	Ca1	17339203	TTTATTATTATTATTATTATT/TTTA TTATTATTATTATTATTA	TGGCTTCAAGTTGAC CACT	CTAGCCCGGAGAGCTA CCTT	60.7	236	INTERGENIC	--	--	--
Ca1_P3_1736894	Ca1	1736894	ATT/AT	CGTCAATGAGTGCTGG AAAA	GGACCCAAAACCTCAC CTCA	59.8	528	INTERGENIC	--	--	--
Ca1_P3_1738013	Ca1	1738013	TAAAAAA/TAAAAAA	CTAGGATGGAATCCTC TGCC	AGTGCTGCCTCCGTAA GAAA	58.7	638	INTERGENIC	--	--	--
Ca1_P3_1740906	Ca1	1740906	GTTTTTTT/GTTTTTTT	GGACAGGATCTTCTGG TGGA	CTTCTCAATGCAGCA ACCA	60.0	660	INTRON	Ca_00218	--	TALE
Ca1_P3_17436816	Ca1	17436816	A/AC	GACGAAAAGATCACCC TCACA	CATGTGCCACAGGATC ATTC	60.1	512	INTERGENIC	--	--	--
Ca1_P3_1744972	Ca1	1744972	CA/CACAGTCCCACTTTA	ACCCTGTGGCACAATA CCAT	AGCACCGATCAAAATCA CACA	60.1	820	INTRON	Ca_00219	--	TALE
Ca1_P3_1746242	Ca1	1746242	ACAAAT/A	AATGCAAAAAGCCGAC ATCT	GTGGGAGTCGTGAAAC TCGT	59.7	281	INTRON	Ca_00219	--	TALE
Ca1_P3_1746561	Ca1	1746561	AT/ATTCTGTCATAATT	ACACGAGTTTCACGAC TCCC	TTGGGTTGAAACTTGA AGGTG	60.2	423	INTRON	Ca_00219	--	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 (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
Ca1_P3_1746940	Ca1	1746940	CT/CTAGT	ACGAGTTTCACGACTC CCAC	CATGATGGAGAAATGG AGATGA	60.2	733	INTRON	Ca_00219	--	TALE
Ca1_P3_17476559	Ca1	17476559	ATTTTTTTT/ATTTTTTTT	ACCTTCTCACTCAAACC CCC	CAACATCATTGGCAGC AAAA	60.3	457	INTERGENIC	--	--	--
Ca1_P3_17498653	Ca1	17498653	TTATATATATATATATATATAT/TT ATATATATATATATATATATATAT	TCATGCCCTAACACCC CTC	GATGCGACCTCCTATG GTGT	60.1	268	INTERGENIC	--	--	--
Ca1_P3_17532277	Ca1	17532277	CTTTTTT/CTTTTTT	AAAATTGGCAAATGTTT GTGTG	TCAATATTGGGGCAAA GCAT	59.8	700	INTERGENIC	--	--	--
Ca1_P3_17598565	Ca1	17598565	CTTTTTTTTTT/CTTTTTTTTTT	TCATACGAGGTTTCTTG GGT	TCTCAAATTTTTCAAC AAACTCA	57.1	482	INTERGENIC	--	--	--
Ca1_P3_17634013	Ca1	17634013	TTATATATATATATATAT/TTATATATAT ATATATATAT	TGATTGGATGTGGGTG TGAG	TTTCAAAGGCAACAAC CCTC	60.4	529	INTERGENIC	--	--	--
Ca1_P3_1777780	Ca1	1777780	TAAAAAA/TAAAAA	CGTCACAAAGCATCAC AGGT	CTACGGTGCAACAGAA ACCA	59.8	563	INTERGENIC	--	--	--
Ca1_P3_1777834	Ca1	1777834	CTCT/CTCTATCT	CGTCACAAAGCATCAC AGGT	ATTGCACAACGGCTAC AACA	59.8	906	INTERGENIC	--	--	--
Ca1_P3_1779893	Ca1	1779893	A/AAGT	GGTGAATGTTTGCTTC CTCAA	TGCATCGTCACTTTATA CGAAA	60.1	222	INTERGENIC	--	--	--
Ca1_P3_1779944	Ca1	1779944	TAAAA/T	GGTGAATGTTTGCTTC CTCAA	AATAATCACTTTTATT TTCCCGTT	60.1	637	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 (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
Ca1_P3_1794406	Ca1	1794406	GTTT/GTT	TCTTGAACGAGAAAAC CGCT	ACGGTTTCTTGCTTTT CCC	60.0	365	INTERGENIC	--	--	--
Ca1_P3_1800007	Ca1	1800007	AGTT/A	TGTTGCACAAGGTCCA GAAG	TTTGGCCAAGAGATG GATG	59.9	601	DRR	Ca_00227	P	--
Ca1_P3_1801730	Ca1	1801730	ACACACAACGAGTC/ACACACAACGAG TCACACAACGAGTC	CAGGGAAAAATCCAAG CTGA	TGGACAAGAGCATCTG CAAC	60.2	565	CDS (large-effect mutations)	Ca_00228	F	MYB_related
Ca1_P3_1801900	Ca1	1801900	CTTTT/CTTTT	GACACACAACGAGTCG AGGA	TGGACAAGAGCATCTG CAAC	59.9	310	DRR	Ca_00227	P	--
Ca1_P3_18088	Ca1	18088	TA/TAA	CCGCTTGTTTTCTTTG CAG	TTGATTGCTTGTGCT CCAG	60.9	543	INTERGENIC	--	--	--
Ca1_P3_1811462	Ca1	1811462	AA/AATCTTCTTA	AACGGCAAGAACAGAG CAAT	CGCCTCAAAGTACGTT CACA	59.9	611	INTERGENIC	--	--	--
Ca1_P3_1811791	Ca1	1811791	A/ACT	TGTGAACGTACTTTGA GGCG	TGGTCAACATGCTGTT CCAT	59.9	653	INTERGENIC	--	--	--
Ca1_P3_1817917	Ca1	1817917	G/GGAA	CTTCTCTGGCCATTTT CCA	ATTGATTGGGCATAGC CAAG	60.2	752	INTERGENIC	--	--	--
Ca1_P3_18181716	Ca1	18181716	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATAT ATATA	CGAATACTCATGTTTT TGATCTG	ACCCAACGTAGCACGT TACC	59.9	626	INTERGENIC	--	--	--
Ca1_P3_1819582	Ca1	1819582	TAAAAAA/TAAAAAAA	AAAATTGATTCGTCACT CCATACA	CAGCACCAGCAACTCC TACA	59.8	434	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
Ca1_P3_1822026	Ca1	1822026	TC/T	ATGTTTGGGGCTATCG ACTG	GAGGAATTTTGCTCTC GTGC	60.0	449	INTERGENIC	--	--	--
Ca1_P3_1823990	Ca1	1823990	TGAAGAAGAAGAAGAAGA/TGAAGAAG AAGAAGAAGAAGA	CTCTGCGTCTTCCCTTT CAC	GAGCAATTTCCATAAC CCCA	60.0	554	CDS (large-effect mutations)	Ca_00230	K	--
Ca1_P3_18298335	Ca1	18298335	TCC/TC	GGTAATGCCTCGTACA AAACAA	CATTCTTATGCCTCC TACACC	59.1	751	INTERGENIC	--	--	--
Ca1_P3_18299880	Ca1	18299880	TTCTATCTATCC/TTCTATCC	TGGATCACTCACCTCTC TTCC	TGGAAGTGGTGGTTTT GTTG	59.2	185	INTERGENIC	--	--	--
Ca1_P3_18300620	Ca1	18300620	GTTTTTTTT/GTTTTTTT	TTTCCATGAGTTATATT TGTCACGA	TGGCCTTCAATTTCTT GCT	59.8	134	INTERGENIC	--	--	--
Ca1_P3_18300800	Ca1	18300800	ATTT/ATT	AGCAAGAAAATTGAAG GCCA	GGAAGCTTTAAAGGGA GCAAA	59.8	161	INTERGENIC	--	--	--
Ca1_P3_18325523	Ca1	18325523	AGG/AG	CGGATCATTACACACTT GCG	GCCAAAGCCATGTTTT CAAT	60.1	324	INTERGENIC	--	--	--
Ca1_P3_18328170	Ca1	18328170	GTTTTTT/GTTTTTTT	TTAAACCACAAAATGG GGC	GAGGCAAAGCTTCCAA ATCA	59.7	475	INTERGENIC	--	--	--
Ca1_P3_18328227	Ca1	18328227	GTCTATCT/GTCT	TTAAACCACAAAATGG GGC	GAGGCAAAGCTTCCAA ATCA	59.7	475	INTERGENIC	--	--	--
Ca1_P3_1835748	Ca1	1835748	TTAT/TT	TTCTTGAATCTCCACC ACC	TTTCTTGGGCCTTAGG GTTT	59.9	680	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
Ca1_P3_18364053	Ca1	18364053	GAAA/GAAAA	CCCGTAGCAAGACTTG AAGC	TTGGAGAACTTTTCC GCTG	60.0	627	INTERGENIC	--	--	--
Ca1_P3_1836845	Ca1	1836845	TATTTTAATT/TATTTTAATTTTAATT	CATTGTCATACCGTTTC ACG	AGCACCACTTCTTCAT TCAAAA	60.0	704	INTERGENIC	--	--	--
Ca1_P3_1837155	Ca1	1837155	CAAAAA/CAAAAA	GGGAGCTACACATGCG TCTT	AAGCACCACTTCTTCA TTCAAA	60.3	686	INTERGENIC	--	--	--
Ca1_P3_1837913	Ca1	1837913	TA/TAA	TCGTA CTGATTAGTGAA GTGTGAGG	CAGTCAAATCGAAGCC ATCA	59.8	617	INTERGENIC	--	--	--
Ca1_P3_1838743	Ca1	1838743	TAAAAA/TAAAAA	AAGATGGGTCATAATTA AGGTGGA	ATGAGCCCAAAAGTAC ACCG	60.0	630	INTERGENIC	--	--	--
Ca1_P3_1839822	Ca1	1839822	TAAAAA/TAAAAA	TTCAC TCGATTATTGGT GGG	TTTGAAAACGATGCC ATAA	58.4	162	INTERGENIC	--	--	--
Ca1_P3_1841034	Ca1	1841034	TTTCTTCT/TTTCT	TCAAGGTGTTGATTGCG GTAGG	TTTGCAACCCGGTCT ATTC	60.0	595	INTERGENIC	--	--	--
Ca1_P3_1841061	Ca1	1841061	TAAAA/TAAAAA	TCAAGGTGTTGATTGCG GTAGG	TTTGCAACCCGGTCT ATTC	60.0	595	INTERGENIC	--	--	--
Ca1_P3_1841424	Ca1	1841424	A/AT	GAATAGACCGGTTGCA AAAA	CCTCTTCCGGACAAC ACAT	59.9	302	INTERGENIC	--	--	--
Ca1_P3_1841544	Ca1	1841544	A/AATGATTATTCGT	ATGTGTTGTCCGGA GAGG	TGAATCCGGAATAGAA CCGA	60.0	147	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 (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
Ca1_P3_18441535	Ca1	18441535	CCGGACGG/CCGG	TTGACTGAGCAAGGCA CAAG	TGGCATTGATGATGGC TTTA	60.2	382	INTERGENIC	--	--	--
Ca1_P3_1844205	Ca1	1844205	TTATG/T	TTGGGCGGAGAAAGTA AGAA	TCGACAACCATCTCCA TTCC	59.8	548	INTERGENIC	--	--	--
Ca1_P3_1847538	Ca1	1847538	TAA/TA	TGCCCCCTTCTTCTCCT ATT	CCCGACAGTGAGTCCA AGAT	60.0	188	DRR	Ca_00232	K	MYB
Ca1_P3_1847825	Ca1	1847825	TAGAA/TAGAAGAA	TGCCCCCTTCTTCTCCT ATT	GCTGCATGCTTTAGAG AAAGG	60.0	461	DRR	Ca_00232	K	MYB
Ca1_P3_1850030	Ca1	1850030	CAATTAATTA/CAATTA	GTTGTCCGTCCTTCCT GGTA	GGACAACCGAAGAGGA TCAA	60.0	563	INTRON	Ca_00232	K	MYB
Ca1_P3_18514111	Ca1	18514111	TTATATATATATATATATATATATATATATATAT T/TTATATATATATATATATATATATATATATAT T	CACATCAAAACACACAA TTGGA	GCAC TTGGAGTGGCCA ATAA	59.3	663	INTERGENIC	--	--	--
Ca1_P3_1852604	Ca1	1852604	TA/TAA	ACACGGCGTTCATTTTC TTC	CAAACCATGGGAGAGA GAGC	60.1	843	INTERGENIC	--	--	--
Ca1_P3_1858938	Ca1	1858938	GA/GACA	CTCCTTCAACCACAAGA GCC	TGATCCAATTGATGGC ACAC	59.8	677	INTRON	Ca_00233	FP	bHLH
Ca1_P3_18609095	Ca1	18609095	ATATTATTATTAT/ATATTATTATTATTA T	CCCTCTACGAATTCCAA AAGAA	CGATTTGCTTTCAATTT TGG	59.6	540	INTERGENIC	--	--	--
Ca1_P3_1862254	Ca1	1862254	TTAATAA/TTAATAATAA	TGCGTTGAAGAGGATG ACTG	TCATAATTTTGAGCCG GTCC	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 (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
Ca1_P3_18625845	Ca1	18625845	CACTAC/CAC	GGGGAGCTTCTAAAAG CCAT	TCCATCGATGATATGC CTCA	59.7	851	INTERGENIC	--	--	--
Ca1_P3_1865337	Ca1	1865337	TAGGAGG/TAGGAGGAGG	ATTGGGTATTGCAGAC GAGC	TGGTCACAGCAGTCAA TGGT	60.1	517	DRR	Ca_00234	--	--
Ca1_P3_18683661	Ca1	18683661	CTTATTATTATTATTATTATTATTAT TATTATT/CTTATTATTATTATTATTAT ATTATTATTATTATTATTATTATT	ACCTCCCGCTAATGTC AATG	ATCGTGGAACACCAAC CAAT	60.0	764	INTERGENIC	--	--	--
Ca1_P3_186939	Ca1	186939	TAA/TAAA	CTCTTGGGGGATCTTC ATCA	GCATGCCATGTAGTGC ATTT	60.0	329	DRR	Ca_00014	--	--
Ca1_P3_1871868	Ca1	1871868	CAAAAAAAAA/CAAAAAAAAAA	GGGCATAACAGTTCCA TGCT	TTCAAGAACATTGTGA CGCC	60.0	638	INTERGENIC	--	--	--
Ca1_P3_1875806	Ca1	1875806	T/TATA	TCCAAGGTGGGTCAAA AGAC	ACGTGTGTTTTAATTCG CCG	59.9	574	INTERGENIC	--	--	--
Ca1_P3_1876420	Ca1	1876420	AT/ATACGTAGTTCGGTTGAGT	CGGGTCTTCAAAATGG AATG	CAAAGGAAACGTGCTT CCAG	60.3	861	INTERGENIC	--	--	--
Ca1_P3_1882088	Ca1	1882088	CCA/CCACA	TTTTCAAGAAGTCGCAT CCC	TGTATCGGGGTCTGTC CAAT	60.2	269	INTERGENIC	--	--	--
Ca1_P3_1882286	Ca1	1882286	CTAAT/CT	CGCATCCCCATAATATG ACC	GGTGCAAAATGCAAGAG TCAA	60.0	653	INTERGENIC	--	--	--
Ca1_P3_18823381	Ca1	18823381	TTAATAATAATAATAATA/TTAATAATA ATAATAA	TCATCACAATGGTGGA AATCA	TAACCCAAAAATCCCA ACCA	59.8	388	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 (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
Ca1_P3_18824350	Ca1	18824350	GT/GTAGGAGGAGAT	GCGTTTTGAAAAATCG GTGT	TGAGGAGACAACAACC ACCA	60.0	296	INTERGENIC	--	--	--
Ca1_P3_1883449	Ca1	1883449	CTATA/CTA	GCACGTGGCCCACTTA TACT	ATGGAGTGAGTCGGCC ATAC	60.0	770	DRR	Ca_00237	A	--
Ca1_P3_18843377	Ca1	18843377	ATTTTTTTTT/ATTTTTTTT	TAGTGCAAGCCTGCTC AGTG	GGACAGCAACTCAGCA ATCA	60.3	392	INTERGENIC	--	--	--
Ca1_P3_18868658	Ca1	18868658	CGG/CGGGAATGG	AATCGATTGATTCAGCC CAG	CGTTTTTCAAAGCGAG GGTA	60.0	707	INTERGENIC	--	--	--
Ca1_P3_1890401	Ca1	1890401	AATATATATATATATA/AATATATATATA TATATATA	TTTCCTGAAGGAGGAT GGTG	TATCACTTGATCTCC GCCC	60.0	710	INTERGENIC	--	--	--
Ca1_P3_1894075	Ca1	1894075	GAAAAAAAAA/GAAAAAAAAA	TGCATTTTCATGCTTCAA ACAA	TGCACCATTGAAGAAA CCAA	60.2	324	INTERGENIC	--	--	--
Ca1_P3_1894477	Ca1	1894477	TATAATAATAATAATAATAATAATA ATAATAATA/TATAATAATAATAATAATA ATAATAATAATAATA	TGGTTTCTTCAATGGTG CAT	GCAGCTTTTCATGTG TCCA	59.0	298	INTERGENIC	--	--	--
Ca1_P3_19025184	Ca1	19025184	A/ATTG	CGGGATCCTTGAACCT GGTA	CTTGTGCAAAGGTTCC ATCA	59.9	533	INTERGENIC	--	--	--
Ca1_P3_19048181	Ca1	19048181	TAAAAAAAAA/TAAAAAAAAA	CTCTCCCTGGTTGTG TTGT	TGGTGAATAAGAGGGG ACAAA	60.0	102	INTERGENIC	--	--	--
Ca1_P3_1906299	Ca1	1906299	AAG/A	GCCATGTCTTCAGATG GTGA	TTGATTTGATCAGGTA ACGCC	59.6	566	DRR	Ca_00238	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 (°C)	Expected 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_P3_19152828	Ca1	19152828	ATTTTTTTTT/ATTTTTTTTTT	TCAGCTGAGACTGAA CTCAAAA	AGTGGCATAGGAGTGC CATC	59.3	406	INTERGENIC	--	--	--
Ca1_P3_19168	Ca1	19168	GCTCTCT/GCTCT	CAGAACCGAGGAATTA AGCG	AGGCTTGAAGCGTGGT AATG	59.8	637	INTERGENIC	--	--	--
Ca1_P3_1927607	Ca1	1927607	G/GA	TCCGAAGGGAAAGTGA AGAA	TTCAATGGTTGATGCC ATGT	59.8	626	INTERGENIC	--	--	--
Ca1_P3_1930262	Ca1	1930262	ATTTTTTT/ATTTTTTTTT	GGCAACATTTTACAAA GTAAAGG	AGTTTGATTAATGTCG GGCG	58.3	318	INTERGENIC	--	--	--
Ca1_P3_19422873	Ca1	19422873	CTTATTATT/CTTATT	GCCATAACCTAGCCC ATTT	TCGTGTCCCAAACTC AATG	60.2	713	INTERGENIC	--	--	--
Ca1_P3_19423044	Ca1	19423044	TAAAAAA/TAAAAAA	TCTTTGAGTTGTTAGGA TACAAGTGG	TCGATTATGCGTAGGG AAGG	60.0	728	INTERGENIC	--	--	--
Ca1_P3_19423865	Ca1	19423865	ATTATTTATTTATTTATTTA/ATTAT TTATTTATTTATTTATTTATTTA	ACCGTTTTTAACGGATG TCG	TGTTCAAACCGGGAG TAAG	59.9	525	INTERGENIC	--	--	--
Ca1_P3_19431535	Ca1	19431535	TCA/T	TCTGATGCAGTGTTC GCTC	GTGATAAAGGCGTCAA CGGT	60.0	688	INTERGENIC	--	--	--
Ca1_P3_19498678	Ca1	19498678	TTTTGATCCTTTGAT/TTTTGAT	GCCCGAGTTAACAACA AACG	ATCGATTTCCTCAGCA CTGG	60.5	374	INTERGENIC	--	--	--
Ca1_P3_19567652	Ca1	19567652	T/TCCCATGCC	CGAAGACCGAAATGCT GATT	GGTCAAACCGTCAAAA AGGA	60.2	321	INTRON	Ca_08866	J	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
Ca1_P3_1965007	Ca1	1965007	TG/T	CCACCCCAAGAAGAAA AACAA	TTTCCCAAGCCACTAA CCAC	59.9	704	DRR	Ca_00244	--	B3
Ca1_P3_19661093	Ca1	19661093	TTATATATATATATATATATATATATA TATA/TTATATATATATATATATATAT ATA	GGCCATCACAAATGGG TAAG	GGGAGTGGAGTTAATG GTCG	60.2	581	INTERGENIC	--	--	--
Ca1_P3_19673403	Ca1	19673403	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATA	TGTAGGTGATCCTTCC ACCG	AGGGACTTCGTCCCCT TAAA	60.9	508	INTERGENIC	--	--	--
Ca1_P3_1969241	Ca1	1969241	AAATTAA/AAA	AGAAGAGAACGGTTGC GTGT	GAAACTACACGGCC AAAA	59.9	604	INTERGENIC	--	--	--
Ca1_P3_1969508	Ca1	1969508	ATT/ATTT	TTTTGGCCGTGGTAGT TTTC	ATATTAGTTGTGGGCG CGAG	60.0	519	INTERGENIC	--	--	--
Ca1_P3_1969676	Ca1	1969676	TGG/TGGGG	TTTTGGCCGTGGTAGT TTTC	TTCGAATTTTCCCGTA CCTG	60.0	724	INTERGENIC	--	--	--
Ca1_P3_1971360	Ca1	1971360	GTTAAATTTTA/GTTAAATTTTAAATTT A	CTGCATTTTGAGCCACT TGA	TTATTCCACAAGCAAT GCGA	60.0	724	INTERGENIC	--	--	--
Ca1_P3_1971572	Ca1	1971572	AA/AAGAAATGCA	ATGTGCATCACCTCTGA CGA	GCTGCCATGGAGGTAG TCAT	60.3	807	INTERGENIC	--	--	--
Ca1_P3_1972044	Ca1	1972044	ACTTCTTCT/ACTTCTTCTTCT	GCCCTCAGCCTCACTT TATG	AGGGAGGCTACGAAC GATT	59.8	356	INTERGENIC	--	--	--
Ca1_P3_1973631	Ca1	1973631	TG/T	TTTTTGACAAGGCAGT GCAG	CAGCCACTGAAAGTAA CGCA	60.0	290	INTRON	Ca_00246	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 (°C)	Expected 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_P3_19752414	Ca1	19752414	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	TTTTCGATATCTCAAT TTCTCTTCA	TACATTAACCTCGCGGG AACC	59.7	277	INTERGENIC	--	--	--
Ca1_P3_1979080	Ca1	1979080	CTTCTTA/CTTCTTAGTTCTTA	CGTAGGGAGGAGGTTG TTGA	TAGTGACGACTTGGGC ACAG	60.1	481	INTERGENIC	--	--	--
Ca1_P3_1981299	Ca1	1981299	AATATATATA/AATATATATATA	GGCAACGAACAACAAG GTTT	TGTTGAAATTTGGAATT CATGT	60.0	565	INTERGENIC	--	--	--
Ca1_P3_1981984	Ca1	1981984	ATG/ATGTTAGAGATTAAATTG	TGTCATTTTGACAGTAT CATTTTGATT	GGATAGCTTTGGCTGT CTCG	60.1	316	INTERGENIC	--	--	--
Ca1_P3_1987558	Ca1	1987558	ATAGTAG/ATAG	GTGGCATAGGCTCCAA TCAT	GGAATGGTGCTGGACA TTTT	59.9	922	DRR	Ca_00248	T	--
Ca1_P3_1989750	Ca1	1989750	TC/T	AGCCCTTTGTTCTTTTG GGT	TACCATCGCCATTGAA ACAA	60.0	474	INTERGENIC	--	--	--
Ca1_P3_1989852	Ca1	1989852	AAA/AAATAA	TTGGGCTTATTGGGTC ACTC	TATCCAATCCCAACCC AAAA	59.9	115	INTERGENIC	--	--	--
Ca1_P3_19903627	Ca1	19903627	TA/TAATTGGCAGCA	TGGGCTGAAAAGCAAC TTCT	ACCAGTGCTGTTCCCA AATC	60.0	233	INTRON	Ca_08847	K	--
Ca1_P3_1992977	Ca1	1992977	TAC/TACAC	AGCCTGCACCTGCACT TAAT	ATTATCGGCATTCAAG GTGG	59.9	185	INTRON	Ca_00249	CR	HB-other
Ca1_P3_1998783	Ca1	1998783	GAAAAAAAA/GAAAAAAAAA	CTAGCACCTTAGGGG GAGG	CGACCGATATTCGTCC ACTC	60.1	686	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
Ca1_P3_2003340	Ca1	2003340	ACT/A	GTGTTTGGGTTTCGCA GTTT	CAATTGCAAGCAACAC GTTTA	60.0	604	INTERGENIC	--	--	--
Ca1_P3_2004325	Ca1	2004325	AC/ACCATC	TACCTGGTGTCAATGCT TGG	CATATCCTCATGGCAG TCCC	59.6	625	INTRON	Ca_00252	--	TCP
Ca1_P3_2004592	Ca1	2004592	T/TA	TCAGCAGTTGCTACCT CCCT	CGCCAAGAACAATAAT GCCT	60.0	447	INTRON	Ca_00252	--	TCP
Ca1_P3_2007237	Ca1	2007237	GGTG/GG	TCTCTCACCCAAAC ACA	TGTGAATTTTGCCACT CAAA	60.1	741	DRR	Ca_00252	--	TCP
Ca1_P3_2008759	Ca1	2008759	GCCCC/GCC	ATCTTGTCAACGCGAG TCTT	TGGTATGTATGAAGAA ATCCGAA	59.9	181	INTERGENIC	--	--	--
Ca1_P3_20097334	Ca1	20097334	CNNNNNNNNNNNN/CNNN	TTTCGTTTGCGATAGT ATCC	TCATTCAAGATCCTG GTTCC	60.1	250	INTERGENIC	--	--	--
Ca1_P3_2010658	Ca1	2010658	CTATAT/CTATATAT	TTGGAGACAACACAAT GGGA	TTGCCCTGATGGTGTC AGTA	59.9	656	INTERGENIC	--	--	--
Ca1_P3_2015582	Ca1	2015582	TTGT/TT	CTCTAGAACCCCAAC TCCC	CTCCAATGTTGGGAGA CTACG	59.9	499	DRR	Ca_00253	E	--
Ca1_P3_2016428	Ca1	2016428	GAAAA/GAAA	TCTCTTTGACCCTTGG CAC	GCAACATGCATTTT GGTC	60.2	319	DRR	Ca_00253	E	--
Ca1_P3_2017039	Ca1	2017039	GAAAGNNNNNNNNNAAAG/GAAAG	ATCATCATTGCTCTGCT CCC	TTGTTCTGAAACGTGG GTGA	60.2	289	DRR	Ca_00253	E	--

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 (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
Ca1_P3_2019732	Ca1	2019732	ATTTTT/ATTTTTTT	AACTCAACCGGAGGTC CTTT	GCACATTAGGTGTGG AGCA	60.0	745	INTRON	Ca_00254	FP	bHLH
Ca1_P3_2055085	Ca1	2055085	ATTTTT/ATTTTTTT	CCTGTTATTTGCGTGCT TCA	TCACATTCATGCCAGT TGGT	59.9	495	DRR	Ca_00260	T	M-type
Ca1_P3_2056660	Ca1	2056660	CATTGAAATTGAAATT/CATTGAAATT	TGAAATGTTACGGCTT GCTTT	ATTGACAACGTCCTTC CACA	59.8	465	INTERGENIC	--	--	--
Ca1_P3_2057962	Ca1	2057962	GAAAAGTTA/GA	TGTGCATGAAAGCAAA ATTGA	GGCCGTGAAAGATATT TGGA	60.2	712	DRR	Ca_00261	--	--
Ca1_P3_2058843	Ca1	2058843	CAAAA/CAA	GAGAAAGGGGAGGAG GATTG	AGACTCTGCAGCCACC TCAT	60.0	357	DRR	Ca_00261	--	--
Ca1_P3_2073961	Ca1	2073961	CTTTT/CTTT	AGAGGCACGAGATTTC CAGA	AAATATCCCCGCAATA AGGG	60.0	336	CDS (FRAME SHIFT)	Ca_00263	T	M-type
Ca1_P3_2084021	Ca1	2084021	GAAAAAAAAA/GAAAAAAAAAAAAA	ATGCACACACGCTTT CTC	GGCAACTACTGGGCA TTGT	59.9	476	INTERGENIC	--	--	--
Ca1_P3_2085412	Ca1	2085412	AAGTTTTAT/AAGTTTTATAGAGTTTTAT	TTTTTGGGCTCACACAA TTT	CAATTGTCCAAACTCT TATCCAA	58.1	723	INTERGENIC	--	--	--
Ca1_P3_2085895	Ca1	2085895	GAAAAATAAAA/GAAAAATAAAATAA AAA	TGTTTTTGGATAAGAGT TTTGA	TCCTCAATCGCGTTCT TTCT	57.9	626	INTERGENIC	--	--	--
Ca1_P3_2088365	Ca1	2088365	AAACA/AA	ACAGCAACCAAGAGTT GTGC	CAGAAAAAGCTATTCA GGCCA	58.9	529	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 (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
Ca1_P3_2088423	Ca1	2088423	ATT/AT	ACAGCAACCAAGAGTT GTGC	GCAGGTGGCATCAATT TACC	58.9	548	INTERGENIC	--	--	--
Ca1_P3_2088688	Ca1	2088688	TT/TTGAATATTTAAATTAT	ACAGCAACCAAGAGTT GTGC	GCATCCGGCCAAAATA AATA	58.9	654	INTERGENIC	--	--	--
Ca1_P3_2099355	Ca1	2099355	ATTTTTTTTTTTT/ATTTTTTTTTT	GGAAAGGCTGAGGCTT AATAA	TTGGTAATTGAAGTTC TTTTGGA	59.7	738	INTERGENIC	--	--	--
Ca1_P3_2100521	Ca1	2100521	ATTT/ATT	TGATGTCAAATGATCTT GTCCTG	CAATGCGTGCCGTGTA ATAA	60.0	563	DRR	Ca_00267	D	NAC
Ca1_P3_2102738	Ca1	2102738	ATTTTTTTTT/ATTTTTTTTTT	GAGCCAAGTTGCTCCT TCAC	CACAGGCTTGTTGGAT AGCA	60.0	729	INTRON	Ca_00267	D	NAC
Ca1_P3_2113146	Ca1	2113146	TAAAAAAAAA/TAAAAAAAAA	TGTGGACACGTTAAGT TGTGG	TGATCTCGCCCTATTA TTCAAAA	59.5	409	INTERGENIC	--	--	--
Ca1_P3_2115049	Ca1	2115049	TAAAAAAAAA/TAAAAAAAAA	TGGACTAAAATGCTTT TTGGAA	TTAGAAAGAGCCACAC GCAA	60.0	897	INTERGENIC	--	--	--
Ca1_P3_2116628	Ca1	2116628	A/AC	TTGCGTTCATTTACGTT TGA	TCAATTCAC TTCATGC CCAA	57.8	636	INTERGENIC	--	--	--
Ca1_P3_2116994	Ca1	2116994	AGTGTGTGTGTGTGT/AGTGTGTGTGT GT	CATGGATGGCCACATA TCAA	TTGCAATTGTGCTTTT GCC	60.2	148	INTERGENIC	--	--	--
Ca1_P3_2118056	Ca1	2118056	CAGAG/CAGAGAG	CCATCAAATTCGTTGAT TTCC	GAAGCTTCTGCTCATT TGCC	59.3	311	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
Ca1_P3_2119695	Ca1	2119695	AATTTCTATTCTAT/AATTTCTATTCT ATTCTAT	TCCGACGTTTTTCAATT TCA	AATGGTGTCTGGGGAC ATT	59.1	176	INTERGENIC	--	--	--
Ca1_P3_2120405	Ca1	2120405	TTTAATTTAATTAA/TTTAATTTAATTAA TTTAATTAA	TGTATGGAAAGAGGTA AAATGGAA	AACGACAAATGTTGCC ATGA	59.0	532	INTERGENIC	--	--	--
Ca1_P3_2121780	Ca1	2121780	TA/TAAAAAAGAAAGA	AACGCAAAATCAAACAC CAA	TTGGCCAAATCACTGG TACA	59.1	752	INTERGENIC	--	--	--
Ca1_P3_2130717	Ca1	2130717	G/GAA	TCATTCTCTAGAACGCG GCT	TGCTTGTGGGATGAAT AGCA	60.1	350	INTERGENIC	--	--	--
Ca1_P3_2131678	Ca1	2131678	TAT/TATTGAT	AGGAATGCATCGAATC CAAG	CCACAAGTGCCATTCA GCTA	60.0	516	INTERGENIC	--	--	--
Ca1_P3_2132014	Ca1	2132014	G/GTGC	CATGGATGGTTAGCCC AAAG	AATGACCAACCCACAA GTGC	60.3	107	INTERGENIC	--	--	--
Ca1_P3_213789	Ca1	213789	TATAATAATAATAATAATAATAATA ATAAT/TATAATAATAATAATAATAA T	TACAGCATAGCCCAGC ACAG	GTTTCGGCGACGTAT TCAT	60.0	504	INTERGENIC	--	--	--
Ca1_P3_2140468	Ca1	2140468	TTTTA/T	GGATCAAATTTGTTGAC CTGG	AACCGTCCCATGTGGT AACT	59.3	513	INTERGENIC	--	--	--
Ca1_P3_21595611	Ca1	21595611	TTATATATATATATATATATATATATA TATATATATATATATA/TTATATATATAT ATATATATATATATATATATATATA TATATATA	GGCATTATGTCACCC ACTT	TGTCAGTCCGTAGGA CGAA	59.7	512	INTERGENIC	--	--	--
Ca1_P3_21607967	Ca1	21607967	CTTTTTTTTTTT/CTTTTTTTTTT	GTGTTGGTGTGTTGAC GCAC	TCATCAAATTCGTAAC GCAAA	60.1	593	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome- <i>CDC Frontier/PII</i>)	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
Ca1_P3_21673033	Ca1	21673033	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAA/AAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAA	TGGAAAGAACTACAA AGCAAA	TTTGCAACCCACTCTT GAA	59.0	311	INTERGENIC	--	--	--
Ca1_P3_2169418	Ca1	2169418	CTATTATTATTATTATT/CTATTATT ATTATTATTATTATT	TCGCTGAAAAGAAAG GTGA	ATGTAGTGATGGGAT GGGA	58.6	509	DRR	Ca_00273	Z	--
Ca1_P3_21746056	Ca1	21746056	AC/ACACATATCAGCTTTC	CTATTGCCCCCTCCTC CTAC	TACCGATACCTCCAAG TGCC	59.9	585	INTRON	Ca_22116	S	--
Ca1_P3_21772275	Ca1	21772275	CATATATATATATAT/CATATATAT ATATATAT	CTTTTGCTCCCCATCC TCA	AAAACTGAGACGAAAA AGTTGTCC	60.0	342	DRR	Ca_22115	--	MYB
Ca1_P3_21862084	Ca1	21862084	ATT/ATT	CGTATGTTCTCCACGA CCTG	TGTTTTGAATTGCATC GAGA	59.2	941	INTERGENIC	--	--	--
Ca1_P3_21862720	Ca1	21862720	TTATATATATATATATATATATATA TA/TTATATATATATATATATATAT ATATATATA	TCTCGATGCAATTCAAA AACA	GGATGATCATGTCCAC CCTC	59.3	257	INTERGENIC	--	--	--
Ca1_P3_21938049	Ca1	21938049	CACTGAGTCCAGA/CACTGAGTCCAGA CTGAGTCCAGA	TGTCAAAGGCCAAGAT TCCT	CCTCACATCAAGAGCA GCAA	59.7	526	INTRON	Ca_22106	--	MIKC
Ca1_P3_21970751	Ca1	21970751	AAATAATAATAATA/AAATAATAATA ATAATAATA	TGAATAATGAATGCCAC CCA	TCCTCAATTTTGCCC GTTA	59.7	529	INTERGENIC	--	--	--
Ca1_P3_21999732	Ca1	21999732	AGGGGG/AGGG	CGCCTTTGGCTATTCAT CAT	TCCCTTATTGCCCAAA CATC	60.1	492	DRR	Ca_22101	R	MYB
Ca1_P3_22029011	Ca1	22029011	TTATATATATATATATATATATATA /TTATATATATATATATATA	CGAATCTTACCCTCTT TGG	GCCGGATCCAAAATCA AAAT	59.7	839	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
Ca1_P3_22131328	Ca1	22131328	AATATATAT/AATATATATAT	GTGTGGACATGCCTAA AACG	GTTGCAATTGAGGTGC TGAA	59.1	403	INTERGENIC	--	--	--
Ca1_P3_22131513	Ca1	22131513	GAAAAA/GAAAA	GTGTGGACATGCCTAA AACG	GTTGCAATTGAGGTGC TGAA	59.1	403	INTERGENIC	--	--	--
Ca1_P3_22201000	Ca1	22201000	TAAATATACAAAATATA/TAAATATA	GCTTTACCCCCAACAC GTAA	TCACAGATCAGCGCTA CACC	59.9	531	INTERGENIC	--	--	--
Ca1_P3_22204858	Ca1	22204858	TTATATATATATATATATAT/TTATAT ATATATATATAT	TGACATTTCGAACTGA GTTTCC	CACAAGTCGCCATTG GAAT	60.5	532	DRR	Ca_20635	--	TALE
Ca1_P3_2222887	Ca1	2222887	AATATATATATA/AATATATATATATA	TTGCGTAGTATGGGAA AGTCAA	CTCCCGTAACTCAAT CCAA	59.6	774	INTERGENIC	--	--	--
Ca1_P3_22298046	Ca1	22298046	CTAA/CTAATAA	TGAAATTTAGATGATTG CCGC	GATTTGCATATGGGTG GTCC	60.1	821	DRR	Ca_20631	--	SAP
Ca1_P3_2236260	Ca1	2236260	TAGGAG/TAG	TTCAAGCTGCAAACAA GTGG	CTCAAGGACGGAATT CAAA	60.0	182	INTRON	Ca_00279	F	--
Ca1_P3_22415512	Ca1	22415512	AATATATATATATA/AATATATATATATA TA	TTTTTGATGTACAAGTT AGCACCA	CCACAGTTGCAACAAA GAATG	58.8	519	INTERGENIC	--	--	--
Ca1_P3_2249259	Ca1	2249259	AGT/A	AACACATGGATGTGGG GATT	AACATTTTACGCCTTC GGTG	59.9	284	DRR	Ca_00281	O	--
Ca1_P3_2250936	Ca1	2250936	GA/GAA	TGAATATCCAGAGATC GCC	CATTGCCCTTTCACCC TTTA	60.0	858	INTRON	Ca_00281	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 (°C)	Expected 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_P3_22513646	Ca1	22513646	ATGT/ATGTGT	ACCAGCATGATGACCA GACA	GACGCCTGACGGTTAT TGTT	60.1	676	INTERGENIC	--	--	--
Ca1_P3_2257348	Ca1	2257348	TTAATTACTAATT/TTAATT	AGCTCCCATGATTTTGT TGG	TCACAAAAAGAGATTC GCTTGA	59.9	718	INTERGENIC	--	--	--
Ca1_P3_22621219	Ca1	22621219	TAAAAAAAAA/TAAAAAAAAA	CATTTTCTCTGCACA ACG	GCCGTCTTTTAGAAAC ATCGT	59.3	409	INTERGENIC	--	--	--
Ca1_P3_2263763	Ca1	2263763	T/TTAA	CATACACACCCACAA CCAA	CGGATGTGGTGACTCA TTTG	60.1	391	INTERGENIC	--	--	--
Ca1_P3_22663917	Ca1	22663917	CAA/CAAAA	CAAATCAGCAACAGCA GGAA	CGATCCACCTCTAAC CAAC	60.0	666	INTRON	Ca_20616	--	bHLH
Ca1_P3_2273946	Ca1	2273946	CTTT/CTTTT	TTCCATTGTCCTTGTTG GAT	AACCACACACAACAGC CAAA	60.2	738	INTRON	Ca_00285	A	MYB_related
Ca1_P3_2280712	Ca1	2280712	A/AG	CCTTCGTTTTCATGCCT GTT	AACTGCTTTGAAGCAC CGTT	60.1	779	DRR	Ca_00285	A	MYB_related
Ca1_P3_22877317	Ca1	22877317	GTTTTTTTTT/GTTTTTTTTT	AGTGATACTGTGTTTGA TTTCCTTT	TTCTTCTCTCCAAGTG CGG	57.5	606	INTERGENIC	--	--	--
Ca1_P3_22885854	Ca1	22885854	TTA/TTATA	TGATTGGGGTTTGG GTAA	GGGTGAGTTCTTTGAG GGTG	60.0	531	INTERGENIC	--	--	--
Ca1_P3_22886112	Ca1	22886112	GAA/GAAA	TGATTGGGGTTTGG GTAA	GGGTGAGTTCTTTGAG GGTG	60.0	531	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
Ca1_P3_22896361	Ca1	22896361	CAAAAAAAAA/CAAAAAA	TGTTGTGTGAAGTATTGGA	GCGATGTAGAATCGGGTGT	59.1	481	INTERGENIC	--	--	--
Ca1_P3_2293523	Ca1	2293523	CATATATATATATATATAT/CATATATATATATAT	TTCCCAAACATAACCCAGAGA	CCTTTGATCCGACTGTGTT	60.2	618	INTRON	Ca_00287	--	--
Ca1_P3_23006705	Ca1	23006705	GC/GCC	TTAATGAGGGGCTGAATTGG	GTTTCGAAGCGAAAACTGC	59.9	426	INTERGENIC	--	--	--
Ca1_P3_23011755	Ca1	23011755	AC/ACCAGGGCATTGGC	GCCAAGCAAGGTCTTACTGC	CCTTCAACTATTTGCA GCCC	60.0	106	INTERGENIC	--	--	--
Ca1_P3_23012426	Ca1	23012426	TTATATATATATATATATATATAT/TTATATATATATATATATATAT	ACCATTAAAGTCGACCTT CACA	ATATCGAGGCTGGTCC AACA	57.2	729	INTERGENIC	--	--	--
Ca1_P3_2313379	Ca1	2313379	GTTTT/GTT	GCCAAAGGCATTCATTGTTT	TGTCTACTAAAAGGGTTC CCG	59.9	528	INTRON	Ca_00290	--	--
Ca1_P3_2315915	Ca1	2315915	AACGTTACG/AACG	ACCGTCGGAGACAAAAACAC	AGCAAACAAGCAAAGC CAAC	60.0	412	INTERGENIC	--	--	--
Ca1_P3_2317093	Ca1	2317093	TG/T	TTGTGGTTGGTGGTGA TGTC	CCTGGGTACATCATAA CATTTTTTC	60.3	664	INTERGENIC	--	--	--
Ca1_P3_2324181	Ca1	2324181	TAAAA/TAAAA	TGGGCTCAACAAAGCTTAC	TCTTGGAAGTGCTCAG CTTAAT	60.2	668	DRR	Ca_00291	V	NAC
Ca1_P3_2324632	Ca1	2324632	ATTTTTTTT/ATTTTTTTTTT	TTAAGCTGAGCACTTCCAAGA	GAATCCGAAACCAACAC GAAT	57.9	523	DRR	Ca_00291	V	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 (°C)	Expected 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_P3_2332780	Ca1	2332780	CTT/CT	CAAAAATGGCACATGC AAAG	TTACCAATTCCGTGT TTCA	60.1	399	INTERGENIC	--	--	--
Ca1_P3_2332911	Ca1	2332911	GAAA/GAAA	CAAAAATGGCACATGC AAAG	TTACCAATTCCGTGT TTCA	60.1	399	INTERGENIC	--	--	--
Ca1_P3_23386171	Ca1	23386171	GTTATTATTATTATTATTATTATTAT TATTATTATTATTAT/GTTATTATTATTA TTATTATTATTATTATTATTATTAT	ACAAGAATGGCAAATG GAGC	TTTGCCCACTAACTC TTGG	60.1	537	INTERGENIC	--	--	--
Ca1_P3_23426237	Ca1	23426237	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATATATAT	AAGTTAAGGAACCACG AGTGC	AAACATGTTGTTGATG CGTACA	58.4	256	DRR	Ca_19317	--	--
Ca1_P3_2344725	Ca1	2344725	GTTG/GTTGTAATTG	TCACTCCATCACAACCA TTCA	GGGGCCATAGATTCTC AACA	60.0	552	INTERGENIC	--	--	--
Ca1_P3_2348339	Ca1	2348339	CACCCTA/CA	ATCTTTTGTTTGCCCCA CAG	GCCTGTAGTGGAGTTT TGGG	60.0	661	DRR	Ca_00295	--	Dof
Ca1_P3_2348529	Ca1	2348529	TAA/TAAA	ATCTTTTGTTTGCCCCA CAG	GCCTGTAGTGGAGTTT TGGG	60.0	661	DRR	Ca_00295	--	Dof
Ca1_P3_2351581	Ca1	2351581	GAAAAA/GAAAAA	TCTTGCATTCTCGTTT ACACAA	GCTTTGATTTTGCTTC GTCG	59.8	279	INTERGENIC	--	--	--
Ca1_P3_23516838	Ca1	23516838	CAAAAA/CAAAAA	GGAATCCAAACCAAAA CCCT	TTGGTGTGTTTGT GGAA	60.0	634	INTERGENIC	--	--	--
Ca1_P3_2352395	Ca1	2352395	TTGT/TT	CCTTTGGAAAAGAAAAT GTAGAATG	AAACAAGCAGCTTCTC TGCC	59.5	336	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 (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
Ca1_P3_23565928	Ca1	23565928	AA/AACATCATATTA	GCGGTTAAGCCAATTT GAG	TGGTGTAACGAGCATC AACA	59.7	450	INTERGENIC	--	--	--
Ca1_P3_23569704	Ca1	23569704	ATATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT/AT ATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT	GCTATTGAATGCGTCTT TCG	TTCAAATTGTGGCGAC TTTG	58.5	876	INTERGENIC	--	--	--
Ca1_P3_2358909	Ca1	2358909	ATTT/ATT	TTCATCAAGAGACAAGT GAACCA	AATAGGCGCGAATTTA GGGT	59.8	516	DRR	Ca_00296	L	--
Ca1_P3_2363035	Ca1	2363035	AGGG/AGG	TTGGCTTCTTGTTCTG CTT	CTTTGTGTCATCGCAT CACC	60.0	584	INTERGENIC	--	--	--
Ca1_P3_2363092	Ca1	2363092	CTTATAT/CTTATATTATAT	TTGGCTTCTTGTTCTG CTT	CTTTGTGTCATCGCAT CACC	60.0	584	INTERGENIC	--	--	--
Ca1_P3_2364127	Ca1	2364127	TAAAAA/TAAAAA	CCCAACAAGCCATAAA GCAT	ATCTCGATACAACGAT CGCC	60.0	595	DRR	Ca_00300	--	--
Ca1_P3_23643612	Ca1	23643612	TAGAG/TAG	TCGGAATGGTCTGACA TCAA	CAATAGGTGGAGGTGC GATT	60.0	830	INTERGENIC	--	--	--
Ca1_P3_23651952	Ca1	23651952	TTATATATATATATATATATAT/TT ATATATATATATATATATAT	GCGTAGTGGTAGCCTT TTGG	AGTTGGATGTTGGGGA ATCA	59.8	582	INTERGENIC	--	--	--
Ca1_P3_23683980	Ca1	23683980	A/AAAGGAAGGAGCGTAGCAC	AAAATGAGGAAAGAG TCATAAAAA	CGTTGACCAATGCAAA AGAG	58.7	101	DRR	Ca_19303	R	MYB
Ca1_P3_2370923	Ca1	2370923	CA/CAA	CTATGGAAAATGCTCC CGAA	CCGAAACTCACAATGA ACCA	60.0	507	INTRON	Ca_00301	DR	--

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 (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
Ca1_P3_23722429	Ca1	23722429	CAAAAAAAAA/CAAAAAAAAA	CTTTTACAGCGCTTTT GGG	AAGAACAGAGGGAACG CAGA	59.9	395	INTERGENIC	--	--	--
Ca1_P3_23736065	Ca1	23736065	TACAAAAATAA/TA	GAAGGCCAAGAAATGA CCAA	CATGCTGAGAAATAAA GTTGCG	60.1	712	INTRON	Ca_19300	--	SAP
Ca1_P3_2376563	Ca1	2376563	CG/C	GCAATTTCTGAAAGGT GGGA	ATGAATTGTGCTGCTT GCTG	60.1	583	DRR	Ca_00302	R	NAC
Ca1_P3_23776181	Ca1	23776181	C/CTTATA	CGACAAATGGTTGTGG AGTG	CTTGTTAACCGGACGG ATCT	60.0	785	INTERGENIC	--	--	--
Ca1_P3_23784964	Ca1	23784964	ATTTTTTT/ATTTTTT	GTCAACCAATTGACCC CAAC	TGCCAAGAAAACACCA TGAA	60.1	663	INTERGENIC	--	--	--
Ca1_P3_23824031	Ca1	23824031	AAG/AAGCCTAG	CCAAGGAAGGACGAAA ATGA	TTTTCGGTGATTCAAAA GCC	60.0	390	INTERGENIC	--	--	--
Ca1_P3_23838777	Ca1	23838777	ATGTGTGTGTGT/ATGTGTGT	AATGCCCAACCATAATT TCA	TGTACGAGAAGGTCGT GTGC	60.0	593	INTERGENIC	--	--	--
Ca1_P3_2386580	Ca1	2386580	GTATATATATATATATATATATAT ATATATATAT/GTATATATATATATATAT ATATATATATATAT	TCCCGTGTTTGTTTATC TATCA	TGAGACACGTGTTTTT AACCG	57.2	207	INTERGENIC	--	--	--
Ca1_P3_23881803	Ca1	23881803	CA/CAA	CCATTTTCATTGTCGCG TTT	TACCGCGACCGACTCT ACTT	60.1	747	INTERGENIC	--	--	--
Ca1_P3_23966814	Ca1	23966814	GA/GAA	AACTGTGGAGGAATCC ATGC	GCTTCAAGTCTTGCTA CGGG	59.9	490	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
Ca1_P3_24030518	Ca1	24030518	CG/CGTGTG	CCAATTCAAAGCTCCC AAA	CAGATCCTCCTTTCCC AACA	60.0	424	DRR	Ca_19291	OK	--
Ca1_P3_2406732	Ca1	2406732	GAGAAGAAGAA/GAGAAGAA	CACGCAAACTGAATT TGG	ACAAAAATGGGTCCCT CCTT	60.1	777	INTERGENIC	--	--	--
Ca1_P3_24098971	Ca1	24098971	GATATATATATATATATATATATATA TATA/GATATATATATATATATATATA TATATATATATATATA	AGGCATGGTGTGGAG TCAT	TGCATTTTCCACGTC AAG	60.4	526	INTERGENIC	--	--	--
Ca1_P3_2411747	Ca1	2411747	T/TA	TGTGTCTTGTGGGA AACA	TGACGCTTTTGAAGCA GTTG	60.0	547	INTERGENIC	--	--	--
Ca1_P3_2412541	Ca1	2412541	TTTATTA/TTTA	AGGACAATAGGACGAG GCAA	AGTCACAGAGCATGCA CCAC	59.7	436	INTERGENIC	--	--	--
Ca1_P3_24154735	Ca1	24154735	ATTTTT/ATTTTTT	GGGTGCCATCATAAGC AAGT	CAGATACTGCAGCCTC CACA	60.0	516	INTERGENIC	--	--	--
Ca1_P3_2416502	Ca1	2416502	GA/G	CAAAATCAGTCGCATGT TGG	TAGCCTTTTGTGGTT GGC	60.1	248	INTERGENIC	--	--	--
Ca1_P3_24180187	Ca1	24180187	TAAAAAAA/TAAAAAAA	TTGCATCGATCATTGTT GAC	GAGTTGTTGTTCTTCC AACCAA	58.0	642	INTERGENIC	--	--	--
Ca1_P3_24242300	Ca1	24242300	TAAAAAAAAA/TAAAAAAAAA	ACCAACTCATCCCTTTC CCT	ATGATTGCAGCATTTC ACGA	59.8	638	INTERGENIC	--	--	--
Ca1_P3_24392807	Ca1	24392807	CAAATT/C	CCGAGCATCGATTGG TAAT	TGATGGTGAAAGTGGG TTGA	59.9	376	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 (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
Ca1_P3_2446992	Ca1	2446992	CAAA/CAAAA	TGGA CT CAT CAT GGAT CGAA	GTAGGTGGGTCCACCA TGTC	60.0	470	INTERGENIC	--	--	--
Ca1_P3_2447611	Ca1	2447611	ATTAGTTTTA/ATTTA	CTGTGGTCCCATCCA TTAC	AGAAATTTGAGATTAC CCTTTTCA	60.1	387	INTERGENIC	--	--	--
Ca1_P3_2447832	Ca1	2447832	CCTTC/CCTTCTTC	CTGTGGTCCCATCCA TTAC	AACTGGATAGGGAGAA TTTTGTT	60.1	751	INTERGENIC	--	--	--
Ca1_P3_2452489	Ca1	2452489	CTTTT/CTTTTT	TTGCAAAGCTGTTGAG GTTG	TTACCGTGAGACGAAG GGAC	60.0	347	DRR	Ca_00310	--	--
Ca1_P3_2452798	Ca1	2452798	TAT/TATCAT	GTCCCTTCGTCACG GTAA	TCAAACACGCACATAA AAAGG	60.1	729	DRR	Ca_00310	--	--
Ca1_P3_24719200	Ca1	24719200	AATATATATATATATATATATATATAT ATATATA/AATATATATATATATATATAT ATATATATATATA	TCCTTGTTCACGGTC AATG	ATTATTTCTGTTCGG GGGA	58.7	661	DRR	Ca_18334	--	--
Ca1_P3_24801961	Ca1	24801961	CTTTTTTTTT/CTTTTTTTTT	TTTCAATGATGTTGGGT TGC	CAGCATATCCCAACA AAAGA	59.4	998	INTERGENIC	--	--	--
Ca1_P3_24856702	Ca1	24856702	TCATA/T	TTGGTTGGGTTTGTGA TGAG	TTGGGCAGGTA AAAAC AACTTT	59.4	183	INTERGENIC	--	--	--
Ca1_P3_25004655	Ca1	25004655	TC/TCCTGGAGCGC	ACTTTCATGAAGACACC GGG	CTTCGAATCCAACCTT GGTG	60.0	586	INTERGENIC	--	--	--
Ca1_P3_2529049	Ca1	2529049	AATATATATATATATATA/AATATATA TATATATATA	GTCCACTATGGTCGAA GCCT	AACGCAAGACGAAGCT GTTT	59.2	657	DRR	Ca_00315	R	WRKY

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
Ca1_P3_25296360	Ca1	25296360	GAAAAAAAA/GAAAAAAAAA	GGCGATTCTATGTCCA TTGC	TCAACAAATCACAGG CCAC	60.4	697	INTERGENIC	--	--	--
Ca1_P3_25296432	Ca1	25296432	CTTT/CTTTT	GTTGGTGGCTGGACTC AGAT	TTCCCTAGTTGTTTGG GTGC	60.1	817	INTERGENIC	--	--	--
Ca1_P3_25376447	Ca1	25376447	ATTTTTTTTTTT/ATTTTTTTTTT	AGCGACGACAAGTCAC TGAG	TCATTGTTTGTGTTTG GCGT	59.2	719	INTERGENIC	--	--	--
Ca1_P3_25381451	Ca1	25381451	AC/A	TTTAAGCCCTTATCCC GGT	ATGGCGGCATAGTATC AAGC	59.8	455	INTERGENIC	--	--	--
Ca1_P3_25382154	Ca1	25382154	GAA/GAAA	GAATCACTAGGCTTGC CAGG	GGGGTGAGAGAACGTT TGAA	59.8	714	INTERGENIC	--	--	--
Ca1_P3_25382333	Ca1	25382333	AAC/ATGGCTAC	CAAATGCCACACATTTA ACGA	GGGGTGAGAGAACGTT TGAA	59.5	255	INTERGENIC	--	--	--
Ca1_P3_25437512	Ca1	25437512	AATATATATATATATATATATATAT ATATATATATATAAATATATATATAT ATATATATATATATATATATATATATA TATA	GACTTTGATGCAAGTCA CCG	CTCCCATCAGTTTAAT CGGC	59.3	875	INTERGENIC	--	--	--
Ca1_P3_25477131	Ca1	25477131	AATTATT/AATTATTAATAATTATATT	CCCATGCATGCTTCATA GAG	TTCTCGAAGATCCGAC AGGT	59.3	782	INTERGENIC	--	--	--
Ca1_P3_25509778	Ca1	25509778	AATATATATATATATATATATATAT ATATATATCTATATATATAT/AATATATA TATATATATATATATATATATATATAT ATATATATATCTATATATATAT	ATTTTGCTCGGAGGT TTTT	GTTTTCGAATCAACGA GGGA	59.9	550	INTERGENIC	--	--	--
Ca1_P3_25519824	Ca1	25519824	CAGACCCA/CAGACCCAAACATAAGAC CCA	TCAGGGACAAAATTGC ATGA	CGTTCCTCTGAAGGTT ACGAA	60.0	382	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
Ca1_P3_25629959	Ca1	25629959	AATATATATATATATATAT/AATATATAT ATATATATATAT	CAAAAATCCTTCGGCG AATA	ATTTCACTCATGCCTC CACC	60.0	895	INTERGENIC	--	--	--
Ca1_P3_25786546	Ca1	25786546	TACTC/T	ATCGATTTCGCGAGTC TTGT	GGAGAGTAATCGATTG GGCA	59.8	531	INTERGENIC	--	--	--
Ca1_P3_25796612	Ca1	25796612	GAAAAAAAAA/GAAAAAAAAA	GTGCCCCAACTACT TTCA	AAGTCCCGGTAAAGTT GAGC	60.0	638	INTERGENIC	--	--	--
Ca1_P3_25875193	Ca1	25875193	CAAA/CAAAA	GAGTGTTAGTAGGCGG CAGG	CTAGGGGTCCTTCCTT TTGG	59.9	576	INTERGENIC	--	--	--
Ca1_P3_26034127	Ca1	26034127	TAAAAAAAA/TAAAAAAAAA	TAACCAAAATGCCACAA CGA	TATGATCCACCACCGA CTCA	60.0	835	DRR	Ca_18591	--	SBP
Ca1_P3_26133146	Ca1	26133146	CTT/CTTGGCTTT	GCCGAACCCCTTTCTC CTAC	CCACAACAAAACGAAA GATCAA	60.1	241	INTERGENIC	--	--	--
Ca1_P3_26246371	Ca1	26246371	C/CG	GCGCCTTAAAGGATT TCC	CCGTGATAGGCAGTA CGTT	60.0	873	INTERGENIC	--	--	--
Ca1_P3_26279948	Ca1	26279948	ATTTTTTT/ATTTTTTT	GTTTTGAAAGCAGCCT GGAG	TGCTTGATGGCAAAAA CAGA	60.0	653	INTERGENIC	--	--	--
Ca1_P3_2633537	Ca1	2633537	CTTTTTTT/CTTTTTTT	GGACAATTGTTTTAAAT GTGATGG	TCACGCTTCGACTAAG CAAA	59.5	709	INTERGENIC	--	--	--
Ca1_P3_26377123	Ca1	26377123	ATTTTTTT/ATTTTTTT	TGTTCTAGATGGGGTT TGCC	GCCACTATCCAACAAA TGCC	59.9	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
Ca1_P3_26447765	Ca1	26447765	ATATTATTATTATTATTATTATT /ATATTATTATTATTATTATTATT TATTATT	AAATAGGGCCACACCA AAAA	TTAAATCGGAGGTATG GGGA	59.3	320	INTERGENIC	--	--	--
Ca1_P3_26447923	Ca1	26447923	CACATATCTG/C	AAATAGGGCCACACCA AAAA	GTAAATGGGTATGGGA CGGG	59.3	420	INTERGENIC	--	--	--
Ca1_P3_26463148	Ca1	26463148	CTTTTTTT/CTTTTTTTTT	GGCTAAATTACATTTGT GGTCCC	AAACGCGAAAATTAGA AACAAGA	60.8	551	INTERGENIC	--	--	--
Ca1_P3_26473008	Ca1	26473008	CTAAATT/CTAAATCTGTAAATT	CCATTGACCCTTGCAAA CTT	CTGCAGGAAGCTAAAA TCCG	60.0	368	DRR	Ca_18608	R	NAC
Ca1_P3_2653521	Ca1	2653521	T/TC	GGTGGGTGACCCTCAC TTTA	CATTCCAGTTAGTTGA ACGGGT	59.8	525	INTERGENIC	--	--	--
Ca1_P3_2655382	Ca1	2655382	CTTT/CTT	TCCGTGGAAATGAACC TAGC	CGCGTGATGATTGCTA AAAA	60.1	228	INTERGENIC	--	--	--
Ca1_P3_2656323	Ca1	2656323	TTATTATTATTATTAATATTATTAT/T TATTATTATTA	TTGCACAATTTCTGATT GGC	GATCATTGCATCCCA TTCT	59.7	569	INTERGENIC	--	--	--
Ca1_P3_2656475	Ca1	2656475	A/AG	TTGCACAATTTCTGATT GGC	GATCATTGCATCCCA TTCT	59.7	569	INTERGENIC	--	--	--
Ca1_P3_2661346	Ca1	2661346	TAAAA/TAAAAA	CGCCGTTTTTCTTCAAA CTC	TGGTGTTTCAATTTGATT CAGGA	59.9	840	INTERGENIC	--	--	--
Ca1_P3_2661645	Ca1	2661645	TA/TAA	AACTTTCATACAACTC ACACCATT	TAGCGTGTTCGAGTGC AGAG	59.3	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 (°C)	Expected 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_P3_2662211	Ca1	2662211	AATATA/AATA	CTCTGCACTCGAACAC GCTA	TTTGTCTCTCCCACTC CCAC	60.3	345	INTERGENIC	--	--	--
Ca1_P3_2663715	Ca1	2663715	TGAAAAGAAA/TGAAAA	GTTGCCATGCCTATAAC GGT	TGAAGACCATGGACAC CAAC	59.9	547	INTERGENIC	--	--	--
Ca1_P3_2668175	Ca1	2668175	AC/A	AATGCATCACGTGGGA TTTT	CGATTGCACCCGTAGT TGTA	60.2	206	INTERGENIC	--	--	--
Ca1_P3_26681887	Ca1	26681887	AAAAAACAAAAACAAAAACAAA/A AAAAACAAAAACAAAA	CCAGACACAACCTCAAC CCCT	CTTTTGGCTCCCCCTA AGTC	60.0	476	INTERGENIC	--	--	--
Ca1_P3_2668242	Ca1	2668242	GTTTTTTT/GTTTTTT	AATGCATCACGTGGGA TTTT	CGATTGCACCCGTAGT TGTA	60.2	206	INTERGENIC	--	--	--
Ca1_P3_26683215	Ca1	26683215	T/TAACTAGAAG	AATCCTTAACCTTCCC CCT	GATCTCGAAGACCCAC CAAA	60.0	473	INTERGENIC	--	--	--
Ca1_P3_26683611	Ca1	26683611	TG/T	CAATTGTGTAAACGTG CGG	TTCATTTGGTTTGAC TCCA	60.0	538	INTERGENIC	--	--	--
Ca1_P3_2669284	Ca1	2669284	TAAAAAAAAAAAAA/TAAAAAAAAA	CCCCAACTTTGAAGC AACT	TTTGTGCTGCTATGTG CCTC	59.2	344	DRR	Ca_00327	--	ERF
Ca1_P3_2669686	Ca1	2669686	TAAAAAAA/TAAAAAAA	GAGGCACATAGCAGCA CAAA	TTTTTAAACACCAACG GGC	60.0	379	DRR	Ca_00327	--	ERF
Ca1_P3_2669957	Ca1	2669957	CATAAA/CA	GAGGCACATAGCAGCA CAAA	AGCCAGATATCAGACC GCAC	60.0	818	DRR	Ca_00327	--	ERF

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 (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
Ca1_P3_2670991	Ca1	2670991	CT/CTT	TTCGCCCACTATCAACA CAA	AACTTCCTTACCCTT CCGA	60.1	851	DRR	Ca_00327	--	ERF
Ca1_P3_26725325	Ca1	26725325	CTATATATATATATATATAT/CTATAT ATATATATATATAT	AATTAGCAGCGGAAGG AAAG	GCATCACAGTTAAATC ATCGC	58.6	352	INTERGENIC	--	--	--
Ca1_P3_26729744	Ca1	26729744	TA/T	ATCCGCTTACATTGGT TCG	GTTGGGGTGAGTTGAC GAGT	60.0	557	INTERGENIC	--	--	--
Ca1_P3_2674516	Ca1	2674516	CTAGATTGGAT/CTAGATTGGATTAGAT TGGAT	TGTCGGAATATGGGAA GCTC	GCCGTTGTTTTAGAT CCAT	60.0	934	INTERGENIC	--	--	--
Ca1_P3_2678904	Ca1	2678904	ATTTTT/ATTTTTT	TCGGGTATAAGCCAC ACAA	CAAGGAATGAGGGATA AGGATG	59.0	434	INTERGENIC	--	--	--
Ca1_P3_2679246	Ca1	2679246	CTTTTTTT/CTTTTTTTTT	CATCCTTATCCCTCATT CCTTG	ATGGTGGCCGGTAGAC CTAT	59.8	723	INTERGENIC	--	--	--
Ca1_P3_2680668	Ca1	2680668	TA/TATTATTTAAA	AAACTTAACCGGGA CAAAAA	TGGTAAATACCTCCGC ACTTT	59.0	506	INTERGENIC	--	--	--
Ca1_P3_26815473	Ca1	26815473	GTTTTTTTTTTTT/GTTTTTTTTTT	TGGATGTTTTGGCTCA TCA	CCTGAAAAAGCTTGGA GTGG	60.0	336	INTERGENIC	--	--	--
Ca1_P3_26826581	Ca1	26826581	TAA/TAAA	CACAGAACAATATTGT TGGTGATAA	AGGCACAACAAGCAAG AAATC	59.3	435	INTERGENIC	--	--	--
Ca1_P3_26845597	Ca1	26845597	ATTTTTTTTT/ATTTTTTTTTT	TCCCTCCAACTTCTTG AGTCT	TGGATGCAATATTACTT TCTTCG	59.4	387	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PII) reference genome-CDC	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
Ca1_P3_2686786	Ca1	2686786	AACA/AA	TGGTTTCACGTTTGCA TTA	CAAATTCACGCAACA ATCG	60.0	957	DRR	Ca_00328	--	MIKC
Ca1_P3_26868947	Ca1	26868947	ATTTTTTTTT/ATTTTTTTTT	AGTATGAAAGCTCGA GGCA	TTTTTGCCCATTCAAAC ACA	60.0	454	INTERGENIC	--	--	--
Ca1_P3_26894031	Ca1	26894031	GAATTTGTAATTATTG/GAATTTGTAAT TATTGTAATTGTAATTATTG	ATGCACACACTTTTGAT GCC	TCATACAAATTCGAGG TTCCAA	59.6	670	INTERGENIC	--	--	--
Ca1_P3_26894935	Ca1	26894935	GAAAAAAAA/GAAAAAAAA	CGAAGAAGAAATGCG ACAA	AAAAACAAATCACAG GTAACCAA	59.0	512	INTERGENIC	--	--	--
Ca1_P3_2690867	Ca1	2690867	ATTTTTTTTT/ATTTTTTTTT	GAGCTTTGCTTGGA TCTG	CAAACGGAACCTCAAC CATC	60.0	714	INTERGENIC	--	--	--
Ca1_P3_2691872	Ca1	2691872	ATTAAGT/ATTAAGTTTAAGT	TTAGCTCAGCTTGACA GGA	GCATTGTACATTCTCG TGCG	59.9	541	DRR	Ca_00330	--	--
Ca1_P3_2693080	Ca1	2693080	TAAAAAAAA/TAAAAAAAA	CAACCAAGTAATAATGC GCCA	CGTGACAGAGGACGCT TGTA	59.6	468	DRR	Ca_00330	--	--
Ca1_P3_26958642	Ca1	26958642	TT/TTTGAT	TGCTCCATTGATTGCT GAC	CCGACCAATAGACTTT TGTTGA	59.8	663	INTERGENIC	--	--	--
Ca1_P3_2698195	Ca1	2698195	A/ACTT	TTCGCGCATATTTTAGT GAAAG	TTTGTGCCCCATCAAC TACA	59.4	609	INTERGENIC	--	--	--
Ca1_P3_26989616	Ca1	26989616	AAATAATAATAATAATAATAATAAT AATAATAATAATAA/AAATAATAATAATA ATAATAATAATAATAATAATAA	GAGGTCGTTGACCGGA TATG	CGTGTGATTGGTAATG TGCC	60.3	639	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
Ca1_P3_2699190	Ca1	2699190	AGTTGTGTGTGTGTGTGTGT/AG TTGTGTGT	TCAATGTCAAACAAAAG CCAA	CCTATTCCGCCAAAA CAAA	59.2	538	INTERGENIC	--	--	--
Ca1_P3_2699403	Ca1	2699403	T/TG	TCAATGTCAAACAAAAG CCAA	CCTATTCCGCCAAAA CAAA	59.2	538	INTERGENIC	--	--	--
Ca1_P3_2699414	Ca1	2699414	TAAAAA/TAAAAA	TCAATGTCAAACAAAAG CCAA	CCTATTCCGCCAAAA CAAA	59.2	538	INTERGENIC	--	--	--
Ca1_P3_27034910	Ca1	27034910	T/TA	GACTGGACGTAACCCA CGTT	GGCAACTAAAGATCAT GCCG	59.9	601	INTERGENIC	--	--	--
Ca1_P3_27049303	Ca1	27049303	TAAAAAAAAA/TAAAAAAAAA	CTCCAGGTGCAATAGG GAAA	AAAGAACATTTCAGT GCGG	60.1	581	INTERGENIC	--	--	--
Ca1_P3_27104159	Ca1	27104159	AT/A	AGTGCCATTTGTGTTGT AGGG	AGGGGTGTGGGAAGA AAAAAT	59.9	399	INTERGENIC	--	--	--
Ca1_P3_2711863	Ca1	2711863	CATAATAATAATAATA/CATAATAAT AATAATAATAATA	TTCGGTGCTACATATTC CTCAA	CCCGTTTCAGCTCAAT CAAT	59.6	448	DRR	Ca_00334	G	--
Ca1_P3_2712445	Ca1	2712445	GTT/GTTT	TTGATCTGCGAGGTGA AGTG	TCCAACCTTTCCAATT GAGG	60.0	637	DRR	Ca_00334	G	--
Ca1_P3_2712542	Ca1	2712542	CATA/CA	TTGATCTGCGAGGTGA AGTG	TCCAACCTTTCCAATT GAGG	60.0	637	DRR	Ca_00334	G	--
Ca1_P3_27137277	Ca1	27137277	TAAAA/TAAAAACAGAAAAA	TCACACAAGATGGAG CGAA	TGGGCTATGTTTGT TCCC	60.4	463	DRR	Ca_20311	KR	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CD Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_27143610	Ca1	27143610	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATAT ATATATA	GTTCAATCAATACTCGG CGG	GGCATCTTTGATCAAT GGTCTT	60.5	681	INTERGENIC	--	--	--
Ca1_P3_27204677	Ca1	27204677	C/CT	GCCGAAGTACCAATTA CCGA	TACGGTGCTAGGGAAC CAAC	60.0	705	INTERGENIC	--	--	--
Ca1_P3_27219176	Ca1	27219176	CTATTATTATTATTATTATTATTATT ATTATTATTATTATTGTTATTATTATTAT TATTATTATTATTATTATTAT/CTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTGTTATTATTATTATTA	TGAGGGAGATATTGG TGCG	TACGGCGCTGTTCTTT TCTT	59.7	277	INTERGENIC	--	--	--
Ca1_P3_27232314	Ca1	27232314	AATATATATATATATATATATATATA/ ATATATATATATATATATATATATATA TATAT	CTTGGAAGTGGAGAG CAAG	AGGGAGGTTTGTTT GACG	60.0	682	INTERGENIC	--	--	--
Ca1_P3_2725497	Ca1	2725497	TAA/TA	GTGTAACCTCAGGGA AGGA	GGTCAATTGAAACA ACGG	60.0	660	INTERGENIC	--	--	--
Ca1_P3_2727935	Ca1	2727935	AT/A	CAAACGCAAATTGAGC GATA	CATTTTGAAAGATTCAC ATTCATTT	59.8	717	INTERGENIC	--	--	--
Ca1_P3_2728007	Ca1	2728007	CTA/CTACTTA	CAAACGCAAATTGAGC GATA	CATTTTGAAAGATTCAC ATTCATTT	59.8	717	INTERGENIC	--	--	--
Ca1_P3_27282795	Ca1	27282795	CAGA/CA	AAAATCCAACAATCTCC CCC	CCCTGAGACTCACGAA GAGG	60.0	561	INTERGENIC	--	--	--
Ca1_P3_27282873	Ca1	27282873	GTATA/GTATATA	AAAATCCAACAATCTCC CCC	CCCTGAGACTCACGAA GAGG	60.0	561	INTERGENIC	--	--	--
Ca1_P3_2729433	Ca1	2729433	ATTTTTTT/ATTTTTT	ACAGAATCAAAGCATG GGG	TTCATTCCACTTCCAC CTCC	59.9	740	INTRON	Ca_00335	O	MYB

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
Ca1_P3_27335479	Ca1	27335479	CATATATATATATATATATATATAT/C ATATATATATATATATATATATAT	TGAAGAAGCTGAAGGG GAAA	TGAGTGATGTGATGTG CGAA	59.9	138	INTERGENIC	--	--	--
Ca1_P3_27346637	Ca1	27346637	GTATATATATATATATATATAT/GTAT ATATATATATATATATAT	CTTCGTTCACTGGTG ACAA	TGTTGTTGGTGGAGCA CAAT	59.7	704	INTERGENIC	--	--	--
Ca1_P3_2745007	Ca1	2745007	GTTTTTTTTT/GTTTTTTTTT	GAACGAACGGTGTGAT GATG	GGGCCACAATAACAC AAAC	60.0	513	INTERGENIC	--	--	--
Ca1_P3_2747689	Ca1	2747689	AT/ATT	TTGCTGAGCTGAAGCA GAAA	CTTGGGATCAGCTTA TGGA	60.0	961	DRR	Ca_00338	R	NAC
Ca1_P3_27597440	Ca1	27597440	ATT/AT	AAAATCCAACAATCTCC CCC	CCCTGAGACTCACGAA GAGG	60.0	559	DRR	Ca_25069	--	--
Ca1_P3_2762193	Ca1	2762193	ATTTTTTT/ATTTTTT	ACCTTTGGGTTGCCTC CTAC	TGGAAGGATGGATGCT TAGG	60.4	625	INTERGENIC	--	--	--
Ca1_P3_2762478	Ca1	2762478	ATCCATCCTTCCATCCT/ATCCATCCT	TATTTGGACAAACGAAG GGC	GCATAATCGTGCTCG ACAA	59.9	530	INTERGENIC	--	--	--
Ca1_P3_27637609	Ca1	27637609	GAA/GA	CCTGAAATCTACCAGG CGAA	GGTTGGATTCTTTG GGGT	60.2	740	INTERGENIC	--	--	--
Ca1_P3_2765671	Ca1	2765671	GTTTTTTTTT/GTTTTTTTTT	TAAAAAGGGCCGATAT GCAC	CATGCACGATTGTGGT AATTG	59.9	564	INTERGENIC	--	--	--
Ca1_P3_2766077	Ca1	2766077	CTTATGTT/CTTATGTTATGTT	AAAACAATTGATTGGGC TCC	CCAATCATACGCAGGT GAAA	58.9	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 (°C)	Expected 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_P3_2766176	Ca1	2766176	A/AG	AAAACAATTGATTGGGCTCC	CCAATCATACGCAGGTGAAA	58.9	561	INTERGENIC	--	--	--
Ca1_P3_2766346	Ca1	2766346	AATATA/AATATATA	TTTCACCTGCGTATGATTGG	TGACCTCTTATGCTTCTCGAAAT	59.5	501	INTERGENIC	--	--	--
Ca1_P3_27665616	Ca1	27665616	CGTTTCA/C	TCAGGGATAGGTTTCACTTCG	TTCAAACCAAATGCCAATGA	59.2	717	INTRON	Ca_25073	--	--
Ca1_P3_2766600	Ca1	2766600	CTTTTTTT/CTTTTTTT	TTTCACCTGCGTATGATTGG	TTGAAAGTTGAAACGTGGGA	59.5	779	INTERGENIC	--	--	--
Ca1_P3_27668412	Ca1	27668412	GAAAAAAAAA/GAAAAAAAAA	CCTTGATTGAGAACACCCCA	GGACTAGGTCCCGTGTGTTT	60.9	593	INTRON	Ca_25073	--	--
Ca1_P3_2766944	Ca1	2766944	ATTTTTTTTT/ATTTTTTTTT	TTTCGAGAAGCATAAGAGGTCA	AAACCATGCACCTCATCACA	59.1	359	INTERGENIC	--	--	--
Ca1_P3_2769230	Ca1	2769230	TT/TGAATGCAGT	AGCGTGAAGACTCCGATGTT	TGCATCACTTTATTGCCCA	59.9	374	INTERGENIC	--	--	--
Ca1_P3_2774451	Ca1	2774451	AATATATATA/AATATATATATATATA TA	CTTTGGGGCACCACGTAT	TTGGATTTTCGCTGCAAGT	59.9	667	INTERGENIC	--	--	--
Ca1_P3_2774917	Ca1	2774917	TA/T	AACTTGCAGCGAAAAATCCA	TTTCCACTAATTGTGCTTCC	60.8	517	INTERGENIC	--	--	--
Ca1_P3_2779177	Ca1	2779177	CATATA/CATA	ATGATGAAGGGGAAAAAGGT	TGACTGCATGTAGTTGTGGG	59.6	512	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
Ca1_P3_2779559	Ca1	2779559	AATATATATATATAT/AATATATATAT AT	AAGGGTCCTCTCAATC GTCA	GTGAGGTTGGTCAACT CCGT	59.7	715	INTERGENIC	--	--	--
Ca1_P3_27902762	Ca1	27902762	AAA/AAATTAA	TTTTGCAAGAGCGTCAA ATG	GGCTTCATAAAAGGTG GCAA	60.0	592	INTERGENIC	--	--	--
Ca1_P3_2793456	Ca1	2793456	GAAAAAAAAA/GAAAAAAAAA	TGTAGGCCTTGTGTGG ATCA	ATCCCTCCCTCGTCAA AATC	60.1	487	DRR	Ca_00343	T	NAC
Ca1_P3_2794449	Ca1	2794449	TA/TAAACCACA	TTTTTGTTCAAATGAT TGGTC	TGTCAAAACGAAAACG TTGAA	58.8	560	DRR	Ca_00343	T	NAC
Ca1_P3_2797230	Ca1	2797230	A/AC	TGTCTTAAATCTGTGC ATTCAA	AAATAGTTGACAAACC GCCG	57.5	581	INTERGENIC	--	--	--
Ca1_P3_2797821	Ca1	2797821	CTTATTTT/CTTATTTTATTTT	ACGGCGGTTTGTCAAC TATT	GGGTGTTTTTGTCAAT TGGG	59.5	743	INTERGENIC	--	--	--
Ca1_P3_2800036	Ca1	2800036	A/AAT	AAAATAAATCGTTGTGG CCG	ACTTGCTCGCTCTTGC TCTC	59.8	683	INTERGENIC	--	--	--
Ca1_P3_2802455	Ca1	2802455	ATTTTT/ATTTT	GGGTTACAGACCGACC TTGA	GCGGATTTGTCCATCT TTGT	60.0	765	DRR	Ca_00344	--	NAC
Ca1_P3_2803396	Ca1	2803396	GTGATGATG/GTGATG	ACAACGGAATTGGTCA TGGT	TTCTAATTCCAATCCC ATGT	60.1	360	INTERGENIC	--	--	--
Ca1_P3_28170186	Ca1	28170186	CTTTTTTTTT/CTTTTTTTTTT	TCCAACGCCCTTCTTTT AAT	GTGCGATCCGTTGAAG TTCT	59.7	811	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
Ca1_P3_2825323	Ca1	2825323	GTTTTATTTTTATTTTT/GTTTTATT TTTATTTTTATTTTT	ACTTGGTTCTGTTGTG GGC	TCCACCTCTCACTTG GCTT	60.0	870	INTERGENIC	--	--	--
Ca1_P3_2826980	Ca1	2826980	CATA/C	CGCCCTGCCTCAAATT ATTA	TTTAATGTTGTTGTGA AGATGAAAA	60.1	962	INTERGENIC	--	--	--
Ca1_P3_2828086	Ca1	2828086	ATAATTA/ATAATTAATTA	TGGAACCTCAACATCC AACA	TTTCCCCAAAATTGCAA AAG	59.9	597	INTERGENIC	--	--	--
Ca1_P3_2828117	Ca1	2828117	TAG/TAGAG	TGGAACCTCAACATCC AACA	TTTCCCCAAAATTGCAA AAG	59.9	597	INTERGENIC	--	--	--
Ca1_P3_2830013	Ca1	2830013	AAAATATTATTTAAATATT/AAAATATT ATTTTAAATATTATTTAAATATT	ATCCGGGTCCAAAGTT TCTT	AAAAGCATGCAAAAGC ATCA	59.8	774	INTERGENIC	--	--	--
Ca1_P3_2831499	Ca1	2831499	GTTTTTTTTTTTT/GTTTTTTTTTTTT	CCTCTGACCACATGGG ACTT	TCAAAAACAAAAGCGC ACTG	60.0	625	DRR	Ca_00347	--	ARF
Ca1_P3_28322869	Ca1	28322869	GAAAAAAAAA/GAAAAAAAAA	GAGAACAACTTGA CCCAA	GTTACCAGCCCATCAA TGCT	59.1	376	INTERGENIC	--	--	--
Ca1_P3_28339292	Ca1	28339292	GCTCTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCT/GCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCTCTCT TCTCTCT	CGCCTTTCTGTTTCCA CAT	TGGTGTGCTTGGTGAT GAAT	60.1	305	INTERGENIC	--	--	--
Ca1_P3_2838327	Ca1	2838327	CTTTTTTTTT/CTTTTTTTTTTT	TGCTCCCTCCATCATC CAC	TTCATTGTAATTGTGT TCGAC	60.0	437	INTERGENIC	--	--	--
Ca1_P3_2840718	Ca1	2840718	GTTTTTTTTTT/GTTTTTTTTTT	GCTACATGTAACGCAG CGAA	ATTTAAGATGGCGATG TGCC	60.0	512	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 (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
Ca1_P3_2841066	Ca1	2841066	CTGTG/CTGTGTG	GCTACATGTAACGCAG CGAA	ATTTAAGATGGCGATG TGCC	60.0	512	INTERGENIC	--	--	--
Ca1_P3_2842423	Ca1	2842423	TTTTCTTTC/TTTTC	TTTCACAAATTAACATT TGCATGA	ATTCGAATTCTGCCAC TGAA	59.4	357	INTERGENIC	--	--	--
Ca1_P3_2842728	Ca1	2842728	ATTTT/ATTTT	TCAGTGGCAGAATTCG AATAAA	TTGCAACAGCTTGTG AATGT	59.7	403	INTERGENIC	--	--	--
Ca1_P3_2844156	Ca1	2844156	TT/TTAT	AAAACGGGTACCAC CACG	CAACATATCAATGGAA CATGGC	59.9	216	INTERGENIC	--	--	--
Ca1_P3_2844599	Ca1	2844599	TAAAAAA/TAAAAA	AGGAGCGCGTGTTC TTTA	TGTTTCGTCTTTGAA GGTGG	60.0	705	INTERGENIC	--	--	--
Ca1_P3_2845108	Ca1	2845108	TAAAAA/TAAA	CCACCTTTCAAAGACG AAACA	GCTTGATTTCAAATCT CCTCC	60.1	686	INTERGENIC	--	--	--
Ca1_P3_2845159	Ca1	2845159	TAAAAAAA/TAAAAAA	CCACCTTTCAAAGACG AAACA	GCTTGATTTCAAATCT CCTCC	60.1	686	INTERGENIC	--	--	--
Ca1_P3_2845887	Ca1	2845887	AAATAATAATAATAATAATAATA/AA ATAATAATAATAATAATAATAATAA TA	CGTCGTTTGTTCGAC CATC	CGTTGTTTGTTCGAC ACATCT	59.1	612	INTERGENIC	--	--	--
Ca1_P3_2846472	Ca1	2846472	CATAT/CAT	GTTTGAACACGGGTGC TTTT	TTTGGTTAAGGGTTTG GCTG	60.0	756	INTERGENIC	--	--	--
Ca1_P3_2850106	Ca1	2850106	ATTTT/ATT	TAGGTGGGGCTCTCAT TGTC	GTTTCTCCATGCGCAA AAAT	60.1	902	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 (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
Ca1_P3_2850297	Ca1	2850297	TTATATATATATATA/TTATATATATATA	ATCGCGTGATTAGATG CACA	GTTTCTCCATGCGCAA AAAT	60.3	301	INTERGENIC	--	--	--
Ca1_P3_28550132	Ca1	28550132	ATTTTTTTTTT/ATTTTTTTT	TGGAAGCACGCTTAAG GACT	TTTCCCAATCGATTTG CTTC	60.0	664	INTERGENIC	--	--	--
Ca1_P3_28550236	Ca1	28550236	T/TG	CTGACACAGGGGAGA AAAA	TTTCCCAATCGATTTG CTTC	60.1	159	INTERGENIC	--	--	--
Ca1_P3_2861840	Ca1	2861840	CAAA/CAAAA	CGCCTTGAAAACCTC AGTA	CTAATCCCTTGCCTC AACA	60.2	666	INTRON	Ca_00348	R	--
Ca1_P3_2861879	Ca1	2861879	A/AG	CGCCTTGAAAACCTC AGTA	CTAATCCCTTGCCTC AACA	60.2	666	INTRON	Ca_00348	R	--
Ca1_P3_2862459	Ca1	2862459	GAA/GA	TGTTGAGGGCAAGGGA TTAG	CGGAGAGAATTTGGCC ATTA	60.1	326	INTRON	Ca_00348	R	--
Ca1_P3_2867984	Ca1	2867984	AAT/AATGAT	ATGAGAAAGGGAAGA GGGA	AAGGGGTGAACAGTGA GGTG	60.0	646	INTERGENIC	--	--	--
Ca1_P3_2868551	Ca1	2868551	TTTGTT/TTTGTTGTT	CACCTCACTGTTCAAC CCTT	CATCCACTGTCGACAA CACC	60.0	697	INTRON	Ca_00349	--	--
Ca1_P3_28711868	Ca1	28711868	TAGAGAGAGAGAGAGAGAG/TAGA GAGAGAGAGAGAGAG	TGTTGGGTTGACAAAA CCA	TTAATGGGAAGCACAA AAGC	59.8	532	INTERGENIC	--	--	--
Ca1_P3_28713213	Ca1	28713213	TTA/TTAGAAAGAGTGTA	TTCATTTCTCTGATTCC CCG	TCCGCATTATAACCTC TGCC	60.0	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 (°C)	Expected 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_P3_28716048	Ca1	28716048	CATATATATATATATATAT/CATATATAT ATATAT	CGCAAAGATTGGGTT TGAT	TGGACCCTGAATTACG AAGG	59.9	776	INTERGENIC	--	--	--
Ca1_P3_2875002	Ca1	2875002	CTTTTTTTTT/CTTTTTTTTT	TGCCAAAGGTAATTTT CCG	GCCCGCAAAGTTAA AGAA	59.9	149	DRR	Ca_00349	--	--
Ca1_P3_2875348	Ca1	2875348	CAAAA/CAAAA	TGCCAAAGGTAATTTT CCG	GATGGCCTAATGCAAA CCAT	59.9	879	DRR	Ca_00349	--	--
Ca1_P3_2875382	Ca1	2875382	CATAAATAAATAAATAAATA/CATAAATA AATAAATAAATAAATAAATA	TGCCAAAGGTAATTTT CCG	GATGGCCTAATGCAAA CCAT	59.9	879	DRR	Ca_00349	--	--
Ca1_P3_2884045	Ca1	2884045	TAAA/TAA	GAGCTTCTCCACCTCA CGTC	GTGGCATTGAGGTGAG GAAT	60.0	412	DRR	Ca_00351	T	M-type
Ca1_P3_2884405	Ca1	2884405	AGAGACATT/A	ATTCTCACCTGAATGC CAC	TGAAAGCATCATGCAC ACAA	59.9	511	DRR	Ca_00351	T	M-type
Ca1_P3_2884853	Ca1	2884853	GTTTT/GTTT	TCTCCGTCGTGTTGTG TTGT	ATTGCGGAGTTAACAA TGGC	60.2	743	DRR	Ca_00351	T	M-type
Ca1_P3_2885377	Ca1	2885377	ATTTTTT/ATTTTTTTT	GCCATTGTAACTCCG CAAT	CATTGGAGAGGGCAT AGGA	60.0	360	DRR	Ca_00351	T	M-type
Ca1_P3_2885733	Ca1	2885733	CTGT/CT	GCCATTGTAACTCCG CAAT	TTGAAAGCACAGCAC TTGG	60.0	670	INTERGENIC	--	--	--
Ca1_P3_2886588	Ca1	2886588	CTT/CTTT	GGGCGTTCTCTCTTCA TCAG	TCCACCGACTGTGTCA TTGT	60.0	671	DRR	Ca_00352	--	--

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 (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
Ca1_P3_28906702	Ca1	28906702	TAAAAAA/TAAAAA	TATGGAGAGCAGCGAC TCAA	TGTTGGGTTGCACAAC ATTC	59.7	184	INTERGENIC	--	--	--
Ca1_P3_28910299	Ca1	28910299	CATT/CATTAAATT	GAAAATGATCGGTGGA GGAA	CTTGCGTGTGCACGA GTAT	59.9	620	DRR	Ca_18486	R	--
Ca1_P3_28910417	Ca1	28910417	CTTTTTTT/CTTTTTTTTTTT	GAGTCATTGGTGCCTT GGTT	CTTGCGTGTGCACGA GTAT	60.0	385	DRR	Ca_18486	R	--
Ca1_P3_28910492	Ca1	28910492	GATTAA/GATTAAATTAA	GAGTCATTGGTGCCTT GGTT	CTTGCGTGTGCACGA GTAT	60.0	385	DRR	Ca_18486	R	--
Ca1_P3_28930406	Ca1	28930406	T/TA	TCAAAGACATGGTGCC TTCA	TTGGTGCCAATTTATG TATTTCA	60.2	605	INTERGENIC	--	--	--
Ca1_P3_28936099	Ca1	28936099	ATTTTTTT/ATTTTTTTTTTT	GAAATTTGACCAGAGC TGCC	TCGGTCACCGTTTTTA GTTT	59.8	465	INTERGENIC	--	--	--
Ca1_P3_28939130	Ca1	28939130	TTATATATATAT/TTATATATATAT	TGGATATACGCACACC CAAT	AGTTACCGATCAATGG TGCC	58.7	634	INTERGENIC	--	--	--
Ca1_P3_28941503	Ca1	28941503	CAA/CAAAA	TGGGGTTTAGGGTGTG ACAT	CTTTTGTAAGGCAGC TCCG	60.1	207	INTERGENIC	--	--	--
Ca1_P3_28941872	Ca1	28941872	GAAAAAA/GAAAAA	TGGGGTTTAGGGTGTG ACAT	TCAATTTGGATTCTTG GTGG	60.1	847	INTERGENIC	--	--	--
Ca1_P3_28943560	Ca1	28943560	GG/GGTG	ACTTGGGACAAATCAC ATGG	TGATCACCAGCTTTCC AATG	58.3	252	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 (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
Ca1_P3_28944045	Ca1	28944045	TAAAAA/TAAAAA	TTGCCTTTAATGGACCA AGG	CAATATGAAGTCTGGT GCCAA	59.9	345	INTERGENIC	--	--	--
Ca1_P3_28944496	Ca1	28944496	TTATATATAT/TTATATAT	TTGGCACCAGACTTCAT ATTG	AAATGTACTTTGCGGC ACAT	58.6	775	INTERGENIC	--	--	--
Ca1_P3_28944803	Ca1	28944803	AACTA/AA	TTTCAATTGCATTAATC CGTTC	CAATAAAATTGCGGT CCGA	59.0	963	INTERGENIC	--	--	--
Ca1_P3_28945159	Ca1	28945159	GTTT/GTTTT	TGCCGCAAAGTACATT ATCA	CAATAAAATTGCGGT CCGA	59.2	369	INTERGENIC	--	--	--
Ca1_P3_2898163	Ca1	2898163	CAAAAAAAAA/CAAAAAAAAA	TGGTGTTTACCACTCC GTCA	TTAATCACAGTGGCG GTCA	60.0	368	INTRON	Ca_00354	--	bHLH
Ca1_P3_2900742	Ca1	2900742	AAC/A	CTGCAGGGATCTGAGT GACA	GGAATGGTTTGGGGAA TTTT	60.0	637	INTRON	Ca_00354	--	bHLH
Ca1_P3_2905447	Ca1	2905447	GGAT/GGATCACTGAGTGAT	CTGGAAC TGCTTTCTTT GCC	GGGGGATAGGATGGA AGTGT	60.0	810	DRR	Ca_00354	--	bHLH
Ca1_P3_2910422	Ca1	2910422	TAAGAAGAAGAAGAA/TAAGAAGAAGA A	TCCAACACCAGAATCAC CAA	CCATTCCCCAAAACAA AACA	59.9	382	INTERGENIC	--	--	--
Ca1_P3_2910652	Ca1	2910652	CAATAATAATAATAATA/CAATAATA ATAATAATAATAATA	TCCAACACCAGAATCAC CAA	GGGATTTGTCA GTGTA GCCAA	59.9	562	INTERGENIC	--	--	--
Ca1_P3_2910946	Ca1	2910946	CAAAAAAAAA/CAAAAAAAAA	TGTTTTGTTTTGGGGAA TGG	TTTCTTCAACGCTTAAT TTGAA	60.6	929	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
Ca1_P3_2912085	Ca1	2912085	GTTTTTTTT/GTTTTTTTT	GAACCAAAGTAAACCGGCA	TGGTCGATGGAATGAGTCAA	60.0	763	INTERGENIC	--	--	--
Ca1_P3_29124803	Ca1	29124803	ATTT/ATTTT	AGTGGCATTGGGCAAA TTAC	ACCAAATATACGCGCTG TGCC	59.8	350	INTERGENIC	--	--	--
Ca1_P3_2912876	Ca1	2912876	GGTAC/GGTACGTAC	TGTCATCCCTAGCAACACGA	TGTAATGCATTTCCCC TTGTC	60.3	192	INTERGENIC	--	--	--
Ca1_P3_2914650	Ca1	2914650	CTTTTTTTTT/CTTTTTTTT	TGTGATGGTTCATGCA GAAAG	CAGAAAGGTCTGACCC GAAA	59.7	722	DRR	Ca_00357	--	WOX
Ca1_P3_2914725	Ca1	2914725	ATT/AT	TGTGATGGTTCATGCA GAAAG	CAGAAAGGTCTGACCC GAAA	59.7	722	DRR	Ca_00357	--	WOX
Ca1_P3_2915161	Ca1	2915161	TAAAAAAAAA/TAAAAAAAAA	CGTTGGTACCATTCCG TTTC	CATATGGTGAAAAGCG GTGA	60.2	715	DRR	Ca_00357	--	WOX
Ca1_P3_2919131	Ca1	2919131	CAAAAAAAAA/CAAAAAAAAA	GTATCCCATCCCCTGCA AATA	TTCCATGTTCCCTTTG CTTC	59.6	202	INTERGENIC	--	--	--
Ca1_P3_2920371	Ca1	2920371	TTGATAT/TTGATATATATGGAGGTGAT AT	TCACGTGAGCTATAGC CATAAA	TGACAGCTGAAAGCAC AACC	57.7	245	INTERGENIC	--	--	--
Ca1_P3_2920887	Ca1	2920887	TAAT/TAATAAAT	ATTGCCATGGATTGAC GTT	AAGGCTTACGATGTTT GTGC	60.2	770	INTERGENIC	--	--	--
Ca1_P3_2921722	Ca1	2921722	CAATA/CA	CAACTGGGCCAAATGCTTAT	TGATGATCACACGAGG GAGA	60.0	570	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
Ca1_P3_2922769	Ca1	2922769	CAAAA/CAAAAAA	TTTGTGGATCGTATTGC GAA	AAATGCATTCCTTCATT CTTTCA	60.1	604	INTERGENIC	--	--	--
Ca1_P3_2922949	Ca1	2922949	CTTTTTTTTTTT/CTTTTTTTTTTT	TTTGTGGATCGTATTGC GAA	AGCATATGGTCCCTT TTCA	60.1	947	INTERGENIC	--	--	--
Ca1_P3_2923053	Ca1	2923053	TATGAA/TATGAATGAATGAA	CGCGAAATCTTATTTTC ATGG	TGATGCGATTGTAGTC CCAA	59.6	606	INTERGENIC	--	--	--
Ca1_P3_2923274	Ca1	2923274	A/ATATTAAAAATAAT	CGCGAAATCTTATTTTC ATGG	TGATGCGATTGTAGTC CCAA	59.6	606	INTERGENIC	--	--	--
Ca1_P3_2923437	Ca1	2923437	GTCTCTCTCT/GTCTCTCTCTCTCTC TCT	TGACATATGAAAAGGG GACCA	TGATGCGATTGTAGTC CCAA	60.2	134	INTERGENIC	--	--	--
Ca1_P3_2923894	Ca1	2923894	TAAAAAAAA/TAAAAAAAAA	TTGGGACTACAATCGC ATCA	ATTGACCCGATTGCT GAAC	60.1	718	INTERGENIC	--	--	--
Ca1_P3_2923967	Ca1	2923967	TAAA/TAAAA	TTGGGACTACAATCGC ATCA	ATTGACCCGATTGCT GAAC	60.1	718	INTERGENIC	--	--	--
Ca1_P3_2923992	Ca1	2923992	TTA/T	TTGGGACTACAATCGC ATCA	ATTGACCCGATTGCT GAAC	60.1	718	INTERGENIC	--	--	--
Ca1_P3_2924514	Ca1	2924514	GAAAAAAAAA/GAAAAAAAAA	GTTCAGCAATCGGGT CAAT	TGAGTTAATGCGGCCT AACC	59.9	595	INTERGENIC	--	--	--
Ca1_P3_2931986	Ca1	2931986	ATTTTT/ATTTTT	CTTTAGCTGGGCCTCC TTCT	TTTGTATGAGTGCGGA ACCA	60.0	570	DRR	Ca_00358	E	--

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
Ca1_P3_2932356	Ca1	2932356	TAA/TA	GAATCTGGTTCCGCAC TCAT	AGTTCGATTGTGACCG TGTG	60.1	400	DRR	Ca_00358	E	--
Ca1_P3_2933661	Ca1	2933661	AATG/A	TTACGGTAACACCACC AGCA	AAGCATTACCCGGTTG GTAG	60.0	336	INTRON	Ca_00358	E	--
Ca1_P3_2933961	Ca1	2933961	AAGAGA/AAGA	CTACCAACCGTGTAAT GCTT	CCCCACTTTCATTCA GTAAA	60.0	641	INTRON	Ca_00358	E	--
Ca1_P3_2934264	Ca1	2934264	CA/CAAA	AACCCCTCATGATTGCA GGA	CACGGTGTGATGTTG AAGG	60.5	797	INTRON	Ca_00358	E	--
Ca1_P3_29342752	Ca1	29342752	ATAGT/ATA	AGGTTGCGGTTTGATT GTTC	TTTACGCATGCAAAA GCAG	60.1	342	INTERGENIC	--	--	--
Ca1_P3_2934879	Ca1	2934879	T/TACTC	TCATCAGCAAAGTTGG CAAG	ATCTGGTTCGGATTGT TGGA	60.0	432	INTRON	Ca_00358	E	--
Ca1_P3_2937429	Ca1	2937429	ACAAGTG/A	AAAACGGTGATGATTTG GGA	TCTCGTACCGGACCAG AGTC	60.2	199	CDS (large-effect mutations)	Ca_00358	E	--
Ca1_P3_29386755	Ca1	29386755	T/TATATATA	TCGTTTCCAGAGAAG CAAC	AGAAAAATGCGGGTTAT GTCG	60.4	743	DRR	Ca_22561	R	HB-other
Ca1_P3_29386975	Ca1	29386975	AATATATATATATATATATATATAT /AATATATATATATATATATATATATA TATATATAT	TCGTTTCCAGAGAAG CAAC	AGAAAAATGCGGGTTAT GTCG	60.4	743	DRR	Ca_22561	R	HB-other
Ca1_P3_2938785	Ca1	2938785	T/TTG	GGCGGATAGACAAAAT CGAA	GTCGCGAAAAGATTG CACT	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 (°C)	Expected 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_P3_2938872	Ca1	2938872	ATTTTT/ATTTTT	GGCGGATAGACAAAAT CGAA	GCAACCGTGTGGATAT GTTG	60.0	703	INTERGENIC	--	--	--
Ca1_P3_29402165	Ca1	29402165	TG/TGTAG	GGCCGTAAACCAGACT CAAA	GGGGTAAGTTTCCTTG ACCA	60.1	627	INTERGENIC	--	--	--
Ca1_P3_29406026	Ca1	29406026	CTTTTTTTTT/CTTTTTTTTT	ATAAAGGGACCAACCG TGAA	TGGGACCAAAATTGAAC ATAAAA	59.3	482	INTERGENIC	--	--	--
Ca1_P3_29422590	Ca1	29422590	TT/TTATGAT	AGTGGATCGGGTGAAA CAAG	GTCGCGTCGAAAAC GCTC	60.0	783	DRR	Ca_22560	--	--
Ca1_P3_2945732	Ca1	2945732	AA/AATTA	ATCAAATTGCGTTGGTA GCC	TGGCGATGGATACACG ATAA	60.0	885	INTERGENIC	--	--	--
Ca1_P3_2947472	Ca1	2947472	TA/TAATAGA	TTTCAGTTCGATACGTC AAAACA	ACCACGTGTGGTTGTT GAAT	59.7	403	INTERGENIC	--	--	--
Ca1_P3_29524255	Ca1	29524255	ATTTTTTTTT/ATTTTTTTTT	GGCTTCTTCCAAAATG CAG	CACCATATCCCCCAA AACA	59.8	669	INTERGENIC	--	--	--
Ca1_P3_2954111	Ca1	2954111	ATTTTT/ATTTTT	TTTGTGGTTGAATTG GGAT	GGTCCAAAAGTAAGGG GAAAA	60.0	888	INTERGENIC	--	--	--
Ca1_P3_2956674	Ca1	2956674	TTATATATAT/TTATAT	CCCATCTCAAAGGAAG TTGC	CCACTGCTGCGCTATT ATGA	59.7	641	INTERGENIC	--	--	--
Ca1_P3_2959903	Ca1	2959903	TTTTTT/TTTTTTATTTTT	TGTTATGATCCGTAAC GATGG	TTGCCGCCAATAAATA TTAAAAA	59.7	554	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
Ca1_P3_2960148	Ca1	2960148	ATTTTTTTT/ATTTTTTTT	TGTTATGATCCGTAAC GATGG	CGGGATAGACCCTTAT CACAGA	59.7	758	INTERGENIC	--	--	--
Ca1_P3_29618796	Ca1	29618796	GACTT/GACTTTACTT	TGCCTACATCCCAGAC ACAA	AGCGGCCTTCTCATT ACAA	60.1	433	INTERGENIC	--	--	--
Ca1_P3_29636835	Ca1	29636835	AA/AAGA	TCACAAATCTCAACCT CCC	ATCAGTTGGAGCCTGG TTGT	59.9	497	INTRON	Ca_24382	AR	--
Ca1_P3_29637072	Ca1	29637072	GAAAAAAAA/GAAAAAAAAA	ACAACCAGGCTCCAAC TGAT	ATGCTGCCAGCCTACA AAAT	59.6	503	INTRON	Ca_24382	AR	--
Ca1_P3_2966305	Ca1	2966305	T/TTC	CCACGTCTGTAAATTCG CTTT	GCTCGCACTCTCTTT CTCT	59.3	785	INTERGENIC	--	--	--
Ca1_P3_29709028	Ca1	29709028	ACC/AC	AAAGATTGTTGAGGC GTGG	GACGAGAATGGAGATG GGAA	60.1	580	INTERGENIC	--	--	--
Ca1_P3_2976356	Ca1	2976356	TCACA/TCA	GGAAGTCTTTGCAGGG CATA	TTTGGCCCAATAAGTT GGAG	60.2	638	INTRON	Ca_00361	--	--
Ca1_P3_29791416	Ca1	29791416	GAAAA/GAAAAA	TCCGATAAAATCTCCGT TCG	AAAAACAGTTCCTT CCTT	60.0	323	INTERGENIC	--	--	--
Ca1_P3_29805099	Ca1	29805099	GATATATATATATA/GATATATATA TA	TACGAACCCTCACAAC CACA	CGTTCTTTGAATGAGG GCTG	60.0	712	INTERGENIC	--	--	--
Ca1_P3_29818737	Ca1	29818737	ACTA/ACTAAATTACCGAGGTGCTA	CTCGGAATCCAAACC AAAA	ATCGATGGCTCAATTG GTTC	59.9	359	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
Ca1_P3_29821471	Ca1	29821471	ATT/AT	GCCTCCGAGTTCAATACCA	TGTCGTGTTTGACGTGTTCA	60.1	473	INTERGENIC	--	--	--
Ca1_P3_29825526	Ca1	29825526	ATTTTT/ATTT	CAAGACTTAAGGCTCC CCCT	CCCATTGCCTAACCA AGAA	59.7	500	INTERGENIC	--	--	--
Ca1_P3_29842423	Ca1	29842423	AC/A	TCATCAAAGGCATGCA AATC	GACCAAAACACAACGC AATG	59.6	359	INTERGENIC	--	--	--
Ca1_P3_29843804	Ca1	29843804	G/GA	ATGGATCAAGAGAAGG GGCT	CCTATGCGAAGTGGTG GTTT	60.0	535	INTERGENIC	--	--	--
Ca1_P3_29844165	Ca1	29844165	TTTATT/TTT	ATGGATCAAGAGAAGG GGCT	CCTATGCGAAGTGGTG GTTT	60.0	535	INTERGENIC	--	--	--
Ca1_P3_29846530	Ca1	29846530	CTTTT/CTTTTT	TGGATTGGGGATCATT CATT	TCAACATTTGGAAGCA CAAGA	60.0	897	DRR	Ca_24388	--	--
Ca1_P3_29846735	Ca1	29846735	AC/AATATATATATATC	AGAACGGTTTTCTGTC CGTG	TCAACATTTGGAAGCA CAAGA	60.1	689	DRR	Ca_24388	--	--
Ca1_P3_29846941	Ca1	29846941	TAAAAAAAAA/TAAAAAAAAA	TGTTGCCAACTGAAAT CGT	ATACAGACACCGAATG GGGA	59.2	828	DRR	Ca_24388	--	--
Ca1_P3_29847994	Ca1	29847994	TAAAAA/TAAAAA	TCTTTTCATCAGGCCCA ATC	GGAAAGTGAGGGAAC CAATG	60.0	228	INTRON	Ca_24388	--	--
Ca1_P3_29848026	Ca1	29848026	ATGT/AT	TCTTTTCATCAGGCCCA ATC	GGAAAGTGAGGGAAC CAATG	60.0	228	INTRON	Ca_24388	--	--

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 (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
Ca1_P3_29853119	Ca1	29853119	TAA/TA	TCCACGAGATTTTCCTT TGG	TGTCATCATTCTCTGCT GGC	60.0	357	INTERGENIC	--	--	--
Ca1_P3_29853730	Ca1	29853730	GTGGAAGTCT/GTGGAAGTCTGGAAGT CT	TTGCATTCTAGGTTCA GCC	TATCGCTCGACCTCTG CTTT	60.2	602	INTERGENIC	--	--	--
Ca1_P3_29856647	Ca1	29856647	CTTT/CTTTT	GCATTCCCTGCTCAAG ACTC	AGACAAGGGAGAGTCC CACA	60.0	812	INTERGENIC	--	--	--
Ca1_P3_2989173	Ca1	2989173	TC/T	CATTGGATCCCCTTTT GAA	AGAGCCCTCCGTTTTA CCAT	59.7	233	INTRON	Ca_00363	PET	NAC
Ca1_P3_2993633	Ca1	2993633	TACACA/TACACACA	GCTGTTCTCTGTTGCTT CCC	TGACCATTCCCTACCC CATA	60.0	278	INTERGENIC	--	--	--
Ca1_P3_29945246	Ca1	29945246	AAAATCGATTAGTAAATCGATTAGT/AA AATCGATTAGT	GAGAAATTAGCCCAT GCCA	CGATTTCCAATCGGT TTTA	60.0	281	INTERGENIC	--	--	--
Ca1_P3_29994387	Ca1	29994387	GTTTT/GTTTTT	TCCAGCTTCCTCGAAA CCTA	AACAAGACCTGCGAAA ATCG	59.9	480	INTERGENIC	--	--	--
Ca1_P3_3002623	Ca1	3002623	TCA/TCACA	TCTTCATTGATTTCCCT CGG	CCAAGCAAGGGAACGT AGAA	60.0	523	DRR	Ca_00364	A	bHLH
Ca1_P3_3003040	Ca1	3003040	ATTTTT/ATTTTTT	TCTTCATTGATTTCCCT CGG	ACCATATTGCATGCC TTTC	60.0	955	DRR	Ca_00364	A	bHLH
Ca1_P3_30073453	Ca1	30073453	ACT/ACTCT	AGAAGAAATGGTGGTG ACCG	CACTTCCAAGGACTGC ATCA	60.0	472	DRR	Ca_22471	I	--

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
Ca1_P3_30097998	Ca1	30097998	ATTTTTTTTT/ATTTTTTTTTTT	TCACCGGTCGTGATAC AAAA	CGTCTCTGTAGGTTCT CGCC	60.0	520	INTERGENIC	--	--	--
Ca1_P3_30100111	Ca1	30100111	GAAAAAAAA/GAAAAAAAAA	GGAAAAGGTGTCCAAC CAAG	TTGCCACCCCTACTA AGTG	59.4	571	INTERGENIC	--	--	--
Ca1_P3_3013603	Ca1	3013603	ATTTTTTTTT/ATTTTTTTT	GCGTTAAAGTGGTGG TGGT	TCACCAATGTAATAGC CGCA	59.9	620	INTERGENIC	--	--	--
Ca1_P3_3013867	Ca1	3013867	GAAAAA/GAAAA	CAAGTTCAGCAACACC AGGA	AACCGACAAGGCAAGA AAGA	59.9	614	INTERGENIC	--	--	--
Ca1_P3_30153108	Ca1	30153108	AAGCTAG/AAG	CGAATCATGCGCAAGA ACTA	GCAAATTTTCATCATC GCA	60.0	821	INTERGENIC	--	--	--
Ca1_P3_30154835	Ca1	30154835	TTATATATATATATATATATATATA TATATATATATAT/TTATATATATATATA TATATATATATATATAT	TTTGGTGTCCAACGAT TCA	CAAACCCTTACCACC AAGC	59.9	525	INTERGENIC	--	--	--
Ca1_P3_3015571	Ca1	3015571	CAAAAA/CAAAA	AGGCAACCAATCTATG CCAC	TGGGATGTGAGAAATG CAAA	60.0	565	INTERGENIC	--	--	--
Ca1_P3_3018574	Ca1	3018574	CAATTAATTAATT/CAATTAATT	AGCCAACAGCCCAACA TAAA	AAGGTTTCATGTCCAAA TCGC	60.5	242	INTERGENIC	--	--	--
Ca1_P3_3020286	Ca1	3020286	A/AATAAATAAT	CAAGCAACATGCTGAA GGAA	ATGTCCTTAGTGTCAC GGGG	60.0	808	INTERGENIC	--	--	--
Ca1_P3_3020354	Ca1	3020354	AGG/AGGG	CAAGCAACATGCTGAA GGAA	ATGTCCTTAGTGTCAC GGGG	60.0	808	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 (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
Ca1_P3_3020776	Ca1	3020776	CAATTTAATTTA/CAATTTAATTTAATTT A	CCCCGTGACACTAAGG ACAT	GAAGGTCGCATCTCCA TGAT	59.8	513	INTERGENIC	--	--	--
Ca1_P3_3020844	Ca1	3020844	GAAAAA/GAAAAAA	CCCCGTGACACTAAGG ACAT	GAAGGTCGCATCTCCA TGAT	59.8	513	INTERGENIC	--	--	--
Ca1_P3_30243449	Ca1	30243449	AGG/AG	CCAAACCAAAATAAAACA TTCCAA	GAAGTCTGCCTTCCAG CAAC	60.0	463	INTERGENIC	--	--	--
Ca1_P3_30264384	Ca1	30264384	TAAAAA/TAAAA	TGTGCAAATAACGCAG ATTC	GGGTTTTATTGCAATC TCATGG	57.4	511	INTERGENIC	--	--	--
Ca1_P3_30273424	Ca1	30273424	ACTCTTTNNNNNNNNCTCTTTC/A CTCTTTC	GCCCCAACCACTACT CACT	TTTGGATCAAAAATTG GGG	59.9	450	INTERGENIC	--	--	--
Ca1_P3_30287511	Ca1	30287511	GTTTT/GTTT	CCATCAAACATCGTCAT GGA	ACTCAGATTGGTCTGT GGGG	60.3	305	INTERGENIC	--	--	--
Ca1_P3_3030441	Ca1	3030441	AATATATAT/AATATAT	AATAGTGAGGGGTGGA GGCT	TGATGGATGAGACAAA ATGCC	60.0	415	DRR	Ca_00367	--	--
Ca1_P3_30316576	Ca1	30316576	ATTTTTTTT/ATTTTTTT	TTCAAAGGTTGTGTTTC CCC	GGCTACACCAACATCG ACCT	59.8	598	INTERGENIC	--	--	--
Ca1_P3_3033831	Ca1	3033831	ATATCTATCTATC/ATATCTATC	GTGTTTGGCTTTGCAA CTGA	AGGAGAAGCTGACGG AACAA	59.9	675	DRR	Ca_00368	L	--
Ca1_P3_30352443	Ca1	30352443	CACA/CACAACA	TCATCTTGGGAGGTCT CGAT	TTGTGGTCTAGGCGTC AAAA	59.6	673	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
Ca1_P3_3035970	Ca1	3035970	TTCT/TT	AAGGAAGAAGCGCAAT TGAA	ATCCATCCCCTCATT CTCT	60.0	463	DRR	Ca_00370	--	ARF
Ca1_P3_30366063	Ca1	30366063	GA/GAA	GGCAATGTGTTGGTCA TAGC	AAACAAAAGCGAGAAC GCAT	59.0	560	DRR	Ca_22460	--	--
Ca1_P3_3037452	Ca1	3037452	AT/ATTTAAGTATTTGTT	ACACCAGCCGTTGAAT AAGG	ATAACGGTGGAGCCTG TTTG	60.0	916	INTRON	Ca_00370	--	ARF
Ca1_P3_3039653	Ca1	3039653	GTTTTT/GTTTT	CGGAATTTAGCTTTGGT TCTTG	GGCGTTTTGTTGATTC TGTTG	60.1	902	INTERGENIC	--	--	--
Ca1_P3_3039698	Ca1	3039698	ATT/ATTT	CGGAATTTAGCTTTGGT TCTTG	TAACGACGCGTGACAA TGTT	60.1	937	INTERGENIC	--	--	--
Ca1_P3_30398618	Ca1	30398618	GTTTTTTTTT/GTTTTTTTTTTT	TTAGGCCCAGTACAGT TCGG	GGGGTGCTCAACTTGT TTGT	60.1	901	INTERGENIC	--	--	--
Ca1_P3_30399037	Ca1	30399037	CATATATATATATATATATAT/CATAT ATATATATATATATATATAT	TAACGTGGCAAAGGTA AGGG	GGGGTGCTCAACTTGT TTGT	60.0	232	INTERGENIC	--	--	--
Ca1_P3_3039989	Ca1	3039989	T/TG	TTCTCCGCTAATTTCTC AACC	ATCCCCATCTGATT GTCA	58.5	683	INTERGENIC	--	--	--
Ca1_P3_30406481	Ca1	30406481	ATGTGTGTGTGTG/ATGTGTGTGTGTG TG	GTTGCGGGATTGAGAG ATGT	TGTTGGAAGGAAGCA GACT	60.1	459	INTERGENIC	--	--	--
Ca1_P3_30440874	Ca1	30440874	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAAT/AAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT	GAAATGCGGATGTGAG GTTT	ATGCTTTTGCCAATGA GGTC	59.9	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 (°C)	Expected 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_P3_3045928	Ca1	3045928	TGC/TGCGGC	ACCGTGCAATGCAGAT GTAA	TGATGCAGCCTAAGTG GATG	60.1	398	DRR	Ca_00371	I	--
Ca1_P3_30475415	Ca1	30475415	A/AC	ACGGCAAGACCCTAAA ACCT	AAACTTCTACTCGGGC CCAT	60.0	906	INTERGENIC	--	--	--
Ca1_P3_30475519	Ca1	30475519	ATTT/ATTTT	AGGATGCATGGGATGA AAAG	AAACTTCTACTCGGGC CCAT	59.9	766	INTERGENIC	--	--	--
Ca1_P3_3049357	Ca1	3049357	ATT/AT	ATCCTTAAAGAGAGGG GCCA	AAACCCAGGAAAGGGT CACT	60.0	888	INTRON	Ca_00371	I	--
Ca1_P3_3049531	Ca1	3049531	GTATAT/GTATATAT	TGATCCTACTCAATCCC CCA	CCAATTGCTTTGACCG TTTT	60.3	919	INTRON	Ca_00371	I	--
Ca1_P3_30508648	Ca1	30508648	CAAAATAAAAT/CAAAAT	AGCCCCCTTGACTGAA TCTT	AGGACACATTTGTTCC GAGC	60.1	144	INTERGENIC	--	--	--
Ca1_P3_3051042	Ca1	3051042	AAAAATAGGA/AAAAATAGGAAATAGG A	CCGATAGATGGTCACA CCAA	ACAAGCAAGAAAGAAT CGGG	59.4	571	INTERGENIC	--	--	--
Ca1_P3_3051782	Ca1	3051782	CGG/CG	TGCAGGTACAACCTCC ATTTT	TCTCCACGAGCTGAAA CCTT	60.0	854	INTERGENIC	--	--	--
Ca1_P3_3055342	Ca1	3055342	AC/ACC	CAATGGCGGTTTCAATT TTT	AGAAATGGTTGATGTG GGGA	59.8	913	DRR	Ca_00372	S	--
Ca1_P3_30682856	Ca1	30682856	CATATATATATATATATATAT/CATAT ATATATATATATATAT	GTTGGTTCCTAGCAC CGTA	TCCGCCTAGGAGATAG CAGA	60.0	672	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 (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
Ca1_P3_3069205	Ca1	3069205	CTTTTTTTTT/CTTTTTTTTT	ATAATGGGGAAGGGAA ATGC	TATTTGATATGTGGCC CGGT	60.0	607	INTRON	Ca_00374	EH	bHLH
Ca1_P3_3071270	Ca1	3071270	AGAAAAAATTTAATT/AGAAAAAATTTAA TTGAAAAAATTTAATT	AGGCACAAATGGAGCA AATC	TCCATTGACCATTTTC ACA	60.1	623	DRR	Ca_00374	EH	bHLH
Ca1_P3_30726711	Ca1	30726711	GTATTATTATTATTATTATTATT/GT ATTATTATTATTATTATTATT	CTTGCCGTGTGCGAAG ATGA	CCGGAACCAACCCCTT ATT	60.0	301	INTERGENIC	--	--	--
Ca1_P3_3072719	Ca1	3072719	A/ATAAG	GCGAATGGTTGAAACT GAAA	CGTTGGAACCTCCAAT GACT	58.7	563	INTERGENIC	--	--	--
Ca1_P3_3073454	Ca1	3073454	CAA/CA	CCTCCTTACGGCGAAA CATA	TTTTGAAAGGTGGGT GTGT	60.1	508	INTRON	Ca_00375	--	bHLH
Ca1_P3_30739956	Ca1	30739956	TAAAAA/TAAAAA	TTCGGAGCACACCTA CACA	GAATGGTGGCCATTAT TAAGGT	60.3	382	DRR	Ca_22454	OE	WRKY
Ca1_P3_30740000	Ca1	30740000	TTATATATATATATATATATATATAT/T TATATATATATATATATATATATA	TTCGGAGCACACCTA CACA	GAATGGTGGCCATTAT TAAGGT	60.3	382	DRR	Ca_22454	OE	WRKY
Ca1_P3_30745555	Ca1	30745555	G/GA	TTTTGGGTTTCCTTTT CCC	TGCAATATGTATCGTG GATGG	60.1	817	INTERGENIC	--	--	--
Ca1_P3_3074826	Ca1	3074826	A/AT	CACGAGGTTTGACCTC TTCC	CGTGTGAACATTGATA CACCTCA	59.7	578	INTRON	Ca_00375	--	bHLH
Ca1_P3_3075028	Ca1	3075028	A/AT	CACGAGGTTTGACCTC TTCC	CGATCGTCGCAATTTT CATA	59.7	841	INTRON	Ca_00375	--	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 (°C)	Expected 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_P3_3075180	Ca1	3075180	CT/CTTT	GAGGTGTATGAATGTT CACACGTA	CGATCGTCGCATTTT CATA	59.0	285	INTRON	Ca_00375	--	bHLH
Ca1_P3_3075382	Ca1	3075382	ATTTTT/ATTTTTTT	TTGTTGATGCATGTGA GATAAATG	TCATGGCAGTCTGCAA AAAG	59.9	336	INTRON	Ca_00375	--	bHLH
Ca1_P3_30755262	Ca1	30755262	CAAAAAAAAA/CAAAAAAAAA	AAGAGAGGTCACTTTG GCGA	TGACTGAGACAGCTCG ATGG	60.0	489	INTERGENIC	--	--	--
Ca1_P3_30770184	Ca1	30770184	TAAA/TAAAA	AGTGGCTTGAGGAGT TGGT	CGTTCGGCTTTCTCT TCTG	61.1	535	INTERGENIC	--	--	--
Ca1_P3_3084291	Ca1	3084291	AT/ATT	TCAAAATCCAACCTCTG TCC	AGCCACCGCAAAATT ACAC	60.1	576	INTRON	Ca_00376	--	bHLH
Ca1_P3_3089236	Ca1	3089236	ATTT/ATT	GCAAAACGTCTTATCG GGAA	TGCAAACTATTTGACAT TGACG	60.1	591	INTERGENIC	--	--	--
Ca1_P3_3089287	Ca1	3089287	TTGTAAT/TT	GCAAAACGTCTTATCG GGAA	TGCAAACTATTTGACAT TGACG	60.1	591	DRR	Ca_00378	I	--
Ca1_P3_3091233	Ca1	3091233	AATAAATCTCAATAT/AAT	TCAGACTTATGGTCGG CACA	AACCAGATGGTTCGTG GAAG	60.3	233	DRR	Ca_00378	I	--
Ca1_P3_3092960	Ca1	3092960	ATGTTGTTGTT/ATGTTGTTGTTGTTG T	TTTTCGCCGCTTAGTTG TCT	TCTGGTTCCAAAAGCA ATCA	60.0	120	INTERGENIC	--	--	--
Ca1_P3_3093078	Ca1	3093078	AT/A	TTTTCGCCGCTTAGTTG TCT	GGCCTATATACAATGG CGGA	60.0	623	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 (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
Ca1_P3_30936047	Ca1	30936047	ATTTTTTT/ATTTTTTTT	ACGGTAGGGTTACGAT GCAG	AGGTCACACAGCACTT GCAC	60.0	564	INTERGENIC	--	--	--
Ca1_P3_30943497	Ca1	30943497	G/GGATAATAATAATAAT	TCATCTCGCTCTCCACC TTT	GGAAGCGACCTGCTAT TGAG	60.0	965	INTERGENIC	--	--	--
Ca1_P3_30969530	Ca1	30969530	ATACTTGT/AT	GTTATCCGGGTTAATTG GCA	AAAACGCTCGCTTTGT TAGC	59.7	631	INTERGENIC	--	--	--
Ca1_P3_31005556	Ca1	31005556	TATTAATTAATTAATTAATTAAT/TATTA ATTAATTAATTAAT	CAAAAGCTTTGAGGAG CGAT	GTTTCGGTTTTGACCA CCAT	59.6	598	INTERGENIC	--	--	--
Ca1_P3_3102430	Ca1	3102430	GTTTTTTTTT/GTTTTTTTTT	ATTCAAGTGGGACGGT TCAC	TATCGTTGCCACCAAT TTCA	59.8	216	INTRON	Ca_00379	--	bHLH
Ca1_P3_3104925	Ca1	3104925	CTTTTTTT/CTTTTTTTT	TGTGTCTGTTGACAAT CACTT	ACCCGAATTTAGTGCA CGTC	59.1	795	DRR	Ca_00379	--	bHLH
Ca1_P3_31072943	Ca1	31072943	TAAAAAAA/TAAAAAA	CGCTCAGCTCGGGTAT AGAG	CAAACCGGATGTGACA GTTG	60.1	615	INTERGENIC	--	--	--
Ca1_P3_3107522	Ca1	3107522	ATTTTTT/ATTTTTTT	CACGCTCGCAATGATA AAGA	AAACGTGATCGAACGA ATCC	60.0	695	INTERGENIC	--	--	--
Ca1_P3_31090559	Ca1	31090559	CAA/CA	CGCTCGCTCATTGAATA ACA	CTCCACGACCATCCTG AAAT	60.0	417	INTRON	Ca_25826	S	--
Ca1_P3_3110575	Ca1	3110575	TATTATAATTATAATTATAATTATAATTA /TATTATAATTATAATTATAATTA	TTCCATTTCCTACTTGC TCG	TGGAAGCATGATTATG GTGTG	59.0	285	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
Ca1_P3_3111052	Ca1	3111052	GTTTTTTTTT/GTTTTTTTTT	CACACCATAATCATGCT TCCA	ATACATTGGCAAAGC CAAC	59.4	517	INTERGENIC	--	--	--
Ca1_P3_3111391	Ca1	3111391	AGG/AGGG	GTTGGCTTTGCCGAAT GTAT	CGTTGCATTTTCAAGT CTCG	60.0	254	INTERGENIC	--	--	--
Ca1_P3_3111483	Ca1	3111483	TAAAA/TAAA	GTTGGCTTTGCCGAAT GTAT	CGTTGCATTTTCAAGT CTCG	60.0	254	INTERGENIC	--	--	--
Ca1_P3_31117965	Ca1	31117965	AATATA/AATA	GGGACATCAGAATGCT CACA	TGCGACACACGAATTA CACA	59.6	536	INTERGENIC	--	--	--
Ca1_P3_31118295	Ca1	31118295	T/TG	TCGTGTGTCGCACATA AACA	CATGCAAATTCAAAGC TAAAAACA	59.7	566	INTERGENIC	--	--	--
Ca1_P3_31125934	Ca1	31125934	T/TTA	TTTGTGTGTGCGCAAG TCAG	TTCTGCAGGTATCAC ATTTTT	59.8	368	INTERGENIC	--	--	--
Ca1_P3_31147497	Ca1	31147497	TAAAAA/TAAAA	AGCACCCCTCAAAGCA TAAA	ATTACAAGGAAGGGGG TTGG	59.7	862	INTERGENIC	--	--	--
Ca1_P3_31163466	Ca1	31163466	T/TAGA	ACTTTTGGGAGAAGC ACAT	CGTTCGTCTTTTCCTC TTGC	59.9	360	INTERGENIC	--	--	--
Ca1_P3_31188680	Ca1	31188680	CTTTTTTTTT/CTTTTTTTTT	TATCAGAGTTCTCCCA CCG	GGTGTGAGTTGGCGG TTATT	60.1	536	INTERGENIC	--	--	--
Ca1_P3_31194406	Ca1	31194406	ATTTGAAGCTATTGTTTGAA/ATTGAA GCTATTGTTTGAAGCTATTGTTTGAA	AACCACAACCACATCAA TGC	CAACAACCATGCACTC TTGG	59.3	677	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 (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
Ca1_P3_3124668	Ca1	3124668	CAT/CATATAT	TTTACGGTGCATCAATT TGC	CATTGCTTGGTTTGTG CATC	59.6	133	INTRON	Ca_00382	--	--
Ca1_P3_3124734	Ca1	3124734	AATATATATAT/AATATATATATATAT	GATGCACAAACCAACG AATG	TGTTGCCCTTTCATTT GTCA	60.0	551	INTRON	Ca_00382	--	--
Ca1_P3_3125340	Ca1	3125340	GATAAATAAATAAATAAATAAA/G ATAAATAAATAAATAAATAAATAA ATAAA	ACCACTGAATCATGCA CCAA	CAGTCTGCAGTGACCT TCCA	60.0	103	INTRON	Ca_00382	--	--
Ca1_P3_3125906	Ca1	3125906	GAAAAA/GAAAAAA	GAAATCCACCATCG AACC	TGATTGATGTGCCTTA CCCA	60.2	595	INTRON	Ca_00382	--	--
Ca1_P3_3125978	Ca1	3125978	CAA/CAAA	GAAATCCACCATCG AACC	TGATTGATGTGCCTTA CCCA	60.2	595	INTRON	Ca_00382	--	--
Ca1_P3_31305353	Ca1	31305353	A/AC	TGCTCATCAGTAATTGC ACAAA	GAAGGCTTGTCCTT TTCA	59.4	327	INTERGENIC	--	--	--
Ca1_P3_31329661	Ca1	31329661	ATTTTTTTTTT/ATTTTTTTTTTTTT	GATTGAGGGGCAAATC TTGA	TTGTTTCCATGTCCGT CTCA	60.0	531	INTERGENIC	--	--	--
Ca1_P3_3133490	Ca1	3133490	AATTATATTATA/AATTATA	CCACATTTGCCACTTT TCA	TCGCTTTTAAACCAA CCAG	59.6	853	INTERGENIC	--	--	--
Ca1_P3_31341315	Ca1	31341315	CTT/CTTT	TGTCCATTTGAACTTC GGTT	AGAGCAAAATCGCTCC AAAA	59.5	772	INTERGENIC	--	--	--
Ca1_P3_31354820	Ca1	31354820	AAAG/A	CGGTCTTCTCCACAAA GAGC	TTAAAGGCATCTACCC GTGC	60.0	718	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
Ca1_P3_31368685	Ca1	31368685	CATATATATATATATATAT/CATATATAT ATATATATATATAT	GAAACAAGTACCCTGC CCAA	CCGCAGAAAGTTTCC ACAT	60.0	807	INTRON	Ca_21855	O	--
Ca1_P3_3137798	Ca1	3137798	TAAAAAAAAA/TAAAAAAAAA	ATCGGGGTGGACAAA CATA	ATCGATCAGTGGGAA TTTG	60.1	217	INTERGENIC	--	--	--
Ca1_P3_3138107	Ca1	3138107	A/ATT	ATCGGGGTGGACAAA CATA	GGGCTTTAAATTGAGT GAGGC	60.1	683	INTERGENIC	--	--	--
Ca1_P3_3138261	Ca1	3138261	AATATATATATATA/AATATATATATA TATATA	ATCGATCAATTGCTTGG ACC	GGGCTTTAAATTGAGT GAGGC	59.9	472	INTERGENIC	--	--	--
Ca1_P3_31384103	Ca1	31384103	GAAAAAAAA/GAAAAAAAA	TCCAATTGGCTACAGAA CCC	TGAATTCTGGTGACTC GTGG	59.9	563	DRR	Ca_21856	--	--
Ca1_P3_31442895	Ca1	31442895	T/TA	AATTTCCGAGCACGCA TAAC	TCCACGAGTATGATT GTGGTT	60.1	299	INTERGENIC	--	--	--
Ca1_P3_31442996	Ca1	31442996	ACACCAC/ACAC	AATTTCCGAGCACGCA TAAC	CTCGGGTAGGATCCAA CAAA	60.1	743	INTERGENIC	--	--	--
Ca1_P3_31448865	Ca1	31448865	GTTTTTTTTT/GTTTTTTTTT	TAAGGGTCCCACCCAT CTTT	TAATTGCTCCTGCGGT CTTT	60.5	737	INTERGENIC	--	--	--
Ca1_P3_31477691	Ca1	31477691	CAAAA/CAAAA	AAGGGAACGGGTACC AAAC	ACCCGTAAACCCCAA TCTC	60.1	629	INTERGENIC	--	--	--
Ca1_P3_31478810	Ca1	31478810	TAAAAAA/TAAAAAA	AATTTGGAGCTGTTTG GGA	TGGTCCCCCACTTAAC CTCA	59.5	338	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
Ca1_P3_3148374	Ca1	3148374	TAAAAA/TAAAAAA	AATACCCCATGACCC ATCT	GTGGACACCAGATACG CCTT	60.3	579	INTRON	Ca_00385	--	--
Ca1_P3_31490463	Ca1	31490463	GATATATATATA/GATATATATATATA	CATTCATTTGCAAAACG CC	GGCGGTCTAAGGTAAC CACA	60.1	818	INTERGENIC	--	--	--
Ca1_P3_31490990	Ca1	31490990	ATTTTTTTTT/ATTTTTTTTT	TGTGGTTACCTTAGAC CGCC	TGTCATTTTGGCGTA GTGG	60.0	703	DRR	Ca_21862	--	Trihelix
Ca1_P3_31491889	Ca1	31491889	CGCTTTTAGCTTTT/CGCTTTT	CCACTACGCCAAAAAT GACA	GCTGGGCAAGGGATCT AAA	59.6	865	DRR	Ca_21862	--	Trihelix
Ca1_P3_31498685	Ca1	31498685	AGG/AG	TTGGAGCTTCAGCATT GTG	CCTCTTTCTTCGCATT TCG	60.0	747	DRR	Ca_21863	--	M-type
Ca1_P3_3155018	Ca1	3155018	GAAAAAAA/GAAAAAAA	ATAGATCAACGCCGTC AACC	CATGTGCTCTGTTCTT CCCA	60.0	591	INTERGENIC	--	--	--
Ca1_P3_3155301	Ca1	3155301	T/TTA	GGGTTGCTTTGGATTG AAGA	ATGCATTGCAGTTTG CACT	60.1	772	INTERGENIC	--	--	--
Ca1_P3_31592114	Ca1	31592114	CT/CTTT	TCAGCTGCAGTTCCAA CATC	GCACAAGTCCTTGAGG AAGC	60.0	375	INTRON	Ca_21868	F	--
Ca1_P3_31592347	Ca1	31592347	GAA/GAAAA	CCTGTGTAGCCAGCTT CCTC	TAGCCTCATTCACTCT CGCA	60.0	618	INTRON	Ca_21868	F	--
Ca1_P3_31600651	Ca1	31600651	AC/A	GGATGGAAGAGAAATT GGGA	AGGATCATGTTTGTGG TTGC	58.9	899	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
Ca1_P3_31602245	Ca1	31602245	TTATATATATATATATATATA/TTATA TATATATATATATA	TTTCGTGTGCGTCAAAT CAT	AGAGGCACACGGGTCT AATG	60.1	756	INTERGENIC	--	--	--
Ca1_P3_31647394	Ca1	31647394	GTTTTTTTTTTT/GTTTTTTTTTTTTT	TCTCTTATTCTCTTCGC CGC	TGTTCCGATGAATGTT CCTTT	59.7	454	INTERGENIC	--	--	--
Ca1_P3_31664962	Ca1	31664962	AA/AAATA	TTCACTCGCGTTTGTCA CTC	TAGGGGGCCTTTAGTG TGTG	60.0	603	INTERGENIC	--	--	--
Ca1_P3_31768486	Ca1	31768486	TT/TTTTTTAT	ACACATTATATTAATG CGCGA	TGCCAAACGATAGGTT GTTG	57.4	646	INTERGENIC	--	--	--
Ca1_P3_31783386	Ca1	31783386	AT/ATT	TGGATTGGGCTGGAAT TAAA	TATAACCGACGAGGGA CGAG	60.3	466	INTERGENIC	--	--	--
Ca1_P3_31783811	Ca1	31783811	TTAATAATAATAATAATAATAATA TAATAAT/TTAATAATAATAATAATA ATAATAATAAT	ATACTGCCTTCGATCC GTTG	CGGGAAAAAGGGTGG TAAAT	60.1	477	INTERGENIC	--	--	--
Ca1_P3_31894698	Ca1	31894698	AATATATATATATATATATATA/AATA TATATATATATATATA	CTGGCCTGTAGCCCA TTTA	TTCCGAGTTGTTTGTAG AGGA	60.1	602	INTERGENIC	--	--	--
Ca1_P3_31995500	Ca1	31995500	CTTT/CTTTT	TGCTTTGAAGACCATGT GGA	AAAAGGATTCATGCGT GTCC	60.2	354	INTERGENIC	--	--	--
Ca1_P3_32019371	Ca1	32019371	AATATATATATATATATATATATAT ATATATATATA/AATATATATATATAT ATATATATATATATATATATATATA TATA	GGTGCACGTGTAGCAC AAAC	TTGCCACAGTTAACCA CCAA	60.2	422	INTERGENIC	--	--	--
Ca1_P3_32030892	Ca1	32030892	AATATATATATATATATATATATAT ATATATAT/AATATATATATATATATA TATATATATATAT	CATGGATGGGTTTGT ACCC	TTGGAAGGAGCCCTTA CCTT	59.9	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 (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
Ca1_P3_32037255	Ca1	32037255	CA/CAA	GGGAAAACCTTTGTGT GGGA	TTGGCAAATCGATTAG ACTGG	59.8	802	INTERGENIC	--	--	--
Ca1_P3_32037334	Ca1	32037334	CTTTTT/CTTTT	TCCAGTCATGTGGCTT CTCA	CTGAGCTTGTGACCAA ATCG	60.4	559	INTERGENIC	--	--	--
Ca1_P3_32038703	Ca1	32038703	GAAAAAAA/GAAAAA	AAAATCCAACAATCTCC CCC	TGGAAGCACGCTTAAG GACT	60.0	683	INTERGENIC	--	--	--
Ca1_P3_32078246	Ca1	32078246	TA/TAAAAA	CTCGGTTTCGAACAGGA GAAG	TATGTCAACAACCCCC TGGT	60.0	702	INTRON	Ca_26405	--	--
Ca1_P3_32079499	Ca1	32079499	A/AG	ACCCAGATAAAAGG GGTG	GAGGGCTCTCAGCCAC ATAG	60.0	341	INTRON	Ca_26405	--	--
Ca1_P3_3209604	Ca1	3209604	ATTTTTTT/ATTTTTTT	TCAATAGGGTCGTTTCT CGG	TTACATTTTGAAGTG GGGC	60.1	392	INTERGENIC	--	--	--
Ca1_P3_32147050	Ca1	32147050	T/TA	CGGCCTCCAATCTTTA ACA	TTGTCATGAAAGTCTC GCCT	60.1	670	INTERGENIC	--	--	--
Ca1_P3_32153452	Ca1	32153452	TTTATTTTAT/TTTATTTTATATTATTTTA T	GTTTTGGCGTTGGTTT CACT	TGGGTTTGACCCTATG TGTG	60.0	353	INTERGENIC	--	--	--
Ca1_P3_32153737	Ca1	32153737	TTATATATATATAT/TTATATATATATAT AT	CACACATAGGGTCAAA CCCA	ATACATGGATTGGTTG GGGA	59.3	585	INTERGENIC	--	--	--
Ca1_P3_32154060	Ca1	32154060	TGTATTGTAAGTATTGTAAG/TGTATTG TAAG	ATGGAATACTCCCCAA CCAA	ACTTGCAAAATCCAAAT GCC	59.1	446	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
Ca1_P3_32189060	Ca1	32189060	ATTTT/ATTTT	ATTAACGCCATTGCCTT GTC	GCTTTTCCTCGCTTC CTTT	60.0	632	DRR	Ca_26126	QI	bHLH
Ca1_P3_32191667	Ca1	32191667	ATTTTTTTTT/ATTTTTTT	CATCATGATCAAGGGA CCAA	AAGTTAGCGGTCGGGA GAAT	59.3	413	INTERGENIC	--	--	--
Ca1_P3_32244195	Ca1	32244195	A/AG	TGAATAGAGGGAACG GGTG	CAGTGACCTTGTGGAG AGCA	59.9	640	INTERGENIC	--	--	--
Ca1_P3_32259713	Ca1	32259713	TAACAA/TAACAACAA	CCAAAAATTCGTCGCAA ACT	CCGGATTACACTTCC GATA	60.1	616	INTERGENIC	--	--	--
Ca1_P3_32312793	Ca1	32312793	GTT/GT	GATTGGCTCAGCAGAA GTCC	TTTCAAGCAGCGGAAA AAGT	60.0	561	INTERGENIC	--	--	--
Ca1_P3_32312813	Ca1	32312813	ATTT/ATTTT	GATTGGCTCAGCAGAA GTCC	TTTCAAGCAGCGGAAA AAGT	60.0	561	INTERGENIC	--	--	--
Ca1_P3_32430396	Ca1	32430396	TG/T	TCGTTTGAGCCTTTCGA ACT	GCAATCACAATGCAGC AAAC	60.0	473	INTERGENIC	--	--	--
Ca1_P3_3244914	Ca1	3244914	CATATATATATATAT/CATATATATAT ATATATAT	CTTGATCACCACCACCTC CCT	TCAATTA AAAACCGGG TCAA	60.0	797	INTERGENIC	--	--	--
Ca1_P3_32485193	Ca1	32485193	CAAAAAAAAA/CAAAAAAAAAA	ACAATGTAGCAAAGAC GGGG	CTTGTGCGATGCACAG ATAA	60.0	692	DRR	Ca_26796	Z	--
Ca1_P3_32801754	Ca1	32801754	ATTTTTTTTT/ATTTTTTTTTT	CTGATTGTAGCCTTGT GCGA	CAGCAGAAACAGAAGT GGCA	60.0	369	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
Ca1_P3_32852360	Ca1	32852360	CATATATATATATATAT/CATATATATAT	GTATTTCTGGATCTTGG CTCG	AATGGAGGAAGGAGG GAGAA	59.7	415	INTERGENIC	--	--	--
Ca1_P3_3287281	Ca1	3287281	TAAAAAAA/TAAAAAAA	TGCTGAAAGAGTTGTC GGTG	AGAGGGACCACAAAGT CAAA	60.0	516	INTRON	Ca_00398	--	LBD
Ca1_P3_32876010	Ca1	32876010	AAACAACAACAACAACAACAA/AAA CAACAACAACAACAACAACAACAA	CCAACCAAAACAAAT CCC	ACACTACGGTGCTTGT GAGC	59.2	572	INTERGENIC	--	--	--
Ca1_P3_32906329	Ca1	32906329	TTATATATATATATAT/TTATATATAT ATAT	TCATTAAATCAAAGGCA CACAAA	TCGTATGTCATAGCGG TGCT	59.5	488	INTERGENIC	--	--	--
Ca1_P3_32943900	Ca1	32943900	CACTTAC/CAC	CGAGAAGACCCTTTT GAAGC	CTTTGACTTCCCTCC CCTC	60.4	801	INTERGENIC	--	--	--
Ca1_P3_329558	Ca1	329558	TAAAAAAA/TAAAAA	TCGGTTTGATTTCGATT TGG	ATTCACTCTGTCGTGG GACC	60.8	490	INTERGENIC	--	--	--
Ca1_P3_32960646	Ca1	32960646	CA/CACATAAAATGTA	CCGAGCCAAATCCAA AATA	ACTTCATTGTCTCC ATGC	59.9	215	INTERGENIC	--	--	--
Ca1_P3_33018948	Ca1	33018948	CTT/CT	TTGCAACTCCTCTT CCT	CACATCATCACACAT GCCA	60.0	481	INTERGENIC	--	--	--
Ca1_P3_33034774	Ca1	33034774	AATATATATATATA/AATATATATATA	ACCCCAACTTGTAAG GCAA	TCACGTTGATTGAGG ATGA	59.5	618	INTERGENIC	--	--	--
Ca1_P3_33102523	Ca1	33102523	TTT/TTTATT	AAGGCTAAATCACATTC GTGG	TCACCTCCGTCATGT CAAA	59.1	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 (°C)	Expected 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_P3_33131597	Ca1	33131597	TC/TCAAC	TCCACCCACGATACTG ATGA	ACAGATTCTCCACAAT GGGC	59.9	529	INTERGENIC	--	--	--
Ca1_P3_33147438	Ca1	33147438	CATATATATATATATATATAT/CATATAT ATATATATATATATATATAT	TTAATGGTGGCTGCAA CAAA	CCTCCATGGTTGTTGT TTGA	60.1	617	INTERGENIC	--	--	--
Ca1_P3_33154204	Ca1	33154204	AGCGCTGTAAATGGGCGCTGTAAAA TGGGCGCTGT/AGCGCTGTAAATGG GCGCTGTAAATGGGCGCTGTAAAT GGGCGCTGT	TTCAATGAAAGCGCAT GTGT	GGGATTGACCAAACT GTGC	60.3	344	INTERGENIC	--	--	--
Ca1_P3_33160136	Ca1	33160136	T/TA	CGCGAGTAATGAAAT GGGT	GGACTTCCAATCAGTT CCCA	60.0	533	INTERGENIC	--	--	--
Ca1_P3_33182977	Ca1	33182977	TCCC/TCC	ATGCCCCGTGAATATCT GTCC	GAGGTGTCTCAGGTG GGGTA	59.8	597	INTRON	Ca_19440	A	--
Ca1_P3_33187249	Ca1	33187249	GTAT/GTATAT	TAAAGGTTCCCTCGCAT CTG	CACCACAGAAGAACTT GGCA	60.2	530	INTRON	Ca_19440	A	--
Ca1_P3_33228816	Ca1	33228816	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATA TATATATATAT	TACCTTTGTGCTTCCCC ATT	ACCAAACACCCCAAT ATGA	59.4	842	INTERGENIC	--	--	--
Ca1_P3_33247147	Ca1	33247147	TA/T	GTGTTGGACCGTTCT TGAT	GTCTGATGACAAAAGG GGGA	59.8	643	INTERGENIC	--	--	--
Ca1_P3_33286471	Ca1	33286471	ATTT/ATTTT	ATTATCAGAGAGTCCC CGGC	CAGATTGGCACCTATG AGCA	60.4	879	INTERGENIC	--	--	--
Ca1_P3_33291292	Ca1	33291292	TCC/TC	AGACATCGCTCATACC CCTG	CCGTGGAGTTGTGTC AATG	60.1	594	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
Ca1_P3_33304561	Ca1	33304561	CA/CAA	AACGTACTGCCTATCAC GGG	TTTTGTAAATCGTGCA GACCC	60.0	340	INTERGENIC	--	--	--
Ca1_P3_33322247	Ca1	33322247	CTTTTT/CTTTT	TGGACAACGTTCCAAA AACA	GCCAATGCAACACAAA CAAC	60.0	470	DRR	Ca_19441	--	MIKC
Ca1_P3_33336930	Ca1	33336930	GAAAAA/GAAAA	CAATGGCAACAAGTC AATG	TCACATCTGTTGGTAA CGGG	60.0	856	INTRON	Ca_19441	--	MIKC
Ca1_P3_33347713	Ca1	33347713	CTTTTTT/CTTTTTT	TGCAAAGCGATCTTCC CTAT	AGCTCGGGTTATGGTT GATG	59.8	425	INTRON	Ca_19441	--	MIKC
Ca1_P3_33365935	Ca1	33365935	CTTTTTTTTTT/CTTTTTTTTTTTTT	CCACGTGTGGTCCCTT AACT	TTTTTCTCCCATTG GTCA	59.9	485	INTRON	Ca_19441	--	MIKC
Ca1_P3_33366605	Ca1	33366605	TAAAAAAA/TAAAAAAA	TGACCAAATCGGGAGA AAAA	ACCCTTCTCCACCTT GGAT	60.4	741	INTRON	Ca_19441	--	MIKC
Ca1_P3_33407768	Ca1	33407768	TA/TAA	TGGCCATCAATTAATCC ACTC	GATCTGCAACTGGGG TAAA	59.8	230	INTERGENIC	--	--	--
Ca1_P3_33426830	Ca1	33426830	GATATATATATATATATA/GATATATA TATATATATATATA	AATCTGGCTTGAGAA TGGA	AACCATATGGGTGTT GTCCTT	59.6	768	DRR	Ca_19444	--	--
Ca1_P3_33452743	Ca1	33452743	CCTTCTTCTTCTTCTTCTTCTTCTT CTTCTTCTTCTT/CCTTCTTCTTCTTCTT CTTCTTCTTCTTCTTCTTCTT	TTGGATCCAGAGGCAG AGTT	TGAAGAAGAGGAGCCC AAGA	59.8	477	INTERGENIC	--	--	--
Ca1_P3_33476619	Ca1	33476619	CTTT/CTT	ACCAGCAACCATAAAAA CGC	AATTGGTTTCATGACC TGCAC	60.0	450	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 (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
Ca1_P3_33502148	Ca1	33502148	TTT/TTTATT	TCCCTTTTAAATAACA TGTGCAA	CACCCCTTACCTCGAC TGAA	59.8	725	INTERGENIC	--	--	--
Ca1_P3_33514102	Ca1	33514102	ATTTTTTTTTT/ATTTTTTTTTT	CAATGTCGAGAACTTC AAGCA	AATTCAGTCGGAAAG CGAA	60.4	784	INTERGENIC	--	--	--
Ca1_P3_3352776	Ca1	3352776	C/CT	ACCCTGAAAATCAGGA CGTG	CTCCGAATTTCAAGGG AAAA	60.0	239	INTERGENIC	--	--	--
Ca1_P3_33564950	Ca1	33564950	TAACATCCATTGAAA/TAACATCCATT TGAAAACATCCATTGAAA	AGATGGGTGCATAGGA GTGG	ACGGCTGATGGAATCA GAAC	60.0	611	INTERGENIC	--	--	--
Ca1_P3_33567505	Ca1	33567505	CATATATATATATATATAT/CATATAT ATATATATAT	GCATTCCCTCATTGTAA CTCG	GGGTTTGAGTTTGATG ACAGG	59.6	711	INTERGENIC	--	--	--
Ca1_P3_33603009	Ca1	33603009	C/CCCTACAAGAAG	CAAATCTTCTTCAAATC TTGACCAT	AGGCACATGTTGGCTT CTTC	59.9	285	INTERGENIC	--	--	--
Ca1_P3_33604424	Ca1	33604424	GAAAAAAAAA/GAAAAAAAAA	TGATCATGACGTTGAT GGCT	TGTGGTTAGGTGAGCT GGAA	60.1	551	INTERGENIC	--	--	--
Ca1_P3_33638489	Ca1	33638489	ATT/ATT	CGCAGATTGATCTTGAA GCA	TGATCTTTTGCTTGGT GCTG	60.1	581	INTERGENIC	--	--	--
Ca1_P3_33653494	Ca1	33653494	TTTATTATTATTATTATTA/TTTATTA TTATTATTATTATTATTA	TGGGCAAAATGTTAAG AACACA	AGAACAAATGCATGAT TCTTGG	60.4	573	INTERGENIC	--	--	--
Ca1_P3_33658726	Ca1	33658726	ATTT/ATT	ATGTGAATCCCACCAG GAAA	TTGCACAGCCAAGTTC GTAG	60.2	778	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 (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
Ca1_P3_33665321	Ca1	33665321	ATTTTTTT/ATTTTTTT	AGTGCAAAGTCAAAT CACG	CTGTACGGGTGGATC GAGT	59.9	420	INTERGENIC	--	--	--
Ca1_P3_33681689	Ca1	33681689	TA/TAA	AACGTTGTGGAGGAAA TTGG	GCCTCAAGCAATTTGT GGAT	59.8	801	INTERGENIC	--	--	--
Ca1_P3_33746473	Ca1	33746473	GTATATATATATATAT/GTATATATAT AT	CCAATCGATTCTCCCA AAA	TTTCATCAAAAACCCC CTTG	59.9	779	INTERGENIC	--	--	--
Ca1_P3_33777775	Ca1	33777775	ATTT/ATT	CATGCTCAATACACGG ATGG	AACGTTCTTGAGTGGC TTGG	59.9	870	INTERGENIC	--	--	--
Ca1_P3_33781062	Ca1	33781062	CTTTTTTT/CTTTTTTTTT	AATTTCCCAATCACCCA CAA	TCCACAATGTCTCCCA ACAA	60.0	517	CDS (FRAME SHIFT)	Ca_19460	--	--
Ca1_P3_33795058	Ca1	33795058	ATTTTTTTTT/ATTTTTTTTT	TTGGGGTTTGGCAGTT TTAG	CTTGTTCCGGGTACCTC GTGT	60.0	502	INTERGENIC	--	--	--
Ca1_P3_33803595	Ca1	33803595	AC/ACC	TATTCAGATCCCTTGCC CAG	TGTACGAGAAGGTCGT GTGC	60.0	758	INTRON	Ca_19463	--	Trihelix
Ca1_P3_33812037	Ca1	33812037	GTTTTTTTTT/GTTTTTTTTT	GAAAGCGCATGCATTTT ACA	TAGCCGCATCTCATCA ATCA	59.8	706	INTERGENIC	--	--	--
Ca1_P3_33905908	Ca1	33905908	GAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATTGTA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATA/GAATAA TAATAATAATAATAATAATAATAATAAT	TGTGGAGGTGAGGTTT CTTC	TCCACAATGTAACGCT CCAG	60.1	454	INTERGENIC	--	--	--
Ca1_P3_34137124	Ca1	34137124	GTTTTTTTT/GTTTTTTTT	GCAAGCATTGTCCTCG ACTT	CATTGGTGAATGTGT GCAT	60.4	587	DRR	Ca_25472	QI	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 (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
Ca1_P3_34140254	Ca1	34140254	TAAAA/TAAA	AATCCAATTGCGATGCT TCA	GACCAAAACCGTCTTT TCCA	59.1	210	INTRON	Ca_25472	QI	bHLH
Ca1_P3_34145521	Ca1	34145521	TAAAA/TAAA	CGCACACATTAAGCCTT AGC	TTCTTTTATTCAAATCG GACATCA	58.6	530	INTERGENIC	--	--	--
Ca1_P3_34160007	Ca1	34160007	C/CAT	TGGAGACACTTGCCCT CAAT	TTTTATGTCAGGGCGA AACC	60.7	501	INTERGENIC	--	--	--
Ca1_P3_34160476	Ca1	34160476	TG/TGG	GGTTTCGCCCTGACAT AAAA	ACTCTGGACACTTGGG TTGC	59.9	773	DRR	Ca_25473	O	--
Ca1_P3_341635	Ca1	341635	TGATTGGGATT/TGATTGGGATTGGA TTGGGATT	GAGGAAGTGGTGTCTG TGGT	CGGTTTGGTGAAAAA GAGA	60.0	652	CDS (large-effect mutations)	Ca_00034	S	B3
Ca1_P3_34165386	Ca1	34165386	GAAAAAAAA/GAAAAAAAAA	AACCCAATAATCTCTCT GGGC	ACATTGAAAGGAGAAC CGCT	59.4	443	INTERGENIC	--	--	--
Ca1_P3_34169923	Ca1	34169923	GAA/GAAA	CCATTTCCCTTGTCTCT GTG	AAGCCTTGAAGGAGA AAGC	60.5	538	INTERGENIC	--	--	--
Ca1_P3_34177476	Ca1	34177476	TAAAAAAAA/TAAAAAAAA	AAGAACATGGATGGGG ATGA	TTCATAAACGCAACGT GCTC	60.1	412	INTERGENIC	--	--	--
Ca1_P3_34179876	Ca1	34179876	ATCTTTCTTT/ATCTTT	CAACAGAATGGTGCTT AGGG	TTTGATAATGGGCAA AAGG	60.5	160	INTERGENIC	--	--	--
Ca1_P3_34215575	Ca1	34215575	G/GTA	GTTGAGCCAAAAACCG ACAT	CGACTCCAGCCTCTTC ATTG	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 (°C)	Expected 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_P3_34231675	Ca1	34231675	GAAAAAA/GAAAAAAA	CAACAGAGCACTTCC ACGA	AATATCCTGGTGCACC CAAC	60.0	545	INTERGENIC	--	--	--
Ca1_P3_34250780	Ca1	34250780	CTT/CTTCATTTTATTTT	TTGGAGTCGAAGTGAA ACCC	ACATTGAGGTGGTGGT GGAT	60.1	561	INTERGENIC	--	--	--
Ca1_P3_34263760	Ca1	34263760	TA/TTGCACA	ATCCAAAATGGGATGG ATGA	GTTCCGAACATGCTGT CCTT	60.0	703	INTRON	Ca_25475	M	MYB_related
Ca1_P3_34277520	Ca1	34277520	TCTTTCTCTCTACTTTCTCTCTAC TTTCTCTCTC/CTCTACTTTCTCTCTC TACTTTCTCTCTACTTTCTCTCTC	GAGCAACAGCGAAAAAG GAAC	CATAATGCATTGCGTC AACC	60.0	452	INTERGENIC	--	--	--
Ca1_P3_34278298	Ca1	34278298	ATTTTT/ATTTTTT	TGGAGCGACTTGTAGT GTTTG	CCAAAATGAAGGTCT CAATTC	59.0	588	INTERGENIC	--	--	--
Ca1_P3_34279803	Ca1	34279803	TAATAAGCA/T	AGGTTGGTCTGGCTCA AAAA	AAGTTGGGTCGTCGTC AGAG	59.7	418	INTERGENIC	--	--	--
Ca1_P3_34281146	Ca1	34281146	AAATAATAATAATAAT/AAATAAAAA TAATAATAATAATAAT	TTCGTACCCTCATCCCT CAC	AGAGTAGCAGCCCTAT GCCA	59.9	566	INTERGENIC	--	--	--
Ca1_P3_34301461	Ca1	34301461	GTATATATATATAT/GTATATATATATAT ATAT	TCGGTTGGAGAAGATG AAAGA	CAATATTGTGTTTGGG CCGT	59.8	368	INTERGENIC	--	--	--
Ca1_P3_34313358	Ca1	34313358	GTG/GTGATG	GGGGTAATAGGATGT CACG	TTATCGCAGATTGTCC CACA	59.1	590	INTRON	Ca_25478	R	ARR-B
Ca1_P3_34331823	Ca1	34331823	CTCA/CTCAAGTCA	TGATGAATTTGATGTTG TTGGA	AAACCCCTGCTTCCA ATT	58.9	407	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 (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
Ca1_P3_34332058	Ca1	34332058	CATATAT/CATATATAT	AATTGGAAGCAGGGGT TTTT	TGAACCGTTATAAATA TTTTTCCT	59.8	356	INTERGENIC	--	--	--
Ca1_P3_343407	Ca1	343407	CATA/CA	ATCAACTTCAGGTGG GTGG	CCAAAGATGAGCCCAA GAAA	59.8	704	INTERGENIC	--	--	--
Ca1_P3_34348577	Ca1	34348577	TAAA/TAA	TTTGTGGACACGACTA CCGA	TGGGCAAAAGGAATT CAAG	60.2	252	INTERGENIC	--	--	--
Ca1_P3_34352352	Ca1	34352352	ACTCT/ACT	TTCTTCCACACTTGCGT CTG	TTTACTAGTTTGTC CCGC	60.0	463	INTERGENIC	--	--	--
Ca1_P3_34362589	Ca1	34362589	GATAAATA/GA	GGAGGAAACAAGCGTA CGAA	TAAGGAGGCCTTTTAC AGCG	60.2	859	INTERGENIC	--	--	--
Ca1_P3_34364559	Ca1	34364559	T/TCTC	TGGGAAAACCTTGACC AATC	TCATGAGTGGGAGTGA ACCA	59.8	865	INTERGENIC	--	--	--
Ca1_P3_34386272	Ca1	34386272	GTTT/GTTTT	AATCTGGAGGGCGGTA AGTT	ATATCGGTCAAACGCA CACA	60.0	413	INTERGENIC	--	--	--
Ca1_P3_343924	Ca1	343924	AACACACA/AACACACACA	TTTCTTGGGCTCATCTT TGG	CCTTGATTTTGCCACA ACCT	60.2	404	INTERGENIC	--	--	--
Ca1_P3_34434177	Ca1	34434177	AC/A	TGGCCAATGCTAATGT GGTA	TGAAGCGCTGTAAT GTGC	60.0	386	INTERGENIC	--	--	--
Ca1_P3_344347	Ca1	344347	A/AT	AGGTTGTGGCAAAATC AAGG	CAACGGCTCTTTTAC GGAG	60.0	404	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
Ca1_P3_34469736	Ca1	34469736	AT/ATT	CACATAAAGGCATCATC CCC	ATTAAAGGGGCAACCG ATTC	60.2	553	INTERGENIC	--	--	--
Ca1_P3_34487555	Ca1	34487555	TAACAACAACAACAACAACAACAA CAA/TAACAACAACAACAACAACA CAA	GGCAACAACAGCAGTA ACGA	ATTCAGGCAAAAGGGG AGTT	59.9	304	INTERGENIC	--	--	--
Ca1_P3_34505064	Ca1	34505064	TTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCTC	ACAAGTCCATGTGGCA ATGA	CGGGTGGTGAAATAAA ATGG	60.0	124	INTERGENIC	--	--	--
Ca1_P3_345335	Ca1	345335	TTTATT/TTT	CGACCATCTTTTGGAA GGA	CCTCTGCTTCCTTCGT TTTG	60.0	742	INTRON	Ca_00035	O	--
Ca1_P3_345766	Ca1	345766	GAA/GA	TCAACTTTGAGGTCTCC GGT	TCACTCCGTTTCTGC CTCT	59.7	182	INTRON	Ca_00035	O	--
Ca1_P3_346007	Ca1	346007	CCTTCTTCTTC/CCTTCTTCTTCTC	AGAGGCAGAAACGGAA GTGA	AGCGAGAAATTCGAAA GCAA	60.0	238	INTRON	Ca_00035	O	--
Ca1_P3_34642112	Ca1	34642112	TGG/TG	GAGGCGTCTTGCTATG CTTT	GAGAGATGTGGCTTTG GAGG	59.6	882	INTERGENIC	--	--	--
Ca1_P3_34647162	Ca1	34647162	TGG/TG	TGGATGAATGCTTGGA TGAA	TAGTCCAACAATGGCC AACA	60.0	978	INTERGENIC	--	--	--
Ca1_P3_34666828	Ca1	34666828	TAAAAAAAA/TAAAAAAAA	TGTTTCAGGATGTGCA CCAA	GTTACCGCAGAGGGAC GTAA	60.1	640	INTERGENIC	--	--	--
Ca1_P3_34682200	Ca1	34682200	ATTTTT/ATTTTTT	CATTGCTTGACCTTGGT CTG	TCACCAACCTTGGGT TTCT	59.3	646	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	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
Ca1_P3_34682417	Ca1	34682417	AATATATATATATATATATATATATATATATATAT/AATATATATATATATATATATATATA TATATATATATATATATATATAT	TATTTGGATTTTGGCT CGG	CCAACACCGTTTTTCTT CGT	59.9	500	INTERGENIC	--	--	--
Ca1_P3_34768259	Ca1	34768259	AAAAAAATA/AAAAATAAATAAATA	ATCGCCAGTGTC AATT TCC	TGCGATTTTACGTGTA TATGTGAG	59.9	677	INTERGENIC	--	--	--
Ca1_P3_347792	Ca1	347792	CTTCT/CTTCTTTCT	CAGCCGTTCA GCTGT ATGA	AAGA ACTGCCACCAGG TTTG	60.0	511	DRR	Ca_00036	J	--
Ca1_P3_34810237	Ca1	34810237	GTTTT/GTTTT	ATTGCCTCGCTTGAAG AATG	TTTGGATGAGCAACAA GCAG	60.4	598	INTERGENIC	--	--	--
Ca1_P3_34814277	Ca1	34814277	T/TG	GCGTGAACAAAATCAA GCA	TCGAAGACGTCTCGTT GTTG	59.9	452	INTERGENIC	--	--	--
Ca1_P3_34853862	Ca1	34853862	CAAAAAAAAA/CAAAAAAAAA	AGTTTGGCTAGATGGG CCTT	TAATTC AAACCGCACT GCAA	60.1	256	INTERGENIC	--	--	--
Ca1_P3_34854959	Ca1	34854959	TTATATA/TTATA	AGAACTTAGCCAACGA GGCA	TGTGGTGCCCTAAATG TGAA	60.0	485	INTERGENIC	--	--	--
Ca1_P3_34865996	Ca1	34865996	TAATAAAATAAA/TAATAAAATAA AATAAA	TTGTT CGAGAATT TGA GGG	TGAGGTGGTGACCAAT TGAA	60.0	462	DRR	Ca_21411	--	MYB_related
Ca1_P3_34895156	Ca1	34895156	ATCTCTCTCTCTCT/ATCTCTCTCTCT CTCTCTCTCTCTCTCTCTC	TTTCAAGTTTCCGGAG TGC	GTGGGAATCATATGGG GATG	60.2	883	INTERGENIC	--	--	--
Ca1_P3_34913480	Ca1	34913480	AAT/AATAT	TTGTGTT CACCGAGT TGTC	CAACAACCAACTTCGT GCAT	59.6	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
Ca1_P3_34952469	Ca1	34952469	AAATAATAATAATAAT/AAATAATAAT AATAA	CTTCAACCAATGCCTCC ACT	AAAAGGAGGTGCGAC AAAA	60.1	603	INTERGENIC	--	--	--
Ca1_P3_349576	Ca1	349576	ATTTTT/ATTTT	CAATTGGGGAACAAAA TTGG	AAATCAGTTTTGGCGA TTGG	60.0	550	DRR	Ca_00035	O	--
Ca1_P3_34971020	Ca1	34971020	CAAAAAA/CAAAAA	AAATACCCCTTTTCCC ACG	TGAAAACGCTCAATGC CATA	60.0	689	INTERGENIC	--	--	--
Ca1_P3_34983014	Ca1	34983014	TGAAGAAG/TGAAG	ACGCAAGCTTCCTTTT TGA	TTCAACGCATCCCTTA AACC	60.0	617	INTERGENIC	--	--	--
Ca1_P3_34989112	Ca1	34989112	CAT/CATAT	CAGGATAGTCGACGTG CAAA	TCTTGGCATAGCAAGA AGCA	59.9	406	INTERGENIC	--	--	--
Ca1_P3_35026117	Ca1	35026117	CAAAAAA/CAAAAAA	AAACCAAAACCTCAACA CGC	AATGTTCTGGAGAGGC GAGA	60.0	624	INTERGENIC	--	--	--
Ca1_P3_35044743	Ca1	35044743	AG/A	GTACCGAATAGCCCGC ATAA	CCAGTCCATATCGGGT CAGT	60.0	654	INTERGENIC	--	--	--
Ca1_P3_35056040	Ca1	35056040	TAAAAA/TAAAAA	TTTCATAATGTAATGG GCTGA	GGGAATTGGATTGAAG CAGA	59.3	401	INTERGENIC	--	--	--
Ca1_P3_35056113	Ca1	35056113	TAAAAA/TAAAAA	ACAGAAGAGGGCGCAC ATAC	GGGAATTGGATTGAAG CAGA	60.3	297	INTERGENIC	--	--	--
Ca1_P3_35056786	Ca1	35056786	AACATCTAGCTTTACA/AACA	TCTGCTTCAATCCAATT CCC	TGAATAGAACCAGCCC AAAA	60.0	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 (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
Ca1_P3_35065402	Ca1	35065402	CAA/CA	CCAACCAAAACCCTTCT CAA	GTACATGGTAACCGGA TGGG	59.9	309	INTERGENIC	--	--	--
Ca1_P3_35072166	Ca1	35072166	CTA/CTATATA	AGTTGGCTCACTAGCA CCGT	CACAAGTGGATGAACA ACCG	59.9	696	INTERGENIC	--	--	--
Ca1_P3_35086819	Ca1	35086819	AATATATATATATATATATATA/AATA TATATATATATA	CTGCTGAAGAAGCCAA ATCC	CTTGATTGAAAGGGGA ACCA	60.0	718	INTERGENIC	--	--	--
Ca1_P3_35143888	Ca1	35143888	TT/TTAT	CGCTTGTTTTGGTTTAA TTCG	GAGCATGATGGAGCAA CTCA	59.6	618	INTERGENIC	--	--	--
Ca1_P3_35147370	Ca1	35147370	CTTT/CTT	TCTATCGTGGTTCATTG CCA	TCTGAATGTCAATCCT CCGA	60.1	631	INTERGENIC	--	--	--
Ca1_P3_35150218	Ca1	35150218	CA/C	TGCAACATTCTCCAAG GAT	CATGGACACGATCGTC ACTT	60.5	302	INTERGENIC	--	--	--
Ca1_P3_35150770	Ca1	35150770	TC/TCC	GTGACGATCGTGTC TGTC	CAAGCCTCTCCAAGAA ATCG	60.0	715	INTERGENIC	--	--	--
Ca1_P3_35159500	Ca1	35159500	CTTTTT/CTTTTTT	CTAGCGCACCCTAAGA CTGG	TTGGGTTTTGGTGTC TTGT	60.0	427	INTERGENIC	--	--	--
Ca1_P3_35165919	Ca1	35165919	GTTTTTT/GTTTTTTTTTTTT	TCATCGCAGGTGTACC ATGT	CACCTAAGGGAATCGG TCAA	60.0	377	INTERGENIC	--	--	--
Ca1_P3_35166209	Ca1	35166209	TAAAAAAAAA/TAAAAAAAAA	AAGAGAGGTCACTTTG GCGA	CAATTCACAGGTAC GCTT	60.0	852	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
Ca1_P3_35168994	Ca1	35168994	AAT/AATAT	GTGATAATTCCCCATGT GCC	TCAACGCCTCTTCTCG ATT	60.0	350	INTERGENIC	--	--	--
Ca1_P3_35169414	Ca1	35169414	TATTTAATTT/TATTT	GAAATCGAGAAGAGGC GTTG	TGTCTCGAAAAAGCGA GATG	60.0	636	INTERGENIC	--	--	--
Ca1_P3_35169496	Ca1	35169496	T/TC	GAAATCGAGAAGAGGC GTTG	TGTCTCGAAAAAGCGA GATG	60.0	636	INTERGENIC	--	--	--
Ca1_P3_35178858	Ca1	35178858	A/AC	CAAAATGCACGTGGA AGAG	TCCTAGAATTGAAAA CGGCA	59.3	849	INTERGENIC	--	--	--
Ca1_P3_35179269	Ca1	35179269	GGA/GGAGA	GGCAGTTATTCCTTC CATTC	CCTTGATGCCTTCAA AAAT	59.8	842	INTERGENIC	--	--	--
Ca1_P3_35186704	Ca1	35186704	GAAATG/GAAATGATTAATG	GGTCAGTGAGCCAAGG GATA	CCGTTTAAACCCACCT GCTA	60.1	729	INTERGENIC	--	--	--
Ca1_P3_3518856	Ca1	3518856	AATGATTTAGGGTTCATGATTTAGG GTTTCATGA/AATGATTTAGGGTTCATG ATTTTAGGGTTCATGATTTAGGGTTC ATGA	AAAGAACCCTGCAGAA GGCA	TGTTAGGAGTTCGGG ACAC	60.0	758	INTERGENIC	--	--	--
Ca1_P3_35232976	Ca1	35232976	TTTTT/TTTTTATTAGATTTT	TGCATAATTTCTACTC TTCCACA	CACAAAACAAAGCCAA CCCT	60.0	306	INTERGENIC	--	--	--
Ca1_P3_35236411	Ca1	35236411	ATTATT/ATTATTGTTATT	ATGTGCCAAAAGAGGA GGAA	GGGATGCGACCTTGTA CTGT	59.7	704	INTERGENIC	--	--	--
Ca1_P3_35238941	Ca1	35238941	CTTTTT/CTTTTTT	AAAATGCATTGCCTCTG GTC	TTTATTACCCAAACGA AAACAA	60.1	824	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
Ca1_P3_35240205	Ca1	35240205	ATAT/ATATTAT	GTAGCATTTTGGCCTC CCT	GTCGAGAAGAAGGCTT GCAT	60.5	782	DRR	Ca_26097	QI	bHLH
Ca1_P3_35244173	Ca1	35244173	TAAAA/TAAA	ATTTGGATCGGTGTGG TTTT	TCGGAATGTTGCTGA GATG	59.2	553	INTERGENIC	--	--	--
Ca1_P3_35245591	Ca1	35245591	GGGA/GGGAGGA	TTTCCCGACTTGGTCCT TTA	CTCTCCCAATATCC TCTT	59.5	697	INTERGENIC	--	--	--
Ca1_P3_35258289	Ca1	35258289	A/AC	TGTCATTGCATTTGTT ATCA	CCCACCTAGGATCTC TGCT	58.5	256	INTERGENIC	--	--	--
Ca1_P3_35260458	Ca1	35260458	ATT/ATTT	ATGGCTCATACTGGGA TTGC	AAGACTGGGTTTGCCT GCTA	59.9	592	INTERGENIC	--	--	--
Ca1_P3_35261821	Ca1	35261821	ATT/AT	TGGATTGTCATGGTCT GGAA	AATGGTCTTGAATTTG CCG	59.9	640	INTERGENIC	--	--	--
Ca1_P3_35265473	Ca1	35265473	TAAAAAA/TAAAAA	TTCCCTGAATCGAGTG AACC	TTTTCAATAACTCTAC CGCGT	60.1	674	INTERGENIC	--	--	--
Ca1_P3_35281444	Ca1	35281444	ATTTTTTT/ATTTTTTT	ACAAAGGCCTGCCTAG ATCA	TTTTTGATGTCTCTCTG TTCAAAT	59.8	591	INTRON	Ca_26099	QI	bHLH
Ca1_P3_35281570	Ca1	35281570	TC/T	ATGACACGTATTCGT TCG	GGTTCGAGACATCCAT AATTCA	59.6	733	INTRON	Ca_26099	QI	bHLH
Ca1_P3_35281940	Ca1	35281940	TA/TAA	AAACGTGATCTATACAG TTTCCAAAA	TTCACATCTGGAACA ACGC	59.4	529	INTRON	Ca_26099	QI	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 (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
Ca1_P3_35283249	Ca1	35283249	TT/TTTAAATGT	ATGCATTGTTTGGCA TGT	TGAAGTGTCTGCAAA ATTAGTGA	58.9	612	INTERGENIC	--	--	--
Ca1_P3_35283797	Ca1	35283797	TGGGGG/TGGGG	GGGTGTGTTTGATAGG AGGG	CTCCCCTTCCATCTCC TCTT	59.3	139	INTERGENIC	--	--	--
Ca1_P3_35284017	Ca1	35284017	ATTT/ATT	GAGATGGAAGGGGAG GAAAG	GCACAAAGAAAAATA CAAGTCCA	60.0	273	INTERGENIC	--	--	--
Ca1_P3_35284253	Ca1	35284253	TT/TTGT	GAGATGGAAGGGGAG GAAAG	TCTGATCAATATGTG GCAGAAA	60.0	657	INTERGENIC	--	--	--
Ca1_P3_35284860	Ca1	35284860	CAAAAA/CAA	TGAAGGGAGTGCTATT TG GT	TCACCTTTGACTTCCT CATGTT	57.3	108	INTERGENIC	--	--	--
Ca1_P3_35285638	Ca1	35285638	TATT/TATTAATT	GACCTTATGCTCGTGC AATGT	GCCAGATGCAATAGG AAGG	60.2	419	INTERGENIC	--	--	--
Ca1_P3_35290921	Ca1	35290921	ATTT/ATTTT	CACACCTAATGCCTGT CACG	TGATGGACCAACAAG TCCA	60.2	760	INTERGENIC	--	--	--
Ca1_P3_35291933	Ca1	35291933	TTCGATGAGAAAGTCGATGA/TTCGAT GA	CTGCACCAAGAACACC TCAA	TCTTGCAATGGCAAGTA TCCA	59.9	724	INTERGENIC	--	--	--
Ca1_P3_35301437	Ca1	35301437	ATTTTTTTTTT/ATTTTTTTTTT	GCTTTCATGGTGTGCT CTGA	TTAGGCCCAAGTGAAGT TTGG	60.0	560	INTERGENIC	--	--	--
Ca1_P3_35310736	Ca1	35310736	ATTTTTTTTTT/ATTTTTTTTTT	TTGATGCAACCTGTGA CTCC	TTGGATCCATCCCCTA GATG	59.7	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 (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
Ca1_P3_35310757	Ca1	35310757	ATTTTT/ATTTT	TTGATGCAACCTGTGA CTCC	TTGGATCCATCCCCTA GATG	59.7	572	INTERGENIC	--	--	--
Ca1_P3_35337257	Ca1	35337257	CTTTTT/CTTTTTTT	TACATGCACACTCCA CCA	TGGGAGCCTCAATTGC TTAG	59.6	290	INTERGENIC	--	--	--
Ca1_P3_35353052	Ca1	35353052	G/GTTGA	TCAGCAGCAAATAGGC TTCA	AGCCCATTCAGATTTT GTGG	59.7	352	INTERGENIC	--	--	--
Ca1_P3_35353239	Ca1	35353239	GAA/GAAA	CCAACAACCTCCTTCG AGC	AGCCCATTCAGATTTT GTGG	59.9	147	INTERGENIC	--	--	--
Ca1_P3_35372027	Ca1	35372027	CA/CAA	TGTGAGGATGGTGAGT TGTGA	AAGCGTAAAGAGGGG GTGT	60.1	309	INTERGENIC	--	--	--
Ca1_P3_35405146	Ca1	35405146	ATCCTG/A	TCCTCAAGCTTTTTATT CACTTTT	CACAAGTGGTAGTTTT GAAGGAAA	59.0	752	INTERGENIC	--	--	--
Ca1_P3_35430888	Ca1	35430888	CG/C	ATAATGTTCTTGTTTCG GCG	GATCAGGTCATGAAA CCAA	60.0	844	INTERGENIC	--	--	--
Ca1_P3_35460079	Ca1	35460079	AAAAGTGTTATGA/AA	AACCATAACTGCGAG ACCTT	ATGCAGCAATTTCCAT CCTC	60.0	601	INTERGENIC	--	--	--
Ca1_P3_35537314	Ca1	35537314	T/TG	ACATGGAACCCATCCA AAGA	AATCGATTGATTCAGC CCAG	60.2	475	INTERGENIC	--	--	--
Ca1_P3_35551205	Ca1	35551205	CATCGTTT/C	CTAAGGCATATGGCCT CCAA	TGAAGACAAGGCGTTA TCCA	60.1	644	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
Ca1_P3_35553773	Ca1	35553773	GTATCCTA/GTA	GTCGAGGAGATTGCAA AAGC	TTGAATCGTCTTCACT GCG	60.0	469	INTERGENIC	--	--	--
Ca1_P3_35569645	Ca1	35569645	TAAAAA/TAAAAA	TGAGTGCACCTTTTACA GCG	TTGCACGCTTAGTATG CACC	60.1	256	DRR	Ca_24107	--	--
Ca1_P3_35572190	Ca1	35572190	TTG/T	CTCTTCGCCCTCTTGA TTG	CGAAACATGCACAAGG ATGA	59.9	370	INTERGENIC	--	--	--
Ca1_P3_35610504	Ca1	35610504	AT/ATATATATGT	TATTTTGGATTTTGGCT CGG	TTTTCCTTTCTTTTCC CCC	59.9	261	INTERGENIC	--	--	--
Ca1_P3_35646771	Ca1	35646771	C/CGT	TGAAACAGTGGGGA TATGC	ACAAGCTCTCAAACGC ACCT	59.8	674	INTERGENIC	--	--	--
Ca1_P3_35679606	Ca1	35679606	CAAAAAAAAA/CAAAAAAAAA	GTGCACAACCTTGTGG TGTC	TAGCCAACATGCCATA CGTC	60.1	604	INTERGENIC	--	--	--
Ca1_P3_35711382	Ca1	35711382	GCTTACTTA/GCTTA	CAAATGGAGACGTGAG GGTT	CGCACCAATAAACCG AAGA	60.0	222	DRR	Ca_24110	K	--
Ca1_P3_35913252	Ca1	35913252	TA/TAAA	CATCATTGTTGGGCTT GTG	TTTATTGAGGATGGCG AAGG	60.0	798	INTERGENIC	--	--	--
Ca1_P3_35977319	Ca1	35977319	TA/TAA	AACTCGTGGAACCTCC CTCT	GCAAGCAGCCTTGTG ACTA	59.2	540	INTERGENIC	--	--	--
Ca1_P3_36044248	Ca1	36044248	CGG/CG	CGATTTCCCTGCATGTT TTT	GCCTGTGATAGGCGGT ACAT	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 (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
Ca1_P3_360763	Ca1	360763	CTACG/CTACGTACG	TCATCCGTGGTCATTT GAA	ACCGCCTTCTCACCT ATCT	59.9	352	INTRON	Ca_00037	E	--
Ca1_P3_36171485	Ca1	36171485	TA/T	TTCGGTTGTTGTTCACT CCA	TAAACCCATTGGTCC CTTT	60.1	749	INTERGENIC	--	--	--
Ca1_P3_36220499	Ca1	36220499	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGTTTACCTGCTTGCT CCA	CCAAAGAATATGTTCC ATTGGTT	59.5	589	INTERGENIC	--	--	--
Ca1_P3_36283336	Ca1	36283336	ATT/AT	GAGCATAGTGAGTGC CTTG	TGATGGCTGAAATGGA ATGA	59.8	531	INTERGENIC	--	--	--
Ca1_P3_36473784	Ca1	36473784	AA/AATA	TTTTGGATTTCGTTTT GAA	TTGACCAAAATCAAG GAGACA	58.1	284	DRR	Ca_21691	--	--
Ca1_P3_36489661	Ca1	36489661	TTATATATATATATATATATATATATATATATATATATATA TATATATATA/TTATATATATATATATATATATATATATATATATA	TTTGCCATGGGAATGTT TTT	TGCACAGTGACAGACC AACA	60.2	871	DRR	Ca_21692	R	--
Ca1_P3_36724754	Ca1	36724754	CTTTTTTTT/CTTTTTTTTTT	TTGCACCACACTTCTT ACC	CTTATTTCGACGCTTTT CGC	59.7	279	INTERGENIC	--	--	--
Ca1_P3_36727739	Ca1	36727739	TCC/TC	AGGCTGCATTTTAGTC CACG	ACGACCACTGCAAA CAAA	60.3	218	INTERGENIC	--	--	--
Ca1_P3_36860487	Ca1	36860487	AAGAGAGAGAGAGAGAGAGAGA/AAGAGAGAGAGAGAGAGAGAGAGA	AGAAGGAGTGTGTGCA GGCT	CATCATCATCACGCCT CATC	60.1	645	INTERGENIC	--	--	--
Ca1_P3_36869128	Ca1	36869128	CA/CAAA	TCCACAACAACCTACGT CCA	CCCAGAAATCGATTAG GCAA	60.0	555	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
Ca1_P3_36897436	Ca1	36897436	TTATATATATATATATATATATA/TTA TATATATATATATATATATATATA	CACTAGCATCGTAGCG TGGA	TGTGAAATTTGTGGG TGAA	60.0	415	INTERGENIC	--	--	--
Ca1_P3_37031419	Ca1	37031419	TNNNNNNNNNN/TNNNNNNNNN	GGGTGAATGGATTTGT CCAC	TTGAAATGTCATGGAT GGGA	60.0	537	INTERGENIC	--	--	--
Ca1_P3_37078918	Ca1	37078918	A/AAATTAATG	TGTGACACCCTAAACC CTAAGAA	TTGATTGCTTGC GTGT TCTC	59.9	499	INTERGENIC	--	--	--
Ca1_P3_37081733	Ca1	37081733	CAAAA/CAAA	CCCACAACAATCGTTAA GCA	TGTTCTTCGTATTTGG CGTG	59.6	518	INTERGENIC	--	--	--
Ca1_P3_37122104	Ca1	37122104	CAAAAAAAAA/CAAAAAAAAAAAAA	CGTATCTCGTATCACC GACG	AGTTGCGCTCCTCCTA ATCA	59.2	873	INTERGENIC	--	--	--
Ca1_P3_37122520	Ca1	37122520	AGG/AG	TGCAATCATTGGTGCTT AGG	AAAAAGCGCCGTAAAA TGAG	59.7	710	INTERGENIC	--	--	--
Ca1_P3_37122699	Ca1	37122699	GTTT/GTT	GGAGGAGCGCAACTTA ATCA	AAAAAGCGCCGTAAAA TGAG	60.4	372	INTERGENIC	--	--	--
Ca1_P3_37122810	Ca1	37122810	TACAAC/TACAACAAC	GGAGGAGCGCAACTTA ATCA	AAAAAGCGCCGTAAAA TGAG	60.4	372	INTERGENIC	--	--	--
Ca1_P3_37128515	Ca1	37128515	ATTTTTTT/ATTTT	CAATTCCACAGGTAC GCTT	TTGGTCTCATCAATGA TTGTAAAAA	60.0	568	INTERGENIC	--	--	--
Ca1_P3_37197766	Ca1	37197766	GTTT/GTT	TGAGAGGAAAGAAGAC AACCATC	TTTTCTTTTTAAAGCGG CGA	59.7	605	DRR	Ca_21831	L	C3H

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
Ca1_P3_37211046	Ca1	37211046	AGTAGTGTAGTGT/AGTAGTGT	GTTGCGGCAGTTCTAC ATTG	ATGGATTCAACTCTTC CCCC	59.3	524	INTERGENIC	--	--	--
Ca1_P3_37243078	Ca1	37243078	AAATTAT/AAATTATAGAATTAT	TCATCCACATCAGCCAA AAA	TTTGTGCATTTTAATAA TTGGAAG	60.0	490	INTERGENIC	--	--	--
Ca1_P3_37412282	Ca1	37412282	CCATG/CCATGCATG	CGTGGATGATGCTTTT CTCA	TGCTTCTCATCTGCTT GGTG	59.8	580	DRR	Ca_21842	R	GRAS
Ca1_P3_37420494	Ca1	37420494	ATTTTTTTTT/ATTTTTTT	GGGAAAAGGAAACCCA AAAA	TAGTGGAGTCCCCGTC AAGT	60.1	630	INTERGENIC	--	--	--
Ca1_P3_37420598	Ca1	37420598	ATTTT/ATTT	GGGAAAAGGAAACCCA AAAA	TGAGTGAGGGAGACAA AGGG	60.1	950	INTERGENIC	--	--	--
Ca1_P3_37421082	Ca1	37421082	CCTCACTCACTCACTCACTCAC/CCTC ACTCACTCACTCAC	ACTTGACGGGGACTCC ACTA	ACATGTTCTTGTGCT CGTG	59.6	637	INTERGENIC	--	--	--
Ca1_P3_37424329	Ca1	37424329	CATATATATATATATATATAT/CATAT ATATATATATATAT	AAAAAGTATTGAACAAA CACGCT	TGAAATCCAAATTAAT TGCTGAA	57.2	549	INTERGENIC	--	--	--
Ca1_P3_37424731	Ca1	37424731	ATTTTTT/ATTTTTTT	GCAATTTAATTTGGATT TCATGG	AGTTTGGTCAATTGTT TCGAT	59.6	104	INTERGENIC	--	--	--
Ca1_P3_37424983	Ca1	37424983	AC/A	GCAATTTAATTTGGATT TCATGG	TCACATCCATCCACGG TACA	59.6	761	INTERGENIC	--	--	--
Ca1_P3_37425070	Ca1	37425070	ATTTTTTTTTT/ATTTTTTTT	GCAATTTAATTTGGATT TCATGG	TCACATCCATCCACGG TACA	59.6	761	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 (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
Ca1_P3_37425133	Ca1	37425133	TTATATATA/TTATATA	GCAATTTAATTTGGATT TCATGG	TCACATCCATCCACGG TACA	59.6	761	INTERGENIC	--	--	--
Ca1_P3_37425153	Ca1	37425153	G/GAT	GCAATTTAATTTGGATT TCATGG	TCACATCCATCCACGG TACA	59.6	761	INTERGENIC	--	--	--
Ca1_P3_37425439	Ca1	37425439	TG/T	TGTACCGTGGATGGAT GTGA	TGACACGTATCAATTTA GGGAGAA	60.8	222	INTERGENIC	--	--	--
Ca1_P3_37425620	Ca1	37425620	ACG/A	TGTACCGTGGATGGAT GTGA	TATGCATCCTCACGGT TTTG	60.8	675	INTERGENIC	--	--	--
Ca1_P3_37425673	Ca1	37425673	ATTTTTTTTT/ATTTTTTTTTTT	TGTACCGTGGATGGAT GTGA	TATGCATCCTCACGGT TTTG	60.8	675	INTERGENIC	--	--	--
Ca1_P3_37426537	Ca1	37426537	ATT/AT	CTTCAAAACCGTGAGG ATGC	TCTGAGCTTCTGATGC TTGC	60.6	916	INTERGENIC	--	--	--
Ca1_P3_37433380	Ca1	37433380	CAA/CAACGTAAA	AATAAATTAGTGCAGCA AACCAA	GGCAAAGAGAGGAAAG TGGA	58.0	756	INTERGENIC	--	--	--
Ca1_P3_374423	Ca1	374423	GTT/GT	TGGCTTGCAGATGGAT AATG	TAGCAAACAATGGACG GACA	59.6	718	INTRON	Ca_00038	S	--
Ca1_P3_374767	Ca1	374767	TCA/TCACA	AACACGGCAGTGGTAT CTCC	CATCATCAAGGCCATC CTCT	60.0	722	INTRON	Ca_00038	S	--
Ca1_P3_37489932	Ca1	37489932	CAAAAA/CAAAA	ATTGTCCAGTTTCCTCA CCG	CGATTGGTAAATCGAT TGGG	60.0	594	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
Ca1_P3_37489959	Ca1	37489959	AT/ATT	ATTGTCCAGTTTCCTCA CCG	CGATTGGTAAATCGAT TGGG	60.0	594	INTERGENIC	--	--	--
Ca1_P3_37490066	Ca1	37490066	A/AATGTAT	ATTGTCCAGTTTCCTCA CCG	TGAACTCTGAGCGTGT GACC	60.0	775	INTERGENIC	--	--	--
Ca1_P3_3764450	Ca1	3764450	GATATATATATATATATATATA/GATA TATATATATATATATATATATA	TTTTGGAGGTGTGATTA ATGTATTTT	TGGTGTATGTGTCGAG TGCT	59.2	515	INTERGENIC	--	--	--
Ca1_P3_37693180	Ca1	37693180	AATTAT/AAT	TGTGGAACATTCTCTG CGTC	TTCCCGAGAGATTGT CTTCA	59.8	593	DRR	Ca_23533	--	G2-like
Ca1_P3_37697426	Ca1	37697426	GTTTTT/GTTTTTTTT	TATTGGGTAAGTCCAC GGCT	TGGGGTGACTGGAAA ACTTG	59.5	644	INTERGENIC	--	--	--
Ca1_P3_37701615	Ca1	37701615	ATTTTTTT/ATTTTTTTTTT	TCCGAAAACTCGCAAT AGG	TCACGTGATGCGACCA TAAT	60.2	807	INTERGENIC	--	--	--
Ca1_P3_37702469	Ca1	37702469	ATTACCTTACCTTACCTTA/ATTACCTT ACCTTACCTTACCTTA	TTTTGTCCCCACAAGTG ACA	ATTGGTGTGTCTGGAG AGGC	60.0	703	INTERGENIC	--	--	--
Ca1_P3_37713033	Ca1	37713033	TG/T	GGTGTGGAGGTGTAA TGGG	CATGTCCCGTATTCGC TTTT	60.1	639	INTERGENIC	--	--	--
Ca1_P3_37714757	Ca1	37714757	ATTT/ATTTT	TCGCTCACATATAAGGT TGCAT	TTCGCCCATATTCCTT TTG	59.6	640	INTERGENIC	--	--	--
Ca1_P3_37714818	Ca1	37714818	CAAAAAA/CAAAAAA	TCGCTCACATATAAGGT TGCAT	TTCGCCCATATTCCTT TTG	59.6	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 (°C)	Expected 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_P3_37715518	Ca1	37715518	ATTTTTTTT/ATTTTTTT	TCCCTGAAAATCATTG TTTGA	TGAAATGGCCATCACT GTTC	59.4	891	INTERGENIC	--	--	--
Ca1_P3_37721826	Ca1	37721826	AAAA/AAAATAAA	TCCATAGCACCTCTTGA TTTTG	CGTTGATGGCATCTTG ATTG	59.2	420	DRR	Ca_23534	--	--
Ca1_P3_37724987	Ca1	37724987	A/ATT	ACCCTGTTGCTGCCAA ATAC	GCTCCAATCCCTCAG ATCA	60.0	664	INTRON	Ca_23534	--	--
Ca1_P3_37737691	Ca1	37737691	AAAAATAATAATAATAATAA/AAAA TAAATAATAATAAA	AGGGACCACTATGACC GTTT	TCCTGCAATCACCTT TTTC	58.4	481	INTERGENIC	--	--	--
Ca1_P3_37739006	Ca1	37739006	T/TA	GCATTCTTGATTCAGAA GATGG	TGGAATACTGGACGTA GCCC	58.8	500	INTERGENIC	--	--	--
Ca1_P3_37747193	Ca1	37747193	GTTTTT/GTTTTTT	TCCATTAATAATTATGT TGAAAGTCG	TTCTAATCGCCATCAAA CCC	59.7	443	INTERGENIC	--	--	--
Ca1_P3_37747588	Ca1	37747588	GAA/GAAA	AATTGAATGGGTTTGAT GGC	GCTCATTGCTTCACAC CGTA	59.6	780	INTERGENIC	--	--	--
Ca1_P3_37751911	Ca1	37751911	GAAAAAAAAA/GAAAAAAAAA	GGACAAAATGCATCTTC TTTCAA	GTTGGCCTTTGTGGAC TGTT	60.5	684	INTERGENIC	--	--	--
Ca1_P3_37758416	Ca1	37758416	AATATATATAT/AATATATAT	AATGCAAATTTTCCCA CCA	AGCGAATGATTTCAC CACC	60.2	791	INTERGENIC	--	--	--
Ca1_P3_37758491	Ca1	37758491	TA/TAA	TGACGAGGTTTCGTGAT GATG	AGCGAATGATTTCAC CACC	60.7	489	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 (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
Ca1_P3_37759391	Ca1	37759391	GT/G	CCATCTTGATCCTTGC CTC	TCAAACGGTCAAATTG GATG	59.6	268	INTERGENIC	--	--	--
Ca1_P3_37780594	Ca1	37780594	TAAAAAAAAA/TAAAAAAAAAAAAA	CCGGAAGTCCTACTGG TTCA	CCACTAGAAACCTGGT TGGA	60.1	501	INTERGENIC	--	--	--
Ca1_P3_37794492	Ca1	37794492	ATTTTTTTTT/ATTTTTTTTT	TTTGATTGCATTCAGC AGG	TTTGAAAAACCGTAC TGGC	59.8	445	DRR	Ca_23537	--	NAC
Ca1_P3_37794748	Ca1	37794748	CT/CTT	TTTGATTGCATTCAGC AGG	TTTGAAAAACCGTAC TGGC	59.8	445	DRR	Ca_23537	--	NAC
Ca1_P3_37795802	Ca1	37795802	CAAAAAAAAAA/CAAAAAAAAAAAAAA A	CAC TT TGAAGACATGCA AGAGG	ATGCATTTGATTGGGG ACTT	59.9	491	INTRON	Ca_23537	--	NAC
Ca1_P3_37795956	Ca1	37795956	GTTTTTTT/GTTTTTTT	CAC TT TGAAGACATGCA AGAGG	TACTCCCCATTTCTCTC ACG	59.9	696	INTRON	Ca_23537	--	NAC
Ca1_P3_37798578	Ca1	37798578	CAAAAAA/CAAAAAA	GGCATGTGCATCCTTG TAGA	GGAATCACATCCTGGT GCTT	59.7	644	INTRON	Ca_23537	--	NAC
Ca1_P3_37798793	Ca1	37798793	TATTA/TATTATTAATATCTGATTA	TGTGGAAC TTGATTTG GTGA	TATCGCCTCATGGAAT CACA	59.0	583	INTRON	Ca_23537	--	NAC
Ca1_P3_37800107	Ca1	37800107	TA/TATT TAA	TGGGTCCTAAACCGCA ATAC	CAAAATGATGCAACC ATCG	59.8	371	INTERGENIC	--	--	--
Ca1_P3_37809250	Ca1	37809250	ACTTTTCCTTTTCCT/ACTTTTCCT	TGCCTTTGGGGATTTTA TCA	TTTTGCATTA AAAATGG ATGAA	60.3	579	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 (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
Ca1_P3_37810493	Ca1	37810493	ATTTTTTTTT/ATTTTTTTT	TTTCCCTTCCATCCAA CTTT	CGGCAAAAGACTCAAG AACC	59.8	620	INTERGENIC	--	--	--
Ca1_P3_3783626	Ca1	3783626	TATTTGCATTTG/TATTTG	TTCACAATTACCACAAA GATCG	GCGACTATCCAGGAAA TCCA	57.7	433	INTERGENIC	--	--	--
Ca1_P3_37836904	Ca1	37836904	CAGTTAGTTAGTTAGTTAGTTA/C AGTTAGTTAGTTAGTTAGTTAGT TAGTTA	ATGGATGTAGCGATTA CGCC	CCAATACTCCACCTGC GATT	60.0	442	INTERGENIC	--	--	--
Ca1_P3_37837915	Ca1	37837915	GTTTTTTTTT/GTTTTTTTTT	TGGAGAAAATAAAAAA AGAGTTCA	CTCAAATTCTGTTTGG GGGA	57.8	918	INTERGENIC	--	--	--
Ca1_P3_37852569	Ca1	37852569	TAAAAAA/TAAAAAA	TGTGGTATGTGCGGTT CCTA	TTGATGGGTTTCATGT TCCA	60.0	814	INTERGENIC	--	--	--
Ca1_P3_37852817	Ca1	37852817	AAGCA/AAGCAGCA	CACGTAGCAAAAATAAT TGCCA	TCATCCTGCCGTTAG TACC	60.0	765	INTERGENIC	--	--	--
Ca1_P3_37861907	Ca1	37861907	TGG/TGGG	TTAGGGATTTGACCGT CGAT	GATCGAAGGCGAAGTA ATGC	59.4	953	INTERGENIC	--	--	--
Ca1_P3_37869799	Ca1	37869799	AC/ACC	TTCTGATTCCAGATT GCC	AAAGATGGGGTCAGTG CATC	60.0	371	INTRON	Ca_23539	KT	--
Ca1_P3_37875883	Ca1	37875883	TTAT/TT	GCTGGGACTATTTC GTGA	TGCCAGGTGACAAAAT CTCA	60.1	201	INTRON	Ca_23539	KT	--
Ca1_P3_37887479	Ca1	37887479	GTTTTTTTTT/GTTTTTTTTTTT	GATTGCAAAATCCGGA AAAA	TGGGCACTATTGTTTG GACA	59.9	530	INTRON	Ca_23539	KT	--

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
Ca1_P3_37913622	Ca1	37913622	AATATATATATATA/AATATATATATATA TA	ACGTTGCCACCTATCT CAT	CCTTATGCGGTAATCC CTGA	59.6	563	INTERGENIC	--	--	--
Ca1_P3_37913861	Ca1	37913861	GTATATATATATAT/GTATATATATATAT AT	GGAGTGAATTTGTGT GCTCC	TGAGGGTAACAGGGAA GGTG	59.6	611	INTERGENIC	--	--	--
Ca1_P3_37913991	Ca1	37913991	CCAATT/CCAATCCAATTTCAATT	TCAGGGATTACCGCAT AAGG	TGAGGGTAACAGGGAA GGTG	59.9	365	INTERGENIC	--	--	--
Ca1_P3_37917967	Ca1	37917967	ATATGACAGTTA/ATA	TCCACAAGTTATTCGAC GAAAC	TTCCATTGATCTACGTT AATGTTTG	59.1	558	INTERGENIC	--	--	--
Ca1_P3_37927331	Ca1	37927331	TAA/TAAATTGTATCAAA	ATTTTGATCGCGGAAG TTTG	TCAATCAACCAGATTTT GCATT	60.1	553	INTERGENIC	--	--	--
Ca1_P3_37927484	Ca1	37927484	A/AT	TCAAGGTACCGATAATC GCA	CTCAATCAACCAGATTT TGCA	59.1	387	INTERGENIC	--	--	--
Ca1_P3_37927862	Ca1	37927862	G/GTA	TGCAAAATCTGGTTGAT TGAG	TCCAGATCAAAATTG GGTT	58.8	745	INTERGENIC	--	--	--
Ca1_P3_37928765	Ca1	37928765	TAA/TTTTGATGAAA	CCGTGCACAATGTCA ATTC	TGGTTGCATGTTTGTA ACTTGA	60.0	176	INTERGENIC	--	--	--
Ca1_P3_37929646	Ca1	37929646	TAAAAAAA/TAAAAAAA	TGTGACGGTTAATATG GTGGTC	TTGACTTGTTTTCGG ATTG	59.6	817	INTERGENIC	--	--	--
Ca1_P3_37929753	Ca1	37929753	ATTTTTTTTT/ATTTTTTTTT	TGTGACGGTTAATATG GTGGTC	TTGACTTGTTTTCGG ATTG	59.6	817	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 (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
Ca1_P3_37954014	Ca1	37954014	AATATATATATATATA/AATATATATA TATATATATA	TCTTTTCTCCGATCCCA TTG	TCGCGTAGTGGTAGCC TTCT	60.0	415	INTERGENIC	--	--	--
Ca1_P3_37954337	Ca1	37954337	GTTTTT/GTTT	TCTTTTCTCCGATCCCA TTG	CGACTCCCGAACTCAA AATC	60.0	868	INTERGENIC	--	--	--
Ca1_P3_37993308	Ca1	37993308	CAAAAAAAAAAAAAA/CAAAAAAAAA	TCATCGCAGGTGTACC ATGT	GGATTGGTAAAGGGCT CACA	60.0	482	INTERGENIC	--	--	--
Ca1_P3_37993665	Ca1	37993665	CAAAAA/CAAAAA	GTGAGCCCTTTACCAAT CCA	CAATCCACAGGTAC GCTT	59.9	654	INTERGENIC	--	--	--
Ca1_P3_38024874	Ca1	38024874	TATGAATGAAT/TATGAATGAATGAAT	GCAAGCTCAGTTCAG TTCC	TGCATCAATTATGGCT CCAA	60.0	655	INTRON	Ca_27443	S	--
Ca1_P3_38070666	Ca1	38070666	T/TA	AACCATTGGGGGAGAA TAGAA	TTGTAGAACCATTGG GGGA	59.7	362	INTERGENIC	--	--	--
Ca1_P3_38070895	Ca1	38070895	ATGTGTGT/ATGTGT	CTCCCCAATGGTTCTA ACA	CACTGGAATCCGTTTC TTTTG	59.8	587	INTERGENIC	--	--	--
Ca1_P3_38071534	Ca1	38071534	TACACACAC/TACACAC	CTCCTCCTCATTACCCC AAC	ACACACCCACTCTCCT TTGC	59.5	189	INTERGENIC	--	--	--
Ca1_P3_38105826	Ca1	38105826	AAGACGAAATTTCT/A	GCTCAAATGAGTAGTG AATGCC	GGGTGTTGCAATTTTC TCCT	58.9	143	INTERGENIC	--	--	--
Ca1_P3_38109587	Ca1	38109587	ATTT/ATTTT	ATTATGAAATCCCTTG GCG	TCTCTACCCCCTACC TCAA	58.9	597	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 (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
Ca1_P3_38130303	Ca1	38130303	C/CG	AAAGGGGGAGAACCAT CTGT	TGCATTGCTTGACTT GGAG	59.8	680	INTERGENIC	--	--	--
Ca1_P3_38131605	Ca1	38131605	C/CT	CGTAACTCGTGTGGG TGAA	GAAGCAAGAGGCAACT CCAC	59.6	379	INTERGENIC	--	--	--
Ca1_P3_38142065	Ca1	38142065	A/AGT	GCTCTAACAGCGTAGC AAAAA	TATGAGGTGGCAGCAA GAGA	57.6	321	INTERGENIC	--	--	--
Ca1_P3_38147657	Ca1	38147657	TC/TCC	TGTTGACACATCACATC CTTAACA	TTTCATGTCTCATTCC CCA	60.3	858	INTERGENIC	--	--	--
Ca1_P3_38148096	Ca1	38148096	CAAAAAAAAA/CAAAAAAAAA	TGGGGAAATGAGACAT GAAA	ACGTGCGCAGGTGTA ATT	58.9	567	INTERGENIC	--	--	--
Ca1_P3_38169087	Ca1	38169087	TTATATATAT/TTATATATATATAT	AAAATCTTTGTGAAATC GGCA	TGCTGCAACTTCACGC TACT	59.6	583	INTERGENIC	--	--	--
Ca1_P3_38185371	Ca1	38185371	TAAA/TAA	GTTCCATGAACGCCTC AGTT	GAGCATGGAAGGCATC TAGC	60.1	407	INTERGENIC	--	--	--
Ca1_P3_38187356	Ca1	38187356	AT/ATT	ATCACTCCACCGACTTC CAC	GAGTAGGGCTGTGCAT GGTT	60.0	602	INTERGENIC	--	--	--
Ca1_P3_38197697	Ca1	38197697	TAAAAAA/TAAAAA	TTAGCGACCAATATACC GGC	AACCAATGTTTCGGG ATCA	60.0	289	DRR	Ca_13974	L	C2H2
Ca1_P3_38197951	Ca1	38197951	GATATATAT/GATATATATAT	TTAGCGACCAATATACC GGC	ATTATGCTGCAATCCC TTCG	60.0	857	DRR	Ca_13974	L	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 (°C)	Expected 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_P3_38203782	Ca1	38203782	CTTT/CTT	CTACGTTGAATGGCAT GTGG	GTCTTGAGACGTCGGG TGAT	60.0	528	INTERGENIC	--	--	--
Ca1_P3_38241608	Ca1	38241608	TGTCACATA/T	GTTGGGAGACTTGTGC CCTA	ACCGAGTGTGCAACTC AAGG	60.1	763	INTERGENIC	--	--	--
Ca1_P3_38244609	Ca1	38244609	GAAAAAAAT/GAAAAAAATTGAAAA AAAAAT	GCGGAAATATTTTGGCA GGA	AACCAATTGCATCACC CTTC	60.0	523	INTERGENIC	--	--	--
Ca1_P3_38244809	Ca1	38244809	TAAAGAA/TAA	GCTACACAGGACTTCT GGGC	GATCTTGGTCTTGAA ACGC	59.9	492	INTERGENIC	--	--	--
Ca1_P3_38245861	Ca1	38245861	AAATAATAATAATAAA/AAATAAAT AATAATAATAA	GAATAGCTGGAACGTG CATCA	TGCCACATCACACCC TAAA	60.2	816	INTERGENIC	--	--	--
Ca1_P3_38278656	Ca1	38278656	C/CG	TCCAGCATTGCCTTTT TTT	GCATGGGTGAGATGG AGTT	59.8	687	DRR	Ca_13968	O	--
Ca1_P3_38282680	Ca1	38282680	G/GATAAAATCAATT	CTACATTAGCGTCCCG ATCC	GCTCAATGCAAACCAA AACA	59.6	312	INTERGENIC	--	--	--
Ca1_P3_38283096	Ca1	38283096	ATTTTTTTTT/ATTTTTTTTT	ATTGCTAGCAACGCAT CCTT	GTGGGCCAAAAGCTAC ACAT	59.7	482	INTERGENIC	--	--	--
Ca1_P3_38284193	Ca1	38284193	TC/T	GCCAACACATGGTGAA AGTG	AACAAAGTTTGCAATT GGGC	60.0	939	INTERGENIC	--	--	--
Ca1_P3_38286027	Ca1	38286027	TAAAAAAA/TAAAAAAA	AACCAAAATTGCTCCCAT GAA	TTGAGCATCACCAAT TCCA	60.3	490	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
Ca1_P3_38303577	Ca1	38303577	TT/TTGT	GGTCGTGCTGCAAGGA TTAT	GTGTGGTACTCATGCG ATGC	60.1	873	INTERGENIC	--	--	--
Ca1_P3_38335041	Ca1	38335041	GC/G	TCCACACCAATGGATG CTAA	TCGCGAACTACGTGAC AATC	59.9	459	INTERGENIC	--	--	--
Ca1_P3_38338783	Ca1	38338783	A/AG	GGTTTTTCGAATTGGG GATT	TGGTTCATGTTGGTCA CATTG	60.0	756	DRR	Ca_13967	--	--
Ca1_P3_38339024	Ca1	38339024	TTTT/TTTTCTTC	TTGTATCATGTCCAATG GTCG	CCGAACGCTATCCAAC TCTC	59.3	957	DRR	Ca_13967	--	--
Ca1_P3_38340566	Ca1	38340566	AT/A	ATTTTAATGAATGCCGA CGC	TTCAAATCCTCGGCCA TAAG	59.9	913	INTERGENIC	--	--	--
Ca1_P3_38353011	Ca1	38353011	ATT/ATTT	GTGGTGATTGGAGTGT GTGC	CAAATCCCCTCCATG TTTG	60.0	710	INTERGENIC	--	--	--
Ca1_P3_38393649	Ca1	38393649	GTTTTTTTTT/GTTTTTTTTT	GTTGAGGCAGTAGCCT TTGC	CGTTCTTCTTGCCTT TGTC	60.0	280	INTERGENIC	--	--	--
Ca1_P3_38472540	Ca1	38472540	TAAAAAAAA/TAAAAAAAA	TTCATGCTGTTCTTGG CAT	TGATGAATCAACGCC GATA	59.3	570	INTERGENIC	--	--	--
Ca1_P3_38476810	Ca1	38476810	TTAT/TTATAT	TTGCAAGTACGTTCTCC AAAA	GTGTTACACGCCCTTC ATCC	58.5	280	INTERGENIC	--	--	--
Ca1_P3_38494341	Ca1	38494341	TAAGAAGAAGAAGAAGAAGAA/TA AGAAGAAGAAGAAGAAGAA	ATCCGTCTTCAAGTTGT GGC	ACGCCCTTGAGTGAG ATTA	60.1	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 (°C)	Expected 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_P3_38495552	Ca1	38495552	AAT/AATAATAATTAT	AACACCTTCCTGATCCT CCC	TGGCGAACTTTTAAGA ATGGA	60.3	659	INTERGENIC	--	--	--
Ca1_P3_385001	Ca1	385001	G/GT	TAGTATGCTTCGCTGC CCTT	GTGCGCTTCACAAGAA ATCA	60.0	471	INTERGENIC	--	--	--
Ca1_P3_38510213	Ca1	38510213	TTTTATTTAT/TTTTATTTATTTAT	TCAGGCTTGAATGATT CCC	GCATGGGCTGGTTTAA CAAT	60.0	205	DRR	Ca_13961	--	bHLH
Ca1_P3_38528019	Ca1	38528019	ATTTTTTTTT/ATTTTTTTTTTT	TGGGGATCCTCACCTA CAAG	ATTTGACTCGTGTCG ACTG	59.9	796	INTERGENIC	--	--	--
Ca1_P3_38553789	Ca1	38553789	TAAAAAAAA/TAAAAAAAA	GAAACCACCGAAAAAC TCCA	TGCATGTTAGTAGGCG TTGG	59.9	720	DRR	Ca_13958	--	--
Ca1_P3_38555062	Ca1	38555062	ATTTCTTTT/ATTTT	AACCAATTTGTAAAGTG CGGA	TGTTGCGCTCATTCTT TTTG	59.5	246	DRR	Ca_13958	--	--
Ca1_P3_38559279	Ca1	38559279	CGTT/CGTTGTT	CCTAACCTGTGTCCTTC CCA	GCATCGCTGGGTAATT TGTT	60.0	826	DRR	Ca_13957	--	--
Ca1_P3_38559526	Ca1	38559526	ATTT/ATTTT	GTGCAAAACAGACGTT CAGC	GCATCGCTGGGTAATT TGTT	59.5	363	DRR	Ca_13957	--	--
Ca1_P3_38565326	Ca1	38565326	A/AT	TCAATGCCAAATGTTTT TATCG	AAGTGCAATGCGTGTCT TTTG	59.8	735	INTERGENIC	--	--	--
Ca1_P3_38571843	Ca1	38571843	CAAA/CAAAA	CACCTGACACTGCAAA CCAG	TGGTCAAAGATTTTCAT CAATCA	60.3	617	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
Ca1_P3_38573120	Ca1	38573120	A/AG	TTTCATTGGTGGTGCT TCA	ACCACTTTGTGACTT GGGC	60.1	839	INTERGENIC	--	--	--
Ca1_P3_38596761	Ca1	38596761	CTGTGTG/CTGTG	AACGAGATAGCTGCAC GGAT	TGCTCATGACCTTTT GTGG	59.9	729	INTERGENIC	--	--	--
Ca1_P3_38597715	Ca1	38597715	ATAATTTTAATTTTAATTT/ATAATTTTA ATTT	CATTGCCTCCCTTGTT GTT	TGTAGTTGCTGCAAAC GAGG	60.0	551	DRR	Ca_13956	--	--
Ca1_P3_38597934	Ca1	38597934	CAAAAA/CAAAAA	CATTGCCTCCCTTGTT GTT	TGTAGTTGCTGCAAAC GAGG	60.0	551	DRR	Ca_13956	--	--
Ca1_P3_38613531	Ca1	38613531	GAAAAA/GAAAAA	CCTTCCTTCATGGTGAT TTGA	TCCCTGATCACACTTC CTCTG	59.9	610	INTERGENIC	--	--	--
Ca1_P3_38614804	Ca1	38614804	TTAAGATATAGCAGTAA/TTAA	TGATGGATTTGGGTT CATT	GGATGATGCATTTGAT GCTTT	60.0	756	INTERGENIC	--	--	--
Ca1_P3_38632783	Ca1	38632783	T/TG	TAAATTCGAAATTCGGC CAG	CCACTCCTGGAGGAA TTGA	60.0	250	INTERGENIC	--	--	--
Ca1_P3_38636457	Ca1	38636457	AAT/AATAT	AATATCCCAACAGCCTC ACG	TTGATTGAAACATTGAT TTCCG	60.0	710	INTERGENIC	--	--	--
Ca1_P3_38656733	Ca1	38656733	AT/AAATCATTATT	AATTGGGTGTTGGTGG TTTC	TCACTGATGGGATTGA ACTGTC	59.6	708	INTERGENIC	--	--	--
Ca1_P3_38657360	Ca1	38657360	TAAAAAA/TAAAAA	CCATCAGTGATAACTTG TCCCA	CACAGGACAAGTGCAA TCTCA	59.9	451	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
Ca1_P3_38671088	Ca1	38671088	CTTGTGATT/CTTGTGATTATTTTGTG TGATT	TGTTTGGGTCCTTGAT GGTT	TTAGAGCGGAGCTTCT TCCA	60.2	825	INTERGENIC	--	--	--
Ca1_P3_38672855	Ca1	38672855	CTG/C	AACCCTCACTCTCGCT CAAA	GCCTTAGTTTGTGGG GACA	60.0	570	INTERGENIC	--	--	--
Ca1_P3_38707461	Ca1	38707461	CAAAAAAAAA/CAAAAAAAAAAAAA A	AGTCGGATCTAGTCCC CCAT	TTTCATGGCAACCGT TGTA	59.8	508	INTERGENIC	--	--	--
Ca1_P3_38735998	Ca1	38735998	TC/T	TTCTCCCCTCTCAATCA TGC	TGGATTGACATAAAT GAAAGAAA	60.2	573	INTERGENIC	--	--	--
Ca1_P3_38744020	Ca1	38744020	ATTTTTTTT/ATTTTTTTT	CGGTTGTCATGAAAT GGTTC	TGTGCTTGTCCCACAC ACTT	60.2	658	INTERGENIC	--	--	--
Ca1_P3_38751694	Ca1	38751694	CCTTCTTCTT/CCTTCTT	TCAAATCATGAGCCCAT TTG	ATACCATTTGTGTGGC CGTT	59.5	437	INTERGENIC	--	--	--
Ca1_P3_38759350	Ca1	38759350	CAAAAAAAAA/CAAAAAAAAA	TGTACTCCCCAGACG TAGG	TCAAATTCGGGTTTAT GGC	60.0	575	INTERGENIC	--	--	--
Ca1_P3_38759673	Ca1	38759673	TTTTATTT/TTTT	CAATTGCCATGAAATG GTTT	TGTGCTTGTCCCACAC ACTT	59.7	397	INTERGENIC	--	--	--
Ca1_P3_38771127	Ca1	38771127	GTTATTATTATTAT/GTTATTATTATTAT TATTAT	CCTTGTGGGAAGAAGC TTGA	ATATTGAGCGTCGTAA CCCG	60.4	657	INTERGENIC	--	--	--
Ca1_P3_38796233	Ca1	38796233	GAAA/GAAAA	AACCATTGTGGGGTCG ATTA	CGGTGATCAAACTTAT GGGG	60.1	628	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
Ca1_P3_38798126	Ca1	38798126	CAAAA/CAAAA	AGGACTGGACGTAGCC TTCA	GTGTCCAGAGCTCGT TAGC	59.9	626	INTERGENIC	--	--	--
Ca1_P3_388495	Ca1	388495	ACTCTCTCTCTCTCTCTCT/ACTCTC TCTCTCTCTCTCT	GCCTTGCTGTTCTTGA CCTC	TAGCTGTGCATGCTCA AAGG	60.0	618	DRR	Ca_00040	--	TCP
Ca1_P3_38855200	Ca1	38855200	TGG/TG	TTAGATGGGGCACAGG AATC	TTCCCTTGTCATTGGT CCTC	59.9	526	INTERGENIC	--	--	--
Ca1_P3_38875335	Ca1	38875335	GAAAA/GAAAAA	ACCGAATCCAGTTGAA CGAC	GCGGTTCTCTTCGCTT ATGT	60.0	412	INTERGENIC	--	--	--
Ca1_P3_38875592	Ca1	38875592	TCA/T	ACCGAATCCAGTTGAA CGAC	GGTCAATCCATCCATA GCCA	60.0	516	INTERGENIC	--	--	--
Ca1_P3_38882967	Ca1	38882967	GTTAGGA/GTTAGGACTTAGGA	ATTAGGAACCTGGCA TGTG	GGCAGCATTTGGTGAA CTTT	59.8	464	DRR	Ca_13949	G	--
Ca1_P3_38885860	Ca1	38885860	AC/A	CCAGAAACATTTGGGC AGTT	GACCGACCGTCTGTTG TTCT	60.0	790	INTERGENIC	--	--	--
Ca1_P3_38886569	Ca1	38886569	TAAAAAAAA/TAAAAAAAAA	GCAACACTAGAACAA AGACGG	ATTTATCCATCCATGTC GCC	59.8	786	INTERGENIC	--	--	--
Ca1_P3_38914248	Ca1	38914248	CCTTCAACTCA/CCTTCA	ATGGATGGCGTGGAGT AAAT	TCGTAGGGAATTTGA TTGC	59.3	430	INTERGENIC	--	--	--
Ca1_P3_38922345	Ca1	38922345	CACA/CACAACA	CAAAATGGCTCCAAC CCAT	AACACAAGAAATGCCG GTTC	59.9	754	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
Ca1_P3_38923411	Ca1	38923411	TAT/TATCTTGAT	GCACATTCGAACCTTTC CAT	TTAGGGCACATGCATT TCAA	59.9	642	INTERGENIC	--	--	--
Ca1_P3_38930606	Ca1	38930606	GAAA/GAAAA	TAAAGGACCAAGTCGG GAAG	TTGTCGAGCACGATT ATGC	59.2	491	INTERGENIC	--	--	--
Ca1_P3_38931461	Ca1	38931461	CTTTTTTT/CTTTTTTTTT	TGAAGATTGGGAGGAT GGAG	TTCATGGATTGGTGAG GTGA	60.0	423	INTERGENIC	--	--	--
Ca1_P3_38933493	Ca1	38933493	ACCC/ACCCC	TGTCGCAACCTAACATT TCG	ATACGCATAATCGACT CCCG	59.7	167	INTERGENIC	--	--	--
Ca1_P3_38933903	Ca1	38933903	CCACA/CCACACA	TGTCGCAACCTAACATT TCG	TCTCGTTTTTAAATAAA CCCAAA	59.7	657	INTERGENIC	--	--	--
Ca1_P3_38943612	Ca1	38943612	ATTTAAA/ATTTAAATGTTCTCTTTAAA	GCTCTTGTGAGTTGGT GTTGC	TGGCCTCTTCGGTACT GATT	60.9	571	INTERGENIC	--	--	--
Ca1_P3_38943899	Ca1	38943899	TAAAAAA/TAAAAA	AATCAGTACCGAAGAG GCCA	TGATGGATCCCCTTCA TAAAT	59.7	451	INTERGENIC	--	--	--
Ca1_P3_38951140	Ca1	38951140	CAA/CAAAA	AAC TTCCCAAGGCTC CAGT	GTTGTTGCTTCTGCTC CTCC	60.1	680	INTERGENIC	--	--	--
Ca1_P3_39019566	Ca1	39019566	ATA/ATAAATTA	CTCCTCTCCCTCCATT GAT	ACGAACACCCCTTCGTC ATTC	60.4	684	INTRON	Ca_13946	--	--
Ca1_P3_39019605	Ca1	39019605	TA/T	CTCCTCTCCCTCCATT GAT	ACGAACACCCCTTCGTC ATTC	60.4	684	INTRON	Ca_13946	--	--

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 (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
Ca1_P3_39025647	Ca1	39025647	AACTTACTTA/AACCTTA	TGTGCACACTTAACATC AGTCAA	GCAAGCTTTTTCAGGT GTCC	59.3	627	INTRON	Ca_13946	--	--
Ca1_P3_39028216	Ca1	39028216	TAAAAAAAAA/TAAAAAAAAAAAAA	TCATGGAAGGAGCAAT CACA	TAAGGTTTAGGATGCC CCAA	60.2	764	INTRON	Ca_13946	--	--
Ca1_P3_39041564	Ca1	39041564	TAAA/TAA	GAAAAAGCGCTGTTGT AGGG	TGGCCGCACAATATGT AGAG	59.9	435	INTRON	Ca_13946	--	--
Ca1_P3_39053033	Ca1	39053033	ATTTTTTTTT/ATTTTTTTTTT	TGAGTGCAGAAGCTCC AAGA	TTTACCCAGAATGTCC CTGC	59.9	644	INTRON	Ca_13946	--	--
Ca1_P3_39056415	Ca1	39056415	T/TG	CCTTTTACCGCGCTTAT TTG	TCCCAAGGAACGACCT CTTA	59.7	781	INTRON	Ca_13946	--	--
Ca1_P3_39067582	Ca1	39067582	GAAAAAAA/GAAAAAA	ACCAAAGGATGGCAAT GAAG	TAGCTTGAAAGCTGC CATT	59.9	422	INTRON	Ca_13946	--	--
Ca1_P3_39070514	Ca1	39070514	GAAAAAAAAAAAAA/GAAAAAAAAA	TCACTGACAGGGCTGG ATAA	GAGCCTACAAAATCAA ACTCCG	59.2	884	INTRON	Ca_13946	--	--
Ca1_P3_39070800	Ca1	39070800	T/TC	TGGAAAATGCAATCCTC AGA	AATTGATAACCCACCG CAAG	59.2	609	INTRON	Ca_13946	--	--
Ca1_P3_39073326	Ca1	39073326	GTT/GTTT	GAAAACATGCCCATGG ATCT	GCATTAGGTGCGATG AATG	59.8	578	DRR	Ca_13946	--	--
Ca1_P3_39073753	Ca1	39073753	TCAGAAA/TA	CATTTCATCGCACCTTAA TGC	TTGAAGAAGCATCCCT CTGA	59.1	309	DRR	Ca_13946	--	--

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 (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
Ca1_P3_39075214	Ca1	39075214	T/TA	TGCTCCTCTTCTGGA TTG	TTCTGCACACGGGACA CTTA	60.3	489	INTERGENIC	--	--	--
Ca1_P3_39077300	Ca1	39077300	AA/AACA	CCATCTCTTGGATTCTT GACG	AGGTTTTGGTTGTTTT GCAT	59.7	532	INTERGENIC	--	--	--
Ca1_P3_390880	Ca1	390880	TGAGA/TGAGAGAGAGAATGAGAGAGA	TTTGTGGGAAGCCTA CTTG	CCCACGAGTGGTCTC TGTT	60.1	475	INTERGENIC	--	--	--
Ca1_P3_390995	Ca1	390995	ACTCTCTCTCTCTCTCT/ACTCTCTC T	TGCTTGCTCGGTTATG TGAG	GAGTGGGCAAGGAAAT TTGA	60.0	522	INTERGENIC	--	--	--
Ca1_P3_39108521	Ca1	39108521	CAAAA/CAAA	GCGTTCCGACACGATA AAAG	GAAACAAAAAGCGAG GCAC	59.7	685	INTERGENIC	--	--	--
Ca1_P3_39112897	Ca1	39112897	ACCC/ACCCC	CATCGAAAAGCCACGA AAAG	CTTCGGGTCAAGTAG CAGC	60.7	711	DRR	Ca_13944	O	--
Ca1_P3_39135722	Ca1	39135722	ACAAAATAAATTTTTCAAAATAAATTT/ ACAAAATAAATTTTTCAAAATAAATTT TTTCAAAAATAAATTT	ACGCGTTCTTTCGACAA GTT	GCATATTGTCATTGT GGGA	59.9	611	INTERGENIC	--	--	--
Ca1_P3_39141870	Ca1	39141870	AATATAATATATAATATAATAT/AATA TAATATATAATAT	CAGCAAAACAACGCAC ATTC	AACAAGTGGTGACCT GCAT	60.3	644	INTERGENIC	--	--	--
Ca1_P3_39147028	Ca1	39147028	AT/ATT	AAAATGATCAGGGAAAA TCATGT	ACAACCTCTCATGCTC GCAA	58.7	339	DRR	Ca_13942	--	ARF
Ca1_P3_39166873	Ca1	39166873	GTTTTATTTTATTTAT/GTTTTATTTTA T	ATAATGCGTTAGCGAT GCC	GGTGTCATCGACCACA CATC	60.1	428	INTRON	Ca_13941	--	Trihelix

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
Ca1_P3_39180438	Ca1	39180438	AGTGTTATGTGTTA/AGTGTTA	GTGGTAATCGCGTTGA AGGT	GAGTCCCTGACTTAAG GCCC	60.0	319	INTERGENIC	--	--	--
Ca1_P3_39251292	Ca1	39251292	CAAA/CAAAA	GATCACCTTCACATCCC ACC	TTGTCGGCAGGGGTA GTAAC	60.2	651	INTERGENIC	--	--	--
Ca1_P3_39261977	Ca1	39261977	A/AT	GGTTTGCTGTCGAGCC TTAG	AAACACAAGTCCAATC AAAAGG	60.0	421	INTERGENIC	--	--	--
Ca1_P3_3929921	Ca1	3929921	AT/ATTATTATTATTATTT	TTGTCTTTTGTTAGC CCC	GGATCATGTCCGAGCA TTTT	60.0	412	DRR	Ca_00475	LK	Nin-like
Ca1_P3_39319575	Ca1	39319575	TTTATTTATTGCTTATTATTT/TTTAT TTATTGCTTATTATTGCTTATTAT TT	TTTGCCCTCTTCCTCC AGA	CCACCAAATACAAATA ATTACTACG	60.1	970	INTERGENIC	--	--	--
Ca1_P3_39391530	Ca1	39391530	AATA/AATATA	GCATGACATGGAATCG TCTC	ATGGGGTAGCTTTGGC TTCT	59.0	413	INTERGENIC	--	--	--
Ca1_P3_39402730	Ca1	39402730	TAAAAAAAAA/TAAAAAAAAAAAAA	TCCAAACATTATTTCTT GTTTTCG	TTTTGCAACCATTGATT AGAGA	59.5	325	INTERGENIC	--	--	--
Ca1_P3_39423396	Ca1	39423396	TAA/TA	GGAAAGTTGAGTTGGA AGATGTTT	CCCTCTCTCCCAAT TCTC	59.9	632	INTERGENIC	--	--	--
Ca1_P3_39423621	Ca1	39423621	TAAAAA/TAAAAA	CTCTGGTAAGCGGATC TCGT	CCCTCTCTCCCAAT TCTC	59.5	311	INTERGENIC	--	--	--
Ca1_P3_39430506	Ca1	39430506	ATT/ATTTT	TGCATCTCCCTCAAGCT TTT	TGGAAAAATTTGGGGT TCAA	60.0	976	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 (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
Ca1_P3_39431958	Ca1	39431958	CAAA/CAA	TCAAGTGGAAGGGGT AATG	ACCCCAATCTGCATA AAAA	59.8	902	INTERGENIC	--	--	--
Ca1_P3_39432122	Ca1	39432122	CTTTTTTT/CTTTTTTTTTTTTT	CAATTGCACAAATCATT GTTGA	CAGGTGCATTATTCGG TGTG	59.5	870	INTERGENIC	--	--	--
Ca1_P3_39433392	Ca1	39433392	CTTTTTTT/CTTTTTTT	TATCCATACCACCTGC CAT	CTCAGGATCCTCAACC CAAA	60.0	378	INTRON	Ca_13931	Z	NAC
Ca1_P3_39442792	Ca1	39442792	A/ACT	TGAATGGCATGCAAGA AAAG	GCCAGTGTTCGTGCTT CATA	59.8	631	INTRON	Ca_13931	Z	NAC
Ca1_P3_39444043	Ca1	39444043	TAGTTAA/TA	AATGATGAAAAGCCG AATG	GGAGGGACCTGAAGT CACAA	59.9	838	INTRON	Ca_13931	Z	NAC
Ca1_P3_39446823	Ca1	39446823	GATT/G	GTTGTAAGCTTGCAGG AGGG	TTTTCGCCCCAATAAA GTTG	59.9	713	DRR	Ca_13931	Z	NAC
Ca1_P3_39447104	Ca1	39447104	TTAATG/TTAATGTTGATCTAATG	CAACTTTATTGGGGCG AAAA	CCCTCGATTAATTCTCT TGAGGT	59.9	253	DRR	Ca_13931	Z	NAC
Ca1_P3_39450720	Ca1	39450720	TAAAAA/TAAAAAA	CCTGTGCCTTTGCTTTA TTTG	TTGCATAAATGGGAGG GAAG	59.8	705	INTERGENIC	--	--	--
Ca1_P3_39462763	Ca1	39462763	TA/TAA	AGCGGCGCTTTATACC TTTT	GGGCCGGGAATTAATT AGAA	60.2	642	INTERGENIC	--	--	--
Ca1_P3_39463854	Ca1	39463854	AAATTTAAT/AAAT	ATATTGAGAGTTGCG TGGG	ACCATCTCGATGCAAC ACAA	60.0	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 (°C)	Expected 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_P3_39464239	Ca1	39464239	T/TA	TTGTGTTGCATCGAGAT GGT	CAAGCCGGAAAAGTT TCAA	60.1	560	INTERGENIC	--	--	--
Ca1_P3_39468902	Ca1	39468902	CATATATATATATATAT/CATATATATAT ATATATATAT	GAAGGAAACATGCATG GAAAA	CTGAACCTGGTGGA CTGT	59.9	696	INTERGENIC	--	--	--
Ca1_P3_39492770	Ca1	39492770	A/AC	ACCGAGTGTGGAAC AAGG	GCAGTGCTGAATTTG GTGA	60.3	902	INTERGENIC	--	--	--
Ca1_P3_39508256	Ca1	39508256	GAAAAAAAA/GAAAAAAAAA	ACCTTTAGACTTGGG CACA	CGGTACCATTGTAA ACAATCA	59.6	254	INTERGENIC	--	--	--
Ca1_P3_39511343	Ca1	39511343	CA/CAA	CGACGAAAGTGATG CATT	TGGATTCACAATCAT GGGTT	59.7	136	INTERGENIC	--	--	--
Ca1_P3_39541335	Ca1	39541335	AATATATATATATATATATA/AATATA TATATATATATATATA	TTCTTTTCTCTGAC CCT	CAAAGATTCGGGCAT TTGT	60.0	627	INTERGENIC	--	--	--
Ca1_P3_39550969	Ca1	39550969	C/CG	CGTTTTTCAAAGCGAG GGTA	AATCGATTGATTCAGC CCAG	60.2	782	INTERGENIC	--	--	--
Ca1_P3_39594388	Ca1	39594388	CTTTTTTTTT/CTTTTTTTTTTTT	TGAAATGTGGGCTTTT ACA	AGCTCCAGCCTTTGAA ATTG	60.1	543	INTERGENIC	--	--	--
Ca1_P3_39598978	Ca1	39598978	TC/TCC	TCAAATTTGGCAACCTC ACA	GCGAAGATGGTGCCAA TAAT	60.1	162	INTERGENIC	--	--	--
Ca1_P3_39608275	Ca1	39608275	AGGG/AGGGG	GGTCGACACATGGAGA GTTG	TTATTACCAAACCTGCC CCCA	59.1	637	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 (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
Ca1_P3_39652228	Ca1	39652228	ACCC/ACCCC	GGAGTGACAATGCCCT CAAT	CGGGAGATACGTAGGA GCAA	59.9	774	INTERGENIC	--	--	--
Ca1_P3_39659397	Ca1	39659397	CAAAAAAAAA/CAAAAAAAAAA	TCATGACAATGCAAGTT CGAC	TTCAATCGTGTCTGCT TTGG	59.7	483	DRR	Ca_13922	IR	--
Ca1_P3_39673797	Ca1	39673797	ATTTTT/ATTTTTT	GCCTCAAAGCGAAAT TTGT	TTGGAACACATAAAAA TAATAATCCA	59.3	759	DRR	Ca_13921	--	--
Ca1_P3_39675342	Ca1	39675342	CT/CTCTGAT	CACCAAAGACAGGACC ACCT	CCTAGGGTTTTTGGTT GGGT	60.0	784	DRR	Ca_13920	--	--
Ca1_P3_39682708	Ca1	39682708	GCT/G	TCAATTGGCATTTTGCA CAT	AAATTCAGCACTGCAC CAAA	59.9	802	INTERGENIC	--	--	--
Ca1_P3_39702404	Ca1	39702404	TAAAA/TAAA	TTGTATAACCTCCATGA TTTTGC	ACCAGGAAAGAGAGGT GGGT	58.1	615	INTERGENIC	--	--	--
Ca1_P3_39727320	Ca1	39727320	GATATGATATA/GATATGATATGATA TA	GAGGGTAGCCCAATTG TTCA	GGGCCAAAAGTTACTT GGGT	59.9	452	INTRON	Ca_13917	C	--
Ca1_P3_39743942	Ca1	39743942	TAAAA/TAAAAA	TTCCATTTCTCCACAA AGC	TGCTACAACCGCATTG TCAT	60.1	563	DRR	Ca_13915	--	--
Ca1_P3_39744308	Ca1	39744308	CTATATATATATATATATATATATA TATATATATATATATA/CTATATATATAT ATATATATATATATATATATATATA TATATA	ATGACAATGCGGTTGT AGCA	TCCATTGCACTGACC CATA	60.1	667	DRR	Ca_13915	--	--
Ca1_P3_39766448	Ca1	39766448	AT/ATCTT	AAAGCCACTATCAGGG TGGA	TCCAAATCCATTTC TCC	59.6	701	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
Ca1_P3_39782012	Ca1	39782012	TAT	TTTCTAGACCATCTG CGG	CGATCAAATATTTTCA CCGAA	60.2	678	INTERGENIC	--	--	--
Ca1_P3_39816033	Ca1	39816033	CTTTTT/CTTTTT	ATGCTAACTCACGCTT GTA	AATATCGGCATTGTG GGTT	57.1	688	INTERGENIC	--	--	--
Ca1_P3_39844169	Ca1	39844169	ATT/ATCACTTT	AATTAATATTCGCGCAA CGC	AATGGATGCATCAAAT GGGT	60.1	879	INTRON	Ca_13909	--	--
Ca1_P3_39847076	Ca1	39847076	TTATATATATATATATATATATAT/TTATATATATATATATAT	ACGAATTGGAGACGAA CACC	GCGGGAATAATTCCT CCAA	60.0	491	INTERGENIC	--	--	--
Ca1_P3_39847433	Ca1	39847433	AAATA/AAATAATA	GAGGAAATTATCCCG CAA	TTTGACTTCGTCGTT TTGA	59.0	735	INTERGENIC	--	--	--
Ca1_P3_39850133	Ca1	39850133	GTTAGTAATTCAAAAATTA/GTTA	CACAGCACCGAGTTAT CCCT	CTCCTGTGGAGGGAC CATA	60.0	563	INTERGENIC	--	--	--
Ca1_P3_39913212	Ca1	39913212	GTTTTTTTTT/GTTTTTTTTT	TTGCTCCGAAAAAGATA GACC	GAGTTGAGGTATGACC ATTGGA	58.5	596	INTERGENIC	--	--	--
Ca1_P3_39913516	Ca1	39913516	TTTATTATTATTATTATTATTATT/TTATTATTATTATTATT	TTGCTCCGAAAAAGATA GACC	CCCGGAGAGATAACAA CGAA	58.5	979	INTERGENIC	--	--	--
Ca1_P3_39949927	Ca1	39949927	AACACA/AACA	TTCATTCTCGTGTTC ACC	GGAAAGCCGTACAAA TGTT	59.7	421	INTERGENIC	--	--	--
Ca1_P3_39955215	Ca1	39955215	GTA/GTATA	CAAATGGATGAAGAGG AAAAGG	AACGACTTGCAATTGT CCCT	59.9	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 (°C)	Expected 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_P3_39990882	Ca1	39990882	ATATTATTATTATTATT/ATATTATT ATTATTATTATTATT	CGGATCAATGGAGAAG AAGG	AGCTGACTCCCATTGA AAGC	59.6	778	INTERGENIC	--	--	--
Ca1_P3_40015677	Ca1	40015677	CTTTT/CTTTT	CAACTTGGTCAAAGATT TTCTTCA	CCAATAGTGGTTGCCT TCGT	59.7	573	INTERGENIC	--	--	--
Ca1_P3_40026256	Ca1	40026256	GAA/GA	CATTGAGGCAAGGGGT AAGA	CGAATTGTCGTGAGT AAAATGA	60.1	658	INTERGENIC	--	--	--
Ca1_P3_40032224	Ca1	40032224	GCTCT/GCT	TGAGTAACCGTGCAATT CAGC	TAATGCTGTGCTTCTC GGTG	59.9	278	INTRON	Ca_13904	OE	WRKY
Ca1_P3_40033057	Ca1	40033057	CAGATAGATAGATAGATAGATA/CAGAT AGATAGATAGATAGATAGATA	ATCCCGGTGACATCTA CTCG	CGTGAGTCCGGCATAT TCTT	60.0	248	INTRON	Ca_13904	OE	WRKY
Ca1_P3_400621	Ca1	400621	ATT/AT	TGCCCAAAACACCACA CTAA	GCGTTGAACGGTTTTT GAAT	60.0	442	DRR	Ca_00042	J	GRAS
Ca1_P3_40073823	Ca1	40073823	ATTTTTTTTTTTTTTT/ATTTTTTTTTTTT	CAAGCTCGGACTTGAA CCTC	ACTCCCCCTCAATATG TGCT	60.0	323	INTERGENIC	--	--	--
Ca1_P3_40081687	Ca1	40081687	AATTTATATAT/AAT	TTTCCACCATTTGGATGA TGA	TTGCCTGAAAAAGAGA TGCAA	59.7	475	INTERGENIC	--	--	--
Ca1_P3_40087661	Ca1	40087661	C/CTATACTATT	CGGGGAATGAATGTTA TTGG	TACAACCCCTTCATC TTGG	60.0	249	DRR	Ca_13902	J	NAC
Ca1_P3_4009762	Ca1	4009762	AT/ATT	CGCACACACTTTCTAC GCAT	TTGATCTGGTCAAATA AGCCA	59.9	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 (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
Ca1_P3_40147055	Ca1	40147055	CGTTTCAAATTAAGT/CGT	ACGAAACAATCATTGA ACGTA	AGCGTTGCCAAAATA ATGC	57.3	532	INTERGENIC	--	--	--
Ca1_P3_40169550	Ca1	40169550	AT/A	TTCCAGTGGCTAACAAT CCC	AAATGGGACTCACACA ACCA	59.9	490	INTERGENIC	--	--	--
Ca1_P3_401873	Ca1	401873	TAAA/TAAAA	CAAAATTACTGCAGGC CCAT	TGTCCACCACTGTCAC CACT	60.0	708	INTERGENIC	--	--	--
Ca1_P3_40196351	Ca1	40196351	CAAA/CAA	ACATGCCAGGTGACAA AACA	TGTTAACCGATTCTGC CAGA	60.0	912	INTERGENIC	--	--	--
Ca1_P3_40209764	Ca1	40209764	GATATATATATA/GATATATATATA	ACGGCAAGACCTTAA ACCT	CTTGTTTTCACCGAC CGTT	60.0	518	INTERGENIC	--	--	--
Ca1_P3_40224367	Ca1	40224367	AGG/AG	CAACGCAAAATTGAAC CACC	TCTTTGCCTCATAGGA GCGT	60.5	201	INTERGENIC	--	--	--
Ca1_P3_40297702	Ca1	40297702	TAAAAAAAA/TAAAAAAAAA	TCCTCAGGTTTAGTTT TTCAAA	ATTGCCACGTTTGG CTTC	57.3	396	INTERGENIC	--	--	--
Ca1_P3_40298582	Ca1	40298582	TAAAAAAAA/TAAAAAAAA	TTTTAAAGATGCTGAA CAAACAAA	AGCCGTGTTGATTTT GCTA	59.3	251	INTERGENIC	--	--	--
Ca1_P3_40298972	Ca1	40298972	AC/A	TAGCGAAATCAACAC GGCT	ATCGAAACATCGCTCT GGAT	60.8	706	INTERGENIC	--	--	--
Ca1_P3_40299346	Ca1	40299346	AACACACAC/AACACAC	CAAAATTTGGCATATCCC TCC	GAATGAAGATGGCCTT GGAA	59.2	532	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
Ca1_P3_40303709	Ca1	40303709	TGG/TG	TGACCAATGCCTTGAG AACA	CAAGGAGAGGCGAGC TTAAA	60.2	602	INTERGENIC	--	--	--
Ca1_P3_40319622	Ca1	40319622	CTATTATTATT/CTATTATT	TCTCCGTAATTGGTGT GCAA	AAACCAAAATCCATGC CAAA	60.1	771	DRR	Ca_13894	R	C3H
Ca1_P3_40320081	Ca1	40320081	CTCTTCTT/CTCTT	TTGGCATGGATTTTGG TTTT	GCTGGTGTCCACAGAC AATG	60.2	380	INTERGENIC	--	--	--
Ca1_P3_40326561	Ca1	40326561	GTT/GTTT	CCGGCAAATATGACGA ACTT	AAACCAAGAACAAAAT GGCG	60.0	540	INTERGENIC	--	--	--
Ca1_P3_40329164	Ca1	40329164	AT/A	GCCGATTGTCTCAGGA AGAG	TACGCAAATCCCACAC AAAA	60.0	419	INTERGENIC	--	--	--
Ca1_P3_40334577	Ca1	40334577	TGGGGGGG/TGGGGGG	TTTTCAGGCATTGCATT CAT	AATTTTCCCCAACAAAA GGG	59.1	762	DRR	Ca_13893	S	--
Ca1_P3_40355583	Ca1	40355583	TAAAA/TAAAAA	GGAATTCTCAGGTTTTT GCA	TTCATGGTTGCTTTAA GGGG	60.2	616	INTRON	Ca_13893	S	--
Ca1_P3_40370849	Ca1	40370849	GATAGACTTAAT/GAT	AAACTCAAATCCATCGG TCG	TTGTGTGAGAAGCTGC CCTA	59.9	724	INTERGENIC	--	--	--
Ca1_P3_40392920	Ca1	40392920	AT/A	AATTGCTTCTTGCTTGC CTT	TTGACCAACTATCACC AAGCC	59.1	594	INTERGENIC	--	--	--
Ca1_P3_40398387	Ca1	40398387	CT/C	TGAAAAATACTTTTGGG CCG	AAAACGCCATGGATTG TCAT	59.9	858	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
Ca1_P3_403989	Ca1	403989	CT/CTCGTATTGACAGT	TTGCACCTTATGCTTCA CCA	CAATGGGAGCGCAGTT TTAT	60.3	228	INTERGENIC	--	--	--
Ca1_P3_40408351	Ca1	40408351	CAACGTATCAAA/CAA	TCACAAACAATTGCGAA AACA	CCACCTCCATGCCTCT AAAA	60.1	657	INTERGENIC	--	--	--
Ca1_P3_40408466	Ca1	40408466	CTTATTTATTTATTTA/CTTATTTATTTA TTTATTTA	TCACAAACAATTGCGAA AACA	CCACCTCCATGCCTCT AAAA	60.1	657	INTERGENIC	--	--	--
Ca1_P3_40408801	Ca1	40408801	ATT/ATTGAGCCAACTT	TTTtagagGCATGGAG GTGG	TTTTGCAATGTTGGG TTCA	60.1	343	INTERGENIC	--	--	--
Ca1_P3_40411055	Ca1	40411055	CTATTTTATATATTTT/CTATTTTATA TATTTTATATATTTT	TGGTGTCTTTGTGGC ATGT	AACGCCACAAATTTG ATCC	60.0	460	INTERGENIC	--	--	--
Ca1_P3_40411589	Ca1	40411589	TAAAAAAAAA/TAAAAAAAAA	TTTGGGGCATTAGAGC AATC	GGGTGTTACCCGTA TCCT	60.0	363	INTERGENIC	--	--	--
Ca1_P3_40421450	Ca1	40421450	ATTTTT/ATTTTTT	GGTGTCTTGAGCGAG TAGC	CGGTCTTTGGCTTGA AATA	60.0	583	DRR	Ca_13890	A	--
Ca1_P3_40421787	Ca1	40421787	GT/GTT	TATTTCCAAGCCAAAGA CCG	TCCTTCATCCGAACAT ACCA	60.1	217	DRR	Ca_13890	A	--
Ca1_P3_40424994	Ca1	40424994	C/CCAAATATTATAA	TGCAAACTTTGTTTCA TGAG	GCATCATTCTCTTCG AGACA	59.0	748	INTERGENIC	--	--	--
Ca1_P3_40425232	Ca1	40425232	AAA/AAATAA	CATTTTAAAGCTTTGT TGCCA	GCATCATTCTCTTCG AGACA	59.3	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
Ca1_P3_40425317	Ca1	40425317	GTCTC/GTCTCTC	CATTTTAAAGCTTTGT TGCCA	TTTCATTAAGGTGAATC GTTCAGA	59.3	608	INTERGENIC	--	--	--
Ca1_P3_40425540	Ca1	40425540	ATTTTTTTT/ATTTTTTTT	TGTCTCGAAGGAGAAT GATGC	AAACCGGTTCAAAAT GCAC	60.4	600	INTERGENIC	--	--	--
Ca1_P3_4049247	Ca1	4049247	TAA/TA	CAAGATGAGCAGCATG GAAA	TTGATGTCGATGGCTA CGAA	59.9	677	DRR	Ca_00486	K	--
Ca1_P3_40535882	Ca1	40535882	AATATATATATATATATATAT/AATAT ATATATATATATATATATAT	GATGATGATGATGTCG TGCC	ATCACAGTTTGCCAA GTCC	59.9	311	INTERGENIC	--	--	--
Ca1_P3_406876	Ca1	406876	C/CCCTCTTT	TGACACAAAATCAGGC CAAA	ACACATGGCAAAATT CACG	60.1	629	INTRON	Ca_00043	--	--
Ca1_P3_40735911	Ca1	40735911	AATATATATATATATATATATATATAT ATATATATATATATAT/AATATATATATA TATATATATATATATATATAT	AAATGCAAAATTTAAG CGTGA	CCATTGGAAAGTGTGT AGTGC	58.8	533	INTERGENIC	--	--	--
Ca1_P3_4078386	Ca1	4078386	GCACA/GCA	AATTTTAGGCCGTGACA TCG	TTCAC TAGGACGACGA GGCT	60.0	575	INTERGENIC	--	--	--
Ca1_P3_40889769	Ca1	40889769	TTATATA/TTA	GCATCTCTTGATGCCC TTTT	AACATACGCCATACCC AAGC	59.3	289	INTERGENIC	--	--	--
Ca1_P3_40890013	Ca1	40890013	ATT/ATTT	GCTTGGGTATGGCGTA TGTT	TACGAACACTTGCAAA TCCG	59.9	243	INTERGENIC	--	--	--
Ca1_P3_40890559	Ca1	40890559	ATTTTT/ATTTTTT	CGGATTTGCAAGTGTT CGTA	TGGGGTTTAGGATATC ACATCA	59.7	707	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
Ca1_P3_40890662	Ca1	40890662	CAAA/CA	CAAGAAACAAATTGCAA TGGA	TCAAGTTTGGGAGGAA CCAC	58.7	704	INTERGENIC	--	--	--
Ca1_P3_4105789	Ca1	4105789	A/AGCACT	AAAAGTTTGCTGAGGA GCCA	AAAGGGCAAGGATGTG TTTG	60.0	163	INTRON	Ca_00493	D	TCP
Ca1_P3_41069860	Ca1	41069860	TG/T	GACCAGCTCCAAACCA TCAT	ATTTATGGGTTGCTTG AGGG	59.9	179	INTERGENIC	--	--	--
Ca1_P3_41076452	Ca1	41076452	T/TAAC	AAATGGAACAGAAGCA ACCG	TGTGCACATGTCTCGA TTGAC	60.1	650	INTERGENIC	--	--	--
Ca1_P3_41247330	Ca1	41247330	AATATATATATATATATATA/AATA TATATATATATATATATATATA	AAAGACCAAGCTCTTTC ATTGC	GAATGTTGTCCTTCGC ACCT	59.9	688	INTERGENIC	--	--	--
Ca1_P3_41500233	Ca1	41500233	CTTTTTTTTT/CTTTTTTTTTT	TCCAGGTAACGTTTTG GTCC	TGGAAGAAAACGGAT GAGG	59.8	136	INTERGENIC	--	--	--
Ca1_P3_41535010	Ca1	41535010	TCCCC/TCCC	GGAACCTCCCGATTAA ATTG	GCGACCATCTGTTGCA GTTA	58.4	635	INTERGENIC	--	--	--
Ca1_P3_4164104	Ca1	4164104	TCAGC/TC	CGATAGCCAAATGAGT TCGTC	GTAAGTCTGTGAAGC ACCG	59.7	131	INTERGENIC	--	--	--
Ca1_P3_4164590	Ca1	4164590	GTT/GT	ATGAGTTCGTCCTGCA GCTT	CGTGTCATAGAAATT GCCG	59.9	617	INTERGENIC	--	--	--
Ca1_P3_41659303	Ca1	41659303	GATAATAATAATAATAATAATAATA ATAATA/GATAATAATAATAATAATAATA ATAATAATAATAATA	ATGCATAAGCAGCAGA CACG	CAGAAGATTTTCTTCT GCCA	60.0	773	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
Ca1_P3_41695402	Ca1	41695402	CTA/CTATA	TACTTCCATGCAAACCA GCA	CCAACTCTGAAATACA AAAGCCA	60.3	486	INTERGENIC	--	--	--
Ca1_P3_41704419	Ca1	41704419	CATAATAAT/CATAAT	GGGGAATTTTCATTT GTGG	TGTTTTGGTTTCAAGG GACA	60.4	311	INTERGENIC	--	--	--
Ca1_P3_41704503	Ca1	41704503	CTTTTTT/CTTTTTT	GGGGAATTTTCATTT GTGG	TGTTTTGGTTTCAAGG GACA	60.4	311	INTERGENIC	--	--	--
Ca1_P3_4171296	Ca1	4171296	T/TCATTTTTAGCTTA	CAACAAAACGCGCTAAT GAC	CGAGATTTTGAGGCAT GTTG	59.4	522	INTERGENIC	--	--	--
Ca1_P3_41718814	Ca1	41718814	T/TG	GGGTCGAATGTCGATT CTGT	TCATCTCTCAGCCCCA CTCT	59.9	156	INTERGENIC	--	--	--
Ca1_P3_417847	Ca1	417847	CCAAAGCAA/CCAA	TAAGGGTAAGGCCACC AAAG	AACCGTTATACGGCAA CGAC	59.1	594	INTERGENIC	--	--	--
Ca1_P3_41797428	Ca1	41797428	CCTTCTT/CCTT	CTCACGCCATCACCA CAAC	GGAAAAGATGGGTGG GTTT	60.2	383	CDS (large-effect mutations)	Ca_22519	--	--
Ca1_P3_41858276	Ca1	41858276	ANNNNNNNNN/A	CTCATGTGTCCGAATT GTGG	CGTGGCCTACTACCGT TCAT	60.0	681	CDS (FRAME SHIFT)	Ca_22522	--	NF-YB
Ca1_P3_41912357	Ca1	41912357	AATATATATATATATATAT/AAATAT ATATATATATATATAT	TATGGTTCAAATTGCCA CGA	TGTTATATTTTGTATG TCTTCGG	60.1	689	INTERGENIC	--	--	--
Ca1_P3_41998443	Ca1	41998443	CG/CGG	CCATTTTCTCACGTGC TTTC	ATCCCTCTATTGGTGG GTCC	59.7	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 (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
Ca1_P3_42021612	Ca1	42021612	TAAA/TAAAA	CTCCTTCAGTTTTGAGA CACGA	TCGATTATGCGTAGGG AAGG	59.5	442	INTERGENIC	--	--	--
Ca1_P3_42026909	Ca1	42026909	AACAACAACGAC/AACAACAACGACAA CAACGAC	GACGACGACAACATGA CGAC	TGTTGTTGCCGTTGTT GTTT	60.2	374	INTERGENIC	--	--	--
Ca1_P3_42053807	Ca1	42053807	CGTTGTTGTTGTTGTTGTTGTTGT/ CGTTGTTGTTGTTGTTGTTGTTGT	GGGATCTTTTTGGCTG ATGA	CTCATCCTCGCCATTG TTTT	60.0	452	INTERGENIC	--	--	--
Ca1_P3_42079737	Ca1	42079737	AATATATATATATATATATATATA/AA TATATATATATATATATATATATA	GTTGCAACGAACCAAC CTTT	GCTACTTTGCAAGTGG ATGAAG	60.0	730	INTERGENIC	--	--	--
Ca1_P3_42098363	Ca1	42098363	CTATATATATATATATAT/CTATATAT ATATATATATATAT	ACGTTCTTTTGGGTG GTG	ATCCCATTAGCCACAT TCCA	60.0	266	INTERGENIC	--	--	--
Ca1_P3_422421	Ca1	422421	CTTTTT/CTTTTTT	TGCAGGAACATAAAATG CCA	CCCTGCTGCTCTCTGA TTTC	60.1	564	INTRON	Ca_00046	--	NF-YC
Ca1_P3_4228091	Ca1	4228091	TAA/TA	TACAAATGTGTTGGAG CGGA	TCTTCTGCGGTGATTG TGAG	60.1	396	INTERGENIC	--	--	--
Ca1_P3_422976	Ca1	422976	ATATATATGCCTATATATG/ATATATAT G	GAAATCAGAGAGCAGC AGGG	CTAGCGCCTTCTTACA TCGC	60.1	768	DRR	Ca_00047	--	--
Ca1_P3_4231040	Ca1	4231040	CTA/CTATATA	CCTTCGAATCTTCCCA TCA	TCGAGCTAATTCATC ACCC	60.0	778	INTERGENIC	--	--	--
Ca1_P3_4233360	Ca1	4233360	TTTAAATTTAAATTTAAATT/TTTAAAT TTAAATT	TAATGGGCTTCGTGGG TTAG	GTGCAGCACATTCGAG AGAA	60.0	683	DRR	Ca_00504	--	--

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
Ca1_P3_4234905	Ca1	4234905	A/AC	TGGAGACAAAAGGAGA ATCCA	TTCTTTACCGGATGT CCTC	59.7	759	DRR	Ca_00504	--	--
Ca1_P3_4239941	Ca1	4239941	CGGG/CGGGG	CGACATGGACGCTAAT TCCT	TAGGCCACCTACTGC TGTC	60.1	327	INTERGENIC	--	--	--
Ca1_P3_4240341	Ca1	4240341	CGTGT/CGTGTATATAGCTTTTGTGT	TTGGATGAGACCCAAG TGCT	AATCGTGTGTTGAAAG GCGT	60.4	606	INTERGENIC	--	--	--
Ca1_P3_424349	Ca1	424349	TC/T	TGATAACGAAGCCACC ATCA	TCATGCAGAGCTGGTT CTTG	60.1	475	DRR	Ca_00047	--	--
Ca1_P3_4244246	Ca1	4244246	A/ACAAC	TGCTGTCCAACGAGA CATT	GTGGAGGTTTGGCAAG TGTT	59.3	675	DRR	Ca_00505	--	--
Ca1_P3_425468	Ca1	425468	T/TAACCGAA	TACAAAGCTGGTGTGC TTGC	AGCTTGGAGGTTTGC TAGA	60.1	886	DRR	Ca_00048	U	--
Ca1_P3_4255726	Ca1	4255726	TAAAAA/TAAAAA	CTTTTGCCTTCACAAA TCA	TCAAAGCAAAGTACCC CCAC	60.0	584	INTRON	Ca_00507	--	--
Ca1_P3_42615631	Ca1	42615631	ATTTTTTTT/ATTTTTTTTT	GCAGCAAATCCGAAG GTAG	GGTCAATCAAATTCGA CGGT	59.8	529	INTERGENIC	--	--	--
Ca1_P3_4279698	Ca1	4279698	TAA/TAAA	CTCAAAGGGTTCCTTC CACA	CAAAGTTTGACAAAC GTGAA	60.1	706	INTERGENIC	--	--	--
Ca1_P3_42810991	Ca1	42810991	AATATATATATATATATATATA/AATA TATATATATATATATATA	GTCCACATCATTCAAAC CCC	AATGGGTCTTTCACGA ATCAA	60.0	837	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
Ca1_P3_4286155	Ca1	4286155	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/TTTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTA	ACAAGGGTGCTGCTAT TTGC	TTTTGATGAGTCACCA GACAAGTT	60.3	839	INTERGENIC	--	--	--
Ca1_P3_43049776	Ca1	43049776	CTATATATATATATATATATATA/CTA TATATATATATATATATATATA	TGATCCTTCCGATCTTC CTG	AATGACGACGACGATG ATGA	60.2	102	INTERGENIC	--	--	--
Ca1_P3_43081583	Ca1	43081583	A/AGTACGTACTGTAACGTAC	TGTTCTGAGACCCGAA ATCC	TGGGCGTTATCTTTCC ATTT	60.1	328	INTERGENIC	--	--	--
Ca1_P3_43119967	Ca1	43119967	AATATATATATATATATATA/AATATA TATATATATATA	TTTCCGGGAATAAATCC CTC	GAAGGAGAGTTTCGCGT TGAC	60.1	361	INTERGENIC	--	--	--
Ca1_P3_43188274	Ca1	43188274	AATATATATATATATAT/AATATATATAT ATAT	CACCTTTTAACAAATTG ACCATTG	AGCAAGAACAGCCGCA TAGT	59.7	916	INTERGENIC	--	--	--
Ca1_P3_43262365	Ca1	43262365	GAA/GA	CGTATCTCCTAGTGCG ATGGA	AAAAGGGGTTGATTTTC CTTCA	60.2	792	INTERGENIC	--	--	--
Ca1_P3_43262446	Ca1	43262446	GAATAAAATAAAATAAAATAAAATAAA TAAA/GAATAAAATAAAATAAAATAAAAT AAAATAAAATAAA	TCTCCTAGTGCGATGG AGAAA	TTAAGTTGGTTTGGGC TTGG	60.0	883	INTERGENIC	--	--	--
Ca1_P3_43375332	Ca1	43375332	GAAAAAAAAA/GAAAAAAAAA	TTTTCGAAATGGAACCT TCG	TACCATGCACCATCAC ACCT	60.0	511	INTERGENIC	--	--	--
Ca1_P3_43389439	Ca1	43389439	TAAAAAAAAA/TAAAAAAAAA	GTGTAATGGGGTCAAA TGGC	CAGTTGAAAAAGGGCT TTGC	60.1	758	DRR	Ca_13577	D	--
Ca1_P3_43438412	Ca1	43438412	CGTCGTGTCGTG/CGTCGTGT	CATGAACGACGTTTGAT TGG	TGGCCACCAATTAAT GACA	60.0	575	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
Ca1_P3_43438547	Ca1	43438547	T/TAC	GGGGCGTTACATGTGG TATC	TTCATAGAGGTTACAC AATCACACA	60.1	300	INTERGENIC	--	--	--
Ca1_P3_43459831	Ca1	43459831	TTATATATATATAT/TTATATATATAT	TTGCATTGCACCTTGTG TGA	ACGCAATGCTGTTTCT CGTA	58.9	404	INTERGENIC	--	--	--
Ca1_P3_43550360	Ca1	43550360	ATTT/ATT	TGCAGAGTAATTCGGT TTGTTT	GGCATTAAAGCCTCAAA TCCA	60.1	458	INTERGENIC	--	--	--
Ca1_P3_43595794	Ca1	43595794	AAAGAAGAAGAAGAAGAAGAAGA AGAA/AAAGAAGAAGAAGAAGAAG AAGAAGAAGAA	GGAAGCCTGGAATGAC ACAT	TTCAATTCGATTTTGA CCC	59.9	555	INTERGENIC	--	--	--
Ca1_P3_43638401	Ca1	43638401	A/ATATGTCITT	CGCTTCATGTGTGTG CTTT	ACCCCTCCTAAGTGGG TTGA	59.9	857	INTERGENIC	--	--	--
Ca1_P3_43687147	Ca1	43687147	TAA/TA	TGTGGCTAAGATTAGAA TCCCAT	TTGATGCAAACGTAAT TCATAAAGA	59.0	586	INTERGENIC	--	--	--
Ca1_P3_43687166	Ca1	43687166	GAAAAAAAAA/GAAAAAAAAA	TGTGGCTAAGATTAGAA TCCCAT	TTGATGCAAACGTAAT TCATAAAGA	59.0	586	INTERGENIC	--	--	--
Ca1_P3_43696370	Ca1	43696370	TAAA/TAA	TGATCTTCAGCTTCACC GAA	AGCCGTCATGACTTTT GTCC	59.5	200	INTERGENIC	--	--	--
Ca1_P3_43729030	Ca1	43729030	TA/TAGAGAGAGAGA	CAGAACCCCATAGACC CAAA	TGTGTAGACACCCAG GACA	59.8	351	INTERGENIC	--	--	--
Ca1_P3_43734484	Ca1	43734484	GTATATATATATATATATATATAT ATATATATATATATATATATATATA T/GTATATATATATATATATATATA TATATATATATATAT	TGCATCAAACCTGTGCG GAAA	TGTGCAGGCAAGAACT CAAC	60.2	869	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
Ca1_P3_43781549	Ca1	43781549	CG/CGTGGTGGTTAG	ATCGGTGAACGAGGAT CAAG	CTTCTCTTCCGGTGA ACAA	60.1	747	INTRON	Ca_13549	--	--
Ca1_P3_43865009	Ca1	43865009	TAAAAAAAA/TAAAAAAAA	AAACATCAAATTCACCC CCA	TTTGATTTGTGGTATG GAGCA	60.0	747	INTERGENIC	--	--	--
Ca1_P3_43867975	Ca1	43867975	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATA	TTGCTGGCATAAGTGA ATCG	CCGTGAATTTTCATGG AATAAA	59.8	711	INTERGENIC	--	--	--
Ca1_P3_43963718	Ca1	43963718	AAATAATAATAATAATAATAATAAT AATAATAATAATA/AAATAATAATAATA TAATAATAATAATA	ACTTGGTGTTGGTGTG TCCA	TAGTCGTGGTGATGC GGAA	59.9	529	DRR	Ca_13536	--	--
Ca1_P3_44080228	Ca1	44080228	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATATA T	TGCAAAATTCATCAAA CCA	CCACATCATTTAAACT CGAATG	57.5	761	INTERGENIC	--	--	--
Ca1_P3_44093089	Ca1	44093089	G/GAA	AAAGAGCCAAGAGCCA AACA	TATTTTGGAGCCCACT GGTG	60.0	522	DRR	Ca_13529	S	--
Ca1_P3_44245473	Ca1	44245473	GT/GTT	GAGAAACAAGGTGTGG AGCC	TGTTCAACCCATAGA GGGC	59.7	380	INTERGENIC	--	--	--
Ca1_P3_44247311	Ca1	44247311	GTTTTTTTTT/GTTTTTTTTT	TTCTCCAGACTCTAGCC CGA	AGCTTCTCAGTAGGGG GCTC	60.1	592	INTERGENIC	--	--	--
Ca1_P3_44351850	Ca1	44351850	TTATATATATATATA/TTATATATATA TATATATA	TGAAATTCGGAAGAAC CAGG	CGCATTCCCTTCACCT CTAA	60.0	111	INTERGENIC	--	--	--
Ca1_P3_44368738	Ca1	44368738	GATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA/GATAAT AATAATAATAATAATAATAATAATA ATAATAATAA	TTGTAACCTCCCGAATT GTTG	AGAGGCAACAAGAAC CGAA	59.8	534	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
Ca1_P3_4444544	Ca1	4444544	AATATATATATATATATATA/AATATA TATATATATATATA	AATCGATTGGCTGAAAT CCA	GACATTTAACAGCGCC CATT	60.4	663	INTERGENIC	--	--	--
Ca1_P3_44467119	Ca1	44467119	GTT/GTTT	ATGCAGCTCAAAAACA GCCT	GGTTCACCCAAAGATG GCTA	60.0	537	INTERGENIC	--	--	--
Ca1_P3_44467151	Ca1	44467151	GTTT/GTTTT	ATGCAGCTCAAAAACA GCCT	GGTTCACCCAAAGATG GCTA	60.0	537	INTERGENIC	--	--	--
Ca1_P3_44543117	Ca1	44543117	GGAGAGAGAGA/GGAGAGAGAGAGA	CCGACAGGGTCTTAGC TGAC	AGAAGCCATTCGTGCA AAGT	59.9	454	INTERGENIC	--	--	--
Ca1_P3_44650256	Ca1	44650256	T/TC	TCGTTTGCGTCATTGG ATTA	AGGGAGGACGAAAATG ACCT	60.1	444	INTERGENIC	--	--	--
Ca1_P3_44715452	Ca1	44715452	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATATATAT	AGTTTCGAGCTTGGGAC TTCA	TTTCGGGAAAGAAACA ATAGGA	60.0	704	INTERGENIC	--	--	--
Ca1_P3_44734189	Ca1	44734189	TC/T	TTTCACCATTGGTCTCC ACA	GTGGCGAATCATCACA AATG	59.9	429	INTERGENIC	--	--	--
Ca1_P3_44745225	Ca1	44745225	A/AC	TCCGGATATAGTCCTG CCAC	TCCTTGTGAACGACTT GGTG	59.9	632	INTERGENIC	--	--	--
Ca1_P3_44776081	Ca1	44776081	AATATATATATATATATATATATATAT ATATATATATATA/AATATATATATAT ATATATATATATATATATATATATA TATATATA	TGGAATACCATATATTT TACGTTTTCA	TGACGGATCCTTTCTT GACA	59.1	795	INTERGENIC	--	--	--
Ca1_P3_44847079	Ca1	44847079	ATTTTTTTTTTT/ATATTTTTTTTTTTTT	GACATGCTCAGTAATTG CCC	AAAATCCAACAATCTCC CCC	58.2	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
Ca1_P3_44847313	Ca1	44847313	TATAATAATAATAATAATAATA/TATAAT AATAATAATAATA	TGTTTCTGCCTTTTG CCT	AAAATCCAACAATCTCC CCC	59.9	274	INTERGENIC	--	--	--
Ca1_P3_44982741	Ca1	44982741	TAAAAAAAA/TAAAAAAAAA	CCTATCTATCCCGAAAC GCA	ACCTTCGCCCAATAAA TGTT	60.1	197	INTRON	Ca_25713	--	WRKY
Ca1_P3_45057162	Ca1	45057162	CATAAA/CATAAATAAA	TTGCTTGAATAGGCAAT GGA	ACGTCGACGACATCAA AGTG	59.3	645	INTERGENIC	--	--	--
Ca1_P3_45057964	Ca1	45057964	CAAA/CAA	AACTAGATTATGGCCT GCG	TGCTCGCAATTA AAC ATGC	57.0	426	INTERGENIC	--	--	--
Ca1_P3_45104438	Ca1	45104438	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAA/TTAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATA	TTTCAGGCGATTTCGT ACC	AAGTGGGGAACGTGA CTTG	60.1	744	INTERGENIC	--	--	--
Ca1_P3_45124635	Ca1	45124635	GTATATATATATATATATATATATA/GTA TATATATATATATATATATATATA	TCCGAGACACAAGACC AACA	TTACGACACAATTGTT GCCA	60.3	836	INTERGENIC	--	--	--
Ca1_P3_45186673	Ca1	45186673	AATATATATATA/AATATATATATATA	AAGTGGGGGTTTGTGT TTGA	ATTGAGATGGGAGTGA AGCG	60.2	378	INTERGENIC	--	--	--
Ca1_P3_45206253	Ca1	45206253	AATATATATATATATATATATATATAT ATATATA/AATATATATATATATATAT ATATATATATATATATATATA	CCTCTTTCTCATGCCCT TCA	AAGATTTTACGCGATT TACGTG	60.3	651	INTERGENIC	--	--	--
Ca1_P3_45231841	Ca1	45231841	TT/TATTGTGGCAGT	TGCTATCAATTGTGCTC CCA	TTCAATTGATCGGGGCT TAAC	60.2	619	INTERGENIC	--	--	--
Ca1_P3_45232359	Ca1	45232359	G/GGCAATAATGGA	GTTAAGCCCCGATCAA TGAA	CATCCCCCTCTTTAAC CCAT	59.9	515	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDCC 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
Ca1_P3_45238172	Ca1	45238172	T/TGACA	ATTCTTTTGGAGCGCA GAA	CCAATTAGGTTTACGG CGAA	60.0	401	INTERGENIC	--	--	--
Ca1_P3_45243775	Ca1	45243775	T/TATGCACTTCTTTTCTC	TGTGCCAAGGTTTCAG AACA	CTTTTATTGCAAGACC CCGA	60.3	605	DRR	Ca_26020	--	--
Ca1_P3_45244574	Ca1	45244574	TC/TCATAAAGCTCAC	TCGGGGTCTTGCAATA AAAG	GACAATGGGAATTCGC CTAA	60.1	532	CDS (FRAME SHIFT)	Ca_26020	--	--
Ca1_P3_45246034	Ca1	45246034	C/CGTCTTGTT	CGATTCGCTTTTAGCA TCC	CAATTGCGATATTATG GGGG	59.8	253	INTERGENIC	--	--	--
Ca1_P3_45251376	Ca1	45251376	C/CCTATGA	CTAGCTCTGGGTTTCA GTGG	ATCCGACTAGTTCGG GTTC	60.0	247	INTERGENIC	--	--	--
Ca1_P3_45253870	Ca1	45253870	TA/T	TGCCAATAAGGCAATG TGAA	TGGATTAGGAGCGTGA AAACA	60.1	478	INTERGENIC	--	--	--
Ca1_P3_45392704	Ca1	45392704	ATTT/ATTTT	GGGGGCTCTTCATTT TCTC	CACAGTTTCATCGCTC CTCA	60.0	476	INTERGENIC	--	--	--
Ca1_P3_45398138	Ca1	45398138	CATATATATATATATATATATATATAT AT/CATATATATATATATATATATAT	GTTGGTTCCTAGCAC CGTA	TTAATGCGTTGTGGGT GAAA	60.0	524	INTERGENIC	--	--	--
Ca1_P3_45443277	Ca1	45443277	GTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAGTAATAGTAATAATAATAATA ATAATAACAATAATAATAATAATAA TAATAATAGTAATAGTAATAATAAT AATAATAATAATAATAACAATAATAA	CCCACATTCATGACGT GTTC	CTTAGAGGTGGGAAC GTGA	59.8	741	INTERGENIC	--	--	--
Ca1_P3_45497100	Ca1	45497100	CTTTTTTTTT/CTTTTTTTTTTTT	AGTATAAGTGGGGCCG TGTC	TGGATTGTGCCAACCT TTCA	59.9	237	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 (°C)	Expected 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_P3_46178255	Ca1	46178255	AATTTATAATTTAT/AAT	TCAAACATGCTCTGAAT GCC	AACCAATACATAACATC ACAGTGC	59.8	570	INTERGENIC	--	--	--
Ca1_P3_4618143	Ca1	4618143	ATTTTTTTTT/ATTTTTTTTT	ATTGCTGCAACAACAC GAG	TTATCCGGTTTTGGTT GAAAA	59.9	574	INTRON	Ca_00546	A	MYB
Ca1_P3_46268212	Ca1	46268212	TA/T	AAACGCAATCCTTGAGT TCG	CATGACTTGGATTGGT CGTG	60.2	226	INTERGENIC	--	--	--
Ca1_P3_46270342	Ca1	46270342	CA/CATATA	GAAGGTCAGTCTGCTA TTCTGC	ATGTGTTGTACCTGCC GTGA	58.2	928	INTERGENIC	--	--	--
Ca1_P3_46278771	Ca1	46278771	ATGGCCTGGCCTGGCCTG/AT GGCCTGGCCTG	ACCTTCAGTCAGGGGC CTAT	AAGTCTGGTCTGGCCT GAAA	60.0	538	INTERGENIC	--	--	--
Ca1_P3_46283206	Ca1	46283206	C/CTAATTATAA	AGCTGCCATGCCTAAT GAAT	CAATGGGCTTCTTACC TGGA	59.7	425	INTERGENIC	--	--	--
Ca1_P3_46286614	Ca1	46286614	CTTTT/CTTT	CCAAGTTATGCTTGATC GCA	CGAGAACCATCCTGCA TTTT	59.8	820	INTERGENIC	--	--	--
Ca1_P3_46286661	Ca1	46286661	GTAGGGATA/GTA	CCAAGTTATGCTTGATC GCA	CGAGAACCATCCTGCA TTTT	59.8	820	INTERGENIC	--	--	--
Ca1_P3_46286821	Ca1	46286821	AAACAA/AAA	TCCCAAAAATGGCTTAG GAA	CGAGAACCATCCTGCA TTTT	59.5	502	INTERGENIC	--	--	--
Ca1_P3_46347636	Ca1	46347636	CATATATATAT/CATATATATAT	GGATTCTTACAATCTG CCCA	TTCTCCAGGATCAGGA CTGG	59.0	862	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 (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
Ca1_P3_46352138	Ca1	46352138	CACAAC/CACAACAAC	AGCGATGCATGTCTCA AGTG	TGCCCTTCTTCTTTCC TAGTG	60.0	396	INTERGENIC	--	--	--
Ca1_P3_46417421	Ca1	46417421	TGAGAGAGAGAGAGAGA/TGAGAG AGAGAGAGAGA	TCGAATGGTGTTTTAAC TCCTACA	CTGTTTGGCCTCCAC AAAT	59.9	541	INTERGENIC	--	--	--
Ca1_P3_46491737	Ca1	46491737	CAAG/CAAGAAG	GATGCATCTACCAAG GGTT	CGGTGCAAACTCTACG TTCA	59.9	420	INTERGENIC	--	--	--
Ca1_P3_4649534	Ca1	4649534	CTT/C	CTTGGACCCAACGCAT AGTT	CACTCATTATTGGTG CGTT	60.0	423	INTERGENIC	--	--	--
Ca1_P3_46515935	Ca1	46515935	TTTATTATT/TTT	TTGGTGCATTATGTCC GTGT	TCATGGATGTTTGAT GTTTG	59.8	569	INTERGENIC	--	--	--
Ca1_P3_46523548	Ca1	46523548	CAAAAAAAAAAAAAAAAA/CAAAAAAAAA AAAA	GTGGACAAACCTGCAT TCCT	ACCATGCACAGTTGCT GAGA	60.0	675	INTERGENIC	--	--	--
Ca1_P3_46524349	Ca1	46524349	TAAAAAAAA/TAAAAAAAAA	TGAAGCATGCACAAAT CCTC	TTGATGTAGCAACGGC TGAG	59.8	843	INTERGENIC	--	--	--
Ca1_P3_46526481	Ca1	46526481	CAAAAA/CAAAAAA	TTAAATTCGAGGCG AAAA	ACATGGTTGTGGTGGT GATG	59.7	698	INTERGENIC	--	--	--
Ca1_P3_46526676	Ca1	46526676	TAAAA/TAAA	TTAAATTCGAGGCG AAAA	ACATGGTTGTGGTGGT GATG	59.7	698	INTERGENIC	--	--	--
Ca1_P3_46528558	Ca1	46528558	CT/CTT	TTAAATTCCTCCTCG GCT	AACTCTGGGAACCTC CTGT	60.0	398	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
Ca1_P3_46528735	Ca1	46528735	GTGACAGCCTGACAG/GTGACAG	TTAAATTCCTCCTCG GCT	GGGAAAACATCCCGT TATT	60.0	865	INTERGENIC	--	--	--
Ca1_P3_46528763	Ca1	46528763	G/GC	TTAAATTCCTCCTCG GCT	GGGAAAACATCCCGT TATT	60.0	865	INTERGENIC	--	--	--
Ca1_P3_46530950	Ca1	46530950	CAAAATTGAAATTGAAATTC/CAAAATG AAAAAT	ATTTGAGAATGTTGCG GCAA	GTCTGCGGATAATTC GCTT	60.4	665	DRR	Ca_21551	M	--
Ca1_P3_46531041	Ca1	46531041	T/TG	GCGAAAATAATGTTGAT GCAGA	GTCTGCGGATAATTC GCTT	60.1	139	DRR	Ca_21551	M	--
Ca1_P3_46539303	Ca1	46539303	TTCAAATCTTCATCAATCTTC/TTCAA ATCTTC	TCAAGCCAATCTTCCCA AAC	TCTGATGACAAAAGGG GGAG	60.1	757	INTERGENIC	--	--	--
Ca1_P3_46539360	Ca1	46539360	CAAA/CAAAA	TCCCAAACAGCCTGAT AACC	CTGATGACAAAAGGGG GAGA	59.9	744	INTERGENIC	--	--	--
Ca1_P3_46633354	Ca1	46633354	GTATATATATATATATATAT/GTATAT ATATATATATATAT	CGACATGGCTCTGATA CCAA	TCAGACCGCCTTTACC AATC	59.7	615	INTERGENIC	--	--	--
Ca1_P3_46662012	Ca1	46662012	AAT/AATAT	GCATTTACGTCGATATT TATGAGTG	TCAGCCAAAAAGCTGA TGTG	59.1	617	INTERGENIC	--	--	--
Ca1_P3_46831943	Ca1	46831943	CTTTT/CTTT	GTGGTTGGTTTGCAAG AGGT	AACTGGGTGAGAGCCT GAGA	60.0	725	INTRON	Ca_25116	U	--
Ca1_P3_46867363	Ca1	46867363	CTTTT/CTTT	GCCCTCAGATGAGAGT CAGG	CAACCTTTTCATGCGG GTAT	59.9	836	DRR	Ca_25118	--	--

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 (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
Ca1_P3_4687490	Ca1	4687490	TAAAAAAAAA/TAAAAAAAAA	ACAACCAACTATTTTGC GGG	TGTATGTTTATGCGCA CACG	59.9	766	INTERGENIC	--	--	--
Ca1_P3_46896717	Ca1	46896717	AATATATATATATATATATA/AATATATA TATATATATATATATA	CACGATGCATTGGTGT AGGT	TCGTTCAATAACCTTTT TCTTGG	59.4	555	INTERGENIC	--	--	--
Ca1_P3_47059710	Ca1	47059710	TTTATTATTATTATTATTATTATTAT TATTATTATTA/TTTATTATTATTATTAT ATTATTATTATTATTATTATTATTAT TA	GGAGAACGTTAAGGCA GCAG	GGCAATAAGAACCAAA GGCA	60.0	642	INTERGENIC	--	--	--
Ca1_P3_47080923	Ca1	47080923	ATTTTTTTTT/ATTTTTTTTT	CCTTTGAGTTGTTAGGA CGCA	ACGTATCTCCTGGTGG GATG	60.3	417	INTERGENIC	--	--	--
Ca1_P3_47084853	Ca1	47084853	AATATATATATATATATATATATA/ AATATATATATATATATATATATA	TTTGTGTTTTCAACA GGACAA	GACCGTTTCAGTCAAA GTAAATGA	59.7	673	INTERGENIC	--	--	--
Ca1_P3_47161229	Ca1	47161229	TAGAG/TAG	TCTGCAATGAAAGCAAA CACA	AGTTTTGGCTCCCTAT CGGT	60.4	829	INTERGENIC	--	--	--
Ca1_P3_4718653	Ca1	4718653	CATAT/CAT	TTTGACACGACCAACC AAAA	TGGACACAGCAAGTTA AGCG	60.0	781	INTRON	Ca_00555	T	MYB_related
Ca1_P3_4720443	Ca1	4720443	AT/A	TCAGAGTTCATTGCAAA CGG	GGGATTCCCATTITTC ATCT	59.8	691	INTRON	Ca_00555	T	MYB_related
Ca1_P3_4720541	Ca1	4720541	ATTTTTTTTT/ATTTTTTTTT	GCTTTACAATGCACCTG TTGA	GGGATTCCCATTITTC ATCT	58.8	359	INTRON	Ca_00555	T	MYB_related
Ca1_P3_4722248	Ca1	4722248	GAAGAAA/GAA	TAACAAAGGTTTGCCT GCC	AAAGTGGAAGGCACAT TTGG	60.1	533	INTRON	Ca_00555	T	MYB_related

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
Ca1_P3_47266775	Ca1	47266775	CATACTTCGTAATAAAA/CA	GAATGGACCTATTCGTT GTGC	CAATTGCGAAACGCAAT CCTT	59.4	409	INTERGENIC	--	--	--
Ca1_P3_47321461	Ca1	47321461	AACA/AACATGCGACAAAAACACA	GGTTGGTAGAGGAATA GCGG	ATTGGGATTTTGTTCG TTGC	58.7	827	DRR	Ca_12921	--	--
Ca1_P3_47331266	Ca1	47331266	ATTTTTTT/ATTTTTTTT	TCGTTCCATATTCGGTA GCC	TCCTCCTAATGTGATT GCC	59.9	503	DRR	Ca_12920	--	--
Ca1_P3_47337298	Ca1	47337298	C/CAATATATACT	ATTGGGCATAGGAAGC ACTG	AGTTGACCACGGACCC ATAG	60.1	533	DRR	Ca_12919	--	--
Ca1_P3_47371134	Ca1	47371134	CA/CATTTTA	ATTGTTTTGGACCATGC CTT	TCCAAGCACAAACA AAGC	59.3	356	INTERGENIC	--	--	--
Ca1_P3_4742142	Ca1	4742142	TAAA/TAA	GACCGCGTAGATGTGG AACT	GGATGAGACCTCCTAC TTGCC	60.1	677	INTERGENIC	--	--	--
Ca1_P3_47572869	Ca1	47572869	TAAAAAAAAA/TAAAAAAAAA	TGTATGCATGAAGCAAT AGCAG	GCAAAAAGAGGTTTGA TCGG	59.0	407	INTERGENIC	--	--	--
Ca1_P3_47599399	Ca1	47599399	AGGGGGG/AGGGGGG	TCCTACGTATCTTCCG GTGC	ATCATCAAATCGACCTT CGC	60.1	791	INTERGENIC	--	--	--
Ca1_P3_47630703	Ca1	47630703	TAAAAAGAAAAAGAAAAAGAA/TAAAA AGAAAAAGAAAAAGAAAAAGAAA	CGTGTCGGCAAAGTA AAAT	GTATGCACGCAGTAA TTGG	60.0	517	INTERGENIC	--	--	--
Ca1_P3_47710001	Ca1	47710001	AATTATTATTATTATTATT/AATTATTAT TATTATT	CATCACATCACCTACAC GCC	TTGACGGTGGTTTTAT TTTCG	60.0	916	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 (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
Ca1_P3_47712006	Ca1	47712006	AT/ATT	CCCTCTATCCACCCAG TGAA	GATTTTCAACAATTGG GGG	59.9	501	INTERGENIC	--	--	--
Ca1_P3_47730180	Ca1	47730180	GATATATATATATATATATA/GATATATA TATATATATATATA	TGCGTATCTTAGGAAT GCGA	GGCTAGACGAGTTCGA CGAC	59.4	321	INTERGENIC	--	--	--
Ca1_P3_47771262	Ca1	47771262	TT/TTTAT	GGGTTACAAGCTGGAC CAAA	GACACGCGTCATTCT TCAA	60.0	755	INTERGENIC	--	--	--
Ca1_P3_47842080	Ca1	47842080	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTAT/GTTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTAT	TGAACAGAAACAATGG GCAA	CGATGATTTTAGAACC GATTTC	60.1	509	INTERGENIC	--	--	--
Ca1_P3_47875198	Ca1	47875198	AT/ATT	AAAAACAAGACCCGC GATA	TTCTATTGCTACCC CTTG	60.1	466	INTERGENIC	--	--	--
Ca1_P3_47913934	Ca1	47913934	CTTTA/CTTTATTTA	ATACCCAGGGACGGTT TTTC	ATGTACGTGGCTTTGC ATGA	60.1	383	DRR	Ca_12886	O	E2F/DP
Ca1_P3_47916750	Ca1	47916750	ATT/ATTTAGGTTT	GTTGGTGATGCCACTG AATG	GAGAGAAAGGCAAGTG TGGG	60.0	979	DRR	Ca_12885	O	M-type
Ca1_P3_48052485	Ca1	48052485	TCTC/TCTCCTC	AATTGGAGGGGCGATA TTTT	TGGCATGGGATCCATA ATTT	59.6	336	DRR	Ca_12870	--	--
Ca1_P3_48055075	Ca1	48055075	GTATATATATATATATATATATATAT ATATA/GTATATATATATATATATATA TATATATATATATA	TGACACTCGCATCTTTG TGA	GGCCATATCCGAAAAC ATTG	59.0	432	INTERGENIC	--	--	--
Ca1_P3_48071541	Ca1	48071541	TATAAAT/TAT	TGGTGGTGAATACTAC GGCA	GGCTCTTGAGGCACCT GTTC	60.0	651	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
Ca1_P3_48126788	Ca1	48126788	GAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAAT/GAAT AATAATAATAATAATAATAATAATA AT	TCATTGAACCTTTCTT CTTTGAA	AAAAATTGAAGGCGAA TGGA	57.4	708	INTERGENIC	--	--	--
Ca1_P3_48172069	Ca1	48172069	AAATAATAATAATAATAATAATAAT AATAATAATAATA/AAATAATAATAAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATA	TAAATGGCAGGTAAAG GCGA	AGACTTTGCTGCCACC TCAT	60.6	315	DRR	Ca_12862	R	WRKY
Ca1_P3_48185936	Ca1	48185936	GA/GAA	CCCGGCAATTGTGTTA CTCT	TAGGTCCGTGGGAGAA CAAG	60.0	735	INTRON	Ca_12861	--	--
Ca1_P3_48200764	Ca1	48200764	AT/A	TTATTTTGGTCAACAAA GTAGTATCAA	TCATTTTCTCAAGTCG GGCT	57.6	322	INTERGENIC	--	--	--
Ca1_P3_48217476	Ca1	48217476	TTCTCTCTCTCTCTCT/TTCTCTCTC TCTCTCT	CAACCAAAATTCAACGC AAA	ACATGTTAGGCTCTGG CAGG	59.6	295	DRR	Ca_12859	K	HB-other
Ca1_P3_48239496	Ca1	48239496	GGGAG/GG	TCATGTTCAATGCCGTT CTC	CAGGAAGGGCACCAA GAATA	59.7	314	CDS (large-effect mutations)	Ca_12858	--	--
Ca1_P3_48331419	Ca1	48331419	AATTATTATTATTATTATTATTATTA TTATT/AATTATTATTATTATTATTATTA TTATTATTATTATT	CATTGCGTTGTCACAAA ATCA	AAGTAAGTGGCACCA CAGG	60.6	395	INTERGENIC	--	--	--
Ca1_P3_4900100	Ca1	4900100	TATTCAAT/TATTCAATTCAAT	TCTTTGCAGCATGCTTT TTG	TTTCTGAAGCGACCAA TTCC	60.1	561	DRR	Ca_00575	--	--
Ca1_P3_4952260	Ca1	4952260	GATATATATATATATATATATATATA TATAT/GATATATATATATATATATAT ATATATATATAT	TGCACTAGACCCAGTG CTAGTTA	AGCCACAACGACGAGT TTCT	59.1	939	INTERGENIC	--	--	--
Ca1_P3_4957879	Ca1	4957879	CAAAAAAAAA/CAAAAAAAAA	TCATGACAATGCAATT CGAC	TTATTCGTGTGTGCCT TGGA	59.5	459	DRR	Ca_00586	T	WRKY

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PIL) reference genome-CDC	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_5040464	Ca1	5040464	ACC/AC	CAAAATGCTCGCAATG AGAA	GAACTCCCCATGTGGT TGAT	60.0	635	INTERGENIC	--	--	--
Ca1_P3_5106336	Ca1	5106336	CT/CTCTAT	CGAGTGATTGCTTCAT TGG	TGTTACGCATTGTTTG GGAA	59.3	651	INTERGENIC	--	--	--
Ca1_P3_5139845	Ca1	5139845	TTTCTTCTTCTTCTTCTTCTTCTTC TTCTTCTT/TTTCTTCTTCTTCTTCT TCTTCTTCTTCTT	ACGTCTGAATCGGATTT TGC	CCCAGAAGAAGATGGA GCTG	60.1	306	INTERGENIC	--	--	--
Ca1_P3_5139903	Ca1	5139903	TTTCTTCTTCTTCTTCTTCTTCTTC TTCTTCTTCTTCTTCTTCTTCTTCT TC/TTTCTTCTTCTTCTTCTTCTTCT TCTTCTTCTTCTTCTTCTTCTTCTT C	ACGTCTGAATCGGATTT TGC	CCCAGAAGAAGATGGA GCTG	60.1	306	INTERGENIC	--	--	--
Ca1_P3_5180264	Ca1	5180264	CTAATAATAATAATAATAATAATAA TAATAATAAT/CTAATAATAATAATAA ATAATAATAATAATAATAAT	ATGCATGGAGCTATAA GCCG	TTCAAAGTTGGAATAA CCCTTCTC	60.2	684	INTERGENIC	--	--	--
Ca1_P3_524043	Ca1	524043	ATTTTTTTTTT/ATTTTTTTTTT	ATTTTAGGGGATGGTG GAGG	CGAGTGTC CAATGAAA AACCA	60.0	456	INTERGENIC	--	--	--
Ca1_P3_5242725	Ca1	5242725	CATATATATATATATA/CATATATATATA TATATA	TATTTGGCATTGGTGG TTGA	ATTTTCTCGAGGCCAT GTCA	59.8	805	INTERGENIC	--	--	--
Ca1_P3_5273611	Ca1	5273611	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATATA TAT	TGCATTAATTTGAAAA CGTCAA	TGTTTGCCACGGTTGT TAAA	59.5	593	INTERGENIC	--	--	--
Ca1_P3_5275130	Ca1	5275130	AATATATATATATATATA/AATATATATA TATATATATA	CCATTCTCACCGCAAT AGT	CCAGCCTCAAATCATC CCTA	60.0	445	INTERGENIC	--	--	--
Ca1_P3_5290057	Ca1	5290057	ACC/AC	AGAAACGGTCACCTTC CCTT	CTCATTGCTTCCCAAA CCAT	60.0	811	INTRON	Ca_00616	P	--

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 (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
Ca1_P3_5347843	Ca1	5347843	TT/TTAT	ATGAGACAGCAACGAC AACG	CGCTTCTTACTTGTAC GGTCG	59.9	652	INTERGENIC	--	--	--
Ca1_P3_5349356	Ca1	5349356	ACC/AC	TGAACTAGATCATCTGC GTAAAT	GGGAAAGGGAGAGAG TACGG	57.2	660	INTERGENIC	--	--	--
Ca1_P3_5351086	Ca1	5351086	CAAA/CAA	TGTGGCAGACAGCCAA CTAA	TTTGGCAATCGAAAT TGTG	60.4	607	INTERGENIC	--	--	--
Ca1_P3_5371220	Ca1	5371220	CAAAAAAAAA/CAAAAAAAAA	TGAAATATCACACAGCC CAAA	TTTGGCAGAAAAATCA AAAAGA	59.0	474	DRR	Ca_00623	S	--
Ca1_P3_5372427	Ca1	5372427	A/ATTATT	CCAACCCTGTCCCTCTT ACA	TGATGGATCATGTGT TGTGG	60.0	381	INTERGENIC	--	--	--
Ca1_P3_5375317	Ca1	5375317	A/AAAAGTTT	TATGATGTGCTTGTGG AGCC	GCCCTAATAAGCCAAC CCAT	59.7	515	INTERGENIC	--	--	--
Ca1_P3_5390962	Ca1	5390962	CTT/CT	TGTTCAGCAGAAGCAT GTCC	GGGACCAATCAAGTG CCTA	60.0	808	INTERGENIC	--	--	--
Ca1_P3_5391770	Ca1	5391770	GAAAAAA/GAAAAAAA	TAGGCACTTGATTGGT CCC	TCAACCAACAAATCC ACCA	59.9	726	INTERGENIC	--	--	--
Ca1_P3_5393298	Ca1	5393298	ATTTTTTT/ATTTTTTTTT	AACTTCCTTGACATGGC CTC	TGATGTTGTTGGAGAT GGAAA	59.1	505	INTERGENIC	--	--	--
Ca1_P3_5393351	Ca1	5393351	ATTTTTTT/ATTTTTTTTT	AACTTCCTTGACATGGC CTC	TGATGTTGTTGGAGAT GGAAA	59.1	505	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 (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
Ca1_P3_5412267	Ca1	5412267	TAAAAAA/TAAAAA	ACCGAGTTGTCCTACC TGGA	CTTAGCCGGAGTCCAA CATC	59.6	896	INTERGENIC	--	--	--
Ca1_P3_5418395	Ca1	5418395	GTTTTTTTTTTT/GTTTTTTTTT	GGGGCCATAGTGAGTT GAAA	TCAGCCAAAAGATGAC CAAA	59.9	215	INTERGENIC	--	--	--
Ca1_P3_5421386	Ca1	5421386	AA/AAATA	GCTGGGTTTCAGGTT GAGA	CAGGGTGGCTCTTGCT AAAC	60.2	579	INTERGENIC	--	--	--
Ca1_P3_5422480	Ca1	5422480	TCA/T	TCCAACGAATAATTTTA GTCCCTC	TGGTTTTACTCATCG CACA	59.8	455	INTERGENIC	--	--	--
Ca1_P3_5422837	Ca1	5422837	GTATAATGTT/GTATAATGTTATAATGT T	TGTGCGATGAGTAAAA ACCA	GGGAATACAAAACTA CCCCG	57.8	497	INTERGENIC	--	--	--
Ca1_P3_5423457	Ca1	5423457	CAGAGA/CAGA	CGGGGTAGTTTTTGT TTCCC	GGTGACGCCTTTTAAT TTGC	59.6	640	INTERGENIC	--	--	--
Ca1_P3_5425431	Ca1	5425431	TAA/TAAGAA	TGCCTTGCTTATTGGG ATTT	TCCCGAACCTGTGAGG TTAT	59.5	457	INTERGENIC	--	--	--
Ca1_P3_5427164	Ca1	5427164	ACTC/ACTCTC	CAAAACACGAGACAAA GCCA	GCGATGGGATGGAGTT AGAA	59.9	535	INTERGENIC	--	--	--
Ca1_P3_5428791	Ca1	5428791	TTATTATAT/TTAT	TTAATGGGTAGGTGGG TGGA	TTTTAGCGGTGTCAC TGAG	60.0	839	INTERGENIC	--	--	--
Ca1_P3_5429701	Ca1	5429701	TT/TTTAAAAAT	CTCAGTGACACCGCTG AAAA	AGGTATGTCCACGCAC AACA	60.0	653	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
Ca1_P3_5433441	Ca1	5433441	TC/T	TCGGGATTGTGTTGTT ACCA	GGGCCCTATGCCTTT TATG	60.2	511	INTERGENIC	--	--	--
Ca1_P3_5436359	Ca1	5436359	CTTATTATTATTATTA/CTTATTATTATT A	AGATGGGATCGAATGA ATGG	ACCCCCGCACACTCAT TAT	59.7	375	INTERGENIC	--	--	--
Ca1_P3_5446706	Ca1	5446706	GTTTT/GTTTTTTT	TGACGCAGTCTCATAG TCGG	GCAATTGTCAAGCACC ATGT	60.0	336	DRR	Ca_00630	--	--
Ca1_P3_5455204	Ca1	5455204	TTGTT/TTGTTAATGTT	TGGTTGAACTGGGACC ATTA	GGCATCAACAACAGCA AGAA	58.8	300	INTERGENIC	--	--	--
Ca1_P3_5460761	Ca1	5460761	ATTTTTTTTT/ATTTTTTTTT	TTTTTGACGAGTTGCC ATTT	CCATGTGAATTGCACA CCAT	57.4	456	INTERGENIC	--	--	--
Ca1_P3_5470320	Ca1	5470320	AAGGAGGAG/AAGGAG	TTGCTGACGAGTTTCAT TCG	TGATAATATCCTCGGG GCTG	60.0	588	INTRON	Ca_00632	O	--
Ca1_P3_5482656	Ca1	5482656	A/AATTTATT	TCTCATCCCAACACAAA CACA	GATTGTGCTGCCACTCC TCTT	60.0	650	DRR	Ca_00633	--	S1Fa-like
Ca1_P3_5484846	Ca1	5484846	CTTT/CTTTT	CGCGCGTTGTGTTTAT AAGT	TTACCAAGATTGCCCC TCTG	58.9	444	INTERGENIC	--	--	--
Ca1_P3_5484865	Ca1	5484865	ATTTTTTT/ATTTTTTT	CGCGCGTTGTGTTTAT AAGT	TTACCAAGATTGCCCC TCTG	58.9	444	INTERGENIC	--	--	--
Ca1_P3_5500587	Ca1	5500587	TAAAAA/TAAAAAA	CACTCACTCACACACAC ATGC	TTTCTCATCGATTCCCT TCC	58.7	677	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 (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
Ca1_P3_5501358	Ca1	5501358	CAA/CA	TTTCCCCCAACCAATGA ATA	CTTGCTTTGTGCCATG AAGA	60.0	523	INTERGENIC	--	--	--
Ca1_P3_5510732	Ca1	5510732	ACTTTCCTTCTTTCT/ACTTTCCTTCT	TTTTTGGAGCCTCAGAA TGG	ACACAGCCCACCCAAA ATAA	60.2	659	INTRON	Ca_00636	--	FAR1
Ca1_P3_5513383	Ca1	5513383	GAAA/GAA	TTTCCAACATGCGTCTC TCA	CATTGTGTGCCTTGCA GTTT	60.4	610	INTRON	Ca_00636	--	FAR1
Ca1_P3_5640191	Ca1	5640191	CTCTGAGTCTGAGTCTGAGTCTGAGT CTG/CTCTGAGTCTGAGTCTGAGTCTG AGTCTGAGTCTG	TCTCGAAGCAACACTC ATGG	ATGCCGGAGGTCTAAG GTTT	60.0	661	CDS (large-effect mutations)	Ca_00652	V	--
Ca1_P3_5664340	Ca1	5664340	ATTTTTTT/ATTTTTTTT	TGGAAACTAATCTGTT CGAGG	GTGCTTGCATGTGAAG GAGA	58.4	507	DRR	Ca_00656	--	WRKY
Ca1_P3_5670926	Ca1	5670926	GTATATATATATATATATATA/GTATA TATATATATATATATATATA	CGCAACGACAAGAAAT TCAA	TGCATGTTCTTACGCT CGTC	59.8	716	INTERGENIC	--	--	--
Ca1_P3_5754591	Ca1	5754591	CATA/CA	AACCTCCAGATCCTCG AACA	CTCCACAAAGAAAAGG GCAA	59.7	344	DRR	Ca_00667	J	TALE
Ca1_P3_5803481	Ca1	5803481	TTAAGATAAGAT/TTAAGAT	GCTCATGAGTTCCTTA CCCA	GTCAGGGGCTCGTGTA TGAT	60.1	560	INTRON	Ca_00671	O	FAR1
Ca1_P3_5804081	Ca1	5804081	AT/ATT	AATAACCGGGCACAA GAGG	AGGTCCACCAGGTTTG TCAG	60.0	457	INTRON	Ca_00671	O	FAR1
Ca1_P3_5804105	Ca1	5804105	AG/A	AATAACCGGGCACAA GAGG	AGGTCCACCAGGTTTG TCAG	60.0	457	INTRON	Ca_00671	O	FAR1

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 (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
Ca1_P3_582587	Ca1	582587	TAAA/TAAA	TGCGCTAGTTTGTGGA TGTC	GACAAACAGGAAGGG CAAA	59.9	614	DRR	Ca_00065	A	--
Ca1_P3_5952722	Ca1	5952722	TTATATATATATATATATATATAT/TT ATATATATATATATATATATAT	TTCCACACACACAAAA TCC	GTGGTGGCGCCTTATG TAAC	59.2	756	INTERGENIC	--	--	--
Ca1_P3_5998961	Ca1	5998961	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TA/TATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA	ATAGCGCACCGTCTCT CTGT	ATTTTGTGGCAGATGA AGTCT	60.0	872	DRR	Ca_00687	--	--
Ca1_P3_6129000	Ca1	6129000	CTTTT/CTTT	CGTCATGTATCTTGGT GGA	TGTTAACACATTAAAC TGACCCA	59.5	556	INTERGENIC	--	--	--
Ca1_P3_6130817	Ca1	6130817	TAAA/TAA	GAACATCACAGACCCA CACG	TCCTCTTCCACAAACC ATCC	60.0	670	DRR	Ca_00698	--	--
Ca1_P3_6135478	Ca1	6135478	TAAA/TAAA	TAGCACATCCTCCCT CAAC	TGGATAACCAAAGGTG GCTC	60.1	313	INTERGENIC	--	--	--
Ca1_P3_6135753	Ca1	6135753	CTTTT/CTTT	AACACTTGAGCCACCTT TGG	CCCACTTTGAGTAAAC CACGA	60.1	370	INTERGENIC	--	--	--
Ca1_P3_6138299	Ca1	6138299	AT/ATT	GGCACGATGTTCTTGA TTTTT	CCGATTGTTGATCGAG GTTT	59.1	846	INTERGENIC	--	--	--
Ca1_P3_6141472	Ca1	6141472	CTTT/CTT	AGCAATTCTTCCATCCC ACA	ACATTGTGTGGAACAA GGCA	60.5	157	INTERGENIC	--	--	--
Ca1_P3_6148078	Ca1	6148078	CAA/CA	TTGCTATTCCCTTTCCC CTT	CTCTCATCTCTGGCCT TTGG	59.9	558	DRR	Ca_00699	S	--

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 (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
Ca1_P3_6150658	Ca1	6150658	GAAAAAAAAAAAAAAAAA/GAAAAAAAAA AAAAAAA	CGCTCATAGACCTGATT GACC	TGAAGTTCGCAACGAA TCAG	59.7	419	INTERGENIC	--	--	--
Ca1_P3_6156071	Ca1	6156071	AACACAC/AACAC	TTCGTGAAAGCTTCGG TCTT	TTTAACCGCTGGTTTTA CCG	60.0	315	DRR	Ca_00700	G	--
Ca1_P3_6156406	Ca1	6156406	TTA/TTATA	TTGGCAAAATGCGATA ACA	TCCATCAAACCAATG AACA	60.1	847	DRR	Ca_00700	G	--
Ca1_P3_6158170	Ca1	6158170	ATTTT/ATTT	TGGTTTGCATTCGG TCAT	ATGTCTCATTCATGCT CCCC	61.2	359	INTERGENIC	--	--	--
Ca1_P3_6158400	Ca1	6158400	TAAAA/TAAAAA	GGGGAGCATGAATGAG ACAT	AAACCGCGACAATTTA ATCTC	59.9	387	INTERGENIC	--	--	--
Ca1_P3_6166149	Ca1	6166149	TCACAC/TCAC	AACGTGACACATTGCG ACTC	CTTTGGTTCCAACGTA TAGTTTTT	59.8	862	INTERGENIC	--	--	--
Ca1_P3_6175294	Ca1	6175294	GTTTT/GTTT	CCTTAACTGGGTACAG TGCT	CGATCTCATGCCACAA CTTT	60.2	521	INTERGENIC	--	--	--
Ca1_P3_6177278	Ca1	6177278	TAAAAA/TAAAAA	CCAAACTTTGTTTTAAA ATACATCAGA	CTTTGGCATTCTCATT TTCT	59.1	866	INTERGENIC	--	--	--
Ca1_P3_6202765	Ca1	6202765	T/TATA	CGCTTCCTTCTTCACAC ACA	CTCGTGTCTCAAACT CAAGGA	60.0	877	INTERGENIC	--	--	--
Ca1_P3_6203281	Ca1	6203281	GTTTTTTTTT/GTTTTTTTTT	CTCCTTGAGTTTTGAGA CACGA	TCGATTATGCGTAGGG AAGG	59.5	453	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
Ca1_P3_6204822	Ca1	6204822	AAGA/AA	TGGTTTGGTTGCATCA CTTT	TCGAAATTTGTGTTCC AAAAGA	59.0	543	DRR	Ca_07880	T	--
Ca1_P3_6205233	Ca1	6205233	CAAAAAAAAA/CAAAAAAAAA	GGGTATTGGATAAAAT TTCAAAAA	TGAAATTAAGGGACG GGTTT	58.7	604	DRR	Ca_07880	T	--
Ca1_P3_6206056	Ca1	6206056	ACCCC/ACCCCC	TGTGCTCCAATCATGG ATGT	CGCACTGGTTGAAAGC ATAA	59.9	323	CDS (FRAME SHIFT)	Ca_07880	T	--
Ca1_P3_6206345	Ca1	6206345	CATATATATATA/CATATATATATATA	TGTGCTCCAATCATGG ATGT	CGAACAAAAGGAGAAT CTGACA	59.9	380	INTERGENIC	--	--	--
Ca1_P3_6206568	Ca1	6206568	CTTTTT/CTTTTTTTT	TTATGCTTTCAACCACT GCG	TGTCGGATAAGTGTGA TATATTCG	59.9	747	INTERGENIC	--	--	--
Ca1_P3_6212978	Ca1	6212978	AATATATATATAT/AATATATATATATAT	GTGCGCAGTACAATTC TCCA	CAACCGCTCCCAAATA GAAA	59.9	573	INTERGENIC	--	--	--
Ca1_P3_6214084	Ca1	6214084	TAAACTAATTTTTTAATTGAACTA/TAA ACTAATTTTTTAATTGAACTAATTTTT TAATTGAACTA	TGTCACCGTTATACGA GTTTTAGA	TTGGCGTAGTGAAACG AACA	58.0	618	INTERGENIC	--	--	--
Ca1_P3_6259182	Ca1	6259182	AATGGTCATGGTCATGGTCA/AATGGT CATGGTCA	TGATGATTTTGCTCTTC CCC	GTCCACTCCACCGATC AACT	60.0	575	INTRON	Ca_07885	R	bHLH
Ca1_P3_6267078	Ca1	6267078	GAAA/GA	TTTCTTGCACTGGTTTG TGC	TGGTGCCCTCATTGTA CTCC	59.9	560	INTERGENIC	--	--	--
Ca1_P3_6268966	Ca1	6268966	GAAAAA/GAAAAA	ATGACTGCGTGCTGAG TTGA	TTCTTTTCCAAACCACC AAA	60.6	634	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 (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
Ca1_P3_6277414	Ca1	6277414	ATT/ATTT	TACTCCCATCCATGCAATCA	CCAATATGGAGTCCACGTCA	59.9	491	DRR	Ca_07888	--	--
Ca1_P3_6279828	Ca1	6279828	CTTTTT/CTTTTT	ATCCGACGGTAACAGAAACG	CTGACCGACAACACTCCAAA	60.0	620	INTERGENIC	--	--	--
Ca1_P3_6284717	Ca1	6284717	ATTTTTTTTT/ATTTTTTTTT	TACCTGCCGATTCTCATTC	CTTGCAAGGTTTGTGATGT	60.0	543	DRR	Ca_07889	--	--
Ca1_P3_6291176	Ca1	6291176	A/AG	CAGTGGCTTCTCATTGGGT	TCCTTTCCTATTCTCTCCAACA	60.1	553	INTERGENIC	--	--	--
Ca1_P3_6291858	Ca1	6291858	G/GGA	GTGCTATCAAATTTGCGGA	ACTTATTGGGGAGTCTGGGG	58.8	429	INTERGENIC	--	--	--
Ca1_P3_6292164	Ca1	6292164	TT/TTGGATCCT	CAAGTGCATTGGTCCATTG	TTAGTGTGTGGGGAGGAGC	60.0	368	INTERGENIC	--	--	--
Ca1_P3_6293340	Ca1	6293340	TGATCGAT/TGAT	CATGCATTCCAATCTCACCA	GCTCTGCTTTGTATTTCCTCA	60.5	471	INTERGENIC	--	--	--
Ca1_P3_6293614	Ca1	6293614	GATTAT/GAT	CATGCATTCCAATCTCACCA	TATCTTTTGGTGGGCAAG	60.5	786	INTERGENIC	--	--	--
Ca1_P3_6293780	Ca1	6293780	TAAA/TAAAA	ACACACTGATCGATGATCCC	TATCTTTTGGTGGGCAAG	58.3	716	INTERGENIC	--	--	--
Ca1_P3_6294872	Ca1	6294872	T/TC	AGTTTCCACGTTACATCCC	ATGGTGGTTTTAGAGCCCC	59.8	904	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 (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
Ca1_P3_6298179	Ca1	6298179	ATTTT/ATTTT	AACCAAGTTGGGAAG GTTT	ATCGACAGAAGGCAGA CTGG	59.7	421	DRR	Ca_07890	--	--
Ca1_P3_6298845	Ca1	6298845	T/TG	GAGGCAAAATTGGCTC TTGT	TAATTGACGACGACGA CGAG	59.3	124	DRR	Ca_07890	--	--
Ca1_P3_6298941	Ca1	6298941	GTT/GTATTT	CTCGTCGTCGTCGTC ATTA	TTCAATGACATGATTG GAGACTTT	59.9	110	DRR	Ca_07890	--	--
Ca1_P3_6299112	Ca1	6299112	TGTGCATCTCATAAG/TG	CTCGTCGTCGTCGTC ATTA	TGAAAGCTCATTTTTC GTATGTTG	59.9	439	DRR	Ca_07890	--	--
Ca1_P3_6299712	Ca1	6299712	T/TGTTG	CAACATACGAAAAATGA GCTTTCA	GTGACATCAAGCCGGA TTCT	60.5	895	DRR	Ca_07890	--	--
Ca1_P3_6299741	Ca1	6299741	GTT/GT	CAACATACGAAAAATGA GCTTTCA	GTGACATCAAGCCGGA TTCT	60.5	895	DRR	Ca_07890	--	--
Ca1_P3_6300049	Ca1	6300049	TAAAA/TAAAA	GTCCGAAAATTCATTCA TTAAAA	GTGACATCAAGCCGGA TTCT	57.3	544	INTERGENIC	--	--	--
Ca1_P3_6307314	Ca1	6307314	GTATAT/GTATATATAT	TGTGAAGTCATCCATG GTCAA	TTGACAGCATCTTGTT CTCC	60.0	593	INTERGENIC	--	--	--
Ca1_P3_6310776	Ca1	6310776	TAA/TAAA	CATTGTGGCACTGAAC GACT	CCGGGTAGAATACCGT GTTG	59.8	780	INTERGENIC	--	--	--
Ca1_P3_6311738	Ca1	6311738	ATAGT/AT	TTTTGTGACTGTTGAC TGCAAT	TTTCCCTCATCGTTT GTC	58.3	275	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 (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
Ca1_P3_6312511	Ca1	6312511	ATTTTTTTTT/ATTTTTTTT	TGTGATTCGGGATCA AATCT	TCCCTTAATTTCAATTG CGG	59.4	291	INTERGENIC	--	--	--
Ca1_P3_6317540	Ca1	6317540	TTG/T	ACAGGGCGATGACAAG AAAG	AAGATCCCCCATGGAA ACTC	60.3	364	INTRON	Ca_07892	B	MYB_related
Ca1_P3_6328156	Ca1	6328156	TCAATGTTAATAC/T	TGGATCCACCATTTCCA TTT	ACTGGTGGTGGGATTG ATGT	60.0	763	DRR	Ca_07893	--	--
Ca1_P3_6332779	Ca1	6332779	CT/CTT	TTTTTCTGCCTGTTCTG CCT	TCATGATCGCGAAGTT GAAA	60.0	746	INTRON	Ca_07893	--	--
Ca1_P3_6336949	Ca1	6336949	TAA/TA	TGAGAAACGCGAAAAC AATTT	TGGGCCGAATTATTTA TCCA	59.8	345	INTERGENIC	--	--	--
Ca1_P3_6337132	Ca1	6337132	AAA/AAATAA	TCGGCCACATTATTGT TTT	ATAAATCCACAAGTG CCCA	60.2	258	INTERGENIC	--	--	--
Ca1_P3_6354181	Ca1	6354181	TAA/TAATGGGAAA	TGGTGGAAGCAAATAA AGGC	TAAGTGGCAGATGGGG AAAG	60.1	330	INTERGENIC	--	--	--
Ca1_P3_6354364	Ca1	6354364	ACAACAAATCAA/ACAACAAATCAACAA ATCAA	CTTTCCCATCTGCCAC TTA	TTCCCTCTCTTGACAC ATTC	60.1	373	INTERGENIC	--	--	--
Ca1_P3_6362169	Ca1	6362169	ACTAGCTA/ACTA	CTGCCACTGCAGACAC TGTT	CCAAGTTCCATACCAC CACC	60.1	232	INTRON	Ca_07898	--	--
Ca1_P3_6362466	Ca1	6362466	TAAAAA/TAAAAA	GGTATGGAAC TTGGGG TG TG	AGAAACATGCGCTCCA AACT	60.1	370	INTRON	Ca_07898	--	--

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
Ca1_P3_6363555	Ca1	6363555	CAA/CAA	GTTTCGGTTTGACGGA AGTC	CGTGCCATATGACCCT CTTT	59.6	806	INTERGENIC	--	--	--
Ca1_P3_6369470	Ca1	6369470	G/GA	TCAAAATTTTCGAACAA AACCC	ATTGCATATGCGGTCC CTTA	60.2	392	INTERGENIC	--	--	--
Ca1_P3_6370146	Ca1	6370146	CTT/C	GGAGAGATTGGGGGCA TATT	AGTTTGTGTGCTTG CTGG	60.1	323	INTERGENIC	--	--	--
Ca1_P3_6370396	Ca1	6370396	TAATAA/TA	GGAGAGATTGGGGGCA TATT	CCTTAGCTTGGGCCA TTTT	60.1	691	INTERGENIC	--	--	--
Ca1_P3_6374117	Ca1	6374117	CAA/CA	TGCCATTCAAAAATAAG GCA	TCCATCTTGGACCAAT CTCA	59.1	792	INTERGENIC	--	--	--
Ca1_P3_6374330	Ca1	6374330	AAAGAAGAAGAAGAA/AAAGAAGAAGA A	CAAAATGATGGACACC CTTG	TCCATCTTGGACCAAT CTCA	58.8	291	INTERGENIC	--	--	--
Ca1_P3_6374648	Ca1	6374648	ACTTCTT/ACTT	CAAAATGATGGACACC CTTG	CCAAACAAACCCCTTA AGTGAA	58.8	658	INTERGENIC	--	--	--
Ca1_P3_6376706	Ca1	6376706	TTGGATAAATTGTGGATAAATTGTG/TT GGATAAATTGTG	GCTCGTCCAAATATTTA CGCA	CCCAGCAGTGAAGCAA ACTT	60.1	379	INTERGENIC	--	--	--
Ca1_P3_6383346	Ca1	6383346	TAAGATAAAAGATAA/TAAGATAA	TACCGACATCGTTGTT CCA	TTGACAACGAATGAAG CAGC	60.0	600	DRR	Ca_07899	--	--
Ca1_P3_6384180	Ca1	6384180	TTATAT/TTAT	TAGGCTCAAAATCCACAA CCC	TTGGAATAAAACATGTA AAAACCTCG	59.9	380	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 (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
Ca1_P3_6389745	Ca1	6389745	GTTT/GTT	TTTGTGGAACTGGAC CACA	TCCATTACCTCCAAGC CAAG	60.0	233	DRR	Ca_07902	R	AP2
Ca1_P3_6403212	Ca1	6403212	AA/AATAATA	TCACGCACGTTAACTT CCA	TGCACCGACCTACACA CATT	60.3	501	INTERGENIC	--	--	--
Ca1_P3_6406443	Ca1	6406443	TAAAA/TAAAAA	TCATTTTGTCACCTGCT CCA	TGCAAAACGTTGTGAT CAAT	60.2	158	DRR	Ca_07904	--	--
Ca1_P3_6413936	Ca1	6413936	ATTTTTT/ATTTTTTT	GGTGGCTTATGACATG CTGA	GCTTTTGCAACTTTCCT TGC	59.7	567	INTRON	Ca_07905	P	MIKC
Ca1_P3_6415075	Ca1	6415075	GTAATAATAATAATAAT/GTAATAAT AATAATAATAATAAT	TCCCTCCTTTCTCCTT TGT	CCCTCGTTACATGTGC CTTT	60.0	971	INTRON	Ca_07905	P	MIKC
Ca1_P3_6425270	Ca1	6425270	GTT/GTTT	TCTTCTCTGGCAACCG TTCT	AGCCACCGTTGATGAA AATC	60.0	479	INTERGENIC	--	--	--
Ca1_P3_6425437	Ca1	6425437	G/GTTT	GATTTTCATCAACGGTG GCT	CGGTTACATGTTGGAT GGTG	59.9	113	INTERGENIC	--	--	--
Ca1_P3_6425687	Ca1	6425687	GAATGAAT/GAATGAATTTAATGAAT	GATTTTCATCAACGGTG GCT	TGGCTTGGATTTGGGA ATTA	59.9	795	INTERGENIC	--	--	--
Ca1_P3_6426698	Ca1	6426698	T/TA	TTTCTTCTCACCATCC GCT	GGGTGTCATAGCCCA AAGA	59.8	699	INTERGENIC	--	--	--
Ca1_P3_6436385	Ca1	6436385	GTACTGTTTTACTTGT/GTACTTGT	ATCCAACTCCCTTCTT GCC	TCGAAAGGAGGCAAAA TCAA	60.4	409	INTRON	Ca_07907	T	C3H

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
Ca1_P3_6436872	Ca1	6436872	GAAAAA/GAAAAAA	AAAATCAATTTTCACCG CCA	AAAATTGCAGGGCTTT TTCC	60.3	295	INTRON	Ca_07907	T	C3H
Ca1_P3_6446871	Ca1	6446871	ATTTTTTT/ATTTTTT	CTAAACAACATGGTGG CACG	TTGGTCCTTACACCTT CACA	60.0	771	INTERGENIC	--	--	--
Ca1_P3_6452850	Ca1	6452850	ATT/ATTT	GGAGCCCAACCAAGT CATA	GACTGGGACTTCTGGG ACAA	59.9	714	INTERGENIC	--	--	--
Ca1_P3_6453816	Ca1	6453816	AT/ATT	GGTCTTGCTGACCTTG AAGC	CACGTTAAATCTCTAA CGATGAA	60.0	644	DRR	Ca_07909	--	Trihelix
Ca1_P3_6462386	Ca1	6462386	TG/TGG	GATCCGCGCAATACT AAGA	ATAAGCTTTGTACGC ATCACTT	60.3	362	INTERGENIC	--	--	--
Ca1_P3_6463116	Ca1	6463116	TAAAAA/TAAAAAA	AACCATGAGGTCATAA CGCC	TCATAACAAATGCTTT CTTCAACA	59.8	332	INTERGENIC	--	--	--
Ca1_P3_6464875	Ca1	6464875	AT/A	CACATCCAATTGTGAAT CCG	CAGAACATTGGCAACA GTGC	59.8	631	INTERGENIC	--	--	--
Ca1_P3_6468779	Ca1	6468779	TAAA/TAA	GAAGGGGTCTCTCAA CACA	TTTGGGTCAATCGATT TGGT	60.1	690	INTRON	Ca_07910	S	--
Ca1_P3_6470423	Ca1	6470423	AAA/AAAGAA	CGCAATGATTTCGAGA AAGA	ATCGAATCCGAATTA GCCT	59.0	217	INTRON	Ca_07910	S	--
Ca1_P3_6471650	Ca1	6471650	ACGT/A	GAGTTGAAGGTTGGGG ATGA	CGATGGTTCACTTGAA CGTTAT	59.9	735	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
Ca1_P3_6475844	Ca1	6475844	C/CA	TGAGGACTGAACGTAA CCCA	ATCAGGGAACCCCTAA AAGC	59.1	603	INTERGENIC	--	--	--
Ca1_P3_6476072	Ca1	6476072	GAAT/GAATTAAT	CAATTCAAACCCCTTC CTT	AAATGATGCTCAAGCG ACAA	60.2	623	INTERGENIC	--	--	--
Ca1_P3_6480157	Ca1	6480157	ATTTT/ATTTT	AAGCGGCAGCATGTCT TACT	AACCAAGGAAGCAAAA AGCA	60.0	643	INTRON	Ca_07911	D	B3
Ca1_P3_6481070	Ca1	6481070	TA/T	TTTCACCCCACTTAAG CCC	AATGGGATTGTGGGAT CGTA	60.0	433	INTRON	Ca_07911	D	B3
Ca1_P3_6488951	Ca1	6488951	ATTTTTT/ATTTTTT	AATGCATCTTGGGCTG AAAC	TGGCATGAGAATTCTG GACA	60.1	363	INTRON	Ca_07911	D	B3
Ca1_P3_6493108	Ca1	6493108	ATTT/ATT	TGCAGAATTGCAGCAC CTAC	GAAGACCGCCATGTTG AGTT	60.0	695	DRR	Ca_07911	D	B3
Ca1_P3_6512969	Ca1	6512969	TAAAAAAAAA/TAAAAAAAAA	GTTGGTGATGGCTGAT TCCT	TGTCTGTGCTTCTAT GGTGGG	59.9	762	DRR	Ca_07914	R	G2-like
Ca1_P3_6514272	Ca1	6514272	CTGTGT/CTGT	GAATTGTACGCAGGAC GGTT	AAGTTGGATCAACCCA ATTAGA	60.0	533	DRR	Ca_07914	R	G2-like
Ca1_P3_6515179	Ca1	6515179	CAT/CATAT	ACCGAAATGTGGTGCA CTTA	CAACCGTCTCAGCCTT CTTC	59.1	460	INTERGENIC	--	--	--
Ca1_P3_6516147	Ca1	6516147	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT	CTATTAAGCGCGCACA CAAA	CAGCATGCCAACCAAC ATAG	60.0	530	INTRON	Ca_07915	--	--

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
Ca1_P3_6518494	Ca1	6518494	TAAAAAAAA/TAAAAAAAAA	TGGTTCGACCAACACA AATG	GAGCTTGTGCTTTCCC AATC	60.4	709	DRR	Ca_07915	--	--
Ca1_P3_6518769	Ca1	6518769	CA/CATA	TGACTCGTTTCAACTCA CTCAA	TTTAGATAAACACGG CGGG	58.6	579	DRR	Ca_07915	--	--
Ca1_P3_6527452	Ca1	6527452	AA/AAATAGA	CAAGATTCAATTCTCCC CCA	TTGAATCAAACGAATA CCACAA	59.9	683	INTERGENIC	--	--	--
Ca1_P3_6527529	Ca1	6527529	TTAT/TTATAT	CAAGATTCAATTCTCCC CCA	TTGAATCAAACGAATA CCACAA	59.9	683	INTERGENIC	--	--	--
Ca1_P3_6532709	Ca1	6532709	T/TG	GGGGTGTCAAGATGTT GGTT	TTTTTGGCTCCTACCA CCAC	59.7	894	INTERGENIC	--	--	--
Ca1_P3_6532843	Ca1	6532843	CAAA/CAAAA	CAGCACCGATATTGATA AGCA	TTTTTGGCTCCTACCA CCAC	58.8	396	INTERGENIC	--	--	--
Ca1_P3_6534234	Ca1	6534234	TATAAATAAA/TATAAA	AAATTTGAGGGGCACA ACTG	TACAACTTTCTGGGC CGAC	60.0	669	INTERGENIC	--	--	--
Ca1_P3_6534439	Ca1	6534439	CA/CAA	AAATTTGAGGGGCACA ACTG	TACAACTTTCTGGGC CGAC	60.0	669	INTERGENIC	--	--	--
Ca1_P3_6534633	Ca1	6534633	A/AC	TTACTGGGCCACGTTT ACAA	TGGTTCAAAGGAAAA GCAT	59.1	328	INTERGENIC	--	--	--
Ca1_P3_6537729	Ca1	6537729	A/ACTACTAAATTGAAG	TTTGCTCAAAGGACC AATC	TCACTTGGTCTTTCGG AACC	60.1	457	INTRON	Ca_07918	--	--

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
Ca1_P3_6538753	Ca1	6538753	AT/ATT	CAAGGAAAGGAATGG CATA	AATTGAAGGCTGAAAC GTGG	59.9	787	DRR	Ca_07919	R	bZIP
Ca1_P3_6546764	Ca1	6546764	TCCCC/TCCC	TGGGACATGGCATCTC ATAA	ATTCCAAACCACCGCT ATTG	59.9	265	INTERGENIC	--	--	--
Ca1_P3_6546870	Ca1	6546870	TAAAAA/TAAAA	TGGGACATGGCATCTC ATAA	TTGGAGGGGACATGTT TGAT	59.9	753	INTERGENIC	--	--	--
Ca1_P3_6550647	Ca1	6550647	ATTTTT/ATTTTTTT	ATGTGAGTCTTGGGCC ACTC	CTGTAGCCATGCCAA AACA	60.1	392	DRR	Ca_07920	P	MYB_related
Ca1_P3_6739259	Ca1	6739259	TTTAATGTTTGTTAATGTTTGTTAA/TTT AATGTTTGTTAA	TTGGTGTGGAAGTGG GAAA	GATCACGTGTGAATTG GGAA	60.0	704	INTRON	Ca_07938	--	G2-like
Ca1_P3_6806099	Ca1	6806099	CA/C	TCATGCCTTCAAATTCC ACA	ATGCGTGCCTTCAAAAC TCAA	60.0	970	DRR	Ca_07947	S	--
Ca1_P3_6972063	Ca1	6972063	CTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTAT/CTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTAT	GTTTTCGTCTCTCCTC CCC	CCGGTGCAATTTAACC TTGT	60.1	578	INTERGENIC	--	--	--
Ca1_P3_6999458	Ca1	6999458	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT	AACAACGGCTTTCATTG ACTTT	TTTTCTGAAACAGG CAGT	60.0	795	INTERGENIC	--	--	--
Ca1_P3_7215414	Ca1	7215414	AA/AACA	AACCCCAACTACAAG GTCC	CAATTTGACAAGCCCC CTAA	60.1	639	INTERGENIC	--	--	--
Ca1_P3_7274145	Ca1	7274145	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATA	TGAATGAACTTTATCC TGCCA	CAGCGTGAACGACTTC AAAA	59.6	539	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 (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
Ca1_P3_7382853	Ca1	7382853	GAAAAA/GAAAAAA	TCTCATTTGTACGGAAG GGAA	AACGAGGGCTCCTTAT GTGA	59.6	646	INTERGENIC	--	--	--
Ca1_P3_7404769	Ca1	7404769	TGG/TG	CCCCGACTCAACATCTT CAT	GTTTCTCCAGCTCGT GAGG	59.9	688	DRR	Ca_07993	--	--
Ca1_P3_7590751	Ca1	7590751	AG/A	TTCGCTTCCTTCGCTAT TGT	GACCCATCTTTCTGCT CCAA	60.0	344	CDS (FRAME SHIFT)	Ca_08013	--	HD-ZIP
Ca1_P3_7630412	Ca1	7630412	G/GACAAAA	TCGTTGCGAAGATAGT GTGG	AGCATGAGTTGCACAA GTGG	59.9	768	CDS (large-effect mutations)	Ca_08016	--	HD-ZIP
Ca1_P3_7634633	Ca1	7634633	ATTTTTTT/ATTTTTTTTT	TCCAGCACAAATACCTT TTTACC	TGAATCGCGTTGTTT GTGT	59.4	666	INTERGENIC	--	--	--
Ca1_P3_7636063	Ca1	7636063	GATTTATTTATTT/GATTTATTT	CCGGGAAACTTGGTTT AACA	CTGCCCATTTACCTCC TTGA	59.8	370	INTERGENIC	--	--	--
Ca1_P3_7642434	Ca1	7642434	TA/TAA	TGCCACACAAAAATCTT GGA	TAACCTACGCTTGTGG GGTC	60.1	219	INTERGENIC	--	--	--
Ca1_P3_7648137	Ca1	7648137	GAAAA/GAAAAA	TGTTGCCTGCTATGTG AAGC	AGATGCCTTAATGCAA TGCC	60.0	778	INTRON	Ca_08018	--	bZIP
Ca1_P3_7649138	Ca1	7649138	GTGA/GTGAAATTTTTTGTGA	ACCCAGCACTTCCATT GTC	GCCTATTCACCCCT ACAT	60.0	642	DRR	Ca_08019	Z	--
Ca1_P3_7653498	Ca1	7653498	TAAAAAAAAAAAA/TAAAAAAAAA	AGTGTGAGGGCATTT TTGG	TGAGTCCAAAAGCATA AATGAGA	60.0	573	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
Ca1_P3_7659682	Ca1	7659682	CGGGGGGGGGGGG/CGGGGGGGG	TTAGCCTCTCGCCCTT GTAA	TCGAAATAGCAAACCC GTCC	60.0	593	INTERGENIC	--	--	--
Ca1_P3_7660044	Ca1	7660044	CTAA/CTAATTAA	TTAGCCTCTCGCCCTT GTAA	TCGAAATAGCAAACCC GTCC	60.0	593	INTERGENIC	--	--	--
Ca1_P3_7665875	Ca1	7665875	TA/T	GAATGGAATCAATTGG GTGG	AGGAAGAGACCAACA AGCA	60.0	256	DRR	Ca_08020	--	--
Ca1_P3_7670112	Ca1	7670112	ATTTT/ATTTT	TTTCAATCAAAACCCTT GCC	TCGCATAAAGTTGACT CCCC	59.9	868	INTERGENIC	--	--	--
Ca1_P3_7670138	Ca1	7670138	AAATAA/AAA	TTTCAATCAAAACCCTT GCC	TCGCATAAAGTTGACT CCCC	59.9	868	INTERGENIC	--	--	--
Ca1_P3_7671456	Ca1	7671456	TC/T	GGCCTTGAACGTTTAA CCAA	AAGCGCTTGTTTGAAG TGGT	60.0	514	INTERGENIC	--	--	--
Ca1_P3_7671768	Ca1	7671768	ACCCC/ACCCCC	GGCCTTGAACGTTTAA CCAA	TGTCGTCATAAGGTGG TGGA	60.0	699	INTERGENIC	--	--	--
Ca1_P3_7675303	Ca1	7675303	AA/AATA	CATGCGATTTCTTAGCT TAATTTT	TCGGATTAACTTGGG TCTCA	58.2	858	INTERGENIC	--	--	--
Ca1_P3_7675315	Ca1	7675315	AA/AAGA	TGGTATTGAATTTTATG GATGTTTG	TCGGATTAACTTGGG TCTCA	59.1	505	INTERGENIC	--	--	--
Ca1_P3_7678036	Ca1	7678036	TAAAAAAA/TAAAAAA	ATCGGAATCAAACCACT TCG	ACTTTGTCTATCTGTGT GCGG	59.9	852	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 (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
Ca1_P3_7685475	Ca1	7685475	AA/AACAATAGGA	TGTCGGGCCTTCTAAT GAAC	CGCTCCAACAGCTAAC ATCA	60.1	165	INTERGENIC	--	--	--
Ca1_P3_7687191	Ca1	7687191	AC/A	CACGACACAAAATTCA CTTATGA	GGATGGACTTCATGCT TCCT	59.1	369	INTERGENIC	--	--	--
Ca1_P3_7700414	Ca1	7700414	TG/T	TGGATGTTGATTTTCC CAAA	TCAAGTTGGCCAAGA AAAG	60.2	708	INTERGENIC	--	--	--
Ca1_P3_7706630	Ca1	7706630	TAAAAAA/TAAAAA	TTTGGTGTGCGTTTGA CAAT	AAATTTCCAGACACAT GCCC	58.9	685	INTERGENIC	--	--	--
Ca1_P3_7707553	Ca1	7707553	A/ATTTT	GCAACCATGTGAGAAG CAAA	TAGCAGTGGTTGTGG ATCA	59.8	431	INTERGENIC	--	--	--
Ca1_P3_7711941	Ca1	7711941	AGTT/A	CGCATCAGCCAACTAC TCAA	GCCTATGACGAAGCTT CCAA	60.0	314	DRR	Ca_08023	K	bHLH
Ca1_P3_7712937	Ca1	7712937	CAAA/CAAAA	CACGACCTAAAACCGA ATGC	CCCTTCATGTTGTTC GTTT	60.5	428	INTERGENIC	--	--	--
Ca1_P3_7726229	Ca1	7726229	CAAAAAA/CAAAAAA	TTTAGTGCCCGAGAGG AAGA	TTTGAGTCCCAACCAA AGGA	59.9	394	INTERGENIC	--	--	--
Ca1_P3_7726542	Ca1	7726542	TGCGCG/TATATGCGCGCG	GCGTGATCCATCATTT GACA	GGAAATTGCTCAAAAC TCACG	60.5	566	INTERGENIC	--	--	--
Ca1_P3_7727805	Ca1	7727805	CAAT/CAATAAT	TGAGAGATCAACCGTC TTGCT	CCATTGGAGAAAGCTT GGAA	60.0	420	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 (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
Ca1_P3_7778630	Ca1	7778630	CTTT/C	CCACACACATCAACCA CCAC	GGGCGATTGACTTGAG ACAT	60.8	444	INTERGENIC	--	--	--
Ca1_P3_7782186	Ca1	7782186	C/CGTAATATAATTT	TTGTCGAAAAGAGGAA GTGCT	CAAGACACACCCTTGG GATT	59.1	448	INTERGENIC	--	--	--
Ca1_P3_7784640	Ca1	7784640	T/TG	ATTGGGCATGTTTCGT CTGT	TGGGTAGACCTCTTTG ACCG	60.4	411	INTERGENIC	--	--	--
Ca1_P3_7784813	Ca1	7784813	CA/C	ATTGGGCATGTTTCGT CTGT	TGGGTAGACCTCTTTG ACCG	60.4	411	INTERGENIC	--	--	--
Ca1_P3_7786049	Ca1	7786049	GTTAATT/GTT	ATAGGGGAGGGGTTGT CTTG	ACGACCAGCTGGGTAT GAAC	60.2	553	INTERGENIC	--	--	--
Ca1_P3_7789078	Ca1	7789078	TAAAAAAAAAAAAA/TAAAAAAAAA	AGGGAAGAAGCACGAT CTTT	AGATGTTAACCCGCGT TTTG	58.0	728	INTERGENIC	--	--	--
Ca1_P3_7791444	Ca1	7791444	CTTTTTTT/CTTTTTTTTT	TGGCTCACTCTTGTTG CATT	GGATGGATCTTTCACC TCCA	59.4	493	INTERGENIC	--	--	--
Ca1_P3_7810052	Ca1	7810052	TCTAA/TCTAACTAA	CTTTGTGGGCAAACCA AACT	GGGTGGTTGAACTTC AGGA	60.0	521	DRR	Ca_08031	--	FAR1
Ca1_P3_7841172	Ca1	7841172	A/AC	TTTTGGCGTTGTTGATG TGT	GTACCACACGGGAGCT TCAT	60.0	839	INTERGENIC	--	--	--
Ca1_P3_7841312	Ca1	7841312	TT/TTGT	CACGACCGTCCGATTA AGAT	GTTGTACCACACGGGA GCTT	60.0	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 (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
Ca1_P3_7844969	Ca1	7844969	TAA/TA	TGAATGGACCTCCAAC GAAT	TTCAAAATGAATTTA GGAAGAGC	60.3	434	DRR	Ca_08034	--	GRAS
Ca1_P3_7893707	Ca1	7893707	CAAAAAAAAA/CAAAAAAAAA	AGAACGGCAAGTTAAT GCAA	TCTGTGTTGCGAAGT TTTG	58.4	703	INTERGENIC	--	--	--
Ca1_P3_7899699	Ca1	7899699	ATTTTTTT/ATTTTTTT	AACGTTGGGTGCAAAA AGTC	TTCTGGAAAGTTGT GGAGA	60.0	565	INTERGENIC	--	--	--
Ca1_P3_7914166	Ca1	7914166	T/TG	TGCATAGTTGTTGTG GGAA	GACGAGAGGTTGGAG ACTCG	60.0	939	INTERGENIC	--	--	--
Ca1_P3_7915897	Ca1	7915897	GAAAA/GAAAATAAAA	CTAACCTCTGGAGCAC CGAC	GCACAATACAAGCTG AGCA	59.9	459	INTERGENIC	--	--	--
Ca1_P3_7918757	Ca1	7918757	A/AT	TGGAAGTTGTTAAATGT GTCCTAAA	CATCCATTGGAAAGGG TGAC	59.1	700	DRR	Ca_08041	J	--
Ca1_P3_7929093	Ca1	7929093	GA/G	AATGCCTAAAAGCAATG CAAA	AACACGATGAGATGGA AGGG	59.7	527	INTERGENIC	--	--	--
Ca1_P3_7929432	Ca1	7929432	T/TTA	ATATCCGCAAGCTGAAT CGT	GGTTGAACCTCCAC AAGA	59.7	677	INTERGENIC	--	--	--
Ca1_P3_7930160	Ca1	7930160	GAAAAAAAA/GAAAAAAAAA	GGGTTCAAACCCACT TTTT	AAACGGGCCTCTGAAA TCTT	60.1	701	INTERGENIC	--	--	--
Ca1_P3_7933130	Ca1	7933130	TG/TGG	TCCTGCATAACACCATT GGA	CCTTCACAACTTGAA GGACC	59.9	883	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
Ca1_P3_7933454	Ca1	7933454	A/ATG	CGCAACTAATTCCTTC AACAA	CCTTCACAACTTGAA GGACC	59.3	591	INTERGENIC	--	--	--
Ca1_P3_7941806	Ca1	7941806	TG/TGG	CCAAACAGGCCAACAA TTCT	GGGCAAGGATCAAGAA ACAA	60.0	197	DRR	Ca_08044	QI	B3
Ca1_P3_7942966	Ca1	7942966	TAAA/TAAAA	GCACTTCCATCCTTT GGA	GAAAGGCCTCCAACA CAAA	60.1	378	INTRON	Ca_08044	QI	B3
Ca1_P3_7947029	Ca1	7947029	CAAAAA/CAAA	AACGATTTTACGCTT GCT	CAATGATTGGAATTG GAGGA	59.9	693	INTERGENIC	--	--	--
Ca1_P3_7947965	Ca1	7947965	TAAAAAAAA/TAAAAAA	TCATGGTATTACCGTA CACTTACA	TTTTTATTCTCGTGGG AGTGAG	59.6	540	DRR	Ca_08045	QI	B3
Ca1_P3_7952570	Ca1	7952570	ATT/ATTTTTTT	GCCAACCAGGTGTGAA TCTT	AAATCCATCAACGAGC CACT	60.0	577	INTRON	Ca_08045	QI	B3
Ca1_P3_7952716	Ca1	7952716	CTTTTTTTTT/CTTTTTTTT	GCCAACCAGGTGTGAA TCTT	AAATCCATCAACGAGC CACT	60.0	577	INTRON	Ca_08045	QI	B3
Ca1_P3_7954789	Ca1	7954789	TTAT/TT	CCCCTCGGAACCTTCAT TTT	TCGTAATTGCTTTCTG GCCT	60.3	558	INTRON	Ca_08045	QI	B3
Ca1_P3_7956095	Ca1	7956095	TGATAGATAGA/TGATAGA	GGACACGCAGAGAAGC AGTT	ACACGCTAATTTTTGC CACC	60.6	757	INTRON	Ca_08045	QI	B3
Ca1_P3_7957918	Ca1	7957918	C/CT	CAACACACACACACA CAAAA	CGGTAGATCCCAACCA AAAA	59.0	633	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 (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
Ca1_P3_7964474	Ca1	7964474	GTTTTTTTTT/GTTTTTTTTT	TGCTTTGCAATAAAAC GTTGA	AGCAAATTTCCGGATC TCCT	60.6	476	INTERGENIC	--	--	--
Ca1_P3_7975712	Ca1	7975712	TAAAAA/TAAAAA	GCTCCTTGCAATGGC TATC	GCCTCAAGTGATGAGA ATTGG	59.8	967	INTERGENIC	--	--	--
Ca1_P3_7987454	Ca1	7987454	TAAAAA/TAAAAA	GGGGTTACTTAGGGT CAGC	TCGAATATTTAAAAAGA TTGGTGAAA	59.8	371	INTERGENIC	--	--	--
Ca1_P3_7987594	Ca1	7987594	A/A	GGGGTTACTTAGGGT CAGC	CAAAGTGTAGAATGGT TACGGATG	59.8	794	INTERGENIC	--	--	--
Ca1_P3_7988388	Ca1	7988388	ATT/ATTTT	TCAATCCAAACAGTCC AGAA	AATGCATGCTTTGGT CCTC	58.2	761	DRR	Ca_08049	--	WRKY
Ca1_P3_7990610	Ca1	7990610	AATATATATATA/AATATATA	AGTTGGCCATGGATGA TTGT	GCAAATGTGTTGTCAA TGGG	60.2	349	INTRON	Ca_08049	--	WRKY
Ca1_P3_7991381	Ca1	7991381	ACACACCTCTTCA/ACA	TGGTGCAGGAATACAA ACCA	CACGTGGCACCGTTAA TATG	60.0	382	INTRON	Ca_08049	--	WRKY
Ca1_P3_7992031	Ca1	7992031	GTAA/GTAATTAA	TGATTCTCTCCCATGCC ATT	TTCTTCAGCTGGTGTT GCAC	60.4	450	INTRON	Ca_08049	--	WRKY
Ca1_P3_7992083	Ca1	7992083	CTC/CTCTTC	TGATTCTCTCCCATGCC ATT	TTCTTCAGCTGGTGTT GCAC	60.4	450	CDS (large-effect mutations)	Ca_08049	--	WRKY
Ca1_P3_7992471	Ca1	7992471	TGTAGTA/TGTAGTAGTA	GTGCAACACCACTGA AGAA	CAACATCATGATCAAT GGCA	60.0	310	CDS (large-effect mutations)	Ca_08049	--	WRKY

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
Ca1_P3_7994035	Ca1	7994035	TAAAAAAAA/TAAAAAAAAA	CACCTTGCATGTGTAT GAATGA	TACTTGCCGCCTCTT TGTT	59.5	250	INTERGENIC	--	--	--
Ca1_P3_7994334	Ca1	7994334	AATTAT/AATTATTAT	AACAAAAGAGGCGCA AGTA	GGGCATGGGTTAGCTA GTGA	59.9	705	INTERGENIC	--	--	--
Ca1_P3_7995324	Ca1	7995324	ATAGTAGT/ATAGTAGTAGT	CGGATTGTTTTCGATAT GGG	AAGGGATTTTTATTAC AAAACAA	60.1	527	INTERGENIC	--	--	--
Ca1_P3_7995361	Ca1	7995361	TAAAAA/TAAAAAA	CGGATTGTTTTCGATAT GGG	TCCTTGATTATAGGC ACTCAA	60.1	663	INTERGENIC	--	--	--
Ca1_P3_7995599	Ca1	7995599	CTTTTT/CTTTTTTTT	CGGATTGTTTTCGATAT GGG	TCATTGAGGATATTG CGAGG	60.1	867	INTERGENIC	--	--	--
Ca1_P3_7995701	Ca1	7995701	ATTAAATGAGTGTTAAAT/ATTAAAT	GCGTAAGTTATGCATG CCAAT	GGTGCAAGGAAGAAA ATGA	60.0	902	INTERGENIC	--	--	--
Ca1_P3_7995766	Ca1	7995766	CAAAAA/CAAAAAA	GCCAATTGCGTGTAGC TGT	GGTGCAAGGAAGAAA ATGA	59.9	887	INTERGENIC	--	--	--
Ca1_P3_7996929	Ca1	7996929	ATT/ATTAATAAATT	TCCCGGTACACAAT AATC	TTCTCAAGCACCAAGC ACAC	60.6	185	INTERGENIC	--	--	--
Ca1_P3_8000792	Ca1	8000792	G/GC	CCAACCTTCACACTC GTTT	TCCAACCAAATTTCAA ACA	60.0	878	INTERGENIC	--	--	--
Ca1_P3_8003548	Ca1	8003548	T/TAA	CATTTGGCATCGATATG CAC	GGACACAAATATAATT GAGCCA	59.9	867	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
Ca1_P3_8003639	Ca1	8003639	AC/A	TTGGTCATCTCAAAG GTCC	GGACACAAAATAATT GAGCCA	59.9	631	INTERGENIC	--	--	--
Ca1_P3_8004049	Ca1	8004049	AAT/AATATATAT	GGCTCAATTATTTTTG TGTCCC	TCATGATATTATGCAC CGGG	58.8	551	INTERGENIC	--	--	--
Ca1_P3_8017505	Ca1	8017505	TAAA/TAAAA	GGCGAAACTCGTGAGG ATAC	TCAAACCATCGAACCA AACA	59.7	754	INTERGENIC	--	--	--
Ca1_P3_8017527	Ca1	8017527	CATAATAATAATAATA/CATAATAAT AATAATAATAATAATA	GGCGAAACTCGTGAGG ATAC	TCAAACCATCGAACCA AACA	59.7	754	INTERGENIC	--	--	--
Ca1_P3_8018022	Ca1	8018022	G/GAAACAT	TGTTTGGTTCGATGGTT TGA	TGTATTGGGCCAGTTT CACA	59.9	544	INTERGENIC	--	--	--
Ca1_P3_8018283	Ca1	8018283	GAAA/GAA	TGTTTGGTTCGATGGTT TGA	TGTATTGGGCCAGTTT CACA	59.9	544	INTERGENIC	--	--	--
Ca1_P3_8019062	Ca1	8019062	AT/A	GACCGTGACTGTGAGC AAGA	AGTTTGTGGACTTCGG GTTG	60.0	463	INTERGENIC	--	--	--
Ca1_P3_8020277	Ca1	8020277	ATTT/ATTTGTTT	TCGCGGTGAATATCAC AAGA	GTCGATTCAAGTTGGC GAAT	60.2	756	INTERGENIC	--	--	--
Ca1_P3_8023347	Ca1	8023347	T/TG	TAGGCCAGCTTCGAAA CATT	TGTTGGGATCACCAC AGGC	59.8	761	INTERGENIC	--	--	--
Ca1_P3_8031692	Ca1	8031692	TTA/TTATA	ATCTTCTTTTGTGGGG CCT	CTTGCCAGATCTCGAG TATGAA	59.9	397	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 (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
Ca1_P3_8031727	Ca1	8031727	CG/C	ATCTTCTTTTGTGGG CCT	CTTGGCAGATCTCGAG TATGAA	59.9	397	INTERGENIC	--	--	--
Ca1_P3_8032266	Ca1	8032266	T/TTTA	TCGTAAAGTTTGCAGA GAGAAAA	TGAGGGTTTGACTCTT TCCATT	58.4	511	INTERGENIC	--	--	--
Ca1_P3_8033455	Ca1	8033455	CTTTTTTTTT/CTTTTTTTTTTT	TCACACCTTCATTCCT TCC	CCCAGGAGAAGAAAAT CGTG	59.9	766	INTERGENIC	--	--	--
Ca1_P3_8037389	Ca1	8037389	TG/T	CCATGATATCCTGCTG CTGA	CCTGTAACCTGCAAGG TGGT	59.8	535	INTRON	Ca_08051	M	FAR1
Ca1_P3_8038627	Ca1	8038627	TGGGGGG/TGGGGG	GCACCTACTCGGGATT GAAG	TCAGCAAAATCAATTC GTGG	59.7	676	DRR	Ca_08051	M	FAR1
Ca1_P3_8038814	Ca1	8038814	GTTTTTTT/GTTTTTTTTT	GCACCTACTCGGGATT GAAG	TGGTTGAGCATTTGCC ATTA	59.7	707	DRR	Ca_08051	M	FAR1
Ca1_P3_8041307	Ca1	8041307	T/TG	CGGCGGCAATTGTTAT AAGT	CAATTTCAAGCAAAATC GCA	60.0	890	INTERGENIC	--	--	--
Ca1_P3_8041385	Ca1	8041385	CTTT/CTT	TCGAAGATGGTGGTTG ATGA	CAATTTCAAGCAAAATC GCA	60.0	780	INTERGENIC	--	--	--
Ca1_P3_8041662	Ca1	8041662	TAAC/TAACATTAAAC	CCCTTCATTGGAGATG TTCC	TTGGGGACACTAAGAG GTGG	59.3	866	INTERGENIC	--	--	--
Ca1_P3_8050233	Ca1	8050233	ATTTTTTT/ATTTTTT	TCGACACATCATCACCT TTTG	TGGTTGTGTTGAGTTT GGGA	59.6	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 (°C)	Expected 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_P3_8061072	Ca1	8061072	C/CTAAA	CAACGTTGGATGGTGG TGTA	GTTTAGGACCCGTGCA TTTG	60.3	571	INTERGENIC	--	--	--
Ca1_P3_8062163	Ca1	8062163	TCATCCACATCCACAT/TCATCCACAT	TTATTGCGCCCAACAACA CAA	TGAAGATGAAGATGAG GGAGG	60.0	459	INTERGENIC	--	--	--
Ca1_P3_8062288	Ca1	8062288	TG/T	TCATCCACATCCACATT CTCA	TCATTGGTAGTACGTG AACCGA	59.9	366	INTERGENIC	--	--	--
Ca1_P3_8063349	Ca1	8063349	CTGGTTGGT/CTGGT	GCAGTATGGCAAGAGC AACA	TCATCACATTAAGGCC AGCA	60.0	486	INTRON	Ca_08053	O	MYB_related
Ca1_P3_8090682	Ca1	8090682	ATTTTT/ATTTTT	GAGGGGCTACCACCAA ATTC	CCCACACAAACAATG CATC	60.7	622	INTERGENIC	--	--	--
Ca1_P3_8092031	Ca1	8092031	CTTTT/CTTT	TCATCTTCGCCAGAGTT TCA	AAGGCATTGGGAAATG GTAA	59.5	480	INTERGENIC	--	--	--
Ca1_P3_8101729	Ca1	8101729	CAGAGA/CAGA	CTTGACTCTTTGTCTCC GCC	GCCATTGCTGTCTCTGA GAAT	60.0	346	DRR	Ca_08056	C	--
Ca1_P3_8123087	Ca1	8123087	AC/ACTTTTCAAGC	CAAGGCCCTTCTATT GTCA	TGACTGAACCATCCAA CGAA	60.1	138	DRR	Ca_08058	R	--
Ca1_P3_8125888	Ca1	8125888	GTT/GACATATTAATAAT	TGTTGGGTTACGAGGG AGTC	TTGCGGGTTTTTAACC TGAG	60.0	526	INTERGENIC	--	--	--
Ca1_P3_8126149	Ca1	8126149	TAAAAAAA/TAAAA	TCAAAATTTGTCCACGT CCA	AATTTACAAACACGGC GACC	59.9	478	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_8127150	Ca1	8127150	T/TG	CCCTCCTTCCAGAAAA CCTT	AAAGGGCAAGAAAAGAA ACGTC	59.5	157	INTERGENIC	--	--	--
Ca1_P3_8127206	Ca1	8127206	AG/A	CCCTCCTTCCAGAAAA CCTT	AAAGGGCAAGAAAAGAA ACGTC	59.5	157	INTERGENIC	--	--	--
Ca1_P3_8130349	Ca1	8130349	ATTTT/ATTT	TTACTCACCGAACC GTCC	GTTGCCGGGTAAAGTT TCAA	60.0	557	INTRON	Ca_08059	P	--
Ca1_P3_8130436	Ca1	8130436	ATTTTT/ATTTT	TTACTCACCGAACC GTCC	GTTGCCGGGTAAAGTT TCAA	60.0	557	INTRON	Ca_08059	P	--
Ca1_P3_8139974	Ca1	8139974	AAGTTT/A	TTGGAGCACAGAAATT GGGT	GGAAACACAAGGGATG TTGG	60.5	409	INTRON	Ca_08061	--	C2H2
Ca1_P3_8282795	Ca1	8282795	TTCTCTCTCTCTCTCTCTCTCTCTCT /TTCTCTCTCTCTCTCTCTCTCTCT	ACGCCCGCATAGAACA TAAG	CTGAACGAGCAAGGGA GTTC	60.1	661	INTERGENIC	--	--	--
Ca1_P3_831015	Ca1	831015	TG/TCTCTTATAAATGAG	GCCGGATTAAATATAAA TCCACA	TGACCTAATAAGCCTG TTTGTTT	59.2	595	DRR	Ca_00101	--	--
Ca1_P3_839232	Ca1	839232	AGTGT/AGTGTGT	AAGGATTGTGAAATCG CCAC	TAGATGCCCGTCATTG TTGA	59.9	680	INTERGENIC	--	--	--
Ca1_P3_8428302	Ca1	8428302	TAAAA/TAAA	TGCACGTAGAATCGCC TAAA	TGTTAACACGCCCAATT TTTAT	59.5	263	INTERGENIC	--	--	--
Ca1_P3_8430467	Ca1	8430467	TT/TTATTATTAT	AGGTCATGGGCTGGAT GTAG	ACCCTTTCACTGCGCT CTTA	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 (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
Ca1_P3_8457640	Ca1	8457640	ATTATTTATTTATTTATTTATTTAT TTATTTATTTATTTATTTATTTA/AT TATTTATTTATTTATTTATTTATTT ATTTATTTATTTATTTATTTATTTA TTTA	ATTACTGTCGGCACGC TTCT	CGTTGACACCTGGCAC TAGA	59.9	237	DRR	Ca_08081	--	--
Ca1_P3_8669425	Ca1	8669425	TA/T	AGCCAGGCCATGTAAC AAAC	GATGGAGAGGGTCATC CAGA	60.0	234	INTRON	Ca_02944	P	GRAS
Ca1_P3_89142	Ca1	89142	AATATATATATATATATATATATAT ATATATATATATATATATAT/AATATATA TATATATATATATATATATATATAT	CACCCCTACCTTCACCT TCA	CCGTGAAATGTCAACT CGTG	60.0	571	INTERGENIC	--	--	--
Ca1_P3_8968122	Ca1	8968122	AA/AACA	CAAGCTCCCGAATCAA ACAC	CACAAAACCGAAAAGG GAGA	60.6	305	INTERGENIC	--	--	--
Ca1_P3_9108079	Ca1	9108079	CTATATATATATATAT/CTATATATAT ATATAT	GAGGCCATTGAATCTC CAAA	CGCCCTTAAAAATTAG GTGCT	60.0	672	INTERGENIC	--	--	--
Ca1_P3_9130103	Ca1	9130103	TTATATATATATATATATAT/TTATAT ATATATATATATAT	GGGTCAAATTCGTTG ACCAT	TACGGGTCAAGACAGG TTCG	61.0	550	INTERGENIC	--	--	--
Ca1_P3_915168	Ca1	915168	CTTTTTTTTT/CTTTTTTTTT	CGTGCAAGGTGGTTTC TTTT	AAATGACACCCCAAA ATCA	60.1	446	INTERGENIC	--	--	--
Ca1_P3_9223996	Ca1	9223996	TAAAAAAAAA/TAAAAAAAAA	AATGGATTCTTCGCTC AAA	ACAGAACGGTGCGTTG TAAA	59.6	489	INTERGENIC	--	--	--
Ca1_P3_9236712	Ca1	9236712	AT/A	TTTTTGCTTAAATCCGC AGG	CAAGCTCACCAAGTCA CGAA	60.2	729	INTERGENIC	--	--	--
Ca1_P3_9394926	Ca1	9394926	CG/C	CAAGTCCCCACTTGGA AAAA	CGGGCTCTAAATATCA CCTACG	59.9	441	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 (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
Ca1_P3_9396	Ca1	9396	CAAAAA/CAAAA	TTGGCAAATCGATTGAA ACA	TTGATCCTTGCAGTCA CTCG	60.1	906	DRR	Ca_00001	--	--
Ca1_P3_9418383	Ca1	9418383	ACACATTT/A	AGTGGCTGAACACACT GACA	TCAGCTGAGAAAGTCA CCGA	57.8	916	INTERGENIC	--	--	--
Ca1_P3_9449325	Ca1	9449325	GTTTTTTTTTTT/GTTTTTTTTTTT	CGAAGCATCACAGTCA AGGA	CGATTGCTGAATGAC AAAA	60.0	435	DRR	Ca_02851	R	--
Ca1_P3_9652123	Ca1	9652123	GAAATTTTTTGCCTAAATTTTTT/GAA ATTTTTT	ATTTTGACCAATCCAG CCC	CATTTCAGCATGTAA GTAATCAAA	61.1	881	INTERGENIC	--	--	--
Ca1_P3_9871519	Ca1	9871519	ATT/A	CTTAGTCCACGTGCA ACGA	AAAGTGC GGCCAATA TCTA	59.9	600	INTERGENIC	--	--	--
Ca1_P3_9926230	Ca1	9926230	CAAAAAAAAA/CAAAAAAAAA	GGAACCTGAAAGTGCG TGTT	TTTTGTTTTGCACCGA TCA	60.2	284	INTERGENIC	--	--	--
Ca2_P3_10009732	Ca2	10009732	GATATATATATATATATATATATATA TATATATATAT/GATATATATATATAT ATATATATATATAT	TGTCACATTTACTCAAC CGCA	AAAAATTGATTCGTGTG ATTGGA	60.2	287	INTERGENIC	--	--	--
Ca2_P3_10081600	Ca2	10081600	CAAAAAAAAA/CAAAAAAAAA AAAA	TTTTGATTGATTGATGA TGCG	TGCAAAATCAACCTCA CGAA	58.3	552	INTERGENIC	--	--	--
Ca2_P3_10200721	Ca2	10200721	ATTTTTTTTT/ATTTTTTTTT	GGATGAGCATCAATT CAAAGA	GGTCTGTACATCTTCA ATGGCA	60.4	510	INTERGENIC	--	--	--
Ca2_P3_1022421	Ca2	1022421	TAAA/TAA	GCCATTCTTTCTGCCAT TTC	TTCCATCAGTCAGTGG GTTG	59.7	729	INTRON	Ca_17008	E	C3H

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
Ca2_P3_1033751	Ca2	1033751	CATTTATTA/C	TGTGTGATTTTCAATAG TCACCG	AAGTTAAGGGACCACG GGAT	59.9	845	INTERGENIC	--	--	--
Ca2_P3_10373779	Ca2	10373779	TTATATATATATATATATATA/TTATA TATATATATATATA	AAATGCATCGAAACATC AAAAA	GGTCCAGAAATAAGT GCCA	59.5	382	INTERGENIC	--	--	--
Ca2_P3_10498057	Ca2	10498057	CTTTTTTTTT/CTTTTTTTTTT	TGACCAAATCGGAAAG AAAAA	AGGGAATGAGAGCAAT GACG	59.6	454	INTERGENIC	--	--	--
Ca2_P3_10563482	Ca2	10563482	GATATATATATA/GATATATATATA TA	TTGCATCTTCGTTGATC GTC	GACAATTCTGAGTGCC ATGC	59.8	510	INTERGENIC	--	--	--
Ca2_P3_10702214	Ca2	10702214	AAATAATAATAATAATAATAAT AATAATAAT/AAATAATAATAATAAT AATAATAATAATAATAAT	TGGGTGATGTGAGTTT GTTCA	ATGAGCTCTATGTC CCCT	60.0	415	INTERGENIC	--	--	--
Ca2_P3_10720766	Ca2	10720766	ATTTTTTTTT/ATTTTTTTTTT	GTTTGTCCCCAAGCAA CAAT	TTGGTCGTTTGAGCCT TTCT	59.8	796	INTERGENIC	--	--	--
Ca2_P3_10779124	Ca2	10779124	TTA/TTACATA	CACTTTTCTTATGCACC GCA	GCAGCGAGTAGGAGA AATGC	59.9	663	INTERGENIC	--	--	--
Ca2_P3_10789942	Ca2	10789942	ATTTTTT/ATTTTTTTT	TTGAATCTGCACCCAAA TGA	GTGGCTTCATAAGGCA GAGG	60.0	888	INTERGENIC	--	--	--
Ca2_P3_10833947	Ca2	10833947	CATATATATATATATAT/CATATATAT ATATATATAT	GTTGGTTCCTAGCAC CGTA	ACCCAATTACTGGAGA TGCG	60.0	650	INTERGENIC	--	--	--
Ca2_P3_10879782	Ca2	10879782	CCAGC/CCAGCAGC	GTTGGTTCCTAGCAC CGTA	TGCCTTATGGGTGAAA TGGT	60.0	594	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 (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
Ca2_P3_10904528	Ca2	10904528	ACCCC/ACCC	CACCAACAATTGGCAT CAAG	CCCACATTTCTTGGC AGTT	60.0	374	INTERGENIC	--	--	--
Ca2_P3_10916127	Ca2	10916127	TAAAAAAAAA/TAAAAAAAAA	GCAAGAACGATGCAGT GAAA	GTTTGGGTCCAAGAA GCAA	60.0	671	DRR	Ca_17556	--	--
Ca2_P3_10927606	Ca2	10927606	T/TAATAATAATAATA	TCACGTGAGTCCCAAT GAA	ATGGAGGCTCTTGTG AGGA	60.1	624	INTERGENIC	--	--	--
Ca2_P3_10929028	Ca2	10929028	GATATATATATATATATATATA/GATA TATATATATATATATA	TTTCCCCGACTTAGTC CTTT	TGAAGCCATGGATCGT AACA	59.1	663	INTERGENIC	--	--	--
Ca2_P3_10948001	Ca2	10948001	ATTA/ATTACACTGACGTTA	TGATTCTTGATCATGTT GTTTTCA	CCATCCTCACTCCAAA GACAA	59.5	702	INTERGENIC	--	--	--
Ca2_P3_11063661	Ca2	11063661	TATT/TATTGTGAATT	TTGCATGCTTTTATTGA CATTG	AGTCGTTCTTTGGAGG GGTT	58.7	543	INTERGENIC	--	--	--
Ca2_P3_11085781	Ca2	11085781	AATATATATATATATATATATATATAT ATATATTTATATATATATAT/AATATATA TATATATATATATATATTTATATATAT ATAT	TTTGGTTTTGAACTCGG AGG	CACCGTAGTGTGGTGG TGAG	60.1	660	INTERGENIC	--	--	--
Ca2_P3_11097797	Ca2	11097797	T/TTA	GCCCTCAGATGAGAGT CAGG	CCCAAAGAAAACCAAA CCAA	59.9	480	INTERGENIC	--	--	--
Ca2_P3_11136560	Ca2	11136560	GAAAAAAAA/GAAAAAAAA	TGACCAATGGAAGG GGAG	TGAAATTTGGGGTG TTACAA	59.9	300	INTERGENIC	--	--	--
Ca2_P3_11144082	Ca2	11144082	CTTTT/CTTTT	TGCGAGCTTTCCTTTT CAT	AAGGAGCTCTGGGACA CTGA	60.0	214	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 (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
Ca2_P3_11144239	Ca2	11144239	T/TACTC	TCAGTGTCAGAGCT CCTT	TCAATTGGCATCAGAG CAAG	60.0	402	INTERGENIC	--	--	--
Ca2_P3_11156323	Ca2	11156323	ACC/ACCC	AATCCTAAGCGCCATCT GAA	ATGCCATGTGTGAAG ACAA	59.8	525	INTERGENIC	--	--	--
Ca2_P3_11215907	Ca2	11215907	TAAAAAAAAA/TAAAAAAAAA	GCGAGTTTGAACCAT CAAGC	TTGGATCCGTTTGTC AAGA	60.3	967	INTERGENIC	--	--	--
Ca2_P3_11220118	Ca2	11220118	ANNNNNNNNN/ANNNNNNNN	TTGCACTTGGTTTGACT CCA	CTCTCAACCTCTCGT TTGC	60.3	939	INTERGENIC	--	--	--
Ca2_P3_11240445	Ca2	11240445	ATTTTT/ATTTTTT	TCGACCGAATCAACAA TGA	ACGTTTCCTCACGTTT CCAC	60.0	622	INTERGENIC	--	--	--
Ca2_P3_11256709	Ca2	11256709	AC/A	AAGAAAGACAAGGGGC CATC	CCATGCTTTTGGTTTG TTGA	60.4	215	INTERGENIC	--	--	--
Ca2_P3_11321715	Ca2	11321715	TAAAAAAAAA/TAAAAAAAAA	GCCTTAGTTGCGCGTA AAAC	CAACTCCACAAGGCCT CACT	59.9	398	INTERGENIC	--	--	--
Ca2_P3_11625278	Ca2	11625278	AATATATATATATATATATATAT A/AATATATATATATATATATATAT ATATATA	GTTTAGCGCTCCTCCA TCAT	CTGCCCGTAAAAATCT TCCA	59.3	839	INTERGENIC	--	--	--
Ca2_P3_11869889	Ca2	11869889	TTAACTATACTAT/TTAACTAT	TGCAAGGAAGCAGATC GAAT	AGCAAACATCCAAACA AGCC	60.9	537	INTERGENIC	--	--	--
Ca2_P3_12048675	Ca2	12048675	AATAATTTATAATTTATA/AATAATTTAT A	CAAACATGCTGATGTG GACC	CCATTGGTAAATGGCT AACAA	60.0	278	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
Ca2_P3_12181425	Ca2	12181425	TTATATATATATATATATATA/TTATA TATATATATATATATA	CGGCGAAATAAATTCA CCAT	GGAAGTCGTAGGGTTG GGAT	59.8	578	INTERGENIC	--	--	--
Ca2_P3_1221818	Ca2	1221818	ATTTTTTTTT/ATTTTTTTTTT	TAGGTGCCCAACATAG CACA	ACAAAATGGTTCTCGA AATGA	60.1	978	INTERGENIC	--	--	--
Ca2_P3_12322193	Ca2	12322193	TTCACCTACTC/TTCACCTC	ACTGCAACCATCTTTC TGG	AGAGACCCAAGTGAGG CTGA	60.1	576	INTRON	Ca_18064	E	--
Ca2_P3_12360564	Ca2	12360564	TAAAAAAAAA/TAAAAAAAAA	TCGCACTCACACAACAA AATC	CCTTCTCACTTTTGGGA AGGG	59.8	155	INTERGENIC	--	--	--
Ca2_P3_12384713	Ca2	12384713	AAAATAAATAAATAAATAAATAAA TAAATAAATAA/AAAATAAATAAATAA TAAATAAATAAATAAATAAATAA	CCTACGTATCTCTGG TGCG	TTAATCGTTGCGTTGC TGAG	60.7	649	INTERGENIC	--	--	--
Ca2_P3_12475607	Ca2	12475607	TTGTATTTGATGTAT/TTGTAT	TCAAAGAGAAATGACTT TGCCA	TCACTTTGCTTTGTGT GTCTCA	58.9	852	INTERGENIC	--	--	--
Ca2_P3_12567970	Ca2	12567970	ATTTTTTTTT/ATTTTTTTTTT	GGAAGTTGCCTTTCCC TTTC	TCGCAAGGATCTACAC ACTGA	60.1	743	INTERGENIC	--	--	--
Ca2_P3_12589348	Ca2	12589348	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATATA TATATATATAT	CCAGCTCGGTTCAAGT TTTC	TTTCGATCAGACGGTT AAATTG	59.9	637	INTERGENIC	--	--	--
Ca2_P3_12634541	Ca2	12634541	CTTTTTTT/CTTTTTTT	GTTCAAAGCAGCTGCA ACAA	CCACAACCTACCTTGG CATT	60.2	236	INTERGENIC	--	--	--
Ca2_P3_12805309	Ca2	12805309	ATTTTTTT/ATTTTTTTT	TTTTGAACACGGGCACA CACA	AGCACTAAATGGGTGG AACC	60.2	836	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 (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
Ca2_P3_12931745	Ca2	12931745	A/AGC	GTTGATGCTCCAACAA GAGC	TTTGACCAAGTCGAAA ACAAGA	58.4	470	INTERGENIC	--	--	--
Ca2_P3_12933106	Ca2	12933106	A/AT	AGGTTGAAAGAAGCCC CACT	ATCGGTTGGTTGGTGA AATG	60.1	834	INTERGENIC	--	--	--
Ca2_P3_12933331	Ca2	12933331	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATATA TAT	TGGAGTTTTGGTCTCC ATATTT	AGGGACATGCAATGGG TTAG	57.6	618	INTERGENIC	--	--	--
Ca2_P3_12933573	Ca2	12933573	CACCAACCAACC/CACCAACC	TCATTGACAAGGAAAG AACATGA	CGAATTGGTTTTGGGA TTTG	59.6	413	INTERGENIC	--	--	--
Ca2_P3_12934202	Ca2	12934202	AAA/AAACAA	AGAAAGCAAGCAAATC CCAA	TTCCAACACCTCACGA TTCA	59.8	488	INTERGENIC	--	--	--
Ca2_P3_12934976	Ca2	12934976	TATCAATC/TATC	TGCCTCAAAAATCTGGT GTG	CTGCTCCAAACTGATC ACGA	59.7	516	INTERGENIC	--	--	--
Ca2_P3_12937651	Ca2	12937651	ATTTT/ATTTT	GATTGCTTCTCTATG CCG	GTTTGGCGTTGGTTT CACT	59.8	353	INTERGENIC	--	--	--
Ca2_P3_12939688	Ca2	12939688	AATATATA/AATATA	TTTTGGTGTTGAGGGT GTCA	TTAATCAAAGCGGCAA AAGAA	60.0	564	INTERGENIC	--	--	--
Ca2_P3_12941200	Ca2	12941200	CAAAA/CAA	TGTGCTTCTTCTGATT TTGG	GGCCAAAGACGGATAT GGTA	60.2	888	INTERGENIC	--	--	--
Ca2_P3_12941800	Ca2	12941800	T/TA	CATATCCGTCTTTGGC CATT	CCTTGAACAATTGGG CAGT	59.8	643	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 (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
Ca2_P3_12947970	Ca2	12947970	G/GT	TGCTTTTATGAGCATT CGGG	CGACTTCAAATCCCT CGAG	60.1	777	INTERGENIC	--	--	--
Ca2_P3_12952557	Ca2	12952557	ACATATCATATCA/ACATATCA	AAAGCATTTTATCCGA CCA	TTTTTCATCTCACTCTC TCCCA	59.4	787	INTERGENIC	--	--	--
Ca2_P3_12952944	Ca2	12952944	TGTCATGATTAT/TGTCATGATTATAGT CATGATTAT	TGGGAGAGAGTGAGAT GAAAAA	ACGGATGTCTAATCCG TTGG	58.9	308	INTERGENIC	--	--	--
Ca2_P3_12960292	Ca2	12960292	GT/GTTAT	TTCATACATCCAATCGT GGTTT	CCACAAGAAGCAACAC AAGC	59.2	527	INTERGENIC	--	--	--
Ca2_P3_13079939	Ca2	13079939	ATTTTTTT/ATTTTTTTT	GCAGCAAAATGAAATT GGG	CGCAACAAATGGAAG ATCA	60.4	541	INTERGENIC	--	--	--
Ca2_P3_13141012	Ca2	13141012	CT/C	TTGGGGTCCCCTACCA CTAT	TAGAGGGCTCAAAC GCAA	60.4	771	INTERGENIC	--	--	--
Ca2_P3_13187716	Ca2	13187716	ATTTATTTATTTATTTTA/ATTTATTTT ATTTTA	CCAAATTCGGCTGTTTC ATT	CGATTTAATTTGGTTG GTAATGG	59.9	457	INTRON	Ca_11682	K	Trihelix
Ca2_P3_13191440	Ca2	13191440	AT/ATTTTATT	CGAGGGTAATGAATGT CGAA	TCCCACCCCTACCAAT TACA	58.6	532	INTRON	Ca_11682	K	Trihelix
Ca2_P3_13191472	Ca2	13191472	ATTATT/ATTATTCTTATT	CGAGGGTAATGAATGT CGAA	TCCCACCCCTACCAAT TACA	58.6	532	INTRON	Ca_11682	K	Trihelix
Ca2_P3_13247575	Ca2	13247575	ATTTTTTTT/ATTTTTTTT	TGAAAAGCTAAATGCAT GGAA	TCATGACCATGGACCC ACTA	58.4	937	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
Ca2_P3_1350612	Ca2	1350612	TAAAAA/TAAAA	GCGTTGTAAGTATTTG CGA	ATCAAACGGGTTTAAG TGCG	59.9	272	INTERGENIC	--	--	--
Ca2_P3_13622321	Ca2	13622321	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATATA TAT	TTGTCTTTTGTTAGCA CATCTCA	GAAGCTCACTAAGCAC TTGCC	59.0	491	INTERGENIC	--	--	--
Ca2_P3_13639596	Ca2	13639596	TAATTAATAAAAT/TAAT	AAGCCAGCCGCATGTA AATA	TTCACCTCCTCTGCAT CTTTCA	60.6	788	INTERGENIC	--	--	--
Ca2_P3_13662185	Ca2	13662185	CATATATATATATATATATATA/CATATA TATATATATATATATATA	GGGGGACCAATTCAT AAAT	AAGTGAATCAATTGTG TGGTCTTT	59.7	724	DRR	Ca_11645	R	C2H2
Ca2_P3_13713037	Ca2	13713037	ATTTTTTTTTTT/ATTTTTTTTTTT	TCTCCAACAACAACAC ATGAA	TCCTGAGTGTGTTGCC ATCAA	59.1	515	INTERGENIC	--	--	--
Ca2_P3_13728931	Ca2	13728931	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATT/TTTATTATTATTA TTATTATTATTATTATTATTATTATT	AGAGGCAAAACAAGAAC CGAA	GAGGACCAAGACCTC CACA	59.9	417	INTERGENIC	--	--	--
Ca2_P3_13794561	Ca2	13794561	CTTTTTTT/CTTTTTT	GATTCGGTGGAGAATC CAAA	CACCGGTGGTAACGAG AACT	59.9	834	INTRON	Ca_11639	--	SAP
Ca2_P3_13956600	Ca2	13956600	AATTATTATT/AATTATTATTATT	TGAAATTTGTGATTTAG TTGCTTAAAA	AAACAAGTTGGTGGTG GAGC	59.6	686	INTERGENIC	--	--	--
Ca2_P3_13957974	Ca2	13957974	A/AG	TTAGCCATTGTGCGTA GCTG	GTGGGGATAGTAGTG GGGGT	60.0	218	INTERGENIC	--	--	--
Ca2_P3_13983591	Ca2	13983591	ATTTTTTTTTTT/ATTTTTTTTTTT	ACACGAGCGGAGAAA TAAA	TGCAATTGTGGTCCAT TTGT	59.7	893	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 (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
Ca2_P3_14017645	Ca2	14017645	ATATTATTATTATTATTAT/ATATTATTA TTATTAT	ACAAAAAGGTGCTGCC AAAC	TCGACCCCTTTTATA CCAA	60.2	329	INTERGENIC	--	--	--
Ca2_P3_14049093	Ca2	14049093	GAAAAAAAAA/GAAAAAAAAA	GTAGGAAGTCGCCATT TGGA	TGCCTCCTATGAGGT TTTT	60.1	180	INTERGENIC	--	--	--
Ca2_P3_14086143	Ca2	14086143	C/CT	GCTTCTGATGGTGAC TTGA	TGGCCTAAAGCAAGCT CCTA	60.0	371	INTERGENIC	--	--	--
Ca2_P3_14117374	Ca2	14117374	AATATATATATATATATATATATATAT /AATATATATATATATATATATATATA TATAT	ACCTACGGATGTTAGC CGTG	GGTCCATGCAAAATCA TTCA	60.0	768	INTERGENIC	--	--	--
Ca2_P3_14196319	Ca2	14196319	T/TGGA	TTTGCAAACCTATCAT CCC	TTGAGCTTCAGCATT TG TG	59.8	729	CDS (large-effect mutations)	Ca_11619	--	Trihelix
Ca2_P3_14200236	Ca2	14200236	A/AT	GCGCTGTAATGTGC AAAA	TCGGCTATATGATTGT CCCA	59.9	258	DRR	Ca_11619	--	Trihelix
Ca2_P3_15280624	Ca2	15280624	AATATATATATATATATATATATATAT ATATATA/AATATATATATATATATAT ATATATATATA	AGAGGCAGAAATGGTG GTGT	AAGATTTTAGGCGATT CTACGTG	59.6	659	INTERGENIC	--	--	--
Ca2_P3_15296907	Ca2	15296907	TTATATATATATATATATATATATA/T TATATATATATATATATATATATATAT ATA	ATCAGTCCTCGCCTCC AATA	TTGAGGCATGGTGTGG TTTA	59.7	619	DRR	Ca_18563	--	--
Ca2_P3_15302288	Ca2	15302288	AATATATATATATATATATATA/AATA TATATATATATATATATATATATATA	TTCTCCTCCCAACCTTT TTT	TGAATGTGCTTTTCTC CGA	59.9	262	INTERGENIC	--	--	--
Ca2_P3_15313880	Ca2	15313880	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATTATT/ATATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATT	GCAAAAAGCAGCGCAA TAAT	ACGAATCTAACGGTGG TTGC	60.4	360	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
Ca2_P3_15458001	Ca2	15458001	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TGTGATGTCACCATGA CAAAAA	TAGTCGAAACGTTTGC TTGC	59.9	571	INTERGENIC	--	--	--
Ca2_P3_15589036	Ca2	15589036	ATTT/ATTTT	ATACGCCCTCAACAAAT GGC	CTGCTTGCCTTGATTC CGTT	60.0	376	INTERGENIC	--	--	--
Ca2_P3_15593194	Ca2	15593194	G/GT	TGCTTCCAATCCGGTAT TTC	CAACGCTTGATGTTAG ATTGGA	59.9	789	INTERGENIC	--	--	--
Ca2_P3_15598813	Ca2	15598813	TA/TAA	GGAGGCGCATTAGATA TGGA	GCCTCGTGAGTTGCAT CATA	60.0	518	INTERGENIC	--	--	--
Ca2_P3_15812866	Ca2	15812866	TAAAAAAAA/TAAAAAAAAA	CATTGGCGGAGCTTTA CAAT	CCATGCCCACTTCAAG ATT	60.1	298	INTERGENIC	--	--	--
Ca2_P3_15904424	Ca2	15904424	TTAAATTTAAATTTAAATTTAA/TTAA AATTTAAATTTAAATTTAAATTTAA AAT	TTAGGCCGCCACAAAG TATC	GAGGGTAAAGGCATCC ACAA	60.1	524	INTERGENIC	--	--	--
Ca2_P3_15918431	Ca2	15918431	GTATATATATATATAT/GTATATATAT ATATATATAT	CTTGCCAGAAATCG GTAA	AGGATGCATGGGATGA AAAG	60.1	691	INTERGENIC	--	--	--
Ca2_P3_15920758	Ca2	15920758	GTATATATATATATAT/GTATATATAT ATATAT	TTCGGAAGTCCATCG TATC	GCAATGCTCCCCTAA TTGA	59.9	546	INTERGENIC	--	--	--
Ca2_P3_1640062	Ca2	1640062	ATTTTTTTTT/ATTTTTT	AGATCATGTGCAAAA GGGG	AGTAACCGTGAGGAA CGTG	59.9	509	INTERGENIC	--	--	--
Ca2_P3_16496636	Ca2	16496636	GTCAAAC/GTCAAATAAAAGGACTATT CAAAC	TATGGACTTTGTGGTG GCAA	TTGGCACGTAATCCCA TACA	60.0	441	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 (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
Ca2_P3_16514436	Ca2	16514436	AC/A	TGTGCTGGAAGGCAC ATAG	GTCTCCCCACTACAG TCCA	59.9	812	INTERGENIC	--	--	--
Ca2_P3_16516440	Ca2	16516440	AAGGGA/AA	CACATGGCTGAACGAG AAGA	TCGCCACCAACATCT TGTA	60.0	315	INTERGENIC	--	--	--
Ca2_P3_16604975	Ca2	16604975	TAACAACA/TAACA	CCGGTGAACAAAACG AACT	ACCCCTCAATTAACC CTGT	60.0	851	INTERGENIC	--	--	--
Ca2_P3_16623329	Ca2	16623329	GTAATAATAATAATAATAATAA/ GTAATAATAATAATAATAATAA TAATAATAA	TATGGGTCAAACCCAA AACC	TTATGCAAAGTCGAA GCAC	59.5	337	INTERGENIC	--	--	--
Ca2_P3_16665400	Ca2	16665400	T/TC	TAATTTACACACGCTCG CGA	TCGTTACTGCTGTTGT TGCC	60.3	440	INTERGENIC	--	--	--
Ca2_P3_16695716	Ca2	16695716	CTAATAATAATAATAATAATAA TAATAATA/CTAATAATAATAATAAT AATAATAATAATA	ATTTTGCCAAATTCACC GTC	CCAGCAGTAACGTTGT TGGA	59.8	449	INTERGENIC	--	--	--
Ca2_P3_16712405	Ca2	16712405	CATATATATATATATATATAT/CATATAT ATATATATATATATAT	AAATTCGCACACCACAA AAA	TGTTTAATTCGGCAAG CACA	59.1	607	INTERGENIC	--	--	--
Ca2_P3_16961941	Ca2	16961941	AATATATATATATATATATATATAT ATATATATATATA/AATATATATATATAT ATATATATATATATATATATA	AAATGGTTCATTATCG GTGT	TGAATAATTCTTGACCA TCCATGT	59.2	499	INTERGENIC	--	--	--
Ca2_P3_16998327	Ca2	16998327	ACTCT/ACT	TCATGCCGAACAAAAT TCA	CAAGGTGTGCAAGAG GTTT	60.1	345	INTERGENIC	--	--	--
Ca2_P3_17061321	Ca2	17061321	TAATATATA/TAATATATAAATATATA	TTTGGCTCGGAAGCTT TTTA	AGGAAGAGTGGAGTTG CGAA	60.0	498	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
Ca2_P3_17061679	Ca2	17061679	T/TCCA	TTCGCAACTCCACTCTT CCT	CGGTAAAAATCTCTGC TCGC	60.0	190	INTERGENIC	--	--	--
Ca2_P3_17196393	Ca2	17196393	CTTTTTTT/CTTTTTTT	CCGAGTGGAGCTCCTT ATTG	ACTTGCAATCGTCTCA AGGC	59.8	382	INTERGENIC	--	--	--
Ca2_P3_1728113	Ca2	1728113	AATTATTATTATTATTATTATTATTA TTATTATT/AATTATTATTATTATTATTA TTATTATTATTATT	GAAAAGACACACATATT TGGA	GTTTGTGTGGTTGCA GTGG	57.7	491	INTERGENIC	--	--	--
Ca2_P3_17360962	Ca2	17360962	AAG/AAAAGGTTCAGCAG	TTGTGGTTTGGACTGT GGAA	AGCTAAAGGCCCAAAG AAGC	60.0	275	INTERGENIC	--	--	--
Ca2_P3_17377695	Ca2	17377695	CAAAAAAAAA/CAAAAAAAAA	ACTCGAAATTTATGCCG CAC	AACGCACATTTTATTT GGACTT	60.1	741	INTERGENIC	--	--	--
Ca2_P3_17551687	Ca2	17551687	G/GC	ATGTGGTTGATAAGGC CTCG	AGCAAATGCAATGCTC TGAA	60.0	398	CDS (FRAME SHIFT)	Ca_16000	OE	--
Ca2_P3_17552188	Ca2	17552188	T/TTTCCTTAGTTC	TGGCAAATTTGAAGAG GACA	GGCAACATTTTCTCG CATT	59.2	583	DRR	Ca_16000	OE	--
Ca2_P3_17799541	Ca2	17799541	TTGT/TTGTGTGT	CAAAGGACATGATTGG GTGA	AAATCCCTGAACTCGT GGTG	59.3	547	INTERGENIC	--	--	--
Ca2_P3_17930071	Ca2	17930071	CAAAAAAAAA/CAAAAAAAAA	CATAAGAAGCGGGAAG GTTG	GGGTGTTACAATTGTC CATC	59.7	463	INTERGENIC	--	--	--
Ca2_P3_17994871	Ca2	17994871	TTATATATATATATATATATATATA TATATATATATA/TTATATATATATATAT ATATATATATATATATATATATATA	TGTGGCCCTATGTACT GCTG	TTGGAAGGAGCCCTTA CCTT	59.7	799	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 (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
Ca2_P3_18101343	Ca2	18101343	A/AT	ACTGCGGTGAATCCTT TACG	AATTCCTCCACACA ACCA	60.1	469	INTERGENIC	--	--	--
Ca2_P3_18159995	Ca2	18159995	TTTATTATTATTATTATTATTATTAT TATTATTA/TTTATTATTATTATTATTAT ATTATTATTATTA	AGGGACACCTCATTTG TTCG	GAAGCGACCACCTGAA GAAC	60.0	510	INTERGENIC	--	--	--
Ca2_P3_18170028	Ca2	18170028	C/CTA	AGCCAAGTCCCTGTTA CCCT	TTGTCCGTGAAAGACT GCAC	60.0	395	INTERGENIC	--	--	--
Ca2_P3_18243615	Ca2	18243615	CATATATATATATATATATATATATAT AT/CATATATATATATATATATATATAT TAT	AATGGCTTGGCTTATGT TGG	TGAGCTTGCAATGAGT TGTTT	60.0	479	INTERGENIC	--	--	--
Ca2_P3_1835747	Ca2	1835747	TTATATATATATATATATATATATAT/ TTATATATATATATATATAT	CACAATGCACCATGTG ACAA	TGGAAGTGAAGCCATA TCCC	60.0	831	INTRON	Ca_12601	--	--
Ca2_P3_1842322	Ca2	1842322	AG/AGGCAGG	CGGCTTCTGACACACA AAGA	CTAAATGCAGAAAAAG CCGC	60.0	395	INTRON	Ca_12600	--	SBP
Ca2_P3_1853896	Ca2	1853896	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TGAGTCCGCTTCCCA TTAC	TTGAGCACGACTTTTT GCAC	60.1	536	INTERGENIC	--	--	--
Ca2_P3_18610007	Ca2	18610007	TAA/TAACAA	TTGATCCCTTATTTCT GCG	TTATTTACCGTCGTG TCCA	60.0	492	INTERGENIC	--	--	--
Ca2_P3_18752437	Ca2	18752437	GAATAATAATAATAATAATAATAAT AATA/GAATAATAATAATAATAATAA TAATA	TTTGCCCAATGAATGT TGA	GCCTGGCTGTACTTTG GATT	59.9	558	INTERGENIC	--	--	--
Ca2_P3_18764616	Ca2	18764616	GAATAATAATAATAATAATA/GAATA ATAATAATAATAATA	ATTTCCTCCCTCAACC TTT	TGCTTCATGGGTGCA TTGT	59.9	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 (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
Ca2_P3_18833380	Ca2	18833380	TAAAAAAAAA/TAAAAAAAAA	TCGAAAAATCCCTTGAA AAAGA	GGACCTATCAAGTGAG CTTG TG	60.0	551	INTERGENIC	--	--	--
Ca2_P3_18905246	Ca2	18905246	GTTTTTTTTT/GTTTTTTTTT	TGTGAGCTCAATTATTG GAACAG	TACTCAACCACCACCG TCAA	59.3	595	INTERGENIC	--	--	--
Ca2_P3_19219016	Ca2	19219016	ATTTT/ATTT	CCCGTGAGATCCTCCT AACA	TGAATCTACGGCTTTC TGGG	60.1	498	INTERGENIC	--	--	--
Ca2_P3_1935888	Ca2	1935888	CAAAAAAAAA/CAAAAAAAAA	CGAATTTTAAGACCACC CAAA	ACATGCAATTGTGTGC CTTC	59.0	398	INTERGENIC	--	--	--
Ca2_P3_19387244	Ca2	19387244	TTATATATATATATAT/TTATATATAT ATATATATAT	CGACATTGTAGCACCC CTTT	TTAGATCCCTTGAC GACC	60.0	191	INTERGENIC	--	--	--
Ca2_P3_19513567	Ca2	19513567	TG/T	GCCCTGAGTCAATAC CAAA	ATCGCCAACATTCAA CAAA	59.9	615	INTERGENIC	--	--	--
Ca2_P3_19574229	Ca2	19574229	GGAGA/GGA	ACCGGAGAAGAGAAAT GGGT	TTGGCTAGTCCACCAT CTCC	59.9	761	INTERGENIC	--	--	--
Ca2_P3_19772797	Ca2	19772797	CT/CTT	GTTTAGGCACGTAGGG ACCA	CGTTTAATTCGGGAC TGGA	60.0	417	INTERGENIC	--	--	--
Ca2_P3_19791685	Ca2	19791685	C/CG	TAGGCCATTTTCGTCTC CAC	AATCCAATGACACAAA CGCA	60.1	392	INTERGENIC	--	--	--
Ca2_P3_20175480	Ca2	20175480	GATATATATATATATATA/GATATATA TATATATATATATA	TTTCAGAGTGTCTGTG GTTAGCA	GATCTGAGGTGTCTAG GGCT	60.0	669	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
Ca2_P3_20233917	Ca2	20233917	ACATAATCATAATCATAAT/ACATAATC ATAATCATAATCATAAT	TTTTCAGCTTTGCATT TTG	GCCATGACAAAGAGGG AGAA	60.0	930	INTERGENIC	--	--	--
Ca2_P3_20348649	Ca2	20348649	AATATATATATATATATAT/AAATATAT ATATATATATATATAT	TTCGTGGTTTACAAAAT TCAATACA	GGTCGAAATTGGTGTT GGTC	59.7	664	INTERGENIC	--	--	--
Ca2_P3_20474785	Ca2	20474785	GAAAA/GAAAAA	ATACTGGCTCGGAGGC TTTT	CGTAGCGTGGTAGTA GCAA	60.2	614	INTERGENIC	--	--	--
Ca2_P3_20544865	Ca2	20544865	CATATATATATATATATATATATATAT ATATAT/CATATATATATATATATATATA TATATATATATATATAT	AGGAAGAGTGGAGTTG CGAA	CCAAGCATCATCTCC GTTT	60.0	720	INTERGENIC	--	--	--
Ca2_P3_20647114	Ca2	20647114	AATATATATATATATATAT/AAATATAT ATATATATATATATAT	ATCACTCGCACACAAA CCA	TTGGAAGGAGCCCTTA CCTT	60.2	920	INTERGENIC	--	--	--
Ca2_P3_20649381	Ca2	20649381	GAAAAA/GAAAA	ATATTGGCTCGGAGGC TTTT	AAATGGGAGAAGGAG GGAGA	60.1	385	INTERGENIC	--	--	--
Ca2_P3_20715795	Ca2	20715795	T/TCATCA	GACATTGCATTTTGGAC ACG	AAATGGATTTCAGCCA ATCG	60.0	539	INTERGENIC	--	--	--
Ca2_P3_2080611	Ca2	2080611	TAAA/TAAAA	AAGCGATGACTGTGTG CTTG	AACCTCTCCTCGATCA CCCT	60.1	376	INTRON	Ca_12572	O	B3
Ca2_P3_21000306	Ca2	21000306	TTCCAATC/TTC	GCCATGTCAAAGTATC GCCT	GCCCGTATTACCAA TGTC	60.1	431	INTERGENIC	--	--	--
Ca2_P3_21163296	Ca2	21163296	CAAAAA/CAAAAA	GGCCACAAACTGGGAA GTTA	CCCTGTGACAAACACA ATCG	60.0	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 (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
Ca2_P3_21308575	Ca2	21308575	TTTTCTT/TTTTCTTTGTTTCTATTTC CTT	TTTCGAAGCAACGAGG AAGT	TTGGTATTGAACTCGG AGGC	60.0	474	INTERGENIC	--	--	--
Ca2_P3_21308629	Ca2	21308629	CAAA/CAA	TTTCGAAGCAACGAGG AAGT	TTGGTATTGAACTCGG AGGC	60.0	474	INTERGENIC	--	--	--
Ca2_P3_21308673	Ca2	21308673	TAA/TCAA	GTTGGTTCCTAGCAC CGTA	AAATTCGACTTCCGT CCCT	60.0	905	INTERGENIC	--	--	--
Ca2_P3_21309961	Ca2	21309961	A/AT	AGCCTTGGGTTTCTTT GTT	CAATTGAGTTGCGAGC AGAG	60.0	294	INTERGENIC	--	--	--
Ca2_P3_21314611	Ca2	21314611	AG/AGG	CAAACCTTTCAAGGT GCAT	GCACTGCCCCAAGAAT TTTA	60.0	443	INTERGENIC	--	--	--
Ca2_P3_2140867	Ca2	2140867	TCACACACACAC/TCACACACAC ACACAC	TGAAATCAAATCCATC GCA	TCGATTAAATGAATGA ATGTCG	60.0	642	INTERGENIC	--	--	--
Ca2_P3_2169056	Ca2	2169056	C/CG	AACCTCTCCAAGAGGA TCGG	GGAGAGTGAAACGGAT GGAA	60.6	648	INTERGENIC	--	--	--
Ca2_P3_2169184	Ca2	2169184	GTTTT/GTTT	TCTCACGGTTTCAACTT CCC	GTCTGATGGAGGAGG CAGAG	60.1	447	INTERGENIC	--	--	--
Ca2_P3_21695844	Ca2	21695844	GTTATTATTATTATTATTATTATTAT TAATATTATTATTATTATTA/GTTATTAT TATTATTATTATTATTATTATTAATA TTATTATTATTATTA	GATGAAATTCAGGCTC GCTC	TTGACAAGGGAAAACC TTGC	59.9	444	INTERGENIC	--	--	--
Ca2_P3_21699071	Ca2	21699071	AAATAATAATAATAATAATAAA/AAAT AATAATAATAATAATAATAATAATA A	GGCCTAGGCAAAAATT AGGG	AGGTTGCCCTTTTCAGG TTTT	59.9	210	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
Ca2_P3_21717164	Ca2	21717164	T/A/T	GGTAGAGGCAGGCCAT ATCA	GATTGTGAGGGATT TTCAGC	60.1	841	INTERGENIC	--	--	--
Ca2_P3_2174282	Ca2	2174282	ATTTTTTTTTTTT/ATTTTTTTTTTT	TGACATCCATCTTATGT GGGTC	GGTCTACTCATGTTGA AAGACGC	59.7	674	INTERGENIC	--	--	--
Ca2_P3_21798248	Ca2	21798248	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	AGCTTTGATTCTCCAT CGC	TCAATCGAGTCACCAC CAAA	59.4	370	INTERGENIC	--	--	--
Ca2_P3_21865327	Ca2	21865327	TTATATATATATATATATATATATATATATATAT TAT/TTATATATATATATATATATATATATATAT T	AACACCAGTGACTTCC CCG	AACGAAGTGGTATCTT CCTATTGAA	59.9	884	INTERGENIC	--	--	--
Ca2_P3_21889862	Ca2	21889862	G/GGT	CGATGTTAGTGGTGAC CGTG	CTGCTTGAGATGGCGT TGTA	60.0	606	INTERGENIC	--	--	--
Ca2_P3_22111543	Ca2	22111543	T/TA	ATTCCCCCTTCATCTTG GAC	AAATTAAGTTTCAAAC CACGG	60.1	522	INTERGENIC	--	--	--
Ca2_P3_22286038	Ca2	22286038	GAAGCGC/GAAGCGCACCCAAGCGC	GGGAGGCAACCCAATT TTAT	GCTTAGATCATCCGCT CCTG	60.0	368	INTERGENIC	--	--	--
Ca2_P3_22455964	Ca2	22455964	GTATATATATA/GTATATATATATA	AGCGCTGTAAATGTC CACC	CTGGGCAAGGGATCTG AATA	60.1	470	DRR	Ca_14999	--	Trihelix
Ca2_P3_224634	Ca2	224634	TCATTTATAGCATTATAG/TCATTTATAG G	GTTGGGTCACCGTTTC ACTT	GCTCAACATTGTTGC CTTT	59.9	657	INTRON	Ca_16974	--	--
Ca2_P3_22468520	Ca2	22468520	CAAAAAAAAA/CAAAAAAAAA	TGGCCATGTGCATTGT TTAT	AGGCATCAACGCCTAA ATTG	59.8	674	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 (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
Ca2_P3_22500042	Ca2	22500042	ANNNNNNNNN/ANN	CGTTCTGCATTCTGGT TCC	ACTTTTCACCATGTCC CTCG	60.6	180	INTERGENIC	--	--	--
Ca2_P3_22517081	Ca2	22517081	ATTTTTTT/ATTTTTTTT	TGTGCAATTTCTCCACC AAA	CAGTTAACAGCCACCT TCCA	60.1	149	INTRON	Ca_14997	G	--
Ca2_P3_22527944	Ca2	22527944	TAAAAAA/TAAAAAAA	TGCTCCCTCATTCTCC ATT	ATCTTGAGCCCCCTGA TCTT	59.6	713	INTERGENIC	--	--	--
Ca2_P3_22579550	Ca2	22579550	CT/CTTT	CTAAGCCCTCACAAAG GCAG	AGTTGAAGCTTCTGGG ACGA	60.0	292	DRR	Ca_14994	--	--
Ca2_P3_22650634	Ca2	22650634	TG/T	GAGAGGAGGGTTCCCA GAGT	GTGCATCCTCCATCTT TGGT	59.7	550	DRR	Ca_14991	--	--
Ca2_P3_22667401	Ca2	22667401	TAAAA/TAAA	ACCAAAGATGGAGGAT GCAC	CCCAGAACTCAGGTTT CACC	59.9	258	INTERGENIC	--	--	--
Ca2_P3_22682677	Ca2	22682677	A/AATAATAATT	CCCGTCAATTTTGA GGT	CAATTCCACAGGTAC GCTT	59.8	762	INTERGENIC	--	--	--
Ca2_P3_22779378	Ca2	22779378	T/TAAA	TGAACCAGTCACCAAAA CCA	TGCCTATGTCACCAAT TCCA	60.0	722	INTERGENIC	--	--	--
Ca2_P3_23050911	Ca2	23050911	AATG/AATGGTCTATTGGCTTATG	TATGGGATCGGAAAT CAAA	ACAATCGAAATTTAG GCCG	60.1	907	INTERGENIC	--	--	--
Ca2_P3_23058191	Ca2	23058191	GTTTTTTTTTT/GTTTTTTTTTTT	GAAACTGTGTCACGAG GCAA	AGAGCCGTCCAGAAAA ATCA	59.9	121	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 (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
Ca2_P3_23183113	Ca2	23183113	TAAAAA/TAAAAAA	TGGATACATATGCCGC TCAA	ACCGTGGACCACCTT GATA	60.1	565	DRR	Ca_14971	--	--
Ca2_P3_23193466	Ca2	23193466	TA/T	CCACAAATGCTCATCGT GAC	TTTGACGCCACAAAAG ACAG	60.1	561	INTERGENIC	--	--	--
Ca2_P3_2345426	Ca2	2345426	GG/GGTTCAg	GGACAAAGCTGCAATG ATGA	ACAGAAACATGCCAAC TCCC	59.8	381	INTRON	Ca_12544	S	BBR-BPC
Ca2_P3_23472039	Ca2	23472039	CTTTATTTATTTATTTATTTATTTA TTTATTTAT/CTTTATTTATTTATTT ATTTATTTATTTATTTATTTATTTA T	TTTTGCTAACCACACCC CTC	TGACCACGTGTTTTTG GGTA	60.0	434	INTRON	Ca_14958	--	--
Ca2_P3_23495114	Ca2	23495114	ATTTTTT/ATTTTTT	GCTCCCATGAGCACT AGAA	AGGCTCTCAATGCCAA CCTA	60.4	710	INTERGENIC	--	--	--
Ca2_P3_23509535	Ca2	23509535	AAAACTTAAACTTAAACTTA/AAAA CTTAAACTTA	CCCTCTTGAATTTTGT TTTC	CCCACCCCTCGACTA AAGA	59.0	542	INTERGENIC	--	--	--
Ca2_P3_23819744	Ca2	23819744	ATTT/ATT	TTGTTGTAGGGCACATT GGA	TGTTCTGTTTGACGAGA GCAC	60.0	391	DRR	Ca_14945	--	--
Ca2_P3_2388005	Ca2	2388005	GTTTTTTTTT/GTTTTTTTTT	GCCAAACAGTTACGA GCTA	CTTGCTAAATGCCCA CTTC	59.0	581	INTERGENIC	--	--	--
Ca2_P3_23926547	Ca2	23926547	CAAAAAAAAAAAAA/CAAAAAAAAAA AAAAA	GGCCATTATTTGGATG GATG	CAAAATTGCTCGCATC TTCA	60.0	875	INTERGENIC	--	--	--
Ca2_P3_23932608	Ca2	23932608	TAAATTAATGAATAAAATTAAT/TAAAT TAAT	AAGGCATCCAATCAA GCAC	CTCAAGATTTTAGCGC CGTC	60.1	460	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
Ca2_P3_23989802	Ca2	23989802	AAAAACAAAACAAA/AAAAACAAAACA AAACAAA	AATTCGTTGAGCCGGT CTAGT	AGCACGGGGAGTATGA GAAA	60.1	421	INTERGENIC	--	--	--
Ca2_P3_23990182	Ca2	23990182	AAAAACAAAACAAA/AAAAACAAAACA AAACAAA	TCTCATACTCCCCGTG CTTT	ATCCCCTACACCAGAT GCAC	59.7	565	INTERGENIC	--	--	--
Ca2_P3_24019689	Ca2	24019689	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	TGCCTTGAACAACCACT GTC	CCTTTCAGAGAATCGT GGGA	59.7	584	INTERGENIC	--	--	--
Ca2_P3_24102909	Ca2	24102909	GT/GTT	TGGGGGATCCAAGTTA AAAA	GAAACTCTCCGGCAT TCAA	59.2	428	CDS (FRAME SHIFT)	Ca_21670	S	--
Ca2_P3_24251584	Ca2	24251584	ACCCCC/ACCCCCC	GATTGCTTTCTGGTG GAAA	TGATCAACCCTTGGTG TGAA	60.1	652	INTERGENIC	--	--	--
Ca2_P3_24252139	Ca2	24252139	TAA/TAAGAAA	GATCCTCAAATCGACCT CCA	TGTCAACATTGGTCTC CAAA	60.0	465	INTERGENIC	--	--	--
Ca2_P3_24393200	Ca2	24393200	G/GAAGATA	TCCTAGAACATGCATCA CGC	TACCCTTGCTAGCCC CTTT	59.8	505	INTERGENIC	--	--	--
Ca2_P3_24685078	Ca2	24685078	TAAAAAAAA/TAAAAAAAA	TTCCACACTCCTTCAGC CAT	CCAACAAATGGAGAAG CCAT	60.7	665	INTRON	Ca_22893	--	--
Ca2_P3_24687137	Ca2	24687137	ATTTTTTTTT/ATTTTTTTTTTT	TGCTCAAATTATCCGGT GAAA	TGAAATTGAGATAACT GACGTGC	60.4	664	INTERGENIC	--	--	--
Ca2_P3_24943252	Ca2	24943252	CTTT/CTT	AACCCCTCAAAGAAC GACT	AGGGCCCCACTAATC CTTA	60.0	680	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 (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
Ca2_P3_24948166	Ca2	24948166	CTTTTT/CTTTT	GGTGAGACTTTCGAGG GCTA	GGCATTGAACGTTTT ACAA	59.4	295	INTERGENIC	--	--	--
Ca2_P3_24948276	Ca2	24948276	GAAAA/GAAA	AAACGTCCAAGGTAAG GGCT	GGCATTGAACGTTTT ACAA	60.0	255	INTERGENIC	--	--	--
Ca2_P3_25025231	Ca2	25025231	TAA/TA	CAGCCACCCACCTACA AAGT	ATAGCACCAACAAACC CAGC	60.0	829	INTRON	Ca_14236	--	CO-like
Ca2_P3_2506639	Ca2	2506639	T/TAATAATAA	GCGACTTTATCGCCTA GCAC	GGGTGTGTATGGCTTC CAAT	60.0	912	INTERGENIC	--	--	--
Ca2_P3_25078728	Ca2	25078728	GATATATATATATATATAT/GATATAT ATATATATATAT	TCACAACAAAGGAAATG ATTCAA	TTGCACACATAAAGTG TTCGG	59.5	503	INTERGENIC	--	--	--
Ca2_P3_25084292	Ca2	25084292	CTTTTTT/CTTTTTTT	GAACAGCGAGAATGT GCAA	GCGCGTCTTTTATAGC GTTT	60.0	768	INTERGENIC	--	--	--
Ca2_P3_25135786	Ca2	25135786	GTT/GTTT	GGAAGCTGACTTTTTG GCAT	TGGCTTGATTCTTTT GCTT	59.3	160	INTERGENIC	--	--	--
Ca2_P3_25290391	Ca2	25290391	A/AGAAGG	AGGGTTGAAGCATTTG ATGG	CCCTCCAGAGAAAAGC AGAA	59.9	356	DRR	Ca_14263	R	C3H
Ca2_P3_25444353	Ca2	25444353	CAAA/CAA	AAAATACCGTGCCGTTT CTG	TGAGAAGTTGGTGTGC TTGC	60.0	475	DRR	Ca_14272	Q	B3
Ca2_P3_2546989	Ca2	2546989	AT/ATCATAGTTT	CCCGTCGATCAAAAGA AAAA	TTGAATTGCTTCCAGT GTCC	60.0	705	INTRON	Ca_10592	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 (°C)	Expected 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_P3_25527401	Ca2	25527401	GATAATAATAATAATAATAATAATA ATAATAA/GATAATAATAATAATAAT AATAATAATAATAATAA	ACCCTTCAATTTCGACA TGC	CCAATTGGAATTGCA ACAA	59.9	598	INTERGENIC	--	--	--
Ca2_P3_25529864	Ca2	25529864	GTTTTTT/GTTTTTTTTT	AGCAGCCCAAGCAAGA CTTA	TCATGCCGATTGATAG AGGTT	60.2	553	INTERGENIC	--	--	--
Ca2_P3_25530031	Ca2	25530031	A/ATACCCTTG	AGCAGCCCAAGCAAGA CTTA	ATCCGACCGTTGAAGA TTTG	60.2	724	INTERGENIC	--	--	--
Ca2_P3_25535050	Ca2	25535050	CTT/CTTCTTTTTTT	CCAGATTGAACTGGG GAAA	AATCAAGTGGGTTCGA GTGG	59.9	551	DRR	Ca_14283	R	MYB
Ca2_P3_25554310	Ca2	25554310	TTGTGTGTGTGT/TTGTGTGTGT	ATGCGGCAGGTATGAG AACA	ATATCAACGCCCTTT GCAT	61.6	473	INTERGENIC	--	--	--
Ca2_P3_25567949	Ca2	25567949	TTGTGTGT/TTGTGT	CATATGCCAACTGGC TTGG	TCAACCTTTTGAAATTA TTTGCC	60.1	363	DRR	Ca_14285	R	bZIP
Ca2_P3_25733071	Ca2	25733071	GGCCGC/GGCCGCCGC	CTCAGAAAGCGGATCA AAGG	CTCAACCAACCACCA CTCT	59.9	477	INTERGENIC	--	--	--
Ca2_P3_25791084	Ca2	25791084	ATTTTTTTTTTTTT/ATTTTTTTTTTT T	GCAAGTTGAGCCTCAT GGAT	GCCTCGGTTGAAAATT GAAA	60.2	452	INTERGENIC	--	--	--
Ca2_P3_25845983	Ca2	25845983	TGG/TG	AGTGTTTTGAGGGTCA TCCG	ATTCCATGCTTGCTATT CGG	60.0	647	INTERGENIC	--	--	--
Ca2_P3_26043745	Ca2	26043745	AGGG/AGG	AAATTGTCACCGCCTCA TTT	ACCCAATGATTCGTCC AAAA	59.4	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 (°C)	Expected 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_P3_26109346	Ca2	26109346	AATATATATATATATATATA/AATATA TATATATATATATATATA	GGGTGAACCAAAAGAG AGCA	TCCACAACAATAGGC ACAA	60.2	962	INTERGENIC	--	--	--
Ca2_P3_26113486	Ca2	26113486	CTTTTTTTTTTT/CTTTTTTTTTTTTT	AGGAGTGTGTAGGGT CACG	GATGCGAGTTTCTCCA AACC	60.0	137	INTERGENIC	--	--	--
Ca2_P3_2624920	Ca2	2624920	CGGCTGGCT/CGGCT	GGCCAAGTGTCTGAAG GATA	CGCTAAGAGGCCGTTA TCAA	60.2	610	INTRON	Ca_10586	--	--
Ca2_P3_263972	Ca2	263972	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TTGGGATTA AAAACCCA TTCC	TGCACGTTCTTCTCCT CCTT	59.9	467	INTERGENIC	--	--	--
Ca2_P3_26480524	Ca2	26480524	GAAAA/GAAA	ATGGGGAAAATTAACC CAGC	GTACGTGGAAGGAAAG CGTC	60.0	612	INTERGENIC	--	--	--
Ca2_P3_26488356	Ca2	26488356	C/CAT	TAACCAAGCCATTAAGG CGTC	GCCACTCAAACAACCA TCCT	60.1	565	INTERGENIC	--	--	--
Ca2_P3_26504194	Ca2	26504194	AGG/AG	CCGACGTCCAGTCAGA ATTT	GGATTGGAGTTGGTTG GATG	60.1	319	INTERGENIC	--	--	--
Ca2_P3_26516638	Ca2	26516638	ATTTTT/ATTTTTT	AGGGTTTCTCACCCATT TCC	GCAGCTTCTTCCCGTT GTAG	60.2	552	INTERGENIC	--	--	--
Ca2_P3_26570798	Ca2	26570798	GAAAAAAAAA/GAAAAAAAAA	GGTGGGCATGAGATGA GAGT	TTTACGGGGAAGAGAA GTGC	60.1	782	INTERGENIC	--	--	--
Ca2_P3_26811414	Ca2	26811414	TAAAAAA/TAAAAAA	GGGCTTGTTTGATTGT GTTT	GGCTCCATTCTTGCT CTTG	59.0	584	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 (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
Ca2_P3_2692293	Ca2	2692293	ATTTTTTTT/ATTTTTTT	AAAGGTGATGAAGCAG ATTTTGA	TGGTGCCTCTCTTCT CTAATCG	60.1	478	INTERGENIC	--	--	--
Ca2_P3_27240694	Ca2	27240694	GTATATATATATATATATATAT/GT ATATATATATATATATATAT	CCAAAGTTGGATTCAAA GTGAAG	CTGGAAGGGGAGATTG TTGA	60.0	921	INTERGENIC	--	--	--
Ca2_P3_2726175	Ca2	2726175	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	CGTTTCGGGTTTCGTA AAAA	TTGTTGACAATTCGAT CCAAAG	60.0	302	DRR	Ca_10571	Q	B3
Ca2_P3_27420609	Ca2	27420609	CATATATATATATATATATATATAT AT/CATATATATATATATATATATATA TATATAT	TTTAGATCCCTTGACAG ACC	CTTCGACACTGTAGCA CCCA	60.1	204	DRR	Ca_15661	--	--
Ca2_P3_27526456	Ca2	27526456	TTATATATATATATATATATA/TTATA TATATATATATATATATATA	CGAGCCCAAAATCCAA AATA	CTCAATGCGGGTTTAC GATT	59.9	485	INTERGENIC	--	--	--
Ca2_P3_27628273	Ca2	27628273	ATTTTTTTTT/ATTTTTTTTTT	ATGTGCAACTGCCACC AATA	TTGTGGGTGATTGAAT GTGC	60.0	486	INTERGENIC	--	--	--
Ca2_P3_27647945	Ca2	27647945	T/TC	ATGATTTGGAGCCATTC CAG	CAAGTCAGTGGCCAAA ATCC	59.9	244	INTERGENIC	--	--	--
Ca2_P3_27715399	Ca2	27715399	AATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATATAT	AAGTCGCATCACCGAT ATTGT	CAAGGCGATTGAATT GGTT	59.5	372	INTERGENIC	--	--	--
Ca2_P3_27729659	Ca2	27729659	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATATA TATATATATATAT	TTTGGGCTACTTTCCA CTG	GGGATTGAATATATGG TCCCG	60.1	712	INTERGENIC	--	--	--
Ca2_P3_27776478	Ca2	27776478	GTTTTTTTTT/GTTTTTTTTT	CAATGAACCTTGGTCAAC CCC	GCCCATGTCTGCATAG TAACAA	60.2	407	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
Ca2_P3_27776538	Ca2	27776538	TAAAAAA/TAAAAA	CAATGAAC TTGGTCAAC CCC	CCCCATGTCTGCATAG TAACAA	60.2	407	INTERGENIC	--	--	--
Ca2_P3_27826409	Ca2	27826409	TG/TGG	TATTGGGGGATTTTGG TTGA	CCCCTTATAAGGGCT GCAA	60.0	310	INTRON	Ca_15681	U	--
Ca2_P3_28037628	Ca2	28037628	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATAT TAT	CTAGTGTTCACGGGT CAAA	CATAACGAATTCTCCC ACCG	59.8	768	INTERGENIC	--	--	--
Ca2_P3_28064133	Ca2	28064133	GTATATATATATATATATAT/GTATATAT ATATATATATATATATAT	TCAAAATGCCACAATTC CAA	ACATATACCATTTGGGG CGAT	59.9	612	INTERGENIC	--	--	--
Ca2_P3_2807369	Ca2	2807369	ATTTT/AT	TTGGCTTCTTTGGCAA GTCT	CACCATCATCATCGCT CATC	60.0	756	CDS (large-effect mutations)	Ca_10561	Q	Nin-like
Ca2_P3_28104611	Ca2	28104611	GGAGAGAGAGAGAGAGAGAGAGAGA G/GGAGAGAGAGAGAGAGAGAGAGAG AGAG	TCGTTTCTCCTCAATTT GTGTG	CTTCGGAAGTCTCCAC TCCA	60.1	499	INTERGENIC	--	--	--
Ca2_P3_28202546	Ca2	28202546	TATAATAATAATAATAATAATAATA ATAATAATAATAAT/TATAATAATAATA TAATAATAATAATAATAATAATAAT	TGAACCATCCCTTAT GCTT	CCATGAATGAGAGTGC AAAGG	59.4	632	INTERGENIC	--	--	--
Ca2_P3_28203929	Ca2	28203929	CTCTTCATCT/CTCTTCATCTTCATCT	GACCACGGCACTTCAA ACTT	AACGAACCGTCCATCT CAAC	60.2	153	INTERGENIC	--	--	--
Ca2_P3_28262473	Ca2	28262473	GAA/GAAAA	CTGAGACACGGCGACA ATAA	ATCGGAGCAATTCTGC ATTC	59.9	305	INTERGENIC	--	--	--
Ca2_P3_28365177	Ca2	28365177	AATATATATATATATATATATAT/AA TATATATATATATATATAT	TCGGTCTCCTCATTTGA TCC	GGGCCACATGTAATGC TTCT	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 (°C)	Expected 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_P3_28421823	Ca2	28421823	GTTTTT/GTTTTTTT	CTACACCCCAAAACCT CCA	TGTATTGTGGACCAGC CTCA	59.8	500	INTERGENIC	--	--	--
Ca2_P3_28464988	Ca2	28464988	TAAAAAAAA/TAAAAATAAAAAAAAA	TCATCGCAGGTGTACC ATGT	AACATTGCACCGGTTT GATT	60.0	414	INTERGENIC	--	--	--
Ca2_P3_28465098	Ca2	28465098	CAAAAAAAAA/CAAAAAAAAAAAAA A	TCATCGCAGGTGTACC ATGT	AACATTGCACCGGTTT GATT	60.0	414	INTERGENIC	--	--	--
Ca2_P3_28465231	Ca2	28465231	CAAAAA/CAAAA	TCATCGCAGGTGTACC ATGT	GGTATCAGAGCCCACT ATGT	60.0	908	INTERGENIC	--	--	--
Ca2_P3_28465620	Ca2	28465620	A/AT	AGCTCCATTGCAAAAC ACC	GCAATTCCACAGGTA TGCT	60.1	553	INTERGENIC	--	--	--
Ca2_P3_28585157	Ca2	28585157	GTATTATTATTATTATTATTA/GTATTAT TATTATTATTATTATTA	CCTCAACTCGTTCAAAG GGA	AAAACCTCACCAAAATG CCG	60.2	650	DRR	Ca_14363	--	--
Ca2_P3_28617666	Ca2	28617666	TTTTATTTATTTATTATT/TTTTATTTAT TTATTATTATTATTATT	ATCGACTCCCGAACTC AAAA	CCACGGTTCTTAGAGC CATTA	59.7	621	INTERGENIC	--	--	--
Ca2_P3_2862408	Ca2	2862408	CAGT/CAGTAAGT	TCCAGAATGTTTCATGGT TTGAG	TTGGAATCATGGAAAG ACACC	60.0	522	DRR	Ca_10558	--	ERF
Ca2_P3_28723744	Ca2	28723744	AAAAACACACA/AACA	AAAAAGCGCTGTTCAAT TCAA	AAAAAGCCTCCACCAA AGGT	59.9	511	DRR	Ca_14359	R	--
Ca2_P3_2887257	Ca2	2887257	ATTTTTTTTT/ATTTTTTTTTTT	AATCGAGACAAATTCG GGTG	GAGTAGGGCACTCTAG CACCTT	59.9	322	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 (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
Ca2_P3_28874011	Ca2	28874011	CTTT/CTT	TGATGGAATGCAATGA AATGA	TCCGTGCATGCCATAA TCTA	59.9	386	INTERGENIC	--	--	--
Ca2_P3_28937196	Ca2	28937196	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT	TTTGAAAGTACGTGGC CAGA	TGTTATTGGGTCAGGG GAAA	59.3	585	INTERGENIC	--	--	--
Ca2_P3_28984959	Ca2	28984959	CT/CTT	TTGACATTGCTCGTTCC TTG	TGGATGTCATTGATGA TCCTTT	59.8	848	INTERGENIC	--	--	--
Ca2_P3_28989281	Ca2	28989281	AAGAGAGAGAGAGAGAGAGAGA/A AGAGAGAGAGAGAGAGAGAGAGA	TCGACCCGGTAAATGA GAAG	GGAACAGGTTCTTCCA CCAA	60.1	914	DRR	Ca_14339	K	MYB
Ca2_P3_2907015	Ca2	2907015	AATATATATATATATATATATA/AATA TATATATATATATATATATATA	TTTCTCTGTGTTTATTG TGCGTT	TTTTTGACTGACGCCT CAAAT	58.9	577	INTERGENIC	--	--	--
Ca2_P3_29072040	Ca2	29072040	ATCTGCAGACTTT/ATCTGCAGACTTTC TGCAGACTTT	TTGCTGGCAGAACAAAT CAAG	TGTGGGAAGCACCATG TTTA	60.0	546	DRR	Ca_14332	--	--
Ca2_P3_29072081	Ca2	29072081	TTATATATATATATATATATATATA TA/TTATATATATATATATATATATA ATA	TTGCTGGCAGAACAAAT CAAG	TGTGGGAAGCACCATG TTTA	60.0	546	DRR	Ca_14332	--	--
Ca2_P3_29172910	Ca2	29172910	CTTTTTTTTTTT/CTTTTTTTTTTT	CATGTCATAGGCAATGT GGC	GTTTTGACGACCGCGT AGAT	60.0	807	INTERGENIC	--	--	--
Ca2_P3_29184413	Ca2	29184413	GAAAAAAAA/GAAAAAAAAA	TGGTGGGTGATTGCTG ATTA	AAGATTGGAACCTGGG CCTT	59.9	435	INTERGENIC	--	--	--
Ca2_P3_29195958	Ca2	29195958	CATATATATATATATATA/CATATATA TATATATATATA	TTGTTTCGGAGGGTTG ACTC	CCACCGATTGAAACAT ACCA	60.1	612	DRR	Ca_14321	PT	C3H

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
Ca2_P3_29215461	Ca2	29215461	TTAT/TTATAT	TACTTTAGCAACCACTGCT	ATGACTCCAACACCATGCCT	59.8	873	INTERGENIC	--	--	--
Ca2_P3_29220253	Ca2	29220253	GATATATATATATATATATATA/GATATATATATATATATATATATA	AGGCATGGTGTGGAGTCAT	CTAGTCGTAACCCGTGCGT	60.4	253	INTERGENIC	--	--	--
Ca2_P3_29239996	Ca2	29239996	TAAAA/TAA	GGCTGCTGATCCTGTTCTTC	CTGACGGACGGACTCATTTT	60.0	482	INTERGENIC	--	--	--
Ca2_P3_29240150	Ca2	29240150	TC/TCACC	CTTAGAGCATCTCCAAGGC	GAAGCATCGTTCCTTCCTGA	60.0	134	INTERGENIC	--	--	--
Ca2_P3_29240382	Ca2	29240382	TCCC/TCC	CTTAGAGCATCTCCAAGGC	CCTTGCACTATCATTTTCGGA	60.0	803	INTERGENIC	--	--	--
Ca2_P3_29252004	Ca2	29252004	GTT/GT	TCAAAGGTGCACTCTTGCTATT	TGGCTTCGGAAAGACTAAA	59.0	502	INTERGENIC	--	--	--
Ca2_P3_29356033	Ca2	29356033	CTTTTTTTTT/CTTTTTTTTT	TGAAGTCAACCCGTCACTG	AGGTGCAATTCATCTACCG	59.7	638	INTERGENIC	--	--	--
Ca2_P3_2941315	Ca2	2941315	GGG/GGGCCGG	CAAACCCATTGGTCCCCTTA	AAGTTTGAATCTTGAGGGTGG	59.7	695	INTERGENIC	--	--	--
Ca2_P3_29417303	Ca2	29417303	TA/TAA	CCCAGAAATCGATTAGGCAA	TCAACGTTCTTTTGGTTCA	60.0	522	INTERGENIC	--	--	--
Ca2_P3_29427514	Ca2	29427514	GAAAA/GAAAAA	TTCAAACCCCTTTCTTGTG	TGGAAATCGTTTGTCTTGA	59.9	735	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
Ca2_P3_29444244	Ca2	29444244	ATTTT/ATTTT	AAATCCGACTGTCTAAC CCG	TTTTCCTCTCCAATTA GTCCAA	59.1	826	INTERGENIC	--	--	--
Ca2_P3_29445834	Ca2	29445834	CG/CGACTG	TCACCCACACTCTCAAT CCA	CCCTACCTAGGGGTGG ACAT	60.1	419	INTERGENIC	--	--	--
Ca2_P3_29445927	Ca2	29445927	AACCCGAACCC/AACCCGAACCCACCC GAACCC	TGTCTAACCCGTCTAAC CCG	CCCTACCTAGGGGTGG ACAT	60.0	138	INTERGENIC	--	--	--
Ca2_P3_29458705	Ca2	29458705	GATATATATATATATATATATATATATA TATATA/GATATATATATATATATATATA TATATATATATATATATATATATA	CTGGTGTGGAGTCAT GGTTT	TAGTGTGTAACCCGTG CGTG	59.9	240	INTERGENIC	--	--	--
Ca2_P3_2950890	Ca2	2950890	TAAAA/TAAAAA	GAAGGGACTGCGGCAT AATA	TCCCTTTCTTTCTGTC CCT	60.1	125	INTERGENIC	--	--	--
Ca2_P3_2960458	Ca2	2960458	GAAA/GAA	TATGGGTGGAAGTCAG GGAG	CAAGCACCTTGAAAGC ATGA	59.9	832	INTRON	Ca_10547	O	--
Ca2_P3_29608982	Ca2	29608982	TAAAAAA/TAAAAA	TTTGCCACAAACAAAC GTG	TGAAATTTCCCTACGA TGCC	60.6	504	INTERGENIC	--	--	--
Ca2_P3_2962089	Ca2	2962089	ATATTATT/ATTATTATT	ATGTCACCCAGACATG CAAA	TGGTGCTCTCCACATA CCAA	60.0	719	DRR	Ca_10547	O	--
Ca2_P3_29646744	Ca2	29646744	T/TC	TCACGGGTGACACAA TTTA	GGTAAGGGCTCCTTCC AAAC	60.0	845	INTERGENIC	--	--	--
Ca2_P3_29659079	Ca2	29659079	CAAAAAAAAA/CAAAAAAAAAA	CGACGATCTCATTTAGC AATCA	TTTGCAATACGGATT GATGA	60.2	384	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
Ca2_P3_2969250	Ca2	2969250	TAAATTAATGTAAC/TAAATTAATGTAA CAAATTAATGTAAC	TTCCAAAATCCCTCACA TCC	CGGAACATCGTGTCT CCTT	59.7	408	DRR	Ca_10546	--	--
Ca2_P3_2975084	Ca2	2975084	GTATTATT/GTATT	ATCTACGAAGACGTGG TGGG	TGAGGATTAATTGGCT GCTCT	60.0	852	INTERGENIC	--	--	--
Ca2_P3_2975267	Ca2	2975267	GAAAAAAAA/GAAAAAAAA	TTCACGACTTGGAAG GACC	TGATCGCCATTGATTG AGAA	60.1	750	INTERGENIC	--	--	--
Ca2_P3_2977761	Ca2	2977761	A/ACTT	CAACTTGCCAAACAGC TTCA	TGGTGCAAGGATAGTA CGACA	60.0	620	INTERGENIC	--	--	--
Ca2_P3_29829880	Ca2	29829880	T/TA	CTTTTCGTCGGAGTTT GTCC	TCGTCCTCTGGTTTTC TCGT	59.7	476	INTERGENIC	--	--	--
Ca2_P3_29829940	Ca2	29829940	TT/TTTCGAAAAAAT	CTTTTCGTCGGAGTTT GTCC	TCGTCCTCTGGTTTTC TCGT	59.7	476	INTERGENIC	--	--	--
Ca2_P3_2984403	Ca2	2984403	GAT/GATATAT	GCTCACAACAGCAAAA ACCA	TCTCTTCTTAGACCG GAGCA	59.9	443	INTERGENIC	--	--	--
Ca2_P3_29847360	Ca2	29847360	CTTTTTTTTTTT/CTTTTTTTTTTT	AACGTTCTCCGTTTTTC AGC	GTGCGTCATGCAAATA TGGT	59.4	838	INTERGENIC	--	--	--
Ca2_P3_2987706	Ca2	2987706	TAAAAAAAA/TAAAAAAAAA	TGTTTCAAAGCTCCATT TGC	GCCGACCATGGAGTAA TTGT	58.9	458	INTERGENIC	--	--	--
Ca2_P3_29892926	Ca2	29892926	CAAAAAAAAA/CAAAAAAAAA	CAAAAAGGTCATTTCAG CGA	TTGAATTCGAGAATTT GGGC	58.9	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 (°C)	Expected 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_P3_29956158	Ca2	29956158	TTGTGTGTGTGTGTGTGTG/TTGTGTG TGTGTGTGTGTGTG	CCGCATAATATTCATG CACTC	TTAAGGTCAACCCCGT TTTG	59.5	597	INTERGENIC	--	--	--
Ca2_P3_2996172	Ca2	2996172	ATTT/ATT	TTCTAAGGACCAACGC AACA	GTATGATCGATTATGC GCGA	59.3	434	INTERGENIC	--	--	--
Ca2_P3_29962401	Ca2	29962401	T/TTATGC	ACATCTGAAGGGCCAA CATC	CCTCCTAATCATGGCT TCCA	59.9	544	INTRON	Ca_16094	A	--
Ca2_P3_2996631	Ca2	2996631	CAAAAAAAAA/CAAAAAAAAA	CTCGAGTCGGTGTGT GATG	TTCTTCACGATCATCC ATGC	60.3	633	INTERGENIC	--	--	--
Ca2_P3_29977480	Ca2	29977480	AT/A	TCAAAGTAGCACATCAT AGAAAACAA	CCAAATTCAGTGTGTG ATGAACT	59.3	648	INTERGENIC	--	--	--
Ca2_P3_29996298	Ca2	29996298	CAAAAA/CAAAAAA	CCACGAATCTCTGTG GATG	GCTTTAGTGAGGAGGG GAGA	59.1	681	DRR	Ca_16090	--	--
Ca2_P3_3004473	Ca2	3004473	TC/TCC	AAACACATGGGCGAAT AAGC	CCATGCATTGTGACCC CTAA	60.0	374	INTERGENIC	--	--	--
Ca2_P3_30050486	Ca2	30050486	CAGAAGAAGAAGAAGAAGAAGAA/ CAGAAGAAGAAGAAGAAGAAGAA GAA	AATCGGAGAAATGAAG CCCT	TTGAAAATGAAGGTGG GGTC	60.0	157	INTERGENIC	--	--	--
Ca2_P3_3006310	Ca2	3006310	C/CAGTGGTAGT	TGCATGGAATGAAGGA CAAA	TCTATCTTTTCTCCGC CAC	60.0	402	DRR	Ca_10544	G	--
Ca2_P3_3009059	Ca2	3009059	ACCCCC/ACCCC	ATTCGCTTGCTCTTTG GTA	CCCGAAACTTTCTGTG CATT	59.8	658	INTRON	Ca_10544	G	--

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
Ca2_P3_30095996	Ca2	30095996	TAAAAAA/TAAAAAAA	CATTCCCGCTACATTT GGT	GGAGAGAGGCCAATT TTCA	59.8	226	INTERGENIC	--	--	--
Ca2_P3_30096215	Ca2	30096215	TTAAAAATA/TTAAAAATAAAATAA	CATTCCCGCTACATTT GGT	CTCTAGATGGAGGGTG ACGG	59.8	780	INTERGENIC	--	--	--
Ca2_P3_30096276	Ca2	30096276	TA/TAAA	CATTCCCGCTACATTT GGT	GAAGTGCTTGTGTGC CATA	59.8	876	INTERGENIC	--	--	--
Ca2_P3_30096869	Ca2	30096869	CATATATATATATATATATATATATAT ATATATATAT/CATATATATATATATATA TATATATATATATATATATATATATAT	CATTGCAGGTGCTATG GTTG	TTCTCTTATGAAGCGG AGGA	60.1	759	INTERGENIC	--	--	--
Ca2_P3_3010652	Ca2	3010652	TAAAAAAAAA/TAAAAAAAAA	TCGCTCGCTGATGACT AATG	GTGGTGATTGGGATTG GTTG	60.1	514	INTRON	Ca_10544	G	--
Ca2_P3_30187523	Ca2	30187523	GATATATATATATATATATATATA/GA TATATATATATATATATATA	GGACCATAGGTCAGGG GTTT	GAGGTCTGGTAACTCA AATAGGAA	60.1	870	INTERGENIC	--	--	--
Ca2_P3_3019233	Ca2	3019233	ATTTT/ATTTT	GGGATTACTTTCGCGA TTCA	TGCTTTGTTGCAAAAT GGT	60.0	783	INTERGENIC	--	--	--
Ca2_P3_3019419	Ca2	3019419	CAAAAA/CAAAAA	TTCAACCATCAACATT TGACC	TGCTTTGTTGCAAAAT GGT	59.7	541	INTERGENIC	--	--	--
Ca2_P3_3020087	Ca2	3020087	GTTTT/GTTTT	ACCATTTTGCAACAAA GCA	CACGTCTGCAATCC TCAC	59.2	725	INTERGENIC	--	--	--
Ca2_P3_3020857	Ca2	3020857	AT/ATT	GCATAATCTATATCGGC TTCTTCA	ATTCGGAACGTTTT GCAG	58.9	628	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
Ca2_P3_3022026	Ca2	3022026	A/AT	CATAAGTCTGGCCTAC GGCT	TTGGTGCATTGTTC AGGA	59.4	283	INTERGENIC	--	--	--
Ca2_P3_3022835	Ca2	3022835	TTAA/TTAATAA	CCCGACTCGAAAGTTT CTCA	AAAATTGACACGGCTT CGTC	60.4	544	INTERGENIC	--	--	--
Ca2_P3_3026756	Ca2	3026756	TAAAAAAAA/TAAAAAAAAA	TTTGAGGTCACGTTTAG CGA	TCATTGTGGGTGCATT TTGT	59.5	231	INTERGENIC	--	--	--
Ca2_P3_3027521	Ca2	3027521	GAAAAAAAA/GAAAAAAAAA	TTCTCGTGGACGTTTCT CAA	AAAGTTGTGGGCATGG AGAC	59.4	664	INTERGENIC	--	--	--
Ca2_P3_30291445	Ca2	30291445	TTATATATATATATATATATAT/TT ATATATATATATATATATATATATA TATATAT	CCCTTTGTGCTCCACT CAAT	CCATTTCTCCACAAA GGAA	60.1	791	INTERGENIC	--	--	--
Ca2_P3_3031259	Ca2	3031259	ATTTTT/ATTTTTT	TCAATTGCGATGGATA GAGAAA	AATTGGTGTACCGATT GCGT	59.7	647	INTERGENIC	--	--	--
Ca2_P3_3031554	Ca2	3031554	C/CCAAAATATCT	CATCTTGTCATCAAA GGA	GGTGTACCGATTGCGT ATCC	59.5	279	INTERGENIC	--	--	--
Ca2_P3_3033690	Ca2	3033690	TTCT/TTCTGTCTCTCTCT	TCAAATGATGGTGCAAA GGA	TTGATCCTTAAGGCAT TCGG	60.0	446	INTERGENIC	--	--	--
Ca2_P3_30340682	Ca2	30340682	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGTCTTATCCTGAACTC AAACTCG	ATTTGGTCAACCACCC AAAA	59.8	537	INTERGENIC	--	--	--
Ca2_P3_30341034	Ca2	30341034	TAA/TAAA	TGTCTTATCCTGAACTC AAACTCG	ATTTGGTCAACCACCC AAAA	59.8	537	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
Ca2_P3_30342173	Ca2	30342173	CA/CATA	TGAATCATTGACAAAG ACTCAATC	CTAGCCCAAGATCCAA ACCA	59.5	572	INTERGENIC	--	--	--
Ca2_P3_30344799	Ca2	30344799	GTTTATTTATTTAT/GTTTATTTATTTAT TTATTTAT	TTCATACTTGGTTGGG GACC	GGATGATTTGCGCCAA CTTA	59.6	408	INTERGENIC	--	--	--
Ca2_P3_30344848	Ca2	30344848	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TTCATACTTGGTTGGG GACC	GGATGATTTGCGCCAA CTTA	59.6	408	INTERGENIC	--	--	--
Ca2_P3_30347371	Ca2	30347371	TGG/TGGG	CACTCCATTTTTGATTG AAACG	AGTTAACAACCGCGAT TTGG	59.5	454	INTRON	Ca_12518	GE	bZIP
Ca2_P3_30352364	Ca2	30352364	ATTTTTTT/ATTTTTT	TAAAAAGTGTTCCGGT CGG	TTATTTTCCCTTTTGG CCC	60.0	826	INTERGENIC	--	--	--
Ca2_P3_30352714	Ca2	30352714	GAAAA/GAAAAA	GGGCCAAAAGGGAAAA ATAA	CCTGTCACTCTCCACT TCACC	60.1	369	INTERGENIC	--	--	--
Ca2_P3_30355281	Ca2	30355281	ATATTTTATTTTATTT/ATATTTTATTTTA TTTTATTT	TGTAATTGGGTTCCCTT CGC	CAAGGTCAACTCTTGC ACAAA	59.9	965	DRR	Ca_12517	--	ERF
Ca2_P3_30367278	Ca2	30367278	AG/AGG	ACCCATTTCATTTGCAT GGT	AGGTCATTTGGTGGTG GAAG	60.1	463	INTRON	Ca_12515	Q	--
Ca2_P3_30367772	Ca2	30367772	TA/TATTTGTTAAA	CTTCCACCACCAATGA CCT	TACCTGGCGCGTTTTA TTTT	59.8	300	DRR	Ca_12515	Q	--
Ca2_P3_30369374	Ca2	30369374	TAAAA/TAAAAA	TGTACTTCTCCGATTC CAAA	TGAATGACGACGACGG TAAA	59.6	632	DRR	Ca_12515	Q	--

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 (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
Ca2_P3_30376142	Ca2	30376142	AA/AATA	TAGCCACCCCAAAAATC AAA	CCAGGAATCATCTCAG CCAC	60.3	857	INTERGENIC	--	--	--
Ca2_P3_3038190	Ca2	3038190	AAC/AACATAC	ACTTGCACTTTGGAGT GCCT	TGTGAACCTTTGGCAT CATTG	59.9	682	INTERGENIC	--	--	--
Ca2_P3_3038248	Ca2	3038248	GAAAAAA/GAAAAAAA	ACTTGCACTTTGGAGT GCCT	CCCTTGTGCCTTATGG TTTG	59.9	784	INTERGENIC	--	--	--
Ca2_P3_30385637	Ca2	30385637	TTAATA/TTAATAATA	TTGACGGTCCTTTGTAT TTGC	ACAGAAAATGTCGTCC CTGC	60.0	384	INTERGENIC	--	--	--
Ca2_P3_30394771	Ca2	30394771	TAAAAAATTATAAAAA/TAAAA	GGAAGAAGTGATTG GATGG	AGGCTTTTGTGTTGT TGGG	58.5	814	INTERGENIC	--	--	--
Ca2_P3_30395203	Ca2	30395203	CATATATATA/CATATATATATA	CCCAACAACAACAAAAG CCT	AAACCAGCATGACAAA AGCA	60.0	289	INTERGENIC	--	--	--
Ca2_P3_30395506	Ca2	30395506	TTCGAT/TT	CCCAACAACAACAAAAG CCT	CCAAATGAAACAATCG AGGAA	60.0	780	INTERGENIC	--	--	--
Ca2_P3_30395542	Ca2	30395542	CAAAAA/CAAAAA	CCCAACAACAACAAAAG CCT	CCAAATGAAACAATCG AGGAA	60.0	780	INTERGENIC	--	--	--
Ca2_P3_30399984	Ca2	30399984	CATATATATATATATAT/CATATATAT ATATATAT	AGGTGGGCCCATTTACT TGAT	AGTGGAGGACCACTTC CTCA	60.6	836	INTERGENIC	--	--	--
Ca2_P3_30401507	Ca2	30401507	TT/TTGT	GCATCACAAAGGTTTT TGG	TCGATGCGAATACAAC TAAATCA	60.3	610	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 (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
Ca2_P3_30402988	Ca2	30402988	ATT/AT	TACCGGATTGGTAACG TGGT	GCGTTTGATGCATATT TTCG	60.1	419	DRR	Ca_12511	--	--
Ca2_P3_30403193	Ca2	30403193	ATTGAGTT/ATTGAGTTGAGTT	AAAGTTGCACCAAGAG GTGG	TCTCTGGCCTTCGTTA GTCAA	60.1	989	DRR	Ca_12511	--	--
Ca2_P3_30410480	Ca2	30410480	TAGGAG/TAGGAGGAG	CGCAAAACATTTGTTTA TCCTA	TAAGGGGACGTCGAAA GTTG	57.0	884	INTERGENIC	--	--	--
Ca2_P3_30414684	Ca2	30414684	T/TTAA	AACATATTCTGGCACAG CCAC	ACTTGTGTGTTAAACG GGGC	60.0	611	INTRON	Ca_12510	--	--
Ca2_P3_30415849	Ca2	30415849	CTTTTT/CTTTTT	GCAACAACCCGTTGAA GATT	GATGGGATATGGACAC CGTC	60.0	472	INTRON	Ca_12510	--	--
Ca2_P3_30419465	Ca2	30419465	ATAATTT/ATAATTTATTATTCGTAATTT	AGTGGTTGCAATCATCA CCA	CGGTGGAGAACAGAAT TTCAA	60.0	654	DRR	Ca_12509	C	M-type
Ca2_P3_3042033	Ca2	3042033	TTTTGTTTGCTT/TTT	TGCCAAATCATGCGTTT TTA	CTCTGATGCGAAGGTT GACA	60.1	100	INTRON	Ca_10543	--	--
Ca2_P3_30423136	Ca2	30423136	CTATATATATATATATATATATA/CTA TATATATATATATATATATATATATATA	CACCATGGCCTAGCAT TTTC	TCCCCATTGAATTTCCC ATAA	60.5	303	INTRON	Ca_12509	C	M-type
Ca2_P3_30432943	Ca2	30432943	GTTTTTTTTTT/GTTTTTTTTT	ATGAATCAAACGAACAC CGA	TTACAGTTAAGGGCCA ACCG	59.0	778	INTERGENIC	--	--	--
Ca2_P3_30433806	Ca2	30433806	CTTTT/CTTTTT	CGGTTGGCCCTTAAC GTAA	TCCTCAAACCCAAAAT GGTC	60.0	674	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
Ca2_P3_30445916	Ca2	30445916	TAAAAA/TAAAAAA	CAAAAATATATCGATCG CAACAA	AATTGAAAGCTGCATT GGCT	59.0	406	INTERGENIC	--	--	--
Ca2_P3_30447122	Ca2	30447122	CATATATATATATAT/CATATATATATAT ATATATATATATAT	TGGTGCACACAATACA ATCAAA	CAAGGCCGAGAAGACA AAAG	59.9	225	INTERGENIC	--	--	--
Ca2_P3_30447321	Ca2	30447321	TAAAAA/TAAAAAA	CTTTGTCTTCTCGGCC TTG	AGCTTTCCAACCCCTT TTGT	60.0	155	INTERGENIC	--	--	--
Ca2_P3_30447611	Ca2	30447611	A/AT	CTTTGTCTTCTCGGCC TTG	CGTGCTCATCTCCATT GTTG	60.0	891	INTERGENIC	--	--	--
Ca2_P3_30447653	Ca2	30447653	AC/A	CTTTGTCTTCTCGGCC TTG	ATCTCCTCAGCATTGT CGCT	60.0	943	INTERGENIC	--	--	--
Ca2_P3_30449164	Ca2	30449164	TAAAAAA/TAAAAAA	TGTTGCAAAGAGAAAG AACTTCA	TGACGGTGGCAATCGA TATT	59.2	557	DRR	Ca_12507	--	--
Ca2_P3_3045119	Ca2	3045119	AA/AAGTGAGTCTA	CCTGATGTGCATGTGG AAAG	CGTTCCAACACATAGC TCCA	60.1	553	INTRON	Ca_10543	--	--
Ca2_P3_3045472	Ca2	3045472	TAG/TAGAG	TGGAGCTATGTGTTGG AACG	CTGACGGATCTTGGGT AGGA	59.7	356	INTRON	Ca_10543	--	--
Ca2_P3_30456719	Ca2	30456719	TAAAAAA/TAAAAAA	TTCCTGATTCCGATCTC ACC	CATACCTTGGGGATGC AAAG	60.0	601	DRR	Ca_12504	--	WOX
Ca2_P3_30457207	Ca2	30457207	CAAAAAA/CAAAAAA	TGCATCCCCAAGGTAT GACT	CCACCATTAGATTTCG GGTT	60.3	649	DRR	Ca_12504	--	WOX

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 (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
Ca2_P3_30457303	Ca2	30457303	A/AT	TGCATCCCCAAGGTAT GACT	CCACCATTAGATTGCG GGTT	60.3	649	DRR	Ca_12504	--	WOX
Ca2_P3_30461229	Ca2	30461229	AG/A	TCCCATTCATCAAGAC GTG	TTTTGTCTCACATTGA TTGTCTTT	59.5	666	INTERGENIC	--	--	--
Ca2_P3_30463432	Ca2	30463432	TAAAAAAAAA/TAAAAAAAAA	ATTCTCAACCTTGGTG TGC	AGTGTGTTGTTGGGAG GTGG	60.0	670	INTERGENIC	--	--	--
Ca2_P3_30463925	Ca2	30463925	AT/A	CCACCTCCCAACAAAC CACT	TGTGGTCTCCGATAAA TCAAAA	59.9	430	INTERGENIC	--	--	--
Ca2_P3_30464092	Ca2	30464092	G/GAAATAAGTTGAT	CCACCTCCCAACAAAC CACT	GGCAAGTTGCTTTTAC CAAAAC	59.9	602	INTERGENIC	--	--	--
Ca2_P3_30464150	Ca2	30464150	CTT/CTTT	CCACCTCCCAACAAAC CACT	GGCAAGTTGCTTTTAC CAAAAC	59.9	602	INTERGENIC	--	--	--
Ca2_P3_30473533	Ca2	30473533	TAAA/TAAAA	TGAATCGTGTGAGAGA ACGAA	TGCTGATTTTGCTCCT CATCT	59.4	313	INTERGENIC	--	--	--
Ca2_P3_30473938	Ca2	30473938	TTTTTTA/T	AGATGAGGAGCAAAAT CAGCA	TGTGTTCTGGAGCAT TTGA	60.0	624	INTERGENIC	--	--	--
Ca2_P3_30477581	Ca2	30477581	G/GC	TCACTGAATGCAAGCC ATTT	TTACGCACGAACTCA TCTC	59.3	712	DRR	Ca_12502	G	--
Ca2_P3_30478050	Ca2	30478050	CTTTTTTTTTTT/CTTTTTTTTTT	GTGCGTGAAGGGATGA AAAT	CCCTCACTTCTTCAAG GCAC	59.9	388	DRR	Ca_12502	G	--

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 (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
Ca2_P3_3047861	Ca2	3047861	ATTTTTTTT/ATTTTTTTT	TGAGGGTCCAGTTTT CCAC	TGAGCTTAAATTAACG AGCCAA	59.9	446	DRR	Ca_10543	--	--
Ca2_P3_30481892	Ca2	30481892	AACATA/AA	TCAATGCATGGAAAATA ATCTCT	TGGTCCTCATCCATCA AACA	57.8	401	INTERGENIC	--	--	--
Ca2_P3_30481983	Ca2	30481983	ATATTATT/ATATTATTAAATTATTAT TT	TCAATGCATGGAAAATA ATCTCT	TGGTCCTCATCCATCA AACA	57.8	401	INTERGENIC	--	--	--
Ca2_P3_30484577	Ca2	30484577	ATT/A	ACATGAGACCGTCAAT GCAA	CCACAGGACTGAAGAA GTTGTG	60.1	135	INTERGENIC	--	--	--
Ca2_P3_30484802	Ca2	30484802	A/ATT	ACATGAGACCGTCAAT GCAA	CGAAAAATCAAAAATC ATCGC	60.1	386	INTERGENIC	--	--	--
Ca2_P3_3048873	Ca2	3048873	CTT/CTTT	TAGCGCGCGGAGTGTA TAAT	CCCGTTTCATTGAGTT AAGAAA	59.6	699	DRR	Ca_10543	--	--
Ca2_P3_30489467	Ca2	30489467	ATTTTTTTTT/ATTTTTTTT	TGCAAAGTTTGATGGA GTGC	TAGAACCCCAATTTTG TCCG	59.8	363	INTERGENIC	--	--	--
Ca2_P3_30490221	Ca2	30490221	T/TA	GGAAAAATTGCATTGG GAA	GTTGGCTTACACATTG GGCT	59.8	578	INTERGENIC	--	--	--
Ca2_P3_30490973	Ca2	30490973	TTCAACACTTCAC/T	AGCCCAATGTGTAAGC CAAC	AAGCTTTTGCAATGG GAGA	60.0	410	INTERGENIC	--	--	--
Ca2_P3_30494831	Ca2	30494831	GAAAAAAAA/GAAAAAAAAA	TGAGAACGCCCATGTC AATA	TCTCTGGCAACCGTTC TTCT	60.1	404	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
Ca2_P3_3049734	Ca2	3049734	AGAT/A	CGATCTCATATGTGGG GACC	TGCAATCGAAAGAAGT GTGG	60.2	536	INTERGENIC	--	--	--
Ca2_P3_30503807	Ca2	30503807	TAA/TAAA	GTTCTCACTATGCCCC CAAA	AGTAATTAGCCCGAAT CGCA	59.9	404	INTERGENIC	--	--	--
Ca2_P3_30505914	Ca2	30505914	ATTTTTTTTT/ATTTTTTTTTT	TTTAACGCTTCTCGCGT TTT	CGTGCTCCATAGTTC CAAC	60.0	730	INTRON	Ca_12501	GMW	--
Ca2_P3_30506609	Ca2	30506609	GTT/GT	GTGTTTTGGTGAGCGT TTGA	GGTACAAATCCACCA TTGC	59.7	522	INTRON	Ca_12501	GMW	--
Ca2_P3_30507919	Ca2	30507919	CT/CTT	TCATCTTTGATGCATT CGC	TGCATTGCGACAAGA AAAG	59.8	503	INTRON	Ca_12501	GMW	--
Ca2_P3_30509747	Ca2	30509747	CAAAA/CAA	GGCCACATAATCCGTA CCAC	AACACATTTGTGCAGC GAAG	60.1	586	DRR	Ca_12500	--	--
Ca2_P3_30510130	Ca2	30510130	ATTTTTTTTTTTTT/ATTTTTTTTTTT T	AGACCCACGGTTAAC ATGA	AGCACCTTACAAGGGG GAGT	60.2	700	DRR	Ca_12500	--	--
Ca2_P3_30513681	Ca2	30513681	TGAGA/TGA	GTGGGGTCTAACAAAC GTGG	TCGCATTACAATTTCGG ATCA	60.3	185	INTERGENIC	--	--	--
Ca2_P3_30520425	Ca2	30520425	GAAAAAAAA/GAAAAAAAAA	TTGACGTAGGCTCTTG GGTC	ATGTCCTGCTTCATT CCAC	60.0	745	INTERGENIC	--	--	--
Ca2_P3_30522102	Ca2	30522102	TAAAAAAAA/TAAAAAAAA	TCGTTCAACTAGTGCG GCTA	TTTTGGTGCCAAATTCT TCTC	59.6	822	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
Ca2_P3_30522129	Ca2	30522129	A/AG	TCGTTCAACTAGTGCG GCTA	TTTGGTGCCAAATTC TCTC	59.6	822	INTERGENIC	--	--	--
Ca2_P3_30526988	Ca2	30526988	GAAAA/GAAA	CTCGTGAAGGATTAGG TCGG	TTGCAACGCATCTCAA TCTC	59.7	353	INTERGENIC	--	--	--
Ca2_P3_30530043	Ca2	30530043	TAA/TAAA	AAGGTTCAACGACAGA TGCC	AGGAGAAGAAGGATGA GCC	60.1	451	DRR	Ca_12498	J	--
Ca2_P3_30537433	Ca2	30537433	AAAGAA/AAA	ACATGGTAACTGCGAT GCAA	GTAGCTGCAGTTGCTA CCCC	60.1	329	DRR	Ca_12497	J	--
Ca2_P3_30540749	Ca2	30540749	CTTTTT/CTTTTTT	TCGCAAAACAGAGAAGA AACAAA	TGTCCTTGTGTGTAGC GCCT	60.0	204	INTERGENIC	--	--	--
Ca2_P3_30550219	Ca2	30550219	TCC/TC	TTTCTTTATTCTCGGTG GCG	TGCATTCGATCAAGCT CAAC	60.2	640	INTERGENIC	--	--	--
Ca2_P3_30553379	Ca2	30553379	GAAAA/GAAAAA	TTTTTATGAGGCGTGG AAGG	CCATGAACACGCCAAA CATA	60.1	874	INTERGENIC	--	--	--
Ca2_P3_30553679	Ca2	30553679	TAAAAAA/TAAAAA	TGCACCTTATCACTTGG TAATCG	TGTTTGCAGCTTCAA TGAC	59.2	561	INTERGENIC	--	--	--
Ca2_P3_30555764	Ca2	30555764	AAG/AAGACACGTGTAG	AAAACATAACCTTTTGC CCG	TCACTCCAAGCTTCCC AAAT	59.0	257	INTERGENIC	--	--	--
Ca2_P3_30556664	Ca2	30556664	TAAAA/TAAAAA	TGGGCATGTGATCCTG AATA	AGTTTTGGTGACAAG GCAC	59.9	631	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
Ca2_P3_30558124	Ca2	30558124	TAAA/TAAAA	TGTTTAAGGGTGATGC GACA	AGGCTTCATAGATGG GTGA	60.1	948	INTERGENIC	--	--	--
Ca2_P3_30558600	Ca2	30558600	CTAT/CTATATAT	GATGCATACAAAAGTCA CCCC	GGATTGATGAAGTGGT TGGG	59.3	254	INTERGENIC	--	--	--
Ca2_P3_30559073	Ca2	30559073	AG/A	TGCATACAAAAGTCACC CCA	AAAAATTATGGGCTTT GGGC	60.0	982	INTERGENIC	--	--	--
Ca2_P3_30565181	Ca2	30565181	CTTTTT/CTTTTTT	TGGTCCCCTCAACCAC TAAG	TGTCTCTGTTGGTTG CAAAA	60.0	708	INTERGENIC	--	--	--
Ca2_P3_30566132	Ca2	30566132	AT/ATT	CAGAGACAAAAGAGGG AACCA	TTGTGTTGTTGTTGTG TGCG	59.3	884	INTERGENIC	--	--	--
Ca2_P3_30567133	Ca2	30567133	TAAAAAAA/TAAAAAAA	AAATTACCGCAACAATT GGC	GAAGCGCAACTAAACC AAGC	59.8	539	INTERGENIC	--	--	--
Ca2_P3_30569147	Ca2	30569147	TCCCCC/TCCCC	GAAAATGTGGTTCACCT GGG	CCGTCCAATTTCTCTT GGA	60.4	875	INTRON	Ca_12495	E	--
Ca2_P3_30569240	Ca2	30569240	AT/ATT	AGTTTTGCAGCTTTTGC CTC	CCGTCCAATTTCTCTT GGA	59.6	609	INTRON	Ca_12495	E	--
Ca2_P3_30571103	Ca2	30571103	TAAAAA/TAAAAA	TTTGAGTTTGACCATG TGA	GAAATGGCACCAACCT CATC	57.5	706	INTRON	Ca_12495	E	--
Ca2_P3_30574200	Ca2	30574200	ATTTTT/ATTTTTT	AAATGAAAAGGGGCCA AAGT	AATTTCCCGTTGCAAT GTCT	59.8	859	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 (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
Ca2_P3_30577110	Ca2	30577110	CTTT/CTT	GTTCTCGTGGCTCAGG ACTC	CCATTGGCTTTTGCTC ATT	60.0	388	DRR	Ca_12493	--	--
Ca2_P3_30578105	Ca2	30578105	AC/A	GCCCCTGCACTAGTTT GAAG	GGCTTGTTAGTCTGCT TGCC	59.9	583	DRR	Ca_12493	--	--
Ca2_P3_30585791	Ca2	30585791	CAT/CATAAAT	GAAACCCTAACGCCAT GAAA	TGTTTAACAAATGTCTG AAAGACG	59.9	631	INTERGENIC	--	--	--
Ca2_P3_30585996	Ca2	30585996	TA/TAA	ACAAATGGAGAGTGGC GAAG	TGTTTAACAAATGTCTG AAAGACG	60.3	465	INTERGENIC	--	--	--
Ca2_P3_30615674	Ca2	30615674	ACTAA/ACTAAATCTAA	TACTAAAACGGCAAAAC CCG	TCCTGTGCGTAAGACT GGTG	60.0	533	INTRON	Ca_12491	--	--
Ca2_P3_30622722	Ca2	30622722	A/ACCGTAATCC	CTTGGTCAGAATCACG GAGC	CACGTTGACCCTTTTT GTCA	60.8	380	INTRON	Ca_12490	R	--
Ca2_P3_30622746	Ca2	30622746	AC/A	CTTGGTCAGAATCACG GAGC	CACGTTGACCCTTTTT GTCA	60.8	380	INTRON	Ca_12490	R	--
Ca2_P3_30623593	Ca2	30623593	TTATGTTTTAT/TTATGTTTTATATGTTT TAT	AGTAGAGCCCGACAAG ATGC	CCGCAATCAATTAGC GAAT	59.5	483	INTERGENIC	--	--	--
Ca2_P3_30630371	Ca2	30630371	ATTTA/ATTTATTTTA	TGCGTGTATCATTTTCA ACTCA	GGAGATCCAATAGATG GCGA	59.2	841	INTERGENIC	--	--	--
Ca2_P3_30633064	Ca2	30633064	CTTTTTTT/CTTTTTTTT	TCAAATTGGAAGAGATA TCAAGCA	CGAGAAGTGAATGGT TTCAA	60.1	448	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
Ca2_P3_30636206	Ca2	30636206	TAAAAAA/TAAAAAAA	TGAATTGGTGTTATAAA AAGACGG	GGTCACGGTGTCAGTG AGTG	59.4	249	INTERGENIC	--	--	--
Ca2_P3_30637681	Ca2	30637681	ATTTTT/ATTTT	GGAAGGGAGCCTGAA GAGA	GGTCTTTTTCGAAAT TTGATT	60.8	455	INTERGENIC	--	--	--
Ca2_P3_30639797	Ca2	30639797	GAAAA/GAA	CACCAATTCATGCATT TCA	GGACAGAGTTCGGTGT GGAT	60.3	460	INTERGENIC	--	--	--
Ca2_P3_30642821	Ca2	30642821	ATT/AT	TGTAATTCATTCCGTG GCA	AAAGTTTCGTAATTTT GCATGG	59.9	467	INTERGENIC	--	--	--
Ca2_P3_30652935	Ca2	30652935	TAA/TA	TTTCTTCAATCTTAATG GTTTTTGG	CATTGACCAAGGAAA GTTCA	59.8	432	INTERGENIC	--	--	--
Ca2_P3_3065499	Ca2	3065499	TGGG/TGG	ACTTTACCACCCCGTG TTG	GGTACTGTCTACTGCG CAAA	59.8	174	INTRON	Ca_10542	Z	--
Ca2_P3_30665443	Ca2	30665443	ATTTTTTTTT/ATTTTTTTT	TCATGGTGGACCGTAA TCTG	CTACTGCCTTGGATTCT CTTT	59.4	403	INTRON	Ca_12489	QI	bHLH
Ca2_P3_30667413	Ca2	30667413	ATTT/ATT	TTTCTTGTTTTCTCCAC CGC	TGAAGCAGACTGCAGAT ATCG	60.2	461	INTRON	Ca_12489	QI	bHLH
Ca2_P3_30670732	Ca2	30670732	AAATAATAATA/AAATAATAATAA	CCGTGTTTCTTACCCT TTT	TGGTAGGTGAAGGTGC AACA	60.0	660	DRR	Ca_12489	QI	bHLH
Ca2_P3_30671540	Ca2	30671540	TAAAAA/TAAAAA	TTCGATTGATGGTTAAG AGACA	ATAACGTGTTGGATCA GCC	57.4	697	DRR	Ca_12489	QI	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 (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
Ca2_P3_30672058	Ca2	30672058	ATTTT/ATT	GGGCTGATCCAACAG TTAT	CCATGGGAACGTTGG TAAC	59.8	396	DRR	Ca_12489	QI	bHLH
Ca2_P3_30676605	Ca2	30676605	GAAAAA/GAAAA	GCTCCAGCAAAAATAG AAATGG	TCATCAATCAAACACT TACGCAGA	60.1	504	INTERGENIC	--	--	--
Ca2_P3_30676782	Ca2	30676782	ACTAGC/ACTAGCTAGC	GCTCCAGCAAAAATAG AAATGG	TCATCAATCAAACACT TACGCAGA	60.1	504	INTERGENIC	--	--	--
Ca2_P3_30678822	Ca2	30678822	ATT/ATTTTT	CAAAACCAAAACCTTTT CCA	CTCAGCATCTCCAAA CTCA	59.8	369	INTERGENIC	--	--	--
Ca2_P3_30687952	Ca2	30687952	CA/C	ATCAATGGTCATGCAG CAAA	GACTCTCCTGGCAGCA AAAG	60.1	563	INTRON	Ca_12488	F	--
Ca2_P3_30690585	Ca2	30690585	AAATAATAATAATAAA/AAATAATAAT AATAATAATAATAATAA	TATTCGCATCTGTGTGC TCC	CGTGGTTGAGTAGATG TGCC	59.8	670	INTERGENIC	--	--	--
Ca2_P3_30695617	Ca2	30695617	CTTTTTTTTT/CTTTTTTTTTT	CCCATGCATATCACGTT TTG	ACGCAGGGCCATGATA CTAC	59.8	361	DRR	Ca_12487	KLB	YABBY
Ca2_P3_30695734	Ca2	30695734	AA/AAAATTAACA	CCCATGCATATCACGTT TTG	ACGCAGGGCCATGATA CTAC	59.8	361	DRR	Ca_12487	KLB	YABBY
Ca2_P3_30700575	Ca2	30700575	CAAGTAAG/CAAG	CGCTAAAGGCACCTCA AAAG	GCAGCTTTCTGTTAGT GGGC	60.0	583	INTRON	Ca_12487	KLB	YABBY
Ca2_P3_30700832	Ca2	30700832	ATCCAAGTCCAAGTC/ATCCAAGTC	GCCCACTAACAGAAAG CTGC	GCAGAAATCCAGGGCA GATAA	60.0	460	INTRON	Ca_12487	KLB	YABBY

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 (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
Ca2_P3_30702625	Ca2	30702625	GAAAAA/GAAAAAA	CTTCGCCATCAATGA CAC	AATCTCTCAATCCCC CGTT	60.1	566	INTRON	Ca_12487	KLB	YABBY
Ca2_P3_30704006	Ca2	30704006	TAAAA/TAAA	CCGTATGTATGCGTGA CACC	GGAAGGTGAATGATCT TAAAAAACG	59.9	902	INTERGENIC	--	--	--
Ca2_P3_30704638	Ca2	30704638	TA/TAA	AAATTCAGTGCAACGC ACAT	CCCACTTTGATAACA ATTCC	59.2	445	INTERGENIC	--	--	--
Ca2_P3_30710239	Ca2	30710239	C/CT	TGCCAGCTGATATTGC AAAG	CTTCAGAGGCAGAAC AGCA	60.0	563	DRR	Ca_12486	T	--
Ca2_P3_30719499	Ca2	30719499	AT/A	CACGTTGTGGGGACT AAAC	AAGAACCATCCAGCG AAC	60.3	988	INTERGENIC	--	--	--
Ca2_P3_30719829	Ca2	30719829	A/AT	CAACGGACAAGAAAT CTCACA	TCACAAATTAACGGCC ACAA	60.1	804	INTERGENIC	--	--	--
Ca2_P3_30720601	Ca2	30720601	TAAAAA/TAAAAA	TTGTGGCCGTTAATTG TGA	TTGTTGTGGATGCGGT TAAA	60.0	917	INTERGENIC	--	--	--
Ca2_P3_30735781	Ca2	30735781	ATTTTTTTTT/ATTTTTTTTT	TTTAGGCCAATGGAG GGTG	AGGCCCGTATCATTTA TCCC	60.1	573	INTRON	Ca_12484	T	RAV
Ca2_P3_30737308	Ca2	30737308	TAAAAA/TAAAAA	TTTGCCATGGTCTTG GATT	TCAAGAAATTGCCAA CCCT	60.3	618	DRR	Ca_12484	T	RAV
Ca2_P3_30737463	Ca2	30737463	TAAAAA/TAAAAA	TTTGCCATGGTCTTG GATT	TGGGCCCTCATGATAT TGAT	60.3	720	DRR	Ca_12484	T	RAV

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 (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
Ca2_P3_30737660	Ca2	30737660	CAAAAAA/CAAAAAA	TTTGGCCATGGTCTTG GATT	TGGGCCCTCATGATAT TGAT	60.3	720	DRR	Ca_12484	T	RAV
Ca2_P3_30738426	Ca2	30738426	AATATATATATATAT/AATATATATATAT	TGTGCACAATTTTCATG GGT	GAAGTTGAGCCACAC ACAA	59.8	968	DRR	Ca_12483	T	FAR1
Ca2_P3_30742309	Ca2	30742309	CAGAGAGAG/CAGAGAGAGAGAGAG	CGTTGCGGTAACAAAC AATG	TTGGAGAAAAGGCAGG CTTA	60.0	349	INTERGENIC	--	--	--
Ca2_P3_30742679	Ca2	30742679	TAAAAA/TAAAAAAA	TGTTTGCTTCATTGGCA GAG	AAATTTGATGTAGAATA TAACCCAAAA	60.0	674	INTERGENIC	--	--	--
Ca2_P3_30766209	Ca2	30766209	CAAAAAAA/CAAAAAAAA	TGTCGTGCGAGAAAAA TGAG	GTTGCTTTCGGATAGC TTGC	60.0	770	DRR	Ca_12479	K	ERF
Ca2_P3_30771512	Ca2	30771512	TAAAAA/TAAAA	GACCACCTTTGTGGAC CAGT	AATTTGATGGTTATGG GCGA	59.9	713	INTRON	Ca_12479	K	ERF
Ca2_P3_30790808	Ca2	30790808	GAAAAAAA/GAAAAAAA	CACTCAGGGGATGAAT GTACG	CGAAGTTTGACATGA GCTG	60.4	480	INTERGENIC	--	--	--
Ca2_P3_30792322	Ca2	30792322	TAAAAAAA/TAAAAAAA	TCCCCAAACAAATCAA ACA	TCAGCATCATAATTGG CACG	58.8	771	INTERGENIC	--	--	--
Ca2_P3_30794400	Ca2	30794400	CTTTTTT/CTTTTTT	GAGTTGAATGCAGCTG ACCA	TGCATTCACTGGAGA CGTT	60.0	741	INTERGENIC	--	--	--
Ca2_P3_30796973	Ca2	30796973	CAAA/CAAAA	CGTGTCCCTGATATTT GCC	GGGACAGTTTTGTTTG TGCC	60.3	108	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
Ca2_P3_30805003	Ca2	30805003	T/TA	TGCTGAATTGGATAGA GGGG	TTTTTGTTTGTGTACA TTTGTTTT	60.0	838	INTERGENIC	--	--	--
Ca2_P3_30806790	Ca2	30806790	T/TA	GAAGTCAACATGTGCA TGGG	TTTAAATTATGCGAC GGCA	60.0	606	INTERGENIC	--	--	--
Ca2_P3_30809205	Ca2	30809205	AG/AGG	ACATGAGGCTCTCCTA CCCA	TGTTACCAACAAAATT GACAAA	59.7	592	INTERGENIC	--	--	--
Ca2_P3_30839646	Ca2	30839646	G/GA	TTGATTTCTCCATCGCA CTG	GGAGTCGATTATGCGT AGGG	59.8	268	DRR	Ca_12475	--	--
Ca2_P3_30840473	Ca2	30840473	AG/A	GCATGCGAACATGAAT TTTG	CCGGTGGATTGGATGT TAAA	60.1	589	DRR	Ca_12475	--	--
Ca2_P3_30840723	Ca2	30840723	TC/T	GCATGCGAACATGAAT TTTG	GGCCACTCATGTTGTC TCCT	60.1	788	DRR	Ca_12475	--	--
Ca2_P3_30842777	Ca2	30842777	AA/AATAGGAGCTAA	ACGTTAAGGGGGCAAT TACA	CGTGACTTCAGGGGCA ATAG	59.3	728	INTERGENIC	--	--	--
Ca2_P3_30843796	Ca2	30843796	ACTAGCTAG/ACTAG	AGCAATCCCCTATTTCAT CCA	TTTCATCTAACGCAGTC GTGG	59.3	746	INTERGENIC	--	--	--
Ca2_P3_30844156	Ca2	30844156	TTTAA/TTTAATTAA	TCCACACTCTGTAGGT TGCAT	CAGAATCAGCACGCAA ACAT	59.7	854	INTERGENIC	--	--	--
Ca2_P3_30847372	Ca2	30847372	ATTTTT/ATTTTTTT	GGTATGGGATGGGTGT GAGA	GACACCCTAAGCTCCA CACAA	60.6	192	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
Ca2_P3_30849743	Ca2	30849743	ATT/ATTT	TCAACTTAGATATGCCG TCCG	TGGGTTGGTTTGAATC ATCA	60.1	410	INTERGENIC	--	--	--
Ca2_P3_30861518	Ca2	30861518	GAAA/GAAAA	CCAAAGGTGGGTGAAG AAGA	CAGGCCCAATTCACAA AGTT	60.1	554	INTERGENIC	--	--	--
Ca2_P3_30861798	Ca2	30861798	A/AAT	AACTTTGTGAATTGGG CCTG	TTTGCATGCCGATAAT TTGA	60.0	365	INTERGENIC	--	--	--
Ca2_P3_30861870	Ca2	30861870	A/AT	AACTTTGTGAATTGGG CCTG	TTTGCATGCCGATAAT TTGA	60.0	365	INTERGENIC	--	--	--
Ca2_P3_30862016	Ca2	30862016	GAAAAAAAA/GAAAAAA	AACTTTGTGAATTGGG CCTG	CCACATTTTGACCTAC TTTCACA	60.0	867	INTERGENIC	--	--	--
Ca2_P3_30862283	Ca2	30862283	TAAAAAAAA/TAAAAAAAAA	TTATCGGCATGCAAAAC AAA	GTTGGGTGACAGACAG CACA	60.1	794	INTERGENIC	--	--	--
Ca2_P3_30864595	Ca2	30864595	ATTTTTTTTT/ATTTTTTTTTT	TCAAAGAGCGGATAAT AGGTTTT	CTTTCGAAATCCCTCA GCTT	58.4	769	INTERGENIC	--	--	--
Ca2_P3_30865173	Ca2	30865173	GAAAAAAAA/GAAAAAA	GCTGAGGGATTTCGAA AGTAA	ATAATACCCCTCAGGG TGGC	58.5	576	INTERGENIC	--	--	--
Ca2_P3_30876227	Ca2	30876227	AT/ATTT	GCAGCCAAATTTCTTG AGC	CAAAGCAGCATTCAGG ACAA	60.0	678	INTRON	Ca_12473	U	--
Ca2_P3_30877201	Ca2	30877201	GGAGAG/GGAG	TCATCTGCGGTTCAAG AGTG	AGGAAATCAGCCTGAA GCAA	60.0	928	INTRON	Ca_12473	U	--

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 (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
Ca2_P3_30880412	Ca2	30880412	CTTT/CTTTT	AAAACCACCAGAGACC GTTG	GAATTGCATCTCCCA AAGA	60.0	167	INTRON	Ca_12473	U	--
Ca2_P3_30886527	Ca2	30886527	CTTTT/CTTTTTT	AGGATGCAACCACCTA CACC	GAGTTTGAAGAAAA ACGAACA	59.9	755	INTERGENIC	--	--	--
Ca2_P3_30889956	Ca2	30889956	TGAA/T	CTTGGCAGACTGAGTT CACG	CATTGTGTAATGTTG CCCA	59.6	875	INTERGENIC	--	--	--
Ca2_P3_30890128	Ca2	30890128	AAAAATAATAATAATAA/AAAAATAA TAAATAAA	GATGATGTAATGGGA GCCAA	CATTGTGTAATGTTG CCCA	59.8	697	INTERGENIC	--	--	--
Ca2_P3_30890182	Ca2	30890182	AAA/AAAGAA	GATGATGTAATGGGA GCCAA	GGAATTGATCCACAAC TCGG	59.8	958	INTERGENIC	--	--	--
Ca2_P3_30892153	Ca2	30892153	AA/AATGTACA	AGGATGGGTTTCTGTG TTGC	CTAAGGGGCAAAAGCG TACA	60.0	617	INTRON	Ca_12472	--	--
Ca2_P3_30895897	Ca2	30895897	TTATATATATATATATATATATATA /TTATATATATATATATATATA	TGCCAAAAAGAAAAAG GAATG	GCCAAGTTGTATAGGA CAGCTC	59.2	566	DRR	Ca_12472	--	--
Ca2_P3_30896118	Ca2	30896118	ATT/AT	TGCCAAAAAGAAAAAG GAATG	TGTTAAAGCCAAAAC CCCA	59.2	742	DRR	Ca_12472	--	--
Ca2_P3_30896877	Ca2	30896877	ATTTTT/ATTTTT	TGGGGTTTTTGGCTTTA ACA	AGAGAAGCCCACTCCA ACTG	60.3	919	INTERGENIC	--	--	--
Ca2_P3_30897629	Ca2	30897629	TAAAAAAA/TAAAAAA	CCAACAGATCAAGGGG AATG	ATCGAGATCTACCGT GGAA	60.3	548	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 (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
Ca2_P3_30900169	Ca2	30900169	TGAGTAG/T	GTCTATGCAGGAGCCA GAGC	TATCCGTGGACCTT CATC	60.1	510	INTRON	Ca_12471	--	--
Ca2_P3_30900645	Ca2	30900645	T/TA	GATGAAGGGTCCACGG AATA	TTCAGAACCGGAGTGG TTTC	59.8	668	INTRON	Ca_12471	--	--
Ca2_P3_30900923	Ca2	30900923	TAAAAAAAAA/TAAAAAAAAA	CATGGTCAAATTGGGT GGAT	CTTCCTTGACGAATG GTGT	60.4	767	DRR	Ca_12470	DO	--
Ca2_P3_30901376	Ca2	30901376	CTTT/CTTTTTCTTTTT	TCATTGGTGTTACCG GGAT	TGCAGTGCTTCCATTC TCAG	60.1	323	DRR	Ca_12470	DO	--
Ca2_P3_30901717	Ca2	30901717	TG/T	TCATTGGTGTTACCG GGAT	TAGCCTTTTGCAATAT GGGG	60.1	886	DRR	Ca_12470	DO	--
Ca2_P3_30902626	Ca2	30902626	T/TC	CCCCATATTGCAAAAG GCTA	TGGGGAATCGCAAGAT AAAC	59.9	839	DRR	Ca_12471	--	--
Ca2_P3_3090420	Ca2	3090420	CCTCTCTCTCTCTCTCTCTCTC/C CTCTCTCTCTCTCTCTCTCTC	TACAAGCACTCTCTCC GCT	TTTCCATGCCCAAAG TCTC	60.2	257	INTERGENIC	--	--	--
Ca2_P3_30915268	Ca2	30915268	A/ACAATCACTAAG	GAAGTGAAGTGGTCT TTGCG	CAAGACCTTGTGGCTC ATCA	59.9	783	INTRON	Ca_12470	DO	--
Ca2_P3_30916172	Ca2	30916172	TCC/TCCC	TGAATTGCCACAGTCT TTGA	TAAAGAGTGGCACCCC TCAC	60.2	411	INTRON	Ca_12470	DO	--
Ca2_P3_30925833	Ca2	30925833	ACC/ACCC	ATGAAGGATGGGTGAA GCAG	CAGGATGACTGCTATT GCGA	60.1	649	INTRON	Ca_12470	DO	--

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
Ca2_P3_30927686	Ca2	30927686	TAAAAAAAA/TAAAAAAAAA	TTTGGGGCAGCAGATA AAAC	GCCAGATGAGCACACA AGAA	60.1	506	INTRON	Ca_12470	DO	--
Ca2_P3_30931955	Ca2	30931955	ACC/AC	GCATCTTCCTTCGTCCT ACG	AAGAAGTTGGATGCCA AGGA	59.8	116	INTRON	Ca_12470	DO	--
Ca2_P3_30933751	Ca2	30933751	TC/T	TCGAAACGTGTGGTGA TGAT	ACAATCCACGCAATG TGAG	60.0	895	INTERGENIC	--	--	--
Ca2_P3_30935935	Ca2	30935935	GAACAAC/GAAC	ATCGATTAGTTCGGGT GACG	CGAGAAAGAGAGAGG CCAAG	60.0	578	INTERGENIC	--	--	--
Ca2_P3_30936877	Ca2	30936877	TAAAAAA/TAAAAAAA	TTGCACACAAGCGTTA GAGC	ATCAACCGCACACAAT TCAA	60.2	393	INTERGENIC	--	--	--
Ca2_P3_30940918	Ca2	30940918	TAAAAAAAAA/TAAAAAAAAA	CAATTTTGCTTGCAAT GTCA	AGGGTACGGTCGGGT TAGTT	59.7	506	INTERGENIC	--	--	--
Ca2_P3_30943416	Ca2	30943416	TAAAAA/TAAA	CGAACTCACCTGATGC TCAA	GCCAATATGTTCAATG ACGG	60.0	607	INTERGENIC	--	--	--
Ca2_P3_30951832	Ca2	30951832	T/TACTC	TTCTCCAGACAAAGG TTGG	ATGTCGGGATCCTCAC TGTC	60.1	904	INTRON	Ca_12469	U	bHLH
Ca2_P3_30957370	Ca2	30957370	T/TA	TGCTCAATTGTTGCCTC TTG	CGACTAGCTCGGCTAC AACC	60.0	361	DRR	Ca_12469	U	bHLH
Ca2_P3_30959076	Ca2	30959076	TAAAAA/TAAAAAA	TTGGTAAACCGATTAAT CCCC	AACGGAACGAGCAAAG AAAG	59.9	386	DRR	Ca_12469	U	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 (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
Ca2_P3_30962317	Ca2	30962317	CTTTTT/CTTTTT	TTGTAAGTGTTATGTGCTGCCA	GGAGCAGTTCATGGCTTA	59.3	545	DRR	Ca_12468	K	MYB
Ca2_P3_30963140	Ca2	30963140	GT/G	TAAGCCCATGAACTGCTCC	CACAATTGCCTACACCATCG	60.2	780	INTERGENIC	--	--	--
Ca2_P3_30968038	Ca2	30968038	CAAA/CAA	GTGTGCGAAAGGTTGGTTTT	CGAACCTACCCGATCAGAA	60.0	168	INTERGENIC	--	--	--
Ca2_P3_30968401	Ca2	30968401	CAAAAAAAAA/CAAAAAAAAA	TTCTTGATCGGGTAGGTTCCG	ATTTTGCTCCCGTCTCTCTT	60.1	507	INTERGENIC	--	--	--
Ca2_P3_30969700	Ca2	30969700	AACACA/AACA	AAGGCACATCACGTTCAATT	AACCTCTTAGAGTGCGCCG	59.5	764	INTERGENIC	--	--	--
Ca2_P3_30982651	Ca2	30982651	AT/ATACT	ACAAAATGGGATGGATGGAA	TAATCCCAAGGCGATGCTAC	60.0	517	INTERGENIC	--	--	--
Ca2_P3_30997225	Ca2	30997225	A/AT	TCACCCTCGTATCCACAACA	ATGTGGCATTGACAA GTGA	60.0	245	DRR	Ca_12465	--	ERF
Ca2_P3_31004156	Ca2	31004156	TAAA/TAAAA	AACGGTCCTCTTAGGACATCA	ACATGGGAATCCAAAGACCA	58.7	562	DRR	Ca_12464	--	LBD
Ca2_P3_31006068	Ca2	31006068	CTTTTTTT/CTTTTTTTT	TTGCAAAATTTCTTGACATCG	ACCATCCACTGTCCACATGA	60.0	477	INTERGENIC	--	--	--
Ca2_P3_31066601	Ca2	31066601	TTGTGTGTGTGTGTGTGTGT/TTGTGTGTGTGTGTGTGT	GATTCGTGAGACCGTTGGAT	AAGACATGTCCATAACGAACCA	59.9	640	INTRON	Ca_12458	M	--

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
Ca2_P3_31104284	Ca2	31104284	TTGTGTG/TTGTG	TCACAAATGGCAACCTT TCA	CGGAAGAGGTTTGGTG TGTT	60.1	862	INTRON	Ca_12452	F	--
Ca2_P3_31111896	Ca2	31111896	TAAAAAAA/TAAAAAAA	TCGGTAATTTGTGTCCC TCA	AGAAGTGATTGCTTGG TCGG	59.0	680	INTRON	Ca_12451	F	--
Ca2_P3_31131055	Ca2	31131055	ATTTTTTTTT/ATTTTTTTTT	TAATGGAGGATTCGGG TTTG	CCCTACACATTTTAGT CAAATCACC	59.8	493	INTERGENIC	--	--	--
Ca2_P3_31240228	Ca2	31240228	TCAA/T	CTGCCCCCACTATTTCT CAA	GAAACACTTGGCATGT TAAGGA	60.1	479	INTERGENIC	--	--	--
Ca2_P3_31280508	Ca2	31280508	GC/GCC	CCACTGTCGCACACAA AATC	TGCTTCCTTTTCCATCA TCC	60.2	834	INTERGENIC	--	--	--
Ca2_P3_3128367	Ca2	3128367	AATATATATATATATATATATATAT /AATATATATATATATATATATATATA TATAT	TTGTTTGACATTTTGCT TCCA	TGTAAGCCTGCAGAGT GGTG	59.2	396	INTERGENIC	--	--	--
Ca2_P3_31294019	Ca2	31294019	AG/AGAGG	AGACCGTCGGTTTCAA TGAC	AAAAATCTTTAACAAGC GGGT	60.0	494	INTERGENIC	--	--	--
Ca2_P3_31323113	Ca2	31323113	GATATATATATATATATATA/GATATATA TATATATATATATA	TGTTCAACCACCAAACGT GAA	TTCAATTTAAAGGCATC GTGA	60.0	901	INTERGENIC	--	--	--
Ca2_P3_31390103	Ca2	31390103	AATATATATATATATATATATATATAT ATATATATAT/AATATATATATATATA TATATATATATATATATATATATATAT ATATAT	TGCCTGTGCACTTTTTC TTG	CAAATTTGCAACTCAA TCTTCA	60.0	568	INTERGENIC	--	--	--
Ca2_P3_31534378	Ca2	31534378	CG/CGG	AGGAAAGCAACGTGAA CAGC	CCAAGACAGGCAAAGA AAGC	60.4	519	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
Ca2_P3_31542752	Ca2	31542752	TAAAAA/TAAAAAA	TCTGCATCCATGAATCA ATGT	TACCGTTTTATCGTCA GCCC	58.9	511	INTERGENIC	--	--	--
Ca2_P3_31551913	Ca2	31551913	TTGTG/TTG	TTGAAGTTGAAGTCGG ACCC	CTTGGCACTCAATATC GCAC	60.1	521	INTERGENIC	--	--	--
Ca2_P3_31577288	Ca2	31577288	CTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATA/CTAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TA	TTGCATTGCCTCACTT GAA	TGGTGAGAAACGTTGG ATGA	60.4	805	INTERGENIC	--	--	--
Ca2_P3_31647740	Ca2	31647740	CT/CTCTTGTGAT	CGAGTTGCAGCCACTG TTTA	ATGCGCACTTGCTTCA GAGT	60.1	552	INTERGENIC	--	--	--
Ca2_P3_31727649	Ca2	31727649	AATATATATATATATATAT/AAATAT ATATATATATAT	TCAAAATTGTCGGCAAA ATAAA	TCCCAACCACCAAGTA AAGC	59.5	763	INTERGENIC	--	--	--
Ca2_P3_31825776	Ca2	31825776	TAATATAATAATAA/TA	CTTTGAGCTTTGGCCA CTTC	AAGATGCCTCTGGGGC TAAT	60.0	945	INTRON	Ca_17837	J	--
Ca2_P3_31846061	Ca2	31846061	TTTATTATTATTATTATTATTATTAT TATTATT/TTTATTATTATTATTATTAT TTATTATTATTATTATT	GATTGGAGCACCATCC TCTC	TTGAGACAAAACGTT CAACC	59.6	805	INTERGENIC	--	--	--
Ca2_P3_31857388	Ca2	31857388	ATTT/ATT	GCCTAGACTTAAGCCG GTGG	GCACTCTCAGTGTAAC AAGTTTGA	61.1	532	INTERGENIC	--	--	--
Ca2_P3_31857743	Ca2	31857743	ATTTTTTT/ATTTTTTT	CAAACCTGTGTACACTGA GAGTGCAT	CATGCTTTCTCTACCA CCTCAA	59.8	630	INTERGENIC	--	--	--
Ca2_P3_31858178	Ca2	31858178	TTTAATATT/TTT	TGTGTTTCAGAGCTGC TAGTTGA	ATGAAAGGCATCCCAA AACA	60.2	368	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 (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
Ca2_P3_31882952	Ca2	31882952	CTTTATTTATTTAT/CTTTATTTATTTAT TTAT	TTTCTGGTGGGATCAG CTCT	GACATCTGCGCCAGT TATT	59.8	591	INTRON	Ca_17830	D	LBD
Ca2_P3_31883010	Ca2	31883010	AAGAG/AAG	TTTCTGGTGGGATCAG CTCT	GACATCTGCGCCAGT TATT	59.8	591	INTRON	Ca_17830	D	LBD
Ca2_P3_31883642	Ca2	31883642	TAA/TAAA	AATAACTGGCGCAGGA TGTC	TAAAGATGGCACCAGG AAGG	60.1	632	INTRON	Ca_17830	D	LBD
Ca2_P3_31898002	Ca2	31898002	TAAAAA/TAAAAA	TAAATTGGCCGACCAA AAAG	CCAAGGGGTAGACATG GAAA	59.9	838	INTRON	Ca_17828	I	C3H
Ca2_P3_31905190	Ca2	31905190	ATTTT/ATTTT	AATAAGGTGGTTTGGG GGAG	GGTATTCGTTGCGTCA TGTG	60.0	450	INTRON	Ca_17827	--	C3H
Ca2_P3_31922902	Ca2	31922902	CATA/CATATATA	AAAGGTGTTGGGATTG TCATT	GCTTGTTATGGCTTGA TCACC	58.3	394	INTERGENIC	--	--	--
Ca2_P3_31926664	Ca2	31926664	GTTTTTTT/GTTTTTTT	GGTAACACACCATTTTC CGC	TCTTTGGACATCGTCA TGGA	60.2	649	DRR	Ca_17824	--	ERF
Ca2_P3_31933147	Ca2	31933147	AAGTTTACTA/AA	ACGGAGCCAAACAAGA AAAA	ACGAATTGGCATGGCT AAAG	59.7	706	INTERGENIC	--	--	--
Ca2_P3_31933297	Ca2	31933297	ATTTTTTT/ATTTTTTTT	TTCAGTGTACTCCCTCC GTCT	ACGAATTGGCATGGCT AAAG	58.8	315	INTERGENIC	--	--	--
Ca2_P3_31939481	Ca2	31939481	TTTGATTGATTGATTG/TTTGATTGATT G	TCTTAAACCCAAACCG TGAA	GAGCTTTTGGGGGATA GAGG	59.5	490	DRR	Ca_17823	R	C3H

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 (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
Ca2_P3_31939517	Ca2	31939517	ACT/ACTCT	TCTTAAACCCAAACCG TGAA	GAGCTTTGGGGGATA GAGG	59.5	490	DRR	Ca_17823	R	C3H
Ca2_P3_31943749	Ca2	31943749	TAAA/TAAAAA	ACCATGTGCGATCAAG CATA	CCACGTGGAGGGTAAT ATGG	60.1	894	INTERGENIC	--	--	--
Ca2_P3_31944652	Ca2	31944652	T/TC	TCCACGTGGCAACTCA AATA	TGAAATTTGAGTCGT ACCCT	60.1	834	INTERGENIC	--	--	--
Ca2_P3_31958606	Ca2	31958606	AT/ATGTT	ACGTTGTCGGACATTC ATCA	TTGCAACTGACTTGAA TCCG	60.0	606	INTERGENIC	--	--	--
Ca2_P3_31963928	Ca2	31963928	GTACTT/GTACTTACTT	CCTCGAGAAACCCAGC TAGA	GCATTATGAGTTTGC CCTT	59.6	187	INTERGENIC	--	--	--
Ca2_P3_31964191	Ca2	31964191	AT/ATT	AAGGGCAAACATCATGA ATGC	CAAGGAAGGAGGAAAA GGAGA	60.1	609	INTERGENIC	--	--	--
Ca2_P3_31964265	Ca2	31964265	TG/T	AAGGGCAAACATCATGA ATGC	GGTGTGACAAAGGAAA CGTG	60.1	674	INTERGENIC	--	--	--
Ca2_P3_31964493	Ca2	31964493	AC/ACC	AAGGGCAAACATCATGA ATGC	TTGATGGTCACCTTTG TTGC	60.1	792	INTERGENIC	--	--	--
Ca2_P3_31964883	Ca2	31964883	GTTTTTTTTTTTTT/GTTTTTTTTT	GCAACAAAGGTGACCA TCAA	TTGTGCTTTGTGAGG TGAG	59.5	195	INTERGENIC	--	--	--
Ca2_P3_31977188	Ca2	31977188	TTAGTAG/TTAG	CTCCTTTTCCCTGTCTT CCC	GTCCCATGTTAAATGC TCCG	60.0	826	INTRON	Ca_17820	--	--

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
Ca2_P3_31981326	Ca2	31981326	AT/ATTT	ACGTTGTGTGGACAAT GAGG	TCCGGAGGGTTTTCT ACCT	59.4	353	INTERGENIC	--	--	--
Ca2_P3_31981661	Ca2	31981661	TA/TAAA	CCCTCCGGACTCAATA AACA	GTGCAGATCGCTAGTG TCCA	59.9	663	INTERGENIC	--	--	--
Ca2_P3_31983759	Ca2	31983759	ATTTTTTTTT/ATTTTTTTTTTT	GACACTTGTTGCGTAT GGGA	CAATGGAGATTCCAAC CTGT	59.6	555	INTERGENIC	--	--	--
Ca2_P3_31983903	Ca2	31983903	CTA/CTATA	GACACTTGTTGCGTAT GGGA	AGCCTTGCACTGATGT GTGA	59.6	858	INTERGENIC	--	--	--
Ca2_P3_31990534	Ca2	31990534	GTTTTTTTTTTTTT/GTTTTTTTTTTTT	GCTAAGTGCAATACTC GCCA	TTGCACCATTTGTTATG ATGG	59.1	136	INTERGENIC	--	--	--
Ca2_P3_32003428	Ca2	32003428	GTTT/GTTTT	AAGATGTTGTTTGAC GCAT	CCATCTATCACTTGCA GCAGTC	59.2	719	INTERGENIC	--	--	--
Ca2_P3_32004747	Ca2	32004747	ATTT/ATT	CGAATGAGAAATGGTG GACA	CTTCACCCCGCTTCAT TTT	59.5	741	INTERGENIC	--	--	--
Ca2_P3_32015355	Ca2	32015355	TAAAAA/TAAAAA	ATTTGCACAAAAGGAG GGAA	GCTATGCACATACGGC TGAA	59.5	654	INTRON	Ca_17819	V	GeBP
Ca2_P3_32032083	Ca2	32032083	ATATTTTATTTTT/ATATTTTATTTTTA TTTTT	TGACAACGCATACGTG GATT	AAATAACACGAAATCT AGCCCA	60.0	312	INTERGENIC	--	--	--
Ca2_P3_32034535	Ca2	32034535	AATATATA/AATATATATATATATA	CGGTGTTGAAGATGGG AAAT	GCACTTTTGAAGGCTG AAGG	59.8	874	INTRON	Ca_17818	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 (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
Ca2_P3_32038853	Ca2	32038853	TGCC/TGCCGGCC	TCCAAAGACAAGCTGCT CAAGG	TTCGGGGTATTACAAC GTCTTT	60.4	728	DRR	Ca_17818	R	--
Ca2_P3_32048288	Ca2	32048288	AC/A	CCAAATCGAACTCTCTC CTCA	CGTGATGCACCGATAA ATTG	59.4	634	DRR	Ca_17817	R	--
Ca2_P3_32048344	Ca2	32048344	CTTTTT/CTTTTTTT	CCAAATCGAACTCTCTC CTCA	CGTGATGCACCGATAA ATTG	59.4	634	DRR	Ca_17817	R	--
Ca2_P3_32057057	Ca2	32057057	ATTTTT/ATTTTTTT	AACCATCAATGTTTCGT GAGC	TTTCTTTGGCAGAAAT CATGG	60.0	575	INTERGENIC	--	--	--
Ca2_P3_32069395	Ca2	32069395	TTATATATATATAT/TTATATATATAT ATATATAT	ACCCCGTTGATCATAA GTCG	AAAATCCTGGCAGTCA TCGT	59.8	922	DRR	Ca_17815	U	--
Ca2_P3_32069472	Ca2	32069472	CTTTTT/CTTTTTTT	GGACCTTGTTAAATGTT GGCA	AAAATCCTGGCAGTCA TCGT	59.9	836	DRR	Ca_17815	U	--
Ca2_P3_32070956	Ca2	32070956	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TTTTCCGACTTGGTCC TTT	GGAGCTGAACTAACG CAGC	58.7	814	INTERGENIC	--	--	--
Ca2_P3_32078280	Ca2	32078280	ACTCT/ACTCTCT	CAAATTTGGGACTTCCT TTTT	GAGCCTCTATGTGGTT GCAC	57.3	624	INTERGENIC	--	--	--
Ca2_P3_32081128	Ca2	32081128	GTTT/GTT	TCAGCTGGTGCAAAAC AAAG	CCCTTCATCTCTACTC ACCTGG	60.0	226	INTERGENIC	--	--	--
Ca2_P3_32094277	Ca2	32094277	GTTTTTTTTTTT/GTTTTTTTTT	CCCTTTGAGAGACATAA TTGGG	GCTTCAGAGTCGGATT CAGG	59.8	479	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
Ca2_P3_32095584	Ca2	32095584	CTATATATATATA/CTATATATATATA TATA	CGATTTTCTTAATTCA CCGC	CCATGTTGGTTTCTTT CCAA	58.8	761	INTERGENIC	--	--	--
Ca2_P3_32095820	Ca2	32095820	CAT/CATAT	CAAGGATAATCTTAAT GTGGTTGG	GACATGATCTTGCAGC CAAA	60.0	596	INTERGENIC	--	--	--
Ca2_P3_32104385	Ca2	32104385	TAAAAAA/TAAAAAAA	ATATTGCACACTGCATC ACG	TGCAAAATGGAGGGA TTCT	58.2	760	INTERGENIC	--	--	--
Ca2_P3_32110176	Ca2	32110176	AAACAAA/AAAA	GCACCCTTCAAGAAGC AAAC	TTGGTCCATCGAATCA CTTG	59.9	221	INTERGENIC	--	--	--
Ca2_P3_32126579	Ca2	32126579	C/CCT	AGACAAGAAACCAAC GACG	CAAAATACCCAGTCC CTTT	60.1	897	INTRON	Ca_17812	O	--
Ca2_P3_32127033	Ca2	32127033	TGC/TGCGC	TGCAAGTTGTGATGGG TTGT	TGTCTGTTCTGCACGG AGTC	60.0	650	INTRON	Ca_17812	O	--
Ca2_P3_32130215	Ca2	32130215	ATTGAA/ATTGAATTGAATTGAA	CCGGGTCAGTTTCCTT CTTT	ACTCCACCAACTTCCA ATGC	60.5	388	INTRON	Ca_17811	J	--
Ca2_P3_32143712	Ca2	32143712	ATTTTTTT/ATTTTTTTTT	CCGTGAGGTTTAAGGG ATCA	GGATAACAAGCCACGA ACCT	59.9	974	INTRON	Ca_17808	--	G2-like
Ca2_P3_32145004	Ca2	32145004	TA/TACA	GGCCTTCAAATTCAT GAGA	TGGATACCTAGCACCT TAGCAA	59.1	598	INTRON	Ca_17808	--	G2-like
Ca2_P3_32147211	Ca2	32147211	TAAA/TA	TCATGCATCTAAGAAAT GAACCA	ATGAGAAGGCAAAGGA AGCA	59.6	517	INTRON	Ca_17808	--	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
Ca2_P3_32152633	Ca2	32152633	T/TA	GAGTTGGGTAGGTTAG GGGA	TTTCCCTTTTGCTTGT CAT	60.2	393	INTERGENIC	--	--	--
Ca2_P3_32161753	Ca2	32161753	TCCCC/TCCC	AGGCCATTAAGCATGA CACC	TTCTTGGAACCCTGCA TACC	60.0	867	INTERGENIC	--	--	--
Ca2_P3_32161954	Ca2	32161954	ATTTT/ATT	GTCCCAGACTTGGCT GTAA	AAACATTTGCGTTTC TTGG	60.1	638	INTERGENIC	--	--	--
Ca2_P3_32162834	Ca2	32162834	GTTTTTTTTT/GTTTTTTTTT	GGCCTTCACAATAAGC CAAA	TGGACAAATCATGTC TCTTTGA	60.1	803	INTERGENIC	--	--	--
Ca2_P3_32173774	Ca2	32173774	TC/T	ATGTTTTGATTGGGGC TTTG	TAAATCAGCCCTTTTG GTGG	59.8	631	DRR	Ca_17806	--	WRKY
Ca2_P3_32176027	Ca2	32176027	ATTTT/ATTT	ACCAAAGGAAGATGAC GTGG	ACAACCTCTGATGCTC GCAA	60.0	514	INTERGENIC	--	--	--
Ca2_P3_32203753	Ca2	32203753	TTTTTATATAT/TT	GGGCAATCCTGCAAT TTTA	GATGCACCGAATAAGG AAGC	59.9	390	INTRON	Ca_10295	--	G2-like
Ca2_P3_32209131	Ca2	32209131	T/TG	GCAAAGATAGACACCA CCCC	AACCATTCCCATGGAA CAAA	59.4	577	INTERGENIC	--	--	--
Ca2_P3_32209334	Ca2	32209334	CTATATATA/CTATA	TCCATGGGAATGGTTT GAT	TTGAAGAGGAAGTTT GGCA	60.0	342	INTERGENIC	--	--	--
Ca2_P3_32209671	Ca2	32209671	TC/TCC	TCCATGGGAATGGTTT GAT	TTTGTAGTGCACCAA TGTCAA	60.0	899	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
Ca2_P3_32210099	Ca2	32210099	CA/CAAAATA	TCAGCTTCAATTATCTC CAACAA	TCGGCGACAAAAATCA CATA	58.9	644	INTERGENIC	--	--	--
Ca2_P3_32210241	Ca2	32210241	TA/T	TGACATTGGTGCACAC TAAAAA	CCAGTCATCTTCCTT TGGT	59.1	505	INTERGENIC	--	--	--
Ca2_P3_32211817	Ca2	32211817	ATATTATTATTATTATTATTATTATT ATTATTATTATTAT/ATATTATTATTATT ATTATTATTATTATTATTATTAT	ATGGAATTCTGAATGGT GGG	CATGTGGATCGAAATG ATTTTT	59.6	365	INTERGENIC	--	--	--
Ca2_P3_32213171	Ca2	32213171	GTGAT/GTGATGAT	CAACATGACAAGGACT TTCCAA	TTACCGGTATCGCAAG GAAC	60.0	529	INTERGENIC	--	--	--
Ca2_P3_32213424	Ca2	32213424	CAAA/CAAAA	AGGGATAGATAACGGC ACGA	AAGGCCCTGCTAGAAT GATG	59.6	504	INTERGENIC	--	--	--
Ca2_P3_32218161	Ca2	32218161	GTTTTTTTTTTT/GTTTTTTTTTTT	ATTGTGCCGGAGCAAC TACT	TGTTACGGCTGTGAAT CTGG	59.8	138	INTERGENIC	--	--	--
Ca2_P3_32218604	Ca2	32218604	TATCTAAATCT/TATCTAAATCTAAATCT	ATTGTGCCGGAGCAAC TACT	TTGGAAATCAAAAAG GGTAAGA	59.8	966	INTERGENIC	--	--	--
Ca2_P3_32221226	Ca2	32221226	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT T	GCTTCAGTTGTTTCATCG CAA	CATTGTCCAACTGGC ACAT	60.0	507	INTERGENIC	--	--	--
Ca2_P3_32221530	Ca2	32221530	ATAATAATA/ATAATAATATTAATAATA	GCTTCAGTTGTTTCATCG CAA	CGTGCAAAAATGGAGG AAGT	60.0	836	INTERGENIC	--	--	--
Ca2_P3_32232018	Ca2	32232018	ATTTTT/ATTTTT	CCCTCCTCCAGCAAC ATTA	CGAGGAACTTTTGCAG ATGA	60.1	754	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
Ca2_P3_32234513	Ca2	32234513	AAAATTTGA/AAAATTTGAATTAATTTGA	TCGCATCCGTATTCGTT TTT	TAACCCGGTTTATCCA ATCG	60.5	778	INTERGENIC	--	--	--
Ca2_P3_32245950	Ca2	32245950	TA/TAGA	AACCGACAAAAGATTG CATGT	GCAGTTGCACAAGGTG GTAA	59.5	586	INTERGENIC	--	--	--
Ca2_P3_32255605	Ca2	32255605	A/AG	GGTAGAGGAGGTGTG GTGG	TACGGGGCCAAAATAA TCAA	59.4	435	DRR	Ca_10289	K	TALE
Ca2_P3_32259695	Ca2	32259695	TCAC/TCACAC	AAATGCAACTCCTTCCT CCA	TCAGCTTAAGGCTCTT GCTGT	59.7	833	INTRON	Ca_10289	K	TALE
Ca2_P3_32260990	Ca2	32260990	GAGAA/GA	TGTTGTTTCTCCAAC CCT	TTTACCTTCTTTTCG GGG	59.4	157	INTERGENIC	--	--	--
Ca2_P3_32261025	Ca2	32261025	AAAGAGAAGAGA/AAAGAGAAGAGAAG AGA	CCCCGGAAAAGAAGGT AAAA	CCTCTCTGTCTCCACC TGCT	60.3	126	INTERGENIC	--	--	--
Ca2_P3_32261783	Ca2	32261783	ATT/ATTGTTT	CAAAAGGTGCGTTGAT AATAACC	TTGTTGATTGAATTGAC CAAAC	59.8	290	INTERGENIC	--	--	--
Ca2_P3_32262011	Ca2	32262011	TAAAAA/TAAAAAA	CAAAAGGTGCGTTGAT AATAACC	CCTTCACAAATCCCAA CCTG	59.8	714	INTERGENIC	--	--	--
Ca2_P3_32262374	Ca2	32262374	GATATATA/GATATA	CAGGTTGGGATTGTG AAGG	GCCCGAATTGGTTGAA ATAA	60.3	292	INTERGENIC	--	--	--
Ca2_P3_32262643	Ca2	32262643	CAT/CATAT	TTATTTCAACCAATTCG GGC	GCCGGTGACATTTGT TTTC	59.8	485	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
Ca2_P3_32262689	Ca2	32262689	T/TCTA	TTATTTCAACCAATTGCGGC	GCCGGTGACATTTTGT TTTC	59.8	485	INTERGENIC	--	--	--
Ca2_P3_32262880	Ca2	32262880	G/GGAA	TTATTTCAACCAATTGCGGC	ATTGCCAACACACAC CAAA	59.8	747	INTERGENIC	--	--	--
Ca2_P3_32282292	Ca2	32282292	CATTAGTGATT/CATTAGTGATTAGTGA TT	ACCCTCCAGGGTGCTA AGAT	GCCAACTTTTCTGGT TGCT	60.0	726	INTRON	Ca_10287	S	--
Ca2_P3_32290065	Ca2	32290065	GTTAATTA/GTTA	ACTGATCGATGACCAT GCCT	TCGTGCTCACATTTC AAAA	60.5	941	INTERGENIC	--	--	--
Ca2_P3_32290375	Ca2	32290375	TAAAA/TAAA	TGATGCATTTGCCTCAT TTC	TCGTGCTCACATTTC AAAA	59.6	344	INTERGENIC	--	--	--
Ca2_P3_32290432	Ca2	32290432	TG/T	TGATGCATTTGCCTCAT TTC	TCGTGCTCACATTTC AAAA	59.6	344	INTERGENIC	--	--	--
Ca2_P3_32293814	Ca2	32293814	CT/CTTTGT	TGTATTTGGACGGGTG ACAA	TACACCCACGAAACGT GAAA	59.8	571	INTERGENIC	--	--	--
Ca2_P3_32326709	Ca2	32326709	TG/T	AGAGTTTGAACCCGGA CCTT	AGTGATACTAACCGGT GGCG	60.0	571	INTRON	Ca_10285	R	--
Ca2_P3_32328208	Ca2	32328208	CAACGTCACCTAACGTCACCTA/CAACGT CACTA	TCTGAAGGTTCAATCCC ACC	ATGGACAGCGGCTCA TTTG	59.9	520	DRR	Ca_10285	R	--
Ca2_P3_32339187	Ca2	32339187	CCTCT/CTCTCTCT	AGCAACCAAAATTTCCC ATT	TGGGACAATGACATCA AACAA	58.4	754	DRR	Ca_10284	R	C3H

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
Ca2_P3_32341023	Ca2	32341023	GAAT/GAATGTAAAAT	CAACCACCTTAAATGAC CACAA	AAAAACAATGTCATGC AGAGG	59.8	682	INTERGENIC	--	--	--
Ca2_P3_32347455	Ca2	32347455	ATTTTTTT/ATTTT	ACAAGCTGTTCCCTCC AGAA	TGAGGTTCTTGCACAA CTGC	59.8	678	INTRON	Ca_10283	--	--
Ca2_P3_32348598	Ca2	32348598	T/TAA	GGAGATATTTGGGTCA GCGA	AGACTCCACCGAGCGA GATA	60.0	265	INTRON	Ca_10283	--	--
Ca2_P3_32349885	Ca2	32349885	ATGT/ATGTGT	AAGTTGGAGGCTCAAA AGCA	AAAATTGCAAATGCAC ACCA	60.0	661	INTRON	Ca_10283	--	--
Ca2_P3_32349934	Ca2	32349934	CAAAA/CAA	ATTCTGACGCCTCTTG CACT	AAAATTGCAAATGCAC ACCA	60.0	390	INTRON	Ca_10283	--	--
Ca2_P3_32353407	Ca2	32353407	TGAAC/T	GAACGACAACAATTC GCCT	CAATGGATTCTTTGG CCTT	60.1	513	DRR	Ca_10283	--	--
Ca2_P3_32354453	Ca2	32354453	ATTT/ATT	TTCCAGCCAACCTCTG ATTC	TTTAGTGGTCCCTTGC CAAC	60.2	548	DRR	Ca_10283	--	--
Ca2_P3_32356323	Ca2	32356323	CAAA/CAAAA	GCTAGTTGCTGTGAAT GGCA	ACGTGTGGATGATTGG ATGA	60.0	711	INTERGENIC	--	--	--
Ca2_P3_32359801	Ca2	32359801	AGAG/A	TTGATGAGTTCGGTCAT GGA	AGCCGCTTAATTGATC GTTG	60.0	195	INTERGENIC	--	--	--
Ca2_P3_32361145	Ca2	32361145	ATT/ATTT	TGGGATTACTGCATTT CTGG	GCCGTTTCATATGTCG GTTT	59.9	610	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
Ca2_P3_32366421	Ca2	32366421	ATCAAAATTCAAAATT/ATCAAAATT	TCGTGACTTTGTCCATC ATTC	GCTTGGCAACATTCTT CACA	60.0	739	INTERGENIC	--	--	--
Ca2_P3_32370223	Ca2	32370223	AAAAAATTAATGAAAAATTAATGAAAA TTAA/AAAAAATTAATGAAAAATTAA	TCAAGCAAGTCACAACA TTCA	TGCTATTTTAATTGTGA GCATGAGA	59.4	637	INTERGENIC	--	--	--
Ca2_P3_32375875	Ca2	32375875	TAAAGAAAAAGAAAAAGAAA/TAAAGAA AAAGAAAAAGAAAAAGAAA	CATCTGCATACCCAAC ACG	GAGTGTTCAGCGGTC TCTC	60.0	168	DRR	Ca_10281	J	MYB
Ca2_P3_3237800	Ca2	3237800	CAAAAA/CAAAA	TAACAATCGTCGATGG AAGC	CAATTGGGACCTTGAT CTCC	58.7	469	INTERGENIC	--	--	--
Ca2_P3_32378634	Ca2	32378634	GTTTTT/GTTTT	GTGGAAGGTCGGTGGT CTTA	ACCACACCAATCCTT TCAA	60.0	144	INTERGENIC	--	--	--
Ca2_P3_32379585	Ca2	32379585	AATTAATTTT/AATTAATTTTGATTAATT TT	TGTGCGAGTTTATTGC GGTA	CATTGGTTCAAAATGT CATGG	60.3	624	INTERGENIC	--	--	--
Ca2_P3_32393042	Ca2	32393042	ATTTTTTT/ATTTTTTTTT	TGCCCATCCTTATGCTC TTC	ATCACGTGCAACCACA AGTC	60.2	626	INTERGENIC	--	--	--
Ca2_P3_32393090	Ca2	32393090	ATT/ATTTT	TGCCCATCCTTATGCTC TTC	ATCACGTGCAACCACA AGTC	60.2	626	INTERGENIC	--	--	--
Ca2_P3_32393117	Ca2	32393117	T/TC	TGCCCATCCTTATGCTC TTC	ATCACGTGCAACCACA AGTC	60.2	626	INTERGENIC	--	--	--
Ca2_P3_32393187	Ca2	32393187	AATAT/A	TGCCCATCCTTATGCTC TTC	ATCACGTGCAACCACA AGTC	60.2	626	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
Ca2_P3_32393441	Ca2	32393441	TGG/TGGG	TCGCACTTTTCGTGTA GGA	GGGCTTGTTCGACGCA TTAT	59.5	588	INTERGENIC	--	--	--
Ca2_P3_32393633	Ca2	32393633	TAACATAATAA/TA	GACTTGTGGTTGCACG TGAT	GGGCTTGTTCGACGCA TTAT	59.6	445	INTERGENIC	--	--	--
Ca2_P3_32395073	Ca2	32395073	TCTCTCA/T	AATGCAGTTTTACAA TGC	GTGGGGTTTGTGGTCC ATAG	58.6	418	INTERGENIC	--	--	--
Ca2_P3_32398215	Ca2	32398215	TTTAATTTATTAATTTATTAATTTATTA TT/TTTAATTTATTAATTTATTAATT	TTGTGTTGTGCCCC TTTA	TTGGATCTTGATCTCT CGCA	60.0	524	INTERGENIC	--	--	--
Ca2_P3_32408047	Ca2	32408047	ATTTTT/ATTTTTT	TGTCAACTGTTCTGTG GGA	TGAACGCAACTGGTAG CAAG	60.1	613	INTRON	Ca_10279	--	bHLH
Ca2_P3_32409946	Ca2	32409946	ATTTTT/ATTTT	TGGAGAGTTGAGAAGC CAGG	TACTCGAGGCCTCTCG CTAC	60.5	850	INTRON	Ca_10279	--	bHLH
Ca2_P3_32415535	Ca2	32415535	T/TCC	GGGATTGTGTTCAATC CAGG	ATCGATATACCAACGG CTGC	60.2	398	INTRON	Ca_10278	--	bHLH
Ca2_P3_32417829	Ca2	32417829	TTCT/TT	TTGGATACATGCCACC AGAG	GCCTAGGATCCACGAG TTTG	59.5	601	INTRON	Ca_10278	--	bHLH
Ca2_P3_32422110	Ca2	32422110	ATTTTTTTTT/ATTTTTTTTT	TATCAAAACCAAGCCC AAG	TTTGTAATTGTCGCAA CCCC	59.9	327	DRR	Ca_10277	--	--
Ca2_P3_32436418	Ca2	32436418	CG/C	TCACATGGTGGCATCC TAGA	CGAGTCATCCATGCTC TGTT	60.1	302	DRR	Ca_10275	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 (°C)	Expected 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_P3_32436855	Ca2	32436855	TAAAA/TAAA	CAGAGCATGGATGACT CGTAA	TGAAATCACTCGTTTT ATCTTAATC	58.9	658	INTERGENIC	--	--	--
Ca2_P3_32437527	Ca2	32437527	ATTTTT/ATTTTT	TTTTATGTTTCATGTCT CATTTTGA	TGCACAAACAATCCAA TGAA	57.8	537	INTERGENIC	--	--	--
Ca2_P3_32437597	Ca2	32437597	ATTTTT/ATTTTTT	TTTTATGTTTCATGTCT CATTTTGA	TGCACAAACAATCCAA TGAA	57.8	537	INTERGENIC	--	--	--
Ca2_P3_32453109	Ca2	32453109	ATTTTT/ATTTTTTTT	TCTTCACACAATCCCAC CAA	CTCAAGTCGACAAGCC TTCC	59.9	659	INTERGENIC	--	--	--
Ca2_P3_32477117	Ca2	32477117	TTGTT/TTGTTGTT	CTGCAATGATAATTGG GGCT	CAACTGCAATGTTCCA TATTCG	59.9	555	DRR	Ca_10273	R	C3H
Ca2_P3_32480547	Ca2	32480547	CTACTTA/CTA	TCCACATGCTTCCAATC AAA	TGTTGTGTGTGCAGAAA CGTTCA	60.0	559	INTERGENIC	--	--	--
Ca2_P3_32510389	Ca2	32510389	TGGGGGGGGG/TGGGGGGGGG	TACTGGCTGATTTGCG ACAG	CATATTTGACAAGGAC CGGG	60.0	880	INTRON	Ca_10271	O	GATA
Ca2_P3_32520939	Ca2	32520939	ATTTTT/ATTTTTT	AACATGGAAGATCGGT TGGA	GATCAATGCGAGTTTG TTGG	60.3	318	INTERGENIC	--	--	--
Ca2_P3_3262653	Ca2	3262653	TTATATATATATATATATATA/TTA TATATATATATATATATATATA	TGAGAAAATGAAAGAAT TAATGGTC	AAGTGACAAAACCGC AACC	57.9	740	DRR	Ca_10525	Q	Nin-like
Ca2_P3_32672427	Ca2	32672427	TC/T	ATTCACAGTTTCTGGAT GGC	ATAAGGCAGTGCGCTA GAGC	59.9	452	DRR	Ca_10254	DR	--

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
Ca2_P3_32713700	Ca2	32713700	TTTTTTTT/TTTTTTTTTT	AACGCATCGGTAAACA CTCC	GAGGTACTACAGCTTG CCCC	60.0	234	INTERGENIC	--	--	--
Ca2_P3_32713890	Ca2	32713890	AAAAACAAA/AAAAACAAAACAAA	AACGCATCGGTAAACA CTCC	TGTTTTGCAGCAAGAT GTCC	60.0	695	INTERGENIC	--	--	--
Ca2_P3_32861621	Ca2	32861621	AATATATATATATATAT/AATATATATAT ATATATAT	TTTTTCTGTTTCATTT CACTTCAA	TTGAAACACCAAAAA GGGG	59.3	584	INTERGENIC	--	--	--
Ca2_P3_32934778	Ca2	32934778	TTAAATAAATAAATAAATAA/TTAAATA AATAAATAAATAAATAA	ACAGCGACACGAAGGA CTCT	GGAACAAGTTTCCGTG AAGG	60.1	396	INTRON	Ca_10230	OJ	MYB_related
Ca2_P3_32938114	Ca2	32938114	AATATATATATATATATATAT/AATAT ATATATATATATATATATAT	ATTTGATGTGGGTGTG CGTA	ATTAAGGGCAACCCC AAAT	59.8	303	INTERGENIC	--	--	--
Ca2_P3_32970157	Ca2	32970157	TAATCAAAGTGGTATAATCAA/TAATC AA	GGTCAATTCGCGAATT AGTTA	TCAGATTCAGCTGGAC AAAGA	58.3	609	INTERGENIC	--	--	--
Ca2_P3_33030318	Ca2	33030318	AATATATATATATATATATATATAT/A ATATATATATATATATATATAT	CAGCATGGGTTCATGC ACTA	GCAAATTGGAATGAGT TGGTC	60.7	601	INTERGENIC	--	--	--
Ca2_P3_33068395	Ca2	33068395	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATAT	CTCTTTTAGATCGCAAC CGC	TAGGTTGGAGTTGGGA CCAG	60.0	881	DRR	Ca_10217	--	--
Ca2_P3_3312282	Ca2	3312282	TGAAGAAGAAGAAGAAGAAGA/T GAAGAAGAAGAAGAAGAAGAAGA A	AATTGAGCCTTTTGCCA TTG	TCCCTCCTTCACTCT CCTT	60.1	215	INTERGENIC	--	--	--
Ca2_P3_3321788	Ca2	3321788	TT/TTAGCCCAAAAT	GAGGGTGGGGATCAAA CTCT	ACCACAACGGACAAAA GAGG	60.3	152	CDS (FRAME SHIFT)	Ca_10520	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 (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
Ca2_P3_33257195	Ca2	33257195	ATTTTTTTTT/ATTTTTTTTT	ATCGCATTTTGCCTTTG TTT	GCTGTCGTTTGCAAGCA TAAA	59.6	801	INTERGENIC	--	--	--
Ca2_P3_33278516	Ca2	33278516	ATGTTGTTGTTGTTGTT/ATGTTGTTGT TGTGTTGTT	AGGGGTCACATGGTTT TGAA	AGGTGGTTGCTGATAG GTGG	60.2	335	INTERGENIC	--	--	--
Ca2_P3_33306373	Ca2	33306373	TTATATATATATATATATA/TTATATATA TATATA	GAATCCGTTTCCGAGT TTGA	TCAATGGAAATCAAAG TTGAAGG	60.1	644	INTERGENIC	--	--	--
Ca2_P3_33398330	Ca2	33398330	TCACA/TCA	AGTCAATGGCATGAGA AGGC	AAATGCAGGGTCACAA CACA	60.2	513	DRR	Ca_10186	T	M-type
Ca2_P3_33405227	Ca2	33405227	AATATATATATA/AATATATATA	AAAGAGACATGACTTTG TCCATCA	TTTCGCTACCCATCAT ACCC	60.0	586	INTERGENIC	--	--	--
Ca2_P3_33447451	Ca2	33447451	AATATATATATATATATATATATATAT ATATATATAT/AATATATATATATATATA TATATATAT	CCTGAAACAAACGCAT CCAT	TTCTTGCCACTTGAGT GTGG	60.9	487	INTERGENIC	--	--	--
Ca2_P3_33523362	Ca2	33523362	GTTTTTTTTT/GTTTTTTTTT	TCAGCTGGAGTGGATG AGTG	TGCAAGCATTGGTTGA AATG	60.0	447	DRR	Ca_10181	--	--
Ca2_P3_33565335	Ca2	33565335	TAAAAAAAAA/TAAAAAAAAA	CGTCGTTTGAGTACGA TGTTG	TAACTTTTGGCTGGCA TGTG	59.3	754	INTERGENIC	--	--	--
Ca2_P3_33565533	Ca2	33565533	CTTTT/CTTTT	AATGAAGATGCGTGCA ATTTA	TAACTTTTGGCTGGCA TGTG	58.3	159	INTERGENIC	--	--	--
Ca2_P3_33639211	Ca2	33639211	GAA/GAAA	TGGCAACATGTTGTC CTAAA	AGAGAGCAAACATTTC CGTCG	59.1	230	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 (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
Ca2_P3_33809112	Ca2	33809112	GATATACATATACATATACATATACATA TACATAT/GATATACATATACATATACA TATACATAT	TTAATCAAATGCACCGA CCA	GCGATCGTGAGTGAGT TCAA	59.9	462	DRR	Ca_10155	--	--
Ca2_P3_33887480	Ca2	33887480	TTATATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	GTCCATCAAATGGAC CACC	ATTCATGCCTTTTGGC ACTT	60.0	703	DRR	Ca_10149	--	--
Ca2_P3_33947237	Ca2	33947237	TTATATATATATATATATATATATA/TTA TATATATATATATATATATATATA	TCCTTCGCCAATATTTT GTTTT	TTTGAGTCGGAGTTGT CGGT	59.9	426	INTERGENIC	--	--	--
Ca2_P3_33959397	Ca2	33959397	ATATTTATTTATTT/ATATTTATTT	GGCTAATTTTCGTTATA TGGATGC	ACTAGTGATGGCCGAA ATGG	60.1	764	INTERGENIC	--	--	--
Ca2_P3_33978678	Ca2	33978678	CATATATATATATATAT/CATATATATAT ATATATAT	AGGAAGAGTGGAGTTG CGAA	TGCGTTACGGTGAAT GGTA	60.0	364	INTERGENIC	--	--	--
Ca2_P3_33984310	Ca2	33984310	CTATATATATATATATATATATATA/C CATATATATATATATATATATATATAT A	TGGCTATGATCACAATT GGC	CCCTTTGCAAGAGACT CCAA	59.5	869	INTERGENIC	--	--	--
Ca2_P3_33984629	Ca2	33984629	CAAAA/CAAA	AACAAAGCAGAAATATC CTGTGC	AGCATAGCCAAAACCC CTTT	59.7	389	INTERGENIC	--	--	--
Ca2_P3_33986265	Ca2	33986265	TT/TTATAT	AACTTTGGATCTACACG CGA	ACTCCAAGATCATCAT CGGC	58.4	623	INTERGENIC	--	--	--
Ca2_P3_34028835	Ca2	34028835	AC/A	AAAGGGGTTTTGGCTA TGCT	CATGATCATAATTGCAT GGAAAA	60.0	229	INTERGENIC	--	--	--
Ca2_P3_34087701	Ca2	34087701	CATATATATATATATATAT/CATATATAT ATATATATATAT	ATGGTGAGTGGAGCACT TTCC	AACAAACAGCCATTCC AAGG	60.0	707	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
Ca2_P3_34093725	Ca2	34093725	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	CAATCCTTTGGCTTTTG GAA	TGCAGCATGACTTT TCCT	60.0	509	INTERGENIC	--	--	--
Ca2_P3_34213186	Ca2	34213186	T/TAAG	GACACCATTATCGAAG GCGT	AGTATCGGACACCAAA AGCG	60.0	249	INTERGENIC	--	--	--
Ca2_P3_34224429	Ca2	34224429	TAAAA/TAAAA	AGGGGTGGAAGGAGA GAGAA	AACGGAAAACGTCAAT CTGG	60.2	698	INTERGENIC	--	--	--
Ca2_P3_34224923	Ca2	34224923	ATTTTTTTTT/ATTTTTTTTT	CCAGATTGACGTTTTCC GTT	TGGGATGAGTTTGTT GAGTTT	60.0	366	INTERGENIC	--	--	--
Ca2_P3_34272124	Ca2	34272124	AATATATATATATATATATATA/AA TATATATATATATATATATA	GGCACCTCATATGCAA CCTT	TGGCACCAAACTTACA CCAA	60.0	652	DRR	Ca_15251	--	WRKY
Ca2_P3_3428568	Ca2	3428568	AAATAATAATAATAATAATA/AAAT AATAATAATAATAATA	TTGATTGACACGTTTAC TTGCAT	GGAGCAAACACATAAG GGTG	59.6	688	INTERGENIC	--	--	--
Ca2_P3_34331090	Ca2	34331090	CTTTT/CTTT	TTTTGCAGTTGAAGTAT CACAAA	TTCACGCTCCACAACA AGAG	57.6	698	INTERGENIC	--	--	--
Ca2_P3_34344410	Ca2	34344410	TATTTATTCATTTATT/TATTTATT	GTCGTTCAATTTCTGTG CCA	GCACCAAAACACATCAA CCAA	59.7	231	DRR	Ca_15262	--	bZIP
Ca2_P3_34353539	Ca2	34353539	CATATATATATATATATATATATAT AT/CATATATATATATATATATATATA TAT	CATGAGCTTGAGTCGC AAAA	TAGGAGGCATATGTGA GGGG	60.1	760	INTERGENIC	--	--	--
Ca2_P3_34353805	Ca2	34353805	GTTTTTTTT/GTTTTTTTTT	AGTTGAAGGAGTGTCAT GAGGA	TAGGAGGCATATGTGA GGGG	59.9	633	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
Ca2_P3_34355206	Ca2	34355206	CTTGGGCT/CTTGGGCTTTGTTGGGCT	TCTTTGATGCAATGCCA GAG	ATCATTGAGGTGCCA TCAT	59.9	975	INTERGENIC	--	--	--
Ca2_P3_34355457	Ca2	34355457	TAAAAAA/TAAAAAA	ATTCTTGGGCTGTGTTT TGG	GGGTGATGAGGACTG GTTGT	60.0	725	INTERGENIC	--	--	--
Ca2_P3_34357732	Ca2	34357732	CATATATATATATATATATATATATAT AT/CATATATATATATATATATATATA TATATATATATAT	CATGAGCTTGAGTCG AAAA	GCAACAAGATGGGGAC AAGT	60.1	654	INTERGENIC	--	--	--
Ca2_P3_34450150	Ca2	34450150	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATAT	AGCTAGCTCAGAATGC AGCC	CCCACAAAACCTTGCTT CGTT	59.9	324	INTERGENIC	--	--	--
Ca2_P3_34499214	Ca2	34499214	A/AAAATT	ATGGGATTCTTGAGCC TGTG	CCTTGGGAGCAGTCTC TGTC	60.1	680	INTERGENIC	--	--	--
Ca2_P3_34540051	Ca2	34540051	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GAATTTGCAGAAGCAC ACGA	TTCCATAGCTAACACG TGCG	60.0	456	INTERGENIC	--	--	--
Ca2_P3_34562775	Ca2	34562775	TCTTTA/TCTTTACTTTA	ATAGCGTGCAACGATC CTCT	CATAGCGCCCATAAAA GGAA	59.9	515	INTERGENIC	--	--	--
Ca2_P3_34683422	Ca2	34683422	TA/T	GTTTTTCGCAACCACTT TTC	TCGAGTTCAAATTTTG GTTGG	59.6	115	INTERGENIC	--	--	--
Ca2_P3_34683764	Ca2	34683764	TC/TCC	GTTTTTCGCAACCACTT TTC	CGCTTTTGCCTAAC CTCC	59.6	682	INTERGENIC	--	--	--
Ca2_P3_34684386	Ca2	34684386	CAACGTTAAC/CAAC	ACAATACTGCGGCCTG TTTC	GATTCCGATCGTTTTT CACG	60.1	830	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
Ca2_P3_34684591	Ca2	34684591	TTATATATATATATATATATATATATA /TTATATATATATATATATATATATATA	TGGAGTTTGTGTGAT GGACA	GATTCCGATCGTTTT CACG	60.0	758	INTERGENIC	--	--	--
Ca2_P3_34684688	Ca2	34684688	CATCTT/C	CGTAGCTAGCAAATGC AACAA	ATTCCGATCGTTTTCA CGA	59.8	229	INTERGENIC	--	--	--
Ca2_P3_34684923	Ca2	34684923	ATTTTTTT/ATTTTTTTT	TCGTGAAAAACGATCG GAAT	TGCTTGATTTAATGGA TGCC	60.4	550	INTERGENIC	--	--	--
Ca2_P3_34684966	Ca2	34684966	TAAAAA/TAAAA	CGTGAAAAACGATCGG AATC	TTGCCCTTAAATGAC ATGC	60.4	593	INTERGENIC	--	--	--
Ca2_P3_34685695	Ca2	34685695	ATTTTT/ATTTTTTT	CCCCATTTGTTTCTCT CCA	TTGTTTCTCCCGATTT TGG	59.9	234	INTERGENIC	--	--	--
Ca2_P3_34685921	Ca2	34685921	TAAAAAA/TAAAAA	CCAAAACCTGGGAGAA ACAA	TACGATAGGGGGATCT CACG	59.9	503	INTERGENIC	--	--	--
Ca2_P3_34706742	Ca2	34706742	GAAAAA/GAAAA	CTCTCTCTCCATCTCG GCAC	AAAGTAGCCGGCAAGG TCTC	60.1	459	INTERGENIC	--	--	--
Ca2_P3_34883646	Ca2	34883646	GATATATATATATATATATATATATA TATATATAT/GATATATATATATATAT ATATATATATATATAT	AGTCCCTTCGAAAAATG GCT	TTTGAAGGGGGAGAAG AGGT	60.1	650	INTRON	Ca_16880	S	--
Ca2_P3_34983521	Ca2	34983521	AATATATATATATATATATATATATAT ATATATATATA/AATATATATATATATAT ATATATATATATATA	CAAAATGCATGCTCCCC TAAT	CTAAAAGCCCAAAGCT GCAC	59.9	450	INTERGENIC	--	--	--
Ca2_P3_35031076	Ca2	35031076	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATA TATAT	CGTAACTCTCAATTGGC AATGTT	TGTCACCATGCATATC CCAC	60.4	788	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 (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
Ca2_P3_35180722	Ca2	35180722	GTATATATATATATATAT/GTATATAT ATATATATATATATAT	TTTAACCGCAATTTAAT TCATCA	GGTCTCCCTATATCAC GCCA	58.6	301	INTERGENIC	--	--	--
Ca2_P3_35258590	Ca2	35258590	A/ATT	AAAAAGTTTTTAACACGG AGGTTTTT	TGTTGTTGGATTGGAC ATGG	59.8	487	INTERGENIC	--	--	--
Ca2_P3_35273988	Ca2	35273988	CTAGATATTT/CTAGATATTTAGATATT T	GATTAAGCGATGGAGG ACCA	CCTTTCCTTTCCCTCC AAA	60.0	555	INTERGENIC	--	--	--
Ca2_P3_35288109	Ca2	35288109	ATTTTT/ATTTTTTT	TGCTTTATAGTGCTATT ATGTGCCA	CGTCATTAAGGGAA ACCAA	60.1	757	INTERGENIC	--	--	--
Ca2_P3_35288459	Ca2	35288459	TT/TTAT	TTCGATGGTATGCAGT AATTGG	TTCCCATGAAAGAGAG GTGG	59.9	433	INTERGENIC	--	--	--
Ca2_P3_35297767	Ca2	35297767	CTGAACTG/CTGAACTGAATTGAACTG	ACCAGGAAAAGAAGAA GGGC	TTTTGGGTTGGGATGA CATT	59.7	535	INTERGENIC	--	--	--
Ca2_P3_35298056	Ca2	35298056	TA/TAA	AATGTCATCCCAACCCA AAA	TCGCAATAAAAACATAT AAAACCA	60.0	190	INTERGENIC	--	--	--
Ca2_P3_35303488	Ca2	35303488	ATTTTT/ATTTTTTT	TTCCGAATAAGGATTTT TTGG	ATGGTTTGGGGAAAG AACC	58.2	137	INTERGENIC	--	--	--
Ca2_P3_35304698	Ca2	35304698	C/CG	GCTTGAAACAGCCTC AGAC	CAGGGTGGTACTGCAA TGTG	60.0	536	INTERGENIC	--	--	--
Ca2_P3_35329169	Ca2	35329169	AATATATATATATATATATATAT/A ATATATATATATATATATAT	CAATTTTGGAAGACGAT TTTGA	TGTCCCGAAAAAGTTC ATCC	59.1	330	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 (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
Ca2_P3_3575424	Ca2	3575424	TAAAAAAAAAAAA/TAAAAAAAAAAAA	AATTTAGCGTGGTGTTCG	AAGGACAATGGGGACATCAA	60.0	815	INTERGENIC	--	--	--
Ca2_P3_35789864	Ca2	35789864	AATTTGATTT/AATTTGATTTGATTT	TGCCTGCGAGATCTTATCA	CCAAATCGAACCCTAAC	59.5	365	INTERGENIC	--	--	--
Ca2_P3_35815027	Ca2	35815027	ATTTTTTTT/ATTTTTTTT	TAAGACCATGCATCTCACGC	CGTGATGGATCAAACTAGG	59.8	650	INTERGENIC	--	--	--
Ca2_P3_35834317	Ca2	35834317	TTATATATATATATATATATATAT/TTATATATATATATATATATATAT	CAAACCGTATTAGCCTCACCA	GGTTGAAGATGTTTCGTCGGT	60.0	675	INTRON	Ca_09758	O	MYB
Ca2_P3_35846531	Ca2	35846531	ATT/ATTT	TTATTTGTTTCGGTGGCAACA	TGATCGGAATGCGAATAACA	60.0	455	DRR	Ca_09760	J	--
Ca2_P3_35848640	Ca2	35848640	TAAAAAAAA/TAAAAAAAA	CAGGGGTGATAGGATCAGGA	CCCCAACCTTCACTTTTCC	59.9	323	INTRON	Ca_09761	E	MYB
Ca2_P3_35848756	Ca2	35848756	TGG/TG	CAGGGGTGATAGGATCAGGA	ACAAGCAGGCCACAAAGTCT	59.9	804	INTRON	Ca_09761	E	MYB
Ca2_P3_35853362	Ca2	35853362	A/AT	TCTACGCTTGACGTGCTGA	GAAAGAACAGCTGGGCAAC	58.2	615	INTERGENIC	--	--	--
Ca2_P3_35853696	Ca2	35853696	AAATAA/AAA	GTTGCCAGCTTGTTCTTTC	GGGAGATGGGTGTTTATGC	59.9	404	INTERGENIC	--	--	--
Ca2_P3_35853969	Ca2	35853969	TATTGCATTG/TATTG	GTTGCCAGCTTGTTCTTTC	GCATGCATGTGTCTTTGGAT	59.9	644	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
Ca2_P3_35855468	Ca2	35855468	CTTTATGTT/CT	TGATTGCGAAAATGGA AAAG	AGCCTCTGAAGCAAAA ACCA	58.7	429	INTERGENIC	--	--	--
Ca2_P3_35855865	Ca2	35855865	CAATGAATGA/CAATGA	TGGTTTTTGCTTCAGAG GCT	CTCAACATGTCCACCA GCAC	60.0	592	INTERGENIC	--	--	--
Ca2_P3_35859193	Ca2	35859193	GAAAAAAAA/GAAAAAAAAA	AACAATGCCAACATTAC GCA	TACTGGAGGCTGTTGG AAGG	60.0	720	INTRON	Ca_09762	R	--
Ca2_P3_35860824	Ca2	35860824	TAA/TA	GGCCTTTGTGATACCC TCAA	GGACCAAAGTGTGGA CGAT	59.9	221	INTRON	Ca_09762	R	--
Ca2_P3_35866879	Ca2	35866879	TAAAAAAAA/TAAAAAAA	AAGGCGATGCATGAAA GTCT	TCGAGATGTCCCCTTA ATGC	59.7	578	INTERGENIC	--	--	--
Ca2_P3_35892945	Ca2	35892945	CAAA/CAA	CTCCAAATGGCAACCA AAAT	TTTAGGGGTGGACAAA ATTCA	59.8	510	INTERGENIC	--	--	--
Ca2_P3_35893338	Ca2	35893338	TAAAAAAAA/TAAAAAAA	CTCCAAATGGCAACCA AAAT	ACTTTGGGCCAAGCT AACC	59.8	611	INTERGENIC	--	--	--
Ca2_P3_35893619	Ca2	35893619	TAAAA/TAAAAA	GGTTAGCTTGGCCCAA AAGT	GGGTAGAGTGGAGGA AAGGG	60.5	628	INTERGENIC	--	--	--
Ca2_P3_35893811	Ca2	35893811	ATTTTTTT/ATTTTTTT	GGTTAGCTTGGCCCAA AAGT	GGGTAGAGTGGAGGA AAGGG	60.5	628	INTERGENIC	--	--	--
Ca2_P3_35895369	Ca2	35895369	GT/GTT	CCAAAGGGTAAACGTG TCGT	TGCATGGAATCCAATT CTGA	59.9	510	INTRON	Ca_09764	T	--

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
Ca2_P3_35896805	Ca2	35896805	TG/T	GTTGATGATGAATGGG GTCC	CCAGGAGGAGATTGGA ATGA	60.0	371	INTRON	Ca_09764	T	--
Ca2_P3_35897304	Ca2	35897304	AAGTTGTAGTTGTA/AAGTTGTA	TCATTCCAATCTCCTCC TGG	TTTACCTCGAGCTGGG AGAA	60.0	776	INTRON	Ca_09764	T	--
Ca2_P3_35899592	Ca2	35899592	TAA/TAAA	GGTGGAAACATCTCCAA GGAA	CTCAGACTACAACCTC GCC	59.9	768	DRR	Ca_09764	T	--
Ca2_P3_35899927	Ca2	35899927	C/CTTTTT	AAGGAAAGGGAGACAC ATCG	TCCTCTCTCCACTGC GATT	59.1	910	DRR	Ca_09764	T	--
Ca2_P3_35905548	Ca2	35905548	CA/CAA	AATCTCCGCAAAAGTCA GGA	GAACATCAACCTTTGG CTGC	59.8	635	INTRON	Ca_09765	G	--
Ca2_P3_35914177	Ca2	35914177	A/AT	ACAAATGCATGGGAAT GACA	GGGGGAGACTCATCAC TCAA	59.8	182	DRR	Ca_09766	--	ERF
Ca2_P3_35915430	Ca2	35915430	TTCTTCTTCATC/TTC	TGGCTTCTTCTATGGCT GCT	CCTCTTCTGCACCTG AAAG	60.1	169	CDS (large-effect mutations)	Ca_09767	M	--
Ca2_P3_35918565	Ca2	35918565	TAAAAAA/TAAAAAAA	TGCATGTCCATATTATT GCC	TTTTCAACGCTACCTTC ATCA	60.6	462	DRR	Ca_09767	M	--
Ca2_P3_35924105	Ca2	35924105	GACTTATAAATTTC/GACTTATAAATT TCAC TTATAAATTTC A	TCCAACCTCAATCACCA ATG	GGATGTGAAAGGGTCT CCAA	59.3	543	INTERGENIC	--	--	--
Ca2_P3_35925644	Ca2	35925644	TG/T	TTGTTCAGTGACCTGC AAGC	TCACGTGTTGGTGGGT TATC	60.0	758	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 (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
Ca2_P3_35928233	Ca2	35928233	GTT/GTTT	TGTTTTGATTTATTG TTTGGTGA	ACAAAAATGACCAGCA ACCG	59.7	820	INTERGENIC	--	--	--
Ca2_P3_35936801	Ca2	35936801	ATAAAAGC/A	TTCTTGACCAATGAATG CCA	GGGAGTGCCTCCACTT TTCT	60.0	711	INTRON	Ca_09768	--	SAP
Ca2_P3_35938206	Ca2	35938206	AAGA/AA	TGCATATATTGCTGCAG GTTG	ATCAATGAAGTTTGGC CTGC	59.7	453	INTRON	Ca_09768	--	SAP
Ca2_P3_35939216	Ca2	35939216	G/GT	TGTAAAAGTTGAGTGG TGTGTTTC	TTTGCCTTAGAAACCG GAGA	58.3	320	INTERGENIC	--	--	--
Ca2_P3_35939475	Ca2	35939475	CAAAAAAAAA/CAAAAAAAAAA	TCTCCGTTTCTAAGG CAAA	GGGCTCCACAAAAATC TCAA	59.8	413	INTERGENIC	--	--	--
Ca2_P3_35939549	Ca2	35939549	TATAATA/TATA	TCTCCGTTTCTAAGG CAAA	GGGCTCCACAAAAATC TCAA	59.8	413	INTERGENIC	--	--	--
Ca2_P3_35940064	Ca2	35940064	CAAA/CA	TTGAGATTTTGTGGAG CCC	AAGGAGGATTAGGGAT GCGT	60.1	826	INTERGENIC	--	--	--
Ca2_P3_35941960	Ca2	35941960	TGAATAC/TGAATACGAATAC	GGATGGATTGAAATTG CAGG	TTTCGCCATCCAAGAT TTTC	60.3	423	INTERGENIC	--	--	--
Ca2_P3_35942197	Ca2	35942197	T/TA	GGATGGATTGAAATTG CAGG	TTTCGCCATCCAAGAT TTTC	60.3	423	INTERGENIC	--	--	--
Ca2_P3_35942518	Ca2	35942518	ATT/ATTT	GAAATCTTGGATGGC GAAA	TTTTTGCCGTTATGCG TGTA	60.0	264	DRR	Ca_09769	--	--

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
Ca2_P3_35943158	Ca2	35943158	TCCCC/TCCCCC	TGAATCCACGCTCCAA CATA	GCAATTGTTATTGTG GCGG	60.1	434	DRR	Ca_09769	--	--
Ca2_P3_35944288	Ca2	35944288	TAAAAAA/TAAAAAAA	GCATATGCAAAATGCC ACTG	CTGTTTTCGCCCATAG GATT	60.1	352	CDS (FRAME SHIFT)	Ca_09769	--	--
Ca2_P3_35944964	Ca2	35944964	CAAAA/CA	TCCAACCATACCTGAAA GGC	CTCGTGCGAACTTGTG TGTT	59.9	313	CDS (large-effect mutations)	Ca_09769	--	--
Ca2_P3_35945318	Ca2	35945318	CCAA/C	AACATCATACTTTTGGC GGC	GCCTGAAATATGCCGA GGTA	60.0	417	INTRON	Ca_09769	--	--
Ca2_P3_35945786	Ca2	35945786	CTATA/CTATATATA	TACCTCGGCATATTCA GGC	ATGCAGTTTTTGATT TTGC	60.1	776	INTRON	Ca_09769	--	--
Ca2_P3_35955676	Ca2	35955676	GTTTTTTT/GTTTTTTTT	TGAATTTGCAGTGTGG GGTA	TGAACAAGATTGCACC GTTT	60.0	667	INTERGENIC	--	--	--
Ca2_P3_35955931	Ca2	35955931	TCACACA/TCACA	AAATGTCAATTTCAAAC CCCC	GTGATCCCTTTGTCCC AAAA	59.9	792	INTERGENIC	--	--	--
Ca2_P3_35960202	Ca2	35960202	CAAAAA/CAAAAAA	AGAGGACTTGTGTTGC ATCC	TCCATTATAAGAGAAT GTCCCCA	57.7	707	DRR	Ca_09770	--	--
Ca2_P3_35960498	Ca2	35960498	TAA/TA	TGTGGCAAGTTTTAAAC AAATGA	TGAGTGGAGTGTGAAT GAAAATG	59.6	663	DRR	Ca_09770	--	--
Ca2_P3_35961760	Ca2	35961760	C/CTTATCT	TCATCAAAGACATTCGT GCC	TTCGACAATATGGCCA ATGA	59.7	573	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 (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
Ca2_P3_35961921	Ca2	35961921	TAAA/TAAA	AGACGCTCATCACTCA ATTTCA	TTCGACAATATGGCCA ATGA	59.9	251	INTERGENIC	--	--	--
Ca2_P3_35962691	Ca2	35962691	ATTTTTTT/ATTTTTTTT	TGAGTCATGAGATCGA CGAAA	TTCAAATTTAACGGTTG GATCA	59.4	367	INTERGENIC	--	--	--
Ca2_P3_35962726	Ca2	35962726	GAAAA/GAAAAA	TGAGTCATGAGATCGA CGAAA	TTCAAATTTAACGGTTG GATCA	59.4	367	INTERGENIC	--	--	--
Ca2_P3_35963890	Ca2	35963890	AATATAT/AATAT	GTCAAGGAACTCGAT CCCA	TACCAAAGCGGCAGAG AGAT	60.1	683	INTERGENIC	--	--	--
Ca2_P3_35965669	Ca2	35965669	GTTTTAATTTTT/GTTTT	TGGAAGAATGCTTTCAA GGG	ACATTCCATGGGCTGC TTAG	60.2	636	DRR	Ca_09771	J	NAC
Ca2_P3_35965829	Ca2	35965829	CAAAAA/CA	ATTTTTCTGCTAGCGG GACC	ACATTCCATGGGCTGC TTAG	60.6	260	DRR	Ca_09771	J	NAC
Ca2_P3_35966120	Ca2	35966120	TT/TTAT	AGCCCATGGAATGTGA AAAG	CCAAAACCTTTGCCTT GAAA	59.9	506	DRR	Ca_09771	J	NAC
Ca2_P3_35967176	Ca2	35967176	T/TG	TTGAGGGGAGGTAAGC CTTT	GGTGTCTTTGGATGGA GTGG	60.1	253	INTRON	Ca_09771	J	NAC
Ca2_P3_35967204	Ca2	35967204	TTTCTCTTACTT/TTT	TTGAGGGGAGGTAAGC CTTT	TGATAGGAGGAAGCGT GACC	60.1	583	INTRON	Ca_09771	J	NAC
Ca2_P3_35971845	Ca2	35971845	TAT/TATATCACAT	GCGGAGCAGAACCCTT ATTA	TGACTTTTTATTTTCC GCACTC	59.3	955	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
Ca2_P3_35987159	Ca2	35987159	GCAGTTGAAACAG/GCAG	ATCTCATAATGGCGAG GCTG	AAATTATGGGAGGCCA ATCC	60.2	416	DRR	Ca_09772	T	LBD
Ca2_P3_35987956	Ca2	35987956	ATGTTGT/ATGT	GGATTGGCCTCCCATA ATTT	GCGTTTTCAAGTTGG ATGT	60.0	851	DRR	Ca_09772	T	LBD
Ca2_P3_35995293	Ca2	35995293	ATGATCCTTTTT/AT	CGTGTGAGTTTCGTG CTAA	TGGTTTGGGTGGTTCA TTTT	60.1	499	INTERGENIC	--	--	--
Ca2_P3_35995557	Ca2	35995557	TAAAAAAA/TAAAAA	CGTGTGAGTTTCGTG CTAA	TGGTTTGGGTGGTTCA TTTT	60.1	499	INTERGENIC	--	--	--
Ca2_P3_35996261	Ca2	35996261	TTCTCT/TTCT	CCATTCGTCAACGGCA TAAT	AAAATCAACGACGATG AATAAGAA	60.7	330	INTERGENIC	--	--	--
Ca2_P3_35999918	Ca2	35999918	CAAAAA/CAAAAA	GGAATCAAAGCGGAAT TCAA	AAGGAGCATGGTCCAA TCAC	60.0	221	INTRON	Ca_09774	--	FAR1
Ca2_P3_36000699	Ca2	36000699	TTTATATTTTAAATA/TTTATATTTTAA ATAATTATATTTTAAATA	CACGCAATATGTTAAG GGGG	TGATATGCACCACCAT CACC	60.2	424	INTERGENIC	--	--	--
Ca2_P3_36028104	Ca2	36028104	TAACAAACAAA/TAACAAA	AGGGAGAGAGAGGAAG GCTG	CTTGAAATCGTGACCT GCAA	60.1	282	DRR	Ca_09778	P	--
Ca2_P3_36028825	Ca2	36028825	CAAA/CAA	TGGCACAGTCAGAGTG GTTT	CGACGACTTCCACTTC ATTG	59.3	576	DRR	Ca_09778	P	--
Ca2_P3_36029029	Ca2	36029029	AC/ACGC	TGGCACAGTCAGAGTG GTTT	CGACGACTTCCACTTC ATTG	59.3	576	DRR	Ca_09778	P	--

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 (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
Ca2_P3_36029534	Ca2	36029534	A/AAGTT	CCAGGCACGTGGTAGC TAAT	AAAGCCCTAGCGGGT ACAT	60.2	824	DRR	Ca_09778	P	--
Ca2_P3_36029693	Ca2	36029693	CAAGTAAGTA/CAAGTA	TGGAATGAAATTATGTG GCAA	TTTGCCAGCTGTTCAA TCTG	58.9	503	DRR	Ca_09778	P	--
Ca2_P3_36036557	Ca2	36036557	ATTTTTTT/ATTTTTT	CCCACTTGAGCCAATT TGT	GCAACATCTCATTGGT GGTG	60.0	580	INTERGENIC	--	--	--
Ca2_P3_36045387	Ca2	36045387	TAAA/TA	AAAGTTGTGACGGTTT CTTGTG	GGCCAAATACAACCTA GCCG	59.2	315	DRR	Ca_09781	--	--
Ca2_P3_36051944	Ca2	36051944	ACCCC/ACCC	CCTTTTTGGGCGACATT TTA	TGAAAAACAAGCTTTGA AAAGGA	59.9	248	INTERGENIC	--	--	--
Ca2_P3_36053697	Ca2	36053697	TAAA/TAAAA	CATGTCTCAAGGCACG AAGA	CGTAGACTCGTAGGGT GGGA	60.0	635	INTERGENIC	--	--	--
Ca2_P3_36056071	Ca2	36056071	TAC/T	CATGCAGGGCAATATT GATG	TCTGCATTTTCCAGGC TCTT	59.9	504	DRR	Ca_09783	--	--
Ca2_P3_36059042	Ca2	36059042	GA/GATA	TTGAAATCTTGAAGCCG GAC	GAAAGACCAACTCTT TGCGA	60.2	510	INTERGENIC	--	--	--
Ca2_P3_36060625	Ca2	36060625	TAA/TAAA	TTTTGAAGTTGAAGAAG GTGGTT	AAACCACGTCAAACCT CACC	59.2	616	INTERGENIC	--	--	--
Ca2_P3_36064276	Ca2	36064276	GGAGAGAGAGAGAGAGA/GGAGAGAG AGAGAGA	GTGCATTGGCAATTTTA CCC	GGGGGAAGCTTAACCA AAAG	60.2	423	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 (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
Ca2_P3_36064305	Ca2	36064305	AAGAGAGAGAGAGAGAG/AAGAGAGA GAGAGAG	GTGCATTGGCAATTTT CCC	GGGGAAGCTTAACCA AAAG	60.2	423	INTERGENIC	--	--	--
Ca2_P3_36065466	Ca2	36065466	TTCTCTCTCTCTCTCT/TTCTCTCTC TCTCTCTCTCT	TGGGCACTCTCTTCCA CTCT	GAACCACCAACCAAA CACC	60.0	500	INTERGENIC	--	--	--
Ca2_P3_36089547	Ca2	36089547	GAAAA/GAAAAA	TTGGTTGCTTCTTGTC TTG	TTGAATGCTTTGCAGT TTGC	60.0	351	DRR	Ca_09786	--	GRAS
Ca2_P3_36090973	Ca2	36090973	CAGAGAGAGAGAGA/CAGAGAGAGAG AGAGA	GGCATCCAAGATACGA GCAT	GCGGCTGTACGTTATT GACA	60.1	556	DRR	Ca_09786	--	GRAS
Ca2_P3_36104944	Ca2	36104944	TGAG/TGAGAG	GAGATCGCGTTTGTGA GGTA	GCATGACTACGCCCA CTAT	58.9	464	INTRON	Ca_09789	R	MIKC
Ca2_P3_36105866	Ca2	36105866	GAAAA/GAAAAA	TGACAAGGTGAGACCC ACAA	GACAGAATTGGAGTGG GGAA	60.1	633	DRR	Ca_09789	R	MIKC
Ca2_P3_36111217	Ca2	36111217	AA/AATA	CAAATTCAAATCCAAA ACGG	AAGGAAGCGACTCAA ACAA	59.3	845	INTERGENIC	--	--	--
Ca2_P3_36113875	Ca2	36113875	ATACTTTTACTTTT/ATACTTTT	CCACACTTGGCCTACA TGTTT	TCGACTCACATGGAAA ATTGA	59.9	341	INTERGENIC	--	--	--
Ca2_P3_36114736	Ca2	36114736	AG/A	TTTGAAAGGAAACAAAC TTCCA	CTCGATTCCGTAAAA CCCA	58.8	729	INTERGENIC	--	--	--
Ca2_P3_36130204	Ca2	36130204	GAAAAAAAA/GAAAAAAAAAAAAA	ACTTACCTGGAGAGCG CAAA	AATTATCAGCCGCCAC AATC	60.0	729	INTRON	Ca_09792	J	B3

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 (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
Ca2_P3_36146623	Ca2	36146623	GAAAAA/GAAAAA	AAACAGCAACAAAAATC CCAA	TTTGAAATCAAGAGG TGGG	59.5	201	INTERGENIC	--	--	--
Ca2_P3_36146925	Ca2	36146925	TTTATTATTATTAT/TTTATTATTATTAT AT	AGGGAAACCCACCTCT TGAT	AAATCCAAAGTGCTTG CGTT	59.8	623	INTERGENIC	--	--	--
Ca2_P3_36152551	Ca2	36152551	TAAAAAAAAA/TAAAAAAAAAAAAA	CGAGGTTCTCTTAGTT CTCTTG	GCACATTCAAATCGCT TCAA	58.7	804	DRR	Ca_09793	O	--
Ca2_P3_36177227	Ca2	36177227	TGGGTTTAGGGTTTAGGGTTTAGGGT TTAGG/TGGGTTTAGGGTTTAGGGTTT AGGGTTTAGGGTTTAGGGTTTAGG	TTGATGTTTGCATGATG GGT	TCTTGCATGGCCTTCA ACTA	59.8	427	INTERGENIC	--	--	--
Ca2_P3_36237151	Ca2	36237151	A/AG	AACTTAGCTGGCAGTC TCGC	AGCAAGCTGTGTTGG TCTT	59.8	534	DRR	Ca_09807	I	--
Ca2_P3_36274282	Ca2	36274282	AACAAATACAAATACAAAT/AACAAATA CAAAT	TTATTCATCTCTGGCG TCC	GCTTCATCAGGCATTC CATT	60.0	728	DRR	Ca_09811	G	--
Ca2_P3_36372982	Ca2	36372982	GATTATTATTATTATTAATTATTATTATTA /GATTATTATTATTATTATTATTATTAAT ATTATTATTA	TGAGCTGAAATTGTC GTCG	CCAATCCTCGTTGTCA AGGT	60.0	274	CDS (large-effect mutations)	Ca_09826	--	HD-ZIP
Ca2_P3_36401773	Ca2	36401773	TATAATAATAATAATA/TATAATAATAAT A	GGATAAGGATCTGCAT CGGA	ATCCATTTTTGTGGAA CCAA	60.0	434	DRR	Ca_09829	R	--
Ca2_P3_36423377	Ca2	36423377	TAAAAA/TAAAAA	TAAGGGTTTGGGCCAA TTTT	CCACTTCGAAAGCGAA AGAG	60.5	565	INTERGENIC	--	--	--
Ca2_P3_36444443	Ca2	36444443	TAATAAATAAATAAATAAATAAATAA/T AATAAATAAATAAATAAATAA	AAATCATCAAGCCATGA GGC	AGAGTTGCACACAGCT GCAC	60.0	242	INTRON	Ca_09833	I	--

[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
Ca2_P3_3874478	Ca2	3874478	CCTTCTTC/CCTTCTTCTTC	TTTGCATCCTAAGGACC ACAC	AGAGGTGGAGAAGCT GGTCA	60.0	515	CDS (large-effect mutations)	Ca_10470	GC	HSF
Ca2_P3_3901844	Ca2	3901844	AC/ACTTCACGAGC	GTCGCTATCTCCCCAG TGAA	CATTCTGTGCCGCTAT CTGA	60.2	248	DRR	Ca_10466	GT	--
Ca2_P3_3949908	Ca2	3949908	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TCAAAGAATAGAGGTAT TGTCTCCG	CTAAAGCCTGCCATT TCTG	60.0	795	INTERGENIC	--	--	--
Ca2_P3_3955516	Ca2	3955516	TATAATAATAATAATAATAA/TATAA TAATAATAATAATAATAATAA	TTTCCGATTTTCGAGGT GTTC	TGAATAGTGGAACA CAACAATG	60.1	385	INTERGENIC	--	--	--
Ca2_P3_4026182	Ca2	4026182	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TT/TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATT	TCAAATATGATTTTCA CTGACCA	GGGACACATCAACCT GACC	58.5	510	INTERGENIC	--	--	--
Ca2_P3_404702	Ca2	404702	TTTTTAATTTTTAATTTTTAAT/TTTTT AATATTTTAATATTTTAATATTTAAT	ATGGATCAGCTCAACC CAAT	AACCTAAACGCAAGGT CTCG	59.4	225	INTERGENIC	--	--	--
Ca2_P3_412601	Ca2	412601	CAAAAAAAAA/CAAAAAAAAA	GGTAGTGACAAATCG GCTCA	TCGTCTCAAACCACA ACAA	60.1	587	INTERGENIC	--	--	--
Ca2_P3_416248	Ca2	416248	TTATATATATATATATATATATATA T/TTATATATATATATATATATATAT	ATAAATGAAGGGGTGG GAGG	GTTTCCCATAAACAGC ACCC	60.0	882	INTERGENIC	--	--	--
Ca2_P3_42172	Ca2	42172	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	TGGCAGTCTGTTTCAC GTTT	CAAGGGACCAGATTCT GCAT	59.3	553	INTERGENIC	--	--	--
Ca2_P3_4266265	Ca2	4266265	A/ATTAATCCGAAAG	TGGACGTTTAACGGTT GACA	CCCAGTAGAAAAGAAG GGGC	60.0	705	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
Ca2_P3_4275332	Ca2	4275332	GAAAAAAAA/GAAAAAAAAA	TACCCTTTGCTAGCCC CTTT	TCCTAGAACATGCATC ACGC	60.1	523	INTERGENIC	--	--	--
Ca2_P3_4285697	Ca2	4285697	TAAAA/TAAA	CCAGTCCCGAAATTAAC CGA	ACTTGCATAATCGAT TGGG	59.9	613	INTERGENIC	--	--	--
Ca2_P3_4353642	Ca2	4353642	CAAAAAAAAA/CAAAAAAAAA	AGAATGTTCTCCACAAC GCC	ATGGGGTTCCTTTTAT TGCC	60.1	500	INTRON	Ca_21108	GC	HSF
Ca2_P3_4370645	Ca2	4370645	CAAAAAAAAA/CAAAAAAAAA	TTGGAACAGAACCATC ACCA	TTCGAATTCAAACACG TGACA	59.9	480	DRR	Ca_21107	GC	HSF
Ca2_P3_4412680	Ca2	4412680	CAAAAAA/CAAAAAA	TTGAGGTAGCCCAATC CAAG	TGCACCACTAACGAT CAAA	60.1	539	INTERGENIC	--	--	--
Ca2_P3_4466454	Ca2	4466454	CAAAAAAAAAAAAA/CAAAAAAAAAA A	AAAGCAGGGCATCAGA AAAA	CCACTCCATTTCCAC AACC	59.8	827	INTERGENIC	--	--	--
Ca2_P3_4502043	Ca2	4502043	ANNNNNNNNN/ANNNNNN	GCTTTGGGTGAACAAA TGCT	AGGCACCTTCAACAA AATG	60.1	258	INTERGENIC	--	--	--
Ca2_P3_4513905	Ca2	4513905	GAAAAAAAAA/GAAAAAAAAA	ACGCGTTGAAGTGTTG TTTG	GTGGTTGCGGAGATAG TGTT	59.8	944	INTERGENIC	--	--	--
Ca2_P3_453297	Ca2	453297	TTATATATATATATATAT/TTATATAT ATATATATATATAT	TTCAAACCAATGATCC AATGA	ATAAATGTTGGGTGTC CAAA	60.2	685	DRR	Ca_16985	L	--
Ca2_P3_4539194	Ca2	4539194	AATATATATATATATATAT/AAATAT ATATATATATATATAT	TTTGCTTCCACTTTTG TCC	ACCAACCTGCATACCC TGTC	60.1	890	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_4549506	Ca2	4549506	AATATATATATATATATATATATATATATATATATATATATATATAT/AATATATATATATA TATATATATATATATATATATATATATAT	TTTGATGCCCGATTAA AAA	CATCGCTTCCAAAGTT GGTT	60.3	665	INTERGENIC	--	--	--
Ca2_P3_4595333	Ca2	4595333	CAATAAATAAATAAATAAATAAATAAAT AATAAATAAATAA/CAATAAATAAATA TAATAAATAAATAAATAAATAAATAAT A	GTTGACCAAGCCCATT AAAA	TACTCTCTCAAGTGA ACCC	59.8	124	INTERGENIC	--	--	--
Ca2_P3_4628652	Ca2	4628652	AG/A	TGAGGTGTCTTGAGAT GGACC	TCCCCCTCACTCAACT TT TG	60.1	754	INTERGENIC	--	--	--
Ca2_P3_4639205	Ca2	4639205	TAAAAAAAAAAAA/TAAAAAAAAAAA	AACACTCGTACCTTTAT TTCTGGG	ATGCAGCAATTTCCAT CCTC	59.8	950	INTERGENIC	--	--	--
Ca2_P3_4728500	Ca2	4728500	CAAAAAAAAAAAAA/CAAAAAAAAAAA AAA	CTCCGAAAAATGGCAGA ATTG	TGAATTCAAGTGATAAT TGCTCG	60.6	826	INTERGENIC	--	--	--
Ca2_P3_4812881	Ca2	4812881	ATTTTTTT/ATTTTTTTTT	AACCAGTTC CGTTCCA GTG	TCCCCCAAACAGAATT TGAG	60.0	731	DRR	Ca_21090	--	MYB
Ca2_P3_4832915	Ca2	4832915	ACC/AC	ATACATCACGACGCCA CTCA	AGAGAAGGGCACGAG ATCAA	60.1	581	INTERGENIC	--	--	--
Ca2_P3_4891048	Ca2	4891048	TTTTATTATTATTATTATTATTATT/T TTTATTATTATTATTATTATTATTAT TT	AACGGTGTGAAAGGGA AATG	TGAATTGAATTGGAA GGGG	59.8	515	INTERGENIC	--	--	--
Ca2_P3_4891335	Ca2	4891335	AAATTGAAG/A	AACGGTGTGAAAGGGA AATG	TGAATTGAATTTGGAA GGGG	59.8	515	INTERGENIC	--	--	--
Ca2_P3_4892794	Ca2	4892794	CATATATATATATATATATATATATAT ATATAT/CATATATATATATATATATATA TATATATATATATATATATATAT	GCGGACATAAGGAAGA TGTGA	AGGTCTGCGAAGATGG AAAA	60.1	606	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 (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
Ca2_P3_4894086	Ca2	4894086	TA/TAGACAACTCAA	TTGAACTACAACCAGC GCAC	TTTTGTTCATTTCTTG CTCCA	59.9	493	INTERGENIC	--	--	--
Ca2_P3_4894751	Ca2	4894751	CTATATA/CTATATATA	AAAGGGAAGAAATTC GGGA	AACCGGACGATCATT GAAG	59.9	498	INTERGENIC	--	--	--
Ca2_P3_4894836	Ca2	4894836	ATGATT/AT	AAAGGGAAGAAATTC GGGA	AACCGGACGATCATT GAAG	59.9	498	INTERGENIC	--	--	--
Ca2_P3_4915954	Ca2	4915954	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAAA/AAATC ATAATAATAATAATAATAATAATAAA TAATAATAATAATAATAATAATAAA	TTATCGGACATTTTCCC GAG	CTAGGTCGCCCTTTCA GGTT	59.9	504	INTERGENIC	--	--	--
Ca2_P3_5096452	Ca2	5096452	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	GTTTTGTGGTGCAGTT GGA	TTTGAAAGAGTCCGAA TTCAAATA	59.6	570	INTERGENIC	--	--	--
Ca2_P3_5108884	Ca2	5108884	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CGTTCTCCGTTTTCTGT TTTC	TACCGTGTGCGAAATA CCAA	58.9	925	INTERGENIC	--	--	--
Ca2_P3_5139260	Ca2	5139260	AATATATATATATATATATATATATAT ATATATAT/AAATATATATATATATATA TATATATATATATATATATAT	GTAATTGACGCGTGTG ATGC	GATAAAATGCAGAGGC GGAG	60.2	537	INTERGENIC	--	--	--
Ca2_P3_5559488	Ca2	5559488	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CCCTTTCCAAACCTCAC AAA	AAATAAACCGAAGCTG CACG	59.9	474	DRR	Ca_14657	K	--
Ca2_P3_5595728	Ca2	5595728	AATATATATATATATATATATA/AAATATA TATATATATATATATATA	TTGCCACTTGATACAGC AAAA	CGCGTATTTATCGTGT GGAA	59.4	652	INTERGENIC	--	--	--
Ca2_P3_5620818	Ca2	5620818	ATTTTT/ATTTTTT	TTCGATTTGACATAAAA GACACAAA	TGTTTTAATTGTAAGCA TGAGAAGTTG	59.9	526	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
Ca2_P3_5674299	Ca2	5674299	TCTTTACTTTACTT/TCTTTACTTTACTT TACTT	ATTAGTCCACTGTGCT GGGG	GCTTCCAAATTGCTTG TTCC	60.0	815	INTRON	Ca_14646	O	FAR1
Ca2_P3_5818662	Ca2	5818662	TTCAT/TT	CGGTTGGAACGAAGA ATGT	CTGGGTAGGCACGTTT GATT	60.0	524	INTRON	Ca_19687	--	--
Ca2_P3_5994105	Ca2	5994105	AATATATATATATATA/AATATATATATA TATATA	GCGGTGTTGAATTCG TTCT	ACACTCCACACCCCAA CAAT	60.1	233	INTERGENIC	--	--	--
Ca2_P3_6047361	Ca2	6047361	AATTATTATTATTATTATTATTATTA TTATTAT/AATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA T	ACCTTCCACACAAGCC AAAC	AGGCCTTTATGTGGCC TTTT	60.0	456	INTRON	Ca_19707	K	MYB
Ca2_P3_6056245	Ca2	6056245	TATAAATAAATAAATAAATAAATA AATAAATAAATAAATAAATAAATA TAAATAAATAAATAAATAAATAA TAAATAAATAAATAAATAAATAA	ATCCCAAGTTTGGTTG TGG	TCGTGGTCCAGAAAC ATGA	59.7	489	INTRON	Ca_19707	K	MYB
Ca2_P3_6075442	Ca2	6075442	CAAAA/CAAA	CGGAGTCTAATGTGGA CGGT	TGCGTATGCACTCTTA TCGC	60.0	711	INTRON	Ca_19709	--	--
Ca2_P3_6329097	Ca2	6329097	ATAGCTAG/ATAG	TGCCTAATTCAGATCAA AAGGAA	GTGCGGTAATAGCGG GTTTA	60.1	142	INTERGENIC	--	--	--
Ca2_P3_6338672	Ca2	6338672	TTATATATATATATATATATATATA TATATA/TTATATATATATATATATAT ATATATATATATATA	CTTTATGCGGCGTTCA AAGT	TGCATGGTTGGAAGAA ATTG	60.3	505	DRR	Ca_20930	S	--
Ca2_P3_6505178	Ca2	6505178	TA/TAA	CGTAATAACGCGCAGG AAAA	TGAGCAGGGGGAAGA GTAGA	60.1	548	INTERGENIC	--	--	--
Ca2_P3_6513260	Ca2	6513260	AAATAATAATAATAATAATAATAAT AATAAT/AAATAATAATAATAATAAT AATAATAAT	ATGGTCCAAGGAAAT GTGC	AGTCGTCGAGGCCAAA TCTA	59.8	265	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
Ca2_P3_6640316	Ca2	6640316	TAAAAA/TAAAAAA	ATGGCCACGAATCTGA AGAG	ACGGTTGTTTGGCAT TGAT	60.2	890	INTERGENIC	--	--	--
Ca2_P3_6640457	Ca2	6640457	T/TA	AAAAAGGTCCTAGGGT GGGA	ACGGTTGTTTGGCAT TGAT	59.8	473	INTERGENIC	--	--	--
Ca2_P3_6641737	Ca2	6641737	CATATAT/CATATATATAT	GTATTCAGGGGCGAAG GAAT	AATGCAAACGACAAAG GAGG	60.3	500	INTERGENIC	--	--	--
Ca2_P3_6641916	Ca2	6641916	TG/T	GTTCTATGGGGACAGG GTCA	TATCAACTACCAGAGC GGGG	59.8	476	INTERGENIC	--	--	--
Ca2_P3_6642487	Ca2	6642487	ATTTT/ATTTTTTTTT	CCCCGCTCTGGTAGTT GATA	ACCCACTTTGAGAAAC GTGC	60.1	479	INTERGENIC	--	--	--
Ca2_P3_6643843	Ca2	6643843	CTTTTTTTTTT/CTTTTTTTTT	ATGGAACAAGCAGCGA AGTT	GTTGATACGAGGGGGT TGAA	59.9	537	INTERGENIC	--	--	--
Ca2_P3_6648530	Ca2	6648530	TAAAAA/TAAAAAAA	TTATCGATCGTCGGTG TCAA	TTCCATATGCACCTCC CATT	60.1	612	INTERGENIC	--	--	--
Ca2_P3_6656104	Ca2	6656104	CG/CGGG	GAGGACAAGGCCAATT TGAA	CCACCCACTTCGAGAA ACAT	60.1	955	INTERGENIC	--	--	--
Ca2_P3_6657720	Ca2	6657720	AATG/AATGATG	AAGAATTGTTGTCCCC TCC	GGAACCAAAACAAAAG GCAA	60.2	635	INTERGENIC	--	--	--
Ca2_P3_6680911	Ca2	6680911	AAATAATAAAT/AAATAATAATAA T	GAACGAAAATGTGTTTT ATGGC	GGCGTTGCCTACACTC AAAT	58.5	381	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
Ca2_P3_6769002	Ca2	6769002	ACCCC/ACCC	TGACCCGTCGTGACTA CAAA	AGCGGTGATGCTTTCT CAAT	60.2	265	INTERGENIC	--	--	--
Ca2_P3_6811440	Ca2	6811440	ATTTTTT/ATTTTT	TATGTGGGTTTGCTTG GTGA	AGGAAGAGTGGAGTTG CGAA	60.0	283	INTERGENIC	--	--	--
Ca2_P3_6831436	Ca2	6831436	AC/A	CCTGTGACATGTTGCC TTTG	AAATGGGCTGAGTTTG AACA	60.2	360	INTERGENIC	--	--	--
Ca2_P3_7043443	Ca2	7043443	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	ATGGGTCGTGTTTCGAT TGTT	AACCAACTATTGACCC CAAAAA	60.2	267	INTERGENIC	--	--	--
Ca2_P3_7144237	Ca2	7144237	A/AG	GGACCGGAATCATAAT GCAA	TTTTTCCGTAAAAGTCC CCC	60.7	743	INTERGENIC	--	--	--
Ca2_P3_7171869	Ca2	7171869	TTAT/TT	CGGCCATTAAATTCTG ACA	TTGCATTATGTTTCTG GCAAA	58.6	320	INTERGENIC	--	--	--
Ca2_P3_7171912	Ca2	7171912	TATTTAATTTAATTTAATT/TATTTAAT TAATT	CGGCCATTAAATTCTG ACA	TCATTTCATAACGAGT GACCCA	58.6	584	INTERGENIC	--	--	--
Ca2_P3_7172121	Ca2	7172121	CTATATATATATAT/CTATATATATAT	TTTGCCAGAAACATAAT GCAA	TCATTTCATAACGAGT GACCCA	59.2	285	INTERGENIC	--	--	--
Ca2_P3_7172172	Ca2	7172172	ATTTTTTTTT/ATTTTTTTTTT	TTTGCCAGAAACATAAT GCAA	TTTGGAAAAATGAAG GACCA	59.2	774	INTERGENIC	--	--	--
Ca2_P3_7206191	Ca2	7206191	CGG/CG	TATTGTACATGGCGAC CGAA	TCACGGGTCAACACGA TTTA	60.0	165	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 (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
Ca2_P3_7276294	Ca2	7276294	CAAAA/CAAAAA	TCCACCACAATCGTTAA GCA	AGCGGAGATTTTACCG GATT	60.1	676	INTERGENIC	--	--	--
Ca2_P3_7302005	Ca2	7302005	TTATATATATATATATATATA/TTATATA TATATATATATATATA	TGTAGCAAAACGTGCA GACC	GGATATTTTGCTCTCT CGCAA	59.9	159	INTERGENIC	--	--	--
Ca2_P3_7312990	Ca2	7312990	GTATATATATATATATATATATATAT/ GTATATATATATATATATATATATAT ATATAT	TATTTTGGATTTTGGCT CGG	CGCGAGTAAATCCGCT AAAA	59.9	682	INTERGENIC	--	--	--
Ca2_P3_7528105	Ca2	7528105	CAAAAAAAAA/CAAAAAAAAA	AGAGGCCAACCTCTGT CTCA	TCGTCAGGAGGTTGAT GATG	60.0	313	INTERGENIC	--	--	--
Ca2_P3_753916	Ca2	753916	CTTTTTTTTT/CTTTTTTTTT	TTGCCCATTAACCTTAC CCG	ACTTGTGCATTTGCATT AGTTC	59.8	555	DRR	Ca_17000	--	ARF
Ca2_P3_7546466	Ca2	7546466	TATAAATAAATAAATAAA/TATAAATAAA TAAATAAATAAA	TGCTCTTCGCAACACAT TTC	TCCAATTCAATTCGCTT TTC	60.0	432	INTRON	Ca_18113	--	--
Ca2_P3_7557453	Ca2	7557453	TTATATATATATATATAT/TTATATATAT ATATATATAT	CGCACACACGAATATT CACC	ACGACAACATGGTGGA ACAC	60.0	465	INTERGENIC	--	--	--
Ca2_P3_7617731	Ca2	7617731	CTAAAATAAAATAAAA/CTAAAATAAAAT AAAATAAAATAAAA	CCAAGATCTCGTAGTG CAACA	TGGGTTTAGTCCGTTT TTCTTC	58.9	468	INTERGENIC	--	--	--
Ca2_P3_7657049	Ca2	7657049	ATTTTT/ATTTTTT	TTATGTGGGGGATTTG GATG	TTCCACGTCTTTTCAT TCC	60.4	705	INTERGENIC	--	--	--
Ca2_P3_7657147	Ca2	7657147	CTTTTT/CTTTTTT	TTATGTGGGGGATTTG GATG	TTCCACGTCTTTTCAT TCC	60.4	705	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
Ca2_P3_7657698	Ca2	7657698	CTTTTTTT/CTTTTTTT	CCTCTTAGGATGTGCC CAAA	CGTTTGAATTGATGGA AAGTGA	60.1	573	DRR	Ca_18120	--	--
Ca2_P3_7668490	Ca2	7668490	CCTTC/CCTTCCTC	CCAACACAAGCACCAA CATC	TGTCGTCCATCAATG AAAA	60.0	435	INTERGENIC	--	--	--
Ca2_P3_7668820	Ca2	7668820	GTTATTATTATTATTAT/GTTATTAT TATTAT	CCAACACAAGCACCAA CATC	CACTGATGAAGAGGCG AACA	60.0	725	INTERGENIC	--	--	--
Ca2_P3_7669241	Ca2	7669241	TAA/TAAA	TGTTGCGCTCTTCATCA GTG	TGTGTTTGGGTTCGA CTAGG	60.0	475	INTERGENIC	--	--	--
Ca2_P3_7669996	Ca2	7669996	TTTAT/TTTATATTAT	AGTCATTTCTTCGTGA GCAA	AAGGTTTAAATCTCGA TGAATGAGT	59.9	553	INTERGENIC	--	--	--
Ca2_P3_7676116	Ca2	7676116	TTTTTATTTTTATTTTTAT/TTTTTAT TTTATTTTTATTTTTAT	TGTACCGTGAATGTAA CTCATTT	TGGCATTGCACCTTC ATTA	57.7	263	INTERGENIC	--	--	--
Ca2_P3_7676173	Ca2	7676173	TAAAAAAAAA/TAAAAAAAAA	TGTACCGTGAATGTAA CTCATTT	TGGCATTGCACCTTC ATTA	57.7	263	INTERGENIC	--	--	--
Ca2_P3_7684165	Ca2	7684165	CAAAAAAAAA/CAAAAAAAAA	TGTGAAGAGCACTGGG AAGA	GGTGCCTTTTACAA TGTT	59.5	755	DRR	Ca_18121	R	ERF
Ca2_P3_7687260	Ca2	7687260	ATAAGTAA/ATAAGTAAGTAA	GATGCAACAAGATGT GTGG	TCCCTGAGTATTCTGG TCGG	60.0	582	INTRON	Ca_18122	--	--
Ca2_P3_7695044	Ca2	7695044	CTTTTTTTTT/CTTTTTTTTT	AGGATTGGATGTAGCT GCCA	TTTCCCGACTTGGTCC TTTA	60.6	751	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
Ca2_P3_7698335	Ca2	7698335	ATTTTTTT/ATTTTTTTT	ACCCTTCGCACTCTTTT TGA	CACTTTCATCCAAATCT CCACA	59.9	610	INTERGENIC	--	--	--
Ca2_P3_7699980	Ca2	7699980	TAAACAAACAA/TAAACAA	AAAATGGAGGCATCAT CAGC	GCAAAACCGACTTGTA AGGG	60.0	632	INTRON	Ca_18123	R	ERF
Ca2_P3_7705481	Ca2	7705481	AATTGTGA/AA	ATTCCTGCGGTACAAC CATC	GGTGTGTGTGAAATG GGTC	59.8	897	INTERGENIC	--	--	--
Ca2_P3_7707114	Ca2	7707114	AT/A	ACAGGCAAGAAAGTGG ATGA	TTATCGATTAACCCCG CAAC	58.3	604	INTERGENIC	--	--	--
Ca2_P3_7714112	Ca2	7714112	TG/TTGG	CTCACTCGATCGATGG TTCA	TGACAATGCTGGCTGT TAGC	59.8	588	INTERGENIC	--	--	--
Ca2_P3_7717172	Ca2	7717172	ATTGGTTGG/ATTGG	TCATTCTTGTGGGTGT GGA	TGAGACATGCAATGAC GGAT	59.9	410	DRR	Ca_18124	--	--
Ca2_P3_7721082	Ca2	7721082	TAAAAAAAA/TAAAAAAAAA	TTCACCCCTTCATCCTA TGG	CATACCATTTGGTGGG TTTG	59.7	671	INTERGENIC	--	--	--
Ca2_P3_7722069	Ca2	7722069	TAAGCGA/TA	TATGCACGCGAATCTTT GAC	AAACGGAAGTTTCTGC AAGC	59.8	784	INTERGENIC	--	--	--
Ca2_P3_7723559	Ca2	7723559	TAAAAAAAA/TAAAAAAAAA	CGTGTCTTATAAAATT GCGGTT	TTTGCAAGCCAAGCAC ATAC	59.5	558	INTERGENIC	--	--	--
Ca2_P3_7724864	Ca2	7724864	TA/TAAAGAGATTGAGA	ACCAGAGACACTGCAG CAAA	AACAAGATTCTCGAAT GCTCC	59.6	464	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
Ca2_P3_7725184	Ca2	7725184	ATTTTTTT/ATTTTTTTT	GGTGCGGTTGTTGTGTT TTTT	GTGTCACACCCCTTCAG GACC	60.8	862	INTERGENIC	--	--	--
Ca2_P3_7729483	Ca2	7729483	TAAATAAAA	AAAGGAAGAAGGGGTG CATT	ATGTTCTAAAGCCCAT GCCA	59.9	843	INTERGENIC	--	--	--
Ca2_P3_7744794	Ca2	7744794	CATGACATGAATGA/CATGA	CATTTTGATTGGGAATG TGC	CAACAACAGTCCAAG TAGGCA	58.8	585	INTERGENIC	--	--	--
Ca2_P3_7745257	Ca2	7745257	CAAAA/CAAAAAA	TGGCATGACATGAATG AAGAA	GAGCAATTTGTGTGGA CCCT	60.1	760	INTERGENIC	--	--	--
Ca2_P3_7749605	Ca2	7749605	AAAATAAATAAATAAATAAATAA/AAAA TAAATAAATAAATAAATAAATAAATAA	CAACCCATTATGGATTCC GTC	GGAGAAGATGGTTGCA GCTC	59.2	613	INTERGENIC	--	--	--
Ca2_P3_7749962	Ca2	7749962	TT/TTAT	GGAGCTGCAACCATCT TCTC	TGGATTGGGCTGAAT TAGG	60.0	321	INTERGENIC	--	--	--
Ca2_P3_7750643	Ca2	7750643	CAGCTTAG/CAGCTTAGCTTAG	CACACTCACACCCCTA TGGA	TTTGCAAGCTCAAGTG GACA	59.5	398	INTERGENIC	--	--	--
Ca2_P3_7753009	Ca2	7753009	A/AC	AAGTGGCGAAGCTTGT TGAT	AGCTTGCCATTGCAGC TACT	59.9	797	INTRON	Ca_18125	--	MYB_related
Ca2_P3_7753358	Ca2	7753358	C/CAAT	CGGAGGTTTGGTGTA ACTGA	AGCTTGCCATTGCAGC TACT	60.0	447	INTRON	Ca_18125	--	MYB_related
Ca2_P3_7756359	Ca2	7756359	CAAA/CAAAA	AACCAGCATGTGTTGTT GGA	TGTGGTGGGGGAATTA AAAA	60.0	399	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
Ca2_P3_7760357	Ca2	7760357	ATGTGTGTGTGTGTGT/ATGTGTGTGT GT	AATGCCACCCATAATT TCA	TGCCATAAAAGCTAA AAAGCA	60.0	282	INTERGENIC	--	--	--
Ca2_P3_7771633	Ca2	7771633	TTAT/TT	CATCCATGGTACCTTAA TTTAATTTTT	TAAATAACACCCGTGG TCCC	59.1	512	INTERGENIC	--	--	--
Ca2_P3_7771725	Ca2	7771725	CAAAAA/CAAAAAA	TGTTTTAAATGTCAAC AATGTTATCC	TAAATAACACCCGTGG TCCC	59.5	423	INTERGENIC	--	--	--
Ca2_P3_7772281	Ca2	7772281	TAAAA/TAAAAA	TTAAGGGACACGGGT GTTA	CAATTGCACAAAGGCT GAAA	60.2	328	INTERGENIC	--	--	--
Ca2_P3_7772344	Ca2	7772344	CAAAAA/CAAAAAA	TTAAGGGACACGGGT GTTA	CAATTGCACAAAGGCT GAAA	60.2	328	INTERGENIC	--	--	--
Ca2_P3_7772575	Ca2	7772575	AGG/AGGG	TTAAGGGACACGGGT GTTA	TCCACCTCTCAATTT TCAA	60.2	898	INTERGENIC	--	--	--
Ca2_P3_7773617	Ca2	7773617	TTAAATAAAAT/TTAAATAAAATAAATAA AAT	GCTGAGCCCAACAAG CTAA	CCACTGTGGAAGGTA AATGC	60.5	845	INTERGENIC	--	--	--
Ca2_P3_7773852	Ca2	7773852	ATTAAATATTTTAAATATT/ATTAAATAT T	CGTCAAAACTTCAATG AATATGG	GGATGGATGTATGTGA TGGA	59.8	410	INTERGENIC	--	--	--
Ca2_P3_7773914	Ca2	7773914	TAAA/TAAA	CGTCAAAACTTCAATG AATATGG	GGATGGATGTATGTGA TGGA	59.8	410	INTERGENIC	--	--	--
Ca2_P3_7780730	Ca2	7780730	ATTTTTTTTT/ATTTTTTTTT	TTGTCTCCATCTCCAGC CTT	TGTTGTTGAGTTGGG ACACA	59.8	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 (°C)	Expected 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_P3_7789494	Ca2	7789494	TAAAAA/TAAAAAA	ACATGAACATGTTAAAT TTTCTGAAC	ACCAATTGGCCAAC TCAC	57.7	580	INTERGENIC	--	--	--
Ca2_P3_7793328	Ca2	7793328	GAAAAA/GAAAA	ATATCCCTCCAACGA GGAA	TTTATTGCGGTTTCCC TTCA	60.7	877	INTERGENIC	--	--	--
Ca2_P3_7797097	Ca2	7797097	TAAAAAAA/TAAAAAA	GGGGACTCCAAGACT CACA	GCCCGTACTCAGTTCT TGCT	60.1	699	INTERGENIC	--	--	--
Ca2_P3_7798797	Ca2	7798797	TTTTCTTT/TTTT	GGAACAACGGATTCTG TCCA	TGGTCTCGGTCACTAT TTAAGTTTT	60.9	603	INTERGENIC	--	--	--
Ca2_P3_7801882	Ca2	7801882	CATATAT/CATAT	TTCGGAGTTGCAGATG ATTG	TCATTTCTTCACCTTGA ACCA	59.8	203	DRR	Ca_18127	--	ERF
Ca2_P3_7811963	Ca2	7811963	CAAAAAA/CAAAAAA	ACTAACTCGGTGGGA ACAA	TCCCTTGTTCTTGCTG TGAA	59.4	330	INTERGENIC	--	--	--
Ca2_P3_7813181	Ca2	7813181	GAAAAA/GAAAAA	TAGAAGGTCGCTTCTT CGGA	CACCTCACCTACAGT CCCT	60.1	771	INTERGENIC	--	--	--
Ca2_P3_7818010	Ca2	7818010	GATA/GATATTCTAATA	TGGACATAGAAAACCA AATGGA	ATGTGGAAGTTGAACC CCAA	60.6	598	DRR	Ca_18128	QR	B3
Ca2_P3_7818292	Ca2	7818292	TGGGG/TGGG	TTGGGGTTCAACTCC ACAT	TGTGAATGGGGATGAT TTTG	60.2	426	DRR	Ca_18128	QR	B3
Ca2_P3_7823490	Ca2	7823490	ATTTTTTTTTTT/ATTTTTTTTTT	TCAACCGTTCAATTAC CAA	TGCTTTTGAAACGAC ACCA	59.9	734	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 (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
Ca2_P3_7824127	Ca2	7824127	A/AGGTTATT	GAAAGTTTTGCCACCAATTCA	GCATACCCATACCACCAAAGA	60.0	960	INTERGENIC	--	--	--
Ca2_P3_7844408	Ca2	7844408	CAAAAAAAAA/CAAAAAAAAA	GTCCACTGTGCCACATCATC	AACTGCTTTGAAGCACCGTT	60.0	611	INTERGENIC	--	--	--
Ca2_P3_7844534	Ca2	7844534	CTTTTTTT/CTTTTTTT	AACGGTGCTTCAAAGCAGTT	TGCCACATCACCTAAATCA	59.9	451	INTERGENIC	--	--	--
Ca2_P3_7875411	Ca2	7875411	CTTTTTTT/CTTTTTTT	TGTTGCGAAAAGTGGA AAAA	TCGAAGCTTGTTTCGGAAGT	59.3	805	INTERGENIC	--	--	--
Ca2_P3_7893121	Ca2	7893121	GCC/GC	AAACAAATTCGCGGTGCTAC	CGAACGGTGCATGATTGA	60.1	525	INTERGENIC	--	--	--
Ca2_P3_7893479	Ca2	7893479	AGCAAAA/AGCAAAATGCAAAA	AAACAAATTCGCGGTGCTAC	TGATGAAACCACCCAGTTGA	60.1	690	INTERGENIC	--	--	--
Ca2_P3_7894741	Ca2	7894741	TA/TAA	GTCATGGTTGTAGCATCCCC	GATGGGGATGGAAGATGAAA	60.2	639	INTERGENIC	--	--	--
Ca2_P3_7913902	Ca2	7913902	GAAAAAAAA/GAAAAAAAA	TCAAATCTACCTCTAACGATTCACA	AAGGACAGTTGTCCCAATGC	59.2	326	DRR	Ca_18139	FE	--
Ca2_P3_7914260	Ca2	7914260	TG/T	CAAGAGCACCAGCCACAATA	TGTACCCCAAGACACCATT	59.9	298	INTERGENIC	--	--	--
Ca2_P3_7917938	Ca2	7917938	TTTGAAATTGAAATTGAAATT/TTTGAAATTGAAATTGAAATTGAAATT	GTCGGAGATCCCACAAAGA	TGGAACCAATCTTCGTTGA	60.1	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 (°C)	Expected 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_P3_7926426	Ca2	7926426	CTTT/CTT	CTTGGCGAAGTGAAGG GATA	GAGGCTTGGTCCCTA ATCC	60.2	471	INTRON	Ca_18142	U	--
Ca2_P3_7929173	Ca2	7929173	CTGT/CTGTGT	GTGGGTATCAGGCTCT TCCA	CCAAGCCCTCATTAC TTGT	60.1	144	DRR	Ca_18143	--	--
Ca2_P3_7929427	Ca2	7929427	CATTT/CATTTTATTTTGATCCAATTT	GTGGGTATCAGGCTCT TCCA	GCATTGGTTTCAGCAT TGTC	60.1	782	DRR	Ca_18142	U	--
Ca2_P3_7929592	Ca2	7929592	AT/A	ACAAGTGAATGAGGGC TTGG	CTTGAATATTGTCGCC GGTT	60.1	778	DRR	Ca_18142	U	--
Ca2_P3_7933051	Ca2	7933051	AC/A	CCCCAAAAGTGCTTC AAAA	TGACAAGCACGCTTAA GGAA	60.1	694	INTERGENIC	--	--	--
Ca2_P3_7933550	Ca2	7933550	TAAAAAAAA/TAAAAAAAAA	TTCCTTAAGCGTGCTTG TCA	CCAAAATAACCCACAA TCGG	59.6	539	INTERGENIC	--	--	--
Ca2_P3_7938788	Ca2	7938788	AA/AACA	TGATCAAATAATTGAAA CAAGCG	GCCGTATTGGGAGAAG ATGA	59.2	589	INTRON	Ca_18144	--	--
Ca2_P3_7940111	Ca2	7940111	ATTTTTT/ATTTTTT	TCTTGACCGTTAGATTG AACCA	CAAAATGGACAAAATT GGAGC	59.6	714	INTERGENIC	--	--	--
Ca2_P3_7940136	Ca2	7940136	ATTTTTT/ATTTTTTTT	TCTTGACCGTTAGATTG AACCA	CAAAATGGACAAAATT GGAGC	59.6	714	INTERGENIC	--	--	--
Ca2_P3_7941058	Ca2	7941058	TAAAAAAAA/TAAAAAA	CAGTGTCATGGTTGAG GCAC	GAAGTTGGAACGACGG TGAT	60.2	437	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
Ca2_P3_7941503	Ca2	7941503	GTTTTT/GTTTT	ATCACCGTCGTTCCAA CTTC	TGGGAATATGAGTTAT TGCA	60.0	402	INTERGENIC	--	--	--
Ca2_P3_7982128	Ca2	7982128	CTTTTTTTTT/CTTTTTTTTT	GCCCGAATCAAGTAGT GGAA	ATCAATGGAGGATAGC GACG	60.1	644	INTERGENIC	--	--	--
Ca2_P3_8016754	Ca2	8016754	ATTTTTTTTT/ATTTTTTTTT	TTTCCCCTGTACCTCCA CAG	CCCCCTTGTGACAAC CTAA	60.0	671	INTERGENIC	--	--	--
Ca2_P3_8063038	Ca2	8063038	TTATATATATATATATATATATAT/ TTATATATATATATATATATATATA T	ATAAAACAAAAACGGGT GCG	AAATGGCCTCCCAATT CTCT	59.9	602	INTERGENIC	--	--	--
Ca2_P3_8159118	Ca2	8159118	TTATATATATATATATATATA/TTATA TATATATATATATA	TAGCCCTTTAATGCATT GGG	CATGATTGTGTGCGG TTCT	59.9	513	INTERGENIC	--	--	--
Ca2_P3_8159863	Ca2	8159863	AATATATATATATATATATATAT/A ATATATATATATATATATATATATA TATATATATAT	TATGCCGTGAAACGAG AGTG	ATTATGCTGATTGCTC GCC	59.9	725	INTERGENIC	--	--	--
Ca2_P3_8174591	Ca2	8174591	TTTATTATTATTATTATTATTATTAT TATTATTAT/TTTATTATTATTATTATT TATTATTATTATTATTATTATTAT	CAAAATGGGGTATTTT GGTG	TATTTGGTTGTCCATG TGCC	59.9	963	DRR	Ca_18154	U	WOX
Ca2_P3_8308316	Ca2	8308316	TAAAAAAA/TAAAAAAA	AATTGGGACCATTGTGAT AGGC	GCCTCTACCATCTTTG ACAGC	60.0	171	INTERGENIC	--	--	--
Ca2_P3_8328118	Ca2	8328118	TATTTATTATGCATT/TATTTATTAT GCATTATTTATGCATT	AGGTTCAATTGGTGG CAAG	TTGAATTGTTATGCC GTGA	60.0	570	INTRON	Ca_21469	--	C2H2
Ca2_P3_8343398	Ca2	8343398	AATATATATATAT/AATATATATATAT ATAT	CCAGTGTGACCTCC AAGC	TTTGCAACAACGCGAA ATAG	60.7	743	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
Ca2_P3_8374636	Ca2	8374636	AATATATATATATATATATAT/AATAT ATATATATATATATAT	AAAGGGACAATGAAGG CAAG	TTGAAAATGTGATGTTT CTTCCA	59.2	636	INTERGENIC	--	--	--
Ca2_P3_8375527	Ca2	8375527	TCAAATCCAAATCCAAAT/TCAAATCCA AAT	GGGCCGTGAGAGTGTT ATGT	GCTGCAAAGCCTACCA AGAC	60.0	573	DRR	Ca_21461	T	bHLH
Ca2_P3_8401872	Ca2	8401872	CTTTT/CTTTT	AAGATCCCCTTTCATG TCA	GAAC TTCACAGACC ATCC	59.3	470	DRR	Ca_21459	--	WRKY
Ca2_P3_8420270	Ca2	8420270	AACA/AACACA	CCAAGTTTGAAATGCC GATT	GCTGCATGATCTTATG CTCG	59.9	451	INTERGENIC	--	--	--
Ca2_P3_8478800	Ca2	8478800	AATTT/A	CCCGTATGAATGAACG GAAC	CTACCCCCACATTTC ATCG	60.2	519	INTERGENIC	--	--	--
Ca2_P3_8478910	Ca2	8478910	ACT/A	CCCGTATGAATGAACG GAAC	CTACCCCCACATTTC ATCG	60.2	519	INTERGENIC	--	--	--
Ca2_P3_8688633	Ca2	8688633	GAAAAAAAAA/GAAAAAAAAA	ATCATAGCAGGCCAA TGTC	ATTCCTAAACCCAAC CCCA	59.9	665	DRR	Ca_22311	--	NF-X1
Ca2_P3_8718137	Ca2	8718137	TTTCATCA/T	GGGACTTGCACTTTGT GCTT	GGGAGCCTTATACCTC TGCG	60.3	590	INTRON	Ca_22308	U	--
Ca2_P3_8839936	Ca2	8839936	TAATAGGAAATAGGAAAT/TAATAGGAA ATAGGAAATAGGAAAT	ATGGGCCCTCATTTAT ACC	CGTGATTGAACCACA TCAC	59.9	257	INTRON	Ca_22301	--	GRAS
Ca2_P3_88585	Ca2	88585	TG/T	TGAATTTGACGAAATTT GCATT	GGCTATGAGTGCTCCA TTTGA	59.5	752	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
Ca2_P3_903067	Ca2	903067	TTATATTTAAATATATTTAAATATA/TTA TATTTAAATATA	GCACATCACTTATGATT GCGAG	TAGGAGGATAGACACC GCCA	60.7	516	INTERGENIC	--	--	--
Ca2_P3_9379100	Ca2	9379100	ATTTTTTTTTTT/ATTTTTTTTTTT	GTGCAACCACTTGAAG CAAA	GCCCTCAGATGAGAGA CAGG	59.9	620	DRR	Ca_20030	F	--
Ca2_P3_9428131	Ca2	9428131	GTATATATATATATAT/GTATATATATAT AT	GAAATGCTAATGGTTG CGG	TTCCAAAACACTTACC CCCA	60.5	657	INTERGENIC	--	--	--
Ca2_P3_9494071	Ca2	9494071	T/TA	GAAGTGAACAACAAC GACAA	GGTCTCGAAATCCCTG ATGA	59.8	609	INTERGENIC	--	--	--
Ca2_P3_9500229	Ca2	9500229	CGTATGCTAGACCTGG/CGTATGCTAG ACCTGGGTATGCTAGACCTGG	AGAGTTGGGGGAGAA GAAA	GCAACAACAGCAGAGA CAATG	60.0	213	INTERGENIC	--	--	--
Ca2_P3_9689510	Ca2	9689510	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	GTGAGTTGAGCATCGC AAAA	GATTTGCGGTAGATAT TTGCATC	60.0	928	INTERGENIC	--	--	--
Ca2_P3_9690407	Ca2	9690407	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGATGCAAATATCTACC GCAA	TTCAAGGGACGTAAAT GCAA	59.2	558	INTERGENIC	--	--	--
Ca2_P3_9694074	Ca2	9694074	ATTTTTTTTTTT/ATTTTTTTTTTTT	TGAGTTGTGGTGAAGT GGGA	GCACTCCTTTACAACG CACA	60.1	256	INTERGENIC	--	--	--
Ca2_P3_9694226	Ca2	9694226	TTATATATATATATATATATA/TTATA TATATATATATATA	TGTGCGTTGTAAAGGA GTGC	CGTCGGAATCCAAAAG TCAT	59.9	504	INTERGENIC	--	--	--
Ca2_P3_976095	Ca2	976095	ATTTTTTTTT/ATTTTTTTTTT	TTTGATGAGCAAACGAA AAA	TGATGATTGGAAGGGA TGAA	57.0	575	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 (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
Ca3_P3_10911530	Ca3	10911530	TTT/TTTATT	CCTGACATGGCCTGAC CTAT	AAGCCTGGCCTACGGT CTAT	60.0	528	INTERGENIC	--	--	--
Ca3_P3_10923237	Ca3	10923237	T/TCC	GCTGATTGAAATCGAG CACA	TTAAACAAGCACCAA GGGC	60.0	347	INTERGENIC	--	--	--
Ca3_P3_10937275	Ca3	10937275	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA T/TATAATAATAATAATAATAATAAT AATAATAATAATAAT	CCAATGACCTTGAAATC CAAA	ACCGAATGCATCACGT ACAA	59.8	561	INTERGENIC	--	--	--
Ca3_P3_1103988	Ca3	1103988	CATATATATATATATATATATAT/CAT ATATATATATATATATATAT	ATCAGTTGCCCTTCCTT CCT	CGGTTACGGGTAAAA GGTG	60.1	229	INTERGENIC	--	--	--
Ca3_P3_11182328	Ca3	11182328	GAAAAAAAA/GAAAAAAAAA	AGGTGCCCTTCTTTTGT	CCATCGTCGACCTTGA GAAT	60.0	527	INTERGENIC	--	--	--
Ca3_P3_11279419	Ca3	11279419	CTATTATTATTATTATTATTA/CTATTAT TATTATTATTATTATTA	TTCCAGGGCAGACTTC TTGT	GGCCATTATGACCAA AACTT	59.8	641	INTERGENIC	--	--	--
Ca3_P3_11306806	Ca3	11306806	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATATAT	CGTGTGAGAAAACCTC GACA	CCGATTCCCAAAGGT TTTT	59.9	275	INTERGENIC	--	--	--
Ca3_P3_11326575	Ca3	11326575	G/GTGC	TCCATGGTCTGCCATC AATA	ACTTGGCCACCTGATT TCAC	59.9	496	INTERGENIC	--	--	--
Ca3_P3_11462251	Ca3	11462251	ATTTTTTTTT/ATTTTTTTTTT	ATGATTCCCCAACATCC AAA	CACGAGTCCGATAAGG GTGT	60.0	149	INTERGENIC	--	--	--
Ca3_P3_1149320	Ca3	1149320	ATTTTTTTTT/ATTTTTTTTTT	TGTGCAATCGTTTAAAC CCA	CCCTTACCACAAAATC AACTCA	60.0	719	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
Ca3_P3_11497478	Ca3	11497478	TTTATTATT/TTTATT	GGGTTTGCACCTGAAG GTGT	CCTCCGAGCCAAAATA CAAA	60.0	617	INTERGENIC	--	--	--
Ca3_P3_11519916	Ca3	11519916	A/ACAGACTTATACTGTTT	CCGAGCCAAAATCCAA AATA	AATTTCAAACGCAAAC CAGG	59.9	198	INTERGENIC	--	--	--
Ca3_P3_11531328	Ca3	11531328	CAAAAAAAAA/CAAAAAAAAA	TTTCCTTTCAACCCAGC ATC	CGATGCAGTCGTCTCT TTGA	60.1	482	INTERGENIC	--	--	--
Ca3_P3_11537812	Ca3	11537812	CTTTTTTT/CTTTTTTT	GATGCAACATCTTTTGA ATCTTTGA	CCTACGTATCTCTGG TGCG	58.8	688	INTERGENIC	--	--	--
Ca3_P3_11720789	Ca3	11720789	ATTATTTATTTATTTATT/ATTATTTATTT ATTTATTTATTTATT	CCTTCTCGTGTTCAC CTT	TGCCATGTTTTAATGG CTGT	60.3	620	INTERGENIC	--	--	--
Ca3_P3_11753481	Ca3	11753481	T/TTA	TTGTTCAAAAATTCAGC AAAAA	GTTGGTGGGTATAAGG GGCT	57.6	517	INTERGENIC	--	--	--
Ca3_P3_11765428	Ca3	11765428	ATTT/ATTTT	GATCAGATCTGGCAGC AACA	TGGCATACATCTAGGG GGAG	60.0	574	DRR	Ca_19390	--	--
Ca3_P3_11902496	Ca3	11902496	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATAT	CCAACGCATTTAACAAC ACG	TTACAGCTTACTCAG GCGGA	60.0	740	INTERGENIC	--	--	--
Ca3_P3_11919676	Ca3	11919676	CNNNNNNNNNNNNNNNNNN/CNNN NNNNNN	CGGAAATTGAAATCGG AAAA	ATCGCGAAAGTAGTCT CCCA	59.9	633	INTERGENIC	--	--	--
Ca3_P3_1199360	Ca3	1199360	TAAATCTTGATCAAATCTT/TAAATCTT GATCAAATCTTGATCAAATCTT	CGATGCTTTTCTCCTTC AGC	TGTCCCTCAAATCTT GGTTG	60.1	654	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
Ca3_P3_11996299	Ca3	11996299	GAAAAAAAAA/GAAAAAAAAA	TGACAATTTCGTCTCCG TACC	TGCCATTGAAGAGTTC TGGA	60.0	351	INTERGENIC	--	--	--
Ca3_P3_1206042	Ca3	1206042	AT/ATATTCT	GGCCGCCACAAATAT TAAC	TTTGAATTGGGGAGAG ATGG	59.3	683	INTERGENIC	--	--	--
Ca3_P3_12231461	Ca3	12231461	ACAAACAAGCAAACAAGCAAA/ACAA CAAGCAAA	TCACGGTTGTGAAGTC TGGA	CCTCAAAAGATGACGC GATT	60.3	398	INTERGENIC	--	--	--
Ca3_P3_12263072	Ca3	12263072	A/AGAATCACAT	CAAAGAAGGGGTTTG AATTG	TCCACTTTGGGTTAAC CAGG	60.7	230	INTERGENIC	--	--	--
Ca3_P3_12390760	Ca3	12390760	AATATATATATATATATATATATAT /AATATATATATATATATATATATAT	TTGGGTTTGCATAATGT CCA	CTAGGTGTCGGTCCGA GCTA	59.8	885	INTERGENIC	--	--	--
Ca3_P3_12597173	Ca3	12597173	GATATATATATATATATATATATATA T/GATATATATATATATATATATATAT ATATAT	TATGCGGTGAAATGAT GGAA	TGGCAAACCAAGACA CTGA	59.9	338	DRR	Ca_21021	--	Dof
Ca3_P3_12643711	Ca3	12643711	TTATATATATATATATAT/TTATATAT ATATATATATATAT	GACGCGTAGTTTCGAG GATG	GAAGAAAGAAGTTCCG CGTG	60.8	501	INTERGENIC	--	--	--
Ca3_P3_1267466	Ca3	1267466	ATGTT/ATGTTGTT	CAAGTCACATCGCAAA CACC	AGGGGACTACTTTCGC GATT	60.2	599	DRR	Ca_19422	J	--
Ca3_P3_12715466	Ca3	12715466	T/TACACATTAAAG	TATTCCCGATTAAATGCA GCC	GTCCCGAATGCAATGT CTCT	59.9	667	INTERGENIC	--	--	--
Ca3_P3_12819743	Ca3	12819743	GAAAAAAAAA/GAAAAAAAAA	TTGGAAGAAGATTGGA CAAAGA	CTCCGCATCAATTTAT CCCT	58.8	509	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 (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
Ca3_P3_12922330	Ca3	12922330	TCC/TC	TTACCAAATCGATGCTC GTG	ATTTGAAATCGACGT GCTC	59.7	356	INTERGENIC	--	--	--
Ca3_P3_12969818	Ca3	12969818	TAAAAAAA/TAAAAAAA	TTACCACAATCCCCCA AGA	CATGCAAGGTTGGGCT AGAT	60.2	400	INTERGENIC	--	--	--
Ca3_P3_12997438	Ca3	12997438	GTATATATATATATATATATATATAT ATATAT/GTATATATATATATATATATAT ATATAT	GAAGGAAGGAGGGAGA ATGG	TGCGCTTTTATTCCAA CACA	60.0	648	INTERGENIC	--	--	--
Ca3_P3_13062124	Ca3	13062124	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TTGACGAGGCTTGGAA AAAT	GCCTCTCACTTGCCTC TCAC	59.7	619	INTERGENIC	--	--	--
Ca3_P3_13072537	Ca3	13072537	CATAG/CTGTGATAGATAG	TCAGATCGTTCCCTGTT TCC	TGAAGCATATTCTGAG GGGG	60.1	376	INTERGENIC	--	--	--
Ca3_P3_13096897	Ca3	13096897	TCT/CTGGAAC	TCTGGTCGACTTCTGC CTTT	TCATCAGTATCGTGGG TGGA	60.0	775	INTERGENIC	--	--	--
Ca3_P3_13097015	Ca3	13097015	ATTTTTTT/ATTTTTTT	CCTTCTTTACGGGACC CAAT	TCATCAGTATCGTGGG TGGA	60.2	364	INTERGENIC	--	--	--
Ca3_P3_13097036	Ca3	13097036	A/AT	CCTTCTTTACGGGACC CAAT	TCATCAGTATCGTGGG TGGA	60.2	364	INTERGENIC	--	--	--
Ca3_P3_13105438	Ca3	13105438	CAC/CACTCTTTCACCCCTTAC	ATCCAACATCCCGATAA CGA	AAAGGCTATTTGCTCG TGGA	60.2	288	INTERGENIC	--	--	--
Ca3_P3_13163471	Ca3	13163471	AT/ATATTT	TGCAAGTGAGGATTG ACCA	TTTTGGGTCTTGATT TTGG	60.2	420	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 (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
Ca3_P3_13169603	Ca3	13169603	ATT/ATTTTTTTT	TAGCTGGCAGGGTCTC AGTT	CGAAAGAAAGTTCCC CTCC	60.0	419	INTERGENIC	--	--	--
Ca3_P3_13171985	Ca3	13171985	GATATATATATATATATATATA/GATA TATATATATATATATATATA	TCCCAACTACTGGGAA TCCA	TAGGGGAATGACTCCA CCAC	60.3	414	INTERGENIC	--	--	--
Ca3_P3_13185454	Ca3	13185454	AT/ATTT	GCACACGACCTTCTCG TACA	AATCTGGATCGGGGAA AATC	59.9	302	CDS (FRAME SHIFT)	Ca_22687	--	Trihelix
Ca3_P3_1320883	Ca3	1320883	CAAAAAAAAA/CAAAAAAAAA	CATGAATTGATTGGATT GCG	AAAAATGAAAGTTGG CACG	59.9	750	INTERGENIC	--	--	--
Ca3_P3_13319796	Ca3	13319796	TAATAAATAAATAAATAAATAAAT AAATAAATAAATAAATAAAT/TAATAAAT AAATAAATAAATAAATAAATAAAT AAATAAATAAATAAAT	GGGAAGTGCTCGTAA TCCA	GTGCAACATGAGAGGA AGCA	60.1	431	INTERGENIC	--	--	--
Ca3_P3_13363177	Ca3	13363177	CTTTTTTTTTT/CTTTTTTTTTTTTTT	CACCGATCAGAGGATG AACA	AGAAACGCATTTGGTC TTGG	59.6	169	DRR	Ca_22692	--	--
Ca3_P3_13462560	Ca3	13462560	GATATATATATATATATAT/GATATAT ATATATATATATATAT	TGGAAAAAGGGCAATT GAAG	GCATGCAATGGATGAT GAAG	60.0	316	INTERGENIC	--	--	--
Ca3_P3_13647076	Ca3	13647076	AATATATATATATATATAT/AATATAT ATATATATATATATAT	TTGCACCTTATTTGATG CGT	TCTCTCTCATGCCA CCCT	59.2	183	INTERGENIC	--	--	--
Ca3_P3_1386021	Ca3	1386021	T/TTTA	AAAGAACATTCCAATG CGG	ACGTATCCCAGGTGC AATA	59.9	704	INTERGENIC	--	--	--
Ca3_P3_13935709	Ca3	13935709	AGAT/AGATGAT	CAGTACCCCTTTGGAG CTTG	ATTTTCGGGCAATTC ACTG	59.7	127	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
Ca3_P3_14226734	Ca3	14226734	CAAATAAATAAATAAATAAATAAA TAAATAAATAAATAAATAAATAA/C AAATAAATAAATAAATAAATAAAT AAATAAATAAATAAATAAATAAAT AA	TTTGGGGTTTAGGGT GTCA	CGACCTCTTGCAGA TCAA	60.2	865	INTERGENIC	--	--	--
Ca3_P3_14454312	Ca3	14454312	GTTTTTTTTT/GTTTTTTTTT	ACCAAGCACAGCGACT TTCT	CGTTGCAATTGAACAA ACGA	60.1	634	INTRON	Ca_22513	K	G2-like
Ca3_P3_14492105	Ca3	14492105	AT/ATCACT	TGTGTTCCATTTCTCC ACA	TAATGGAACCCGATG TGTT	59.9	577	INTRON	Ca_22511	--	--
Ca3_P3_14493863	Ca3	14493863	GTATATATATATATATATATAT/GT ATATATATATATATATATATATATA TAT	ATCGGAAAATCCCTAC CAGC	TTGGTGAACAAAACG ACAA	60.3	762	INTERGENIC	--	--	--
Ca3_P3_14496111	Ca3	14496111	CATATATAT/CATATATATAT	TTTATTCGGAAGTCCAT CGG	GCAAATGCTCCCTAA TTGA	59.9	629	INTERGENIC	--	--	--
Ca3_P3_14496130	Ca3	14496130	GTATATATATATATATATATAT/GTAT ATATATATATATATATATATAT	TTTATTCGGAAGTCCAT CGG	GCAAATGCTCCCTAA TTGA	59.9	629	INTERGENIC	--	--	--
Ca3_P3_14503491	Ca3	14503491	AATATATATATATATATATATAT/A ATATATATATATATATATATAT	TGCGTTACGGTGAAAT GGTA	AGGAAGAGTGGAGTTG CGAA	60.0	374	INTERGENIC	--	--	--
Ca3_P3_14520599	Ca3	14520599	GTA/GTATA	GACGAAATGTGCTTTT GGGT	CCACCAGTTTTGTGAT GCAA	60.0	222	DRR	Ca_22510	--	--
Ca3_P3_14615218	Ca3	14615218	ATTTTTTTTT/ATTTTTTTTT	CCCATCCAAACCTCAT TTG	AGGCATGGTTGTCTTT CCAG	60.2	557	INTERGENIC	--	--	--
Ca3_P3_14653135	Ca3	14653135	T/TACCGGGGTCC	AGGAGCTTCTGCCATT GAAA	TAAAGGAGCAAAGGC CAGA	60.0	408	INTRON	Ca_22505	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDCC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_14653349	Ca3	14653349	A/AG	AGGAGCTTCTGCCATT GAAA	TAAAGGAGCAAAGGC CAGA	60.0	408	INTRON	Ca_22505	O	--
Ca3_P3_14801451	Ca3	14801451	GATATATATATATATATATAT/GATAT ATATATATATATATATAT	ATGAGCCACAAGCTCC AAGT	TGCCATTTGGTGAACG ATTA	59.9	357	INTERGENIC	--	--	--
Ca3_P3_1481439	Ca3	1481439	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATA/TA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA	TTTGATGTTTCTGCGAC CAG	TGGCATGTGAAGTGTC TTTTG	59.8	918	INTERGENIC	--	--	--
Ca3_P3_14843003	Ca3	14843003	AATATATATATATATATATATATAT A/AATATATATATATATATATATAT ATATA	GAGAAAGAAGATATCG GATTCTCAA	AAAAATCAACGCAGTG GGAG	59.3	356	INTERGENIC	--	--	--
Ca3_P3_1486345	Ca3	1486345	ATCTCTCTCTCTCTCTCTCTCTCTC/ ATCTCTCTCTCTCTCTCTCTCTCTC TC	TTGAAACCTTTGTAGG AAGCA	TCCTCCACCTCACAA TAGAA	58.9	371	DRR	Ca_19415	K	MYB
Ca3_P3_14874833	Ca3	14874833	GCC/GCCC	AGGTCATTTTCGTCTC CCT	CAAACACCTGTTGG ATGC	59.9	679	INTERGENIC	--	--	--
Ca3_P3_14876392	Ca3	14876392	AT/ATT	GCATCCCAAGTGTG TTTG	AGGGAGGACGAAAATG ACCT	60.0	656	INTERGENIC	--	--	--
Ca3_P3_14880871	Ca3	14880871	TG/TGTCG	TTTCGGTCATTTTCGTC CTC	ACACACCTATCGGATG CACA	60.1	616	INTERGENIC	--	--	--
Ca3_P3_1488532	Ca3	1488532	TTATATATATATATATATATA/TTATA TATATATATATATATA	TCCAAACACCTTCACCA TGA	CTGATCAGTGCTGTGG CATT	59.9	507	INTERGENIC	--	--	--
Ca3_P3_14902851	Ca3	14902851	GAA/GAAA	CGGTGGGGAGAACTCT GATA	TTCACATGACATCATC CCGT	60.1	474	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 (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
Ca3_P3_14906453	Ca3	14906453	TGGGGG/TGGGGGG	TTGGTCTTGGGAAGTC AAGC	AACTCTGTTGATTGGC GACC	60.2	449	INTERGENIC	--	--	--
Ca3_P3_14919264	Ca3	14919264	GTTT/GTTTT	CGATTGTGTTGTCA GGG	GAAGCAAATCGATTGG GAAA	60.0	303	INTERGENIC	--	--	--
Ca3_P3_14944530	Ca3	14944530	A/AT	CTCTACCCAAGAAGA TCGC	TGGCAAATCGATTGAA AGAA	60.0	590	INTERGENIC	--	--	--
Ca3_P3_15039270	Ca3	15039270	TC/T	CAACACGATCATGACAA GCA	GCATTTTGCAATTGTCA ACG	59.2	677	INTERGENIC	--	--	--
Ca3_P3_15039370	Ca3	15039370	ATTTTTTTTT/ATTTTTTTT	TGGTATTGGTAGGGAT CTTTGG	GCATTTTGCAATTGTCA ACG	60.1	568	INTERGENIC	--	--	--
Ca3_P3_15072147	Ca3	15072147	AATATATATATATATATATATATA/ AATATATATATATATATATATATA	GAGTGGTGTGGAGTC ATGTTT	AGACATGTGTTTCCCT TCCG	59.0	424	DRR	Ca_17011	--	--
Ca3_P3_15101056	Ca3	15101056	TAAAAAAAA/TAAAAAAAAA	AAGTGAATCCAACATG CCC	AAAAATTGATGGGTGT GGGA	59.8	825	INTRON	Ca_17014	--	GRAS
Ca3_P3_15231571	Ca3	15231571	ATGAACTGAACTGAACTGAA/ATGAACT GAACTGAA	ACCAGGAAAAGAAGAA GGGC	TTGGTTTATTTGGGTT GGGA	59.7	462	INTERGENIC	--	--	--
Ca3_P3_15320734	Ca3	15320734	GGAGAGAGAGAGAGAGAGAG/GGA GAGAGAGAGAGAGAGAG	TGTGCCTTCCTTACTGT GATG	GCATTGTGCATTTCATT TGC	58.8	675	INTERGENIC	--	--	--
Ca3_P3_1533357	Ca3	1533357	TCAAAA/TCAAACTCCAAA	ACCCAAAAGCTAACTTG CCA	GCATCAACAAAGCAGC AGAA	59.7	533	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
Ca3_P3_1534003	Ca3	1534003	AAACTGCAACTAACT/AAACTGCAACTA ACTGCAACTAACT	TTCTGCTGCTTTGTTGA TGC	GTGGATGGGTGTTTC CATC	60.1	774	INTERGENIC	--	--	--
Ca3_P3_15396841	Ca3	15396841	CATATATATATATATATATATATATAT ATATATATATATATA/CATATATATATAT ATATATATATATATATATATATATATA TATATATATATA	TCAATGCGGTCTCTGA AGTG	CACATGCTAATCGACA CCGT	60.0	412	DRR	Ca_17029	--	Trihelix
Ca3_P3_15424721	Ca3	15424721	ATTTTTTTTTT/ATTTTTTTTTT	TTCTGTCCTATATGTAA GATCCA	GTCGCATTTTCAGACA ACCA	58.7	295	INTRON	Ca_17030	OE	WRKY
Ca3_P3_15463471	Ca3	15463471	CATATATATATATATATATATA/CATATA TATATATATATATA	TTTGTGGATTGCATTG ATGA	TGAATTCACCGTAAAC GGAA	59.9	783	INTERGENIC	--	--	--
Ca3_P3_15519811	Ca3	15519811	TAT/TATGCAAT	CCAATCCCATGACCAAT TTC	TAACGCACCGTGCCTA ATT	60.0	502	INTERGENIC	--	--	--
Ca3_P3_15618505	Ca3	15618505	AG/AGG	CAGGATCTTGCAAAGG CTTC	TCTTTTGCAGATCAAAT ACACCA	60.0	813	INTERGENIC	--	--	--
Ca3_P3_15658492	Ca3	15658492	T/TTCCAC	AAAGCATTCCCACTAC GGTG	TTGTCACAGCCTAAAA CCCC	60.0	343	DRR	Ca_17043	--	--
Ca3_P3_15658525	Ca3	15658525	TC/TCATTCC	AAAGCATTCCCACTAC GGTG	TTGTCACAGCCTAAAA CCCC	60.0	343	DRR	Ca_17043	--	--
Ca3_P3_15660475	Ca3	15660475	TA/TAA	AAGTGAGCTAACGGGG GTTT	TGGACAGAGCAAGTGA GGTG	60.0	140	INTERGENIC	--	--	--
Ca3_P3_15694473	Ca3	15694473	TAAAAAAAA/TAAAAAAAAA	TTATCACCAACGAATGT GCC	GCATCCAACCTGCTCA CTCA	59.4	340	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 (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
Ca3_P3_15806766	Ca3	15806766	GAAAAAAAAAAAAAAAAA/GAAAAAA AAAAAAA	AGATTGTTGGGGTTGA CTGC	CGTTGCCTTGTGTT GCTA	60.0	926	INTERGENIC	--	--	--
Ca3_P3_15824653	Ca3	15824653	C/CCTGCTT	CCCTCAAGACTCCAC GATA	CATTGGCTTGAAGTGG GTCT	60.1	268	INTERGENIC	--	--	--
Ca3_P3_15844609	Ca3	15844609	C/CTAGG	ATGGGTAGTAAGCCCC GTCT	TCTTTCAAAGGATGG ATGG	59.8	831	INTERGENIC	--	--	--
Ca3_P3_15868884	Ca3	15868884	AT/ATTATTATT	AATCGTGC GTTTTGTCT TTT	AAATTTGATGATCCAA CGG	59.8	833	INTERGENIC	--	--	--
Ca3_P3_16094863	Ca3	16094863	CTTTTT/CTTTTTTT	TCTCCGCATAAGCTTTC GAT	TGATTGCAAAATAGCAC CCAA	59.9	248	DRR	Ca_17065	--	--
Ca3_P3_16107009	Ca3	16107009	TAAAA/TAAAAA	CCAAATCTTGATGTGG CAA	CAGATGGAAATCCTCC TCCA	59.5	654	INTERGENIC	--	--	--
Ca3_P3_16108101	Ca3	16108101	TAAAAAAAAA/TAAAAAAAAA	AAAACAGGGCAAGAA GCAA	AACAGCAAAAGAGAAG GCGA	59.9	292	INTERGENIC	--	--	--
Ca3_P3_16133157	Ca3	16133157	GTTTTATTTTATTTATTT/GTTTTATTT TATTTTATTTTATTT	CGTCTCTTGAAGCGAT GAAA	CATTGTTGGTCACTAG CAATCA	59.1	698	INTERGENIC	--	--	--
Ca3_P3_16133384	Ca3	16133384	CAATAATAATAATAATAATAATAAT AATAATAATA/CAATAATAATAATAATA TAATAATAATAATAATAATAATA	CGTCTCTTGAAGCGAT GAAA	ATAAGCCGTCAATCTG CCAC	59.1	807	INTERGENIC	--	--	--
Ca3_P3_16133499	Ca3	16133499	TA/TACACAAAGAA	TTTGCCCCATTATAAAC AAAA	ATAAGCCGTCAATCTG CCAC	57.2	625	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
Ca3_P3_16137267	Ca3	16137267	CATATATATATATATATATA/CATATATA TATATATATATATA	TGGCACATCTAAAAATA GGAGGA	AGAAAGTCGCATCCCA GAGA	60.0	544	INTERGENIC	--	--	--
Ca3_P3_16163642	Ca3	16163642	TAAAAAAAAA/TAAAAAAAAA	TTCAAAATCGCAAACAC TGC	ACCCACAAAACGCAAA GATT	59.9	795	INTERGENIC	--	--	--
Ca3_P3_16166714	Ca3	16166714	TTTTG/TTTTGCTTTG	TCAACCATCTGGGTTG GAAT	CCCTAGCAAAGGAAA CAAA	60.2	674	INTERGENIC	--	--	--
Ca3_P3_16171083	Ca3	16171083	T/TG	TACAGCGCTTCATTCCA CAG	CGTGCATGAGCAAAAG AAAA	60.0	468	INTERGENIC	--	--	--
Ca3_P3_16182804	Ca3	16182804	ATTTTTTT/ATTTTTTTTT	CCGGCATCACCTATCA GAGT	TCCGACCTCCTTTGAG AAGA	60.1	583	INTERGENIC	--	--	--
Ca3_P3_16182900	Ca3	16182900	A/ATAATAATAAT	CCGGCATCACCTATCA GAGT	TCCGACCTCCTTTGAG AAGA	60.1	583	INTERGENIC	--	--	--
Ca3_P3_16190775	Ca3	16190775	CA/C	TCGCGGTTCTTGATGA TGTA	AGCTCGACTTATCCTT CGCA	60.2	423	INTERGENIC	--	--	--
Ca3_P3_16195131	Ca3	16195131	AT/ATT	TGATAAAAGACTAACGA TGCAACA	TAAACCAATCAATCTGC CACG	60.1	655	INTERGENIC	--	--	--
Ca3_P3_16195368	Ca3	16195368	CATATAT/CATATATAT	ACGTGGCAGATTGATG GTTT	TTTGATGTTGGCGTAG AGGA	60.4	350	INTERGENIC	--	--	--
Ca3_P3_16195709	Ca3	16195709	AC/A	ACGTGGCAGATTGATG GTTT	GAACGTACGGAAGAGA AGCG	60.4	754	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 (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
Ca3_P3_16197261	Ca3	16197261	TCTTAA/T	CTGCATCGAATTAATGC AACA	AAGGGGGATCATGGAA AACT	59.7	316	DRR	Ca_18251	--	--
Ca3_P3_16212096	Ca3	16212096	TAA/TAAA	AATGCACTTTGCCACTG TTG	CCAAGATTTTGCCAGA TCAA	59.8	550	INTERGENIC	--	--	--
Ca3_P3_16212378	Ca3	16212378	A/AACATTC	ATGCACTTTGCCACTGT TGT	GAGGGGATGATGCTTC AAAA	59.2	879	INTERGENIC	--	--	--
Ca3_P3_16230171	Ca3	16230171	ATTTTTTTTTT/ATTTTTTTTTT	TAGAGTTCTCCCCACC GCTA	TCTAAGACACGGAGGA GGGA	59.8	568	INTERGENIC	--	--	--
Ca3_P3_16331794	Ca3	16331794	TTC/TTCTC	AGGAGACTTGTGCCCT AGCA	TCAAGATTTGCCCTC AATC	60.0	953	INTERGENIC	--	--	--
Ca3_P3_16331942	Ca3	16331942	TAA/TA	AAACGCAATCCTTGAGT TCG	TCAAGATTTGCCCTC AATC	60.2	373	INTERGENIC	--	--	--
Ca3_P3_16347875	Ca3	16347875	CAAAAA/CAAAAAA	GCGTTTTATGGTTGCT GGT	TATGGAAGGTGAGACA GGGG	60.0	690	INTERGENIC	--	--	--
Ca3_P3_16372476	Ca3	16372476	GATATATATATATATAT/GATATATAT ATATATATATATAT	ATTTTGCAAATGGCGAC TTC	CATTTCAATCATGAGTT GCACA	60.1	414	INTERGENIC	--	--	--
Ca3_P3_16471674	Ca3	16471674	CA/CAA	GTGAGGACTGGACGTA ACCC	TCCTTGGGAGTTGTT CTTT	59.4	505	INTERGENIC	--	--	--
Ca3_P3_16476513	Ca3	16476513	TNNNNNNNNN/TNNN	GGCTCACATGTGGAGG CTAT	CCAATGCCATACCATA GAGGA	60.1	344	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
Ca3_P3_16544552	Ca3	16544552	GTTATTATTATTATTATTATTATTAT TATTATTATTATTA/GTTATTATTATTAT TATTATTATTATTATTATTATTA	TGCTCGACATGTTTCTC CTT	CCACACAAACTGACAA CTCCA	58.4	605	INTERGENIC	--	--	--
Ca3_P3_16793468	Ca3	16793468	TTATA/TTATATA	TAATCAAATGCCCCCAA TGT	TTGAGTTCAAGCGTGA GTGG	60.0	851	INTERGENIC	--	--	--
Ca3_P3_168691	Ca3	168691	TTGTGTG/TTGTGTGTG	ATGGTGGCATTATTGT GGGT	CCAAGATAAGCTAGGC GTGC	59.9	267	DRR	Ca_22938	V	NAC
Ca3_P3_16885390	Ca3	16885390	CTATATATATATATATATATA/CTATATA TATATATATATA	CATTTTCATCAAAGGTC GCA	CAAATTTGCCACTGTG TTGC	59.7	244	INTERGENIC	--	--	--
Ca3_P3_16954725	Ca3	16954725	CATATATATATATATATATATATA/CA TATATATATATATATATATATATA	TAAATGACCAAGCCGG AAAA	CGTTTGATCGATTGCA GTTC	60.4	573	INTERGENIC	--	--	--
Ca3_P3_17039245	Ca3	17039245	CAAAAA/CAAAAAAA	TTCTAACTTTGCTGTCC CATTTT	GGGGTAAAACAGGA GGAAG	59.2	750	INTERGENIC	--	--	--
Ca3_P3_17039468	Ca3	17039468	C/CA	TGTTTTGAGGACAAATG TTTTGA	GGGGTAAAACAGGA GGAAG	59.5	301	INTERGENIC	--	--	--
Ca3_P3_17135834	Ca3	17135834	TCTC/TCTCTTCCCTC	CAACGCGCTTTTAGAT GAGA	AAAGCTTTGAAGCAGG GTCA	59.2	655	INTERGENIC	--	--	--
Ca3_P3_17187813	Ca3	17187813	CT/CTTT	AAACAAATAAGCCTGG CGTG	GGAGAGACCAAGCTCT CGAA	60.1	462	INTRON	Ca_24618	S	B3
Ca3_P3_1719355	Ca3	1719355	ATATATCTATAT/ATATAT	TTTCCCTCCAACACAC ACA	CTTTTGATGCCCCGAT TAAA	60.0	351	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_17201946	Ca3	17201946	TTATATATATATATATATATATATATA TATATATAT/TTATATATATATATATATA TATATATATATATAT	AAAATCAAACATGGTG GGA	AAGGCATGATGTTGGA GTCA	60.0	398	DRR	Ca_24619	S	--
Ca3_P3_17244270	Ca3	17244270	AATATATATATATATATATATA/AATA TATATATATATATATATA	AAGAGCGGTGTTGGAG TCAT	ATCTAGCCGCCCTCCAT TTCT	59.7	624	INTERGENIC	--	--	--
Ca3_P3_17300298	Ca3	17300298	/AAAAAAAAAC	TTTAGGGTCTTGTTGT GGC	TCGAATTGTGCCTTA GCAA	60.0	396	INTRON	Ca_23343	T	WRKY
Ca3_P3_173424	Ca3	173424	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GAGAGCGACAACACTG TCAA	GTGGGAGGCGTGTTG TTATT	59.1	646	INTERGENIC	--	--	--
Ca3_P3_17474697	Ca3	17474697	AATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATATATAT	C CAACATGCCGACAA CTTA	TACCATTACATGCAAT GCC	59.6	765	INTERGENIC	--	--	--
Ca3_P3_17491839	Ca3	17491839	AATATATATATATATA/AATATATATATA TA	TGAATTCATGGCTAAAA AGCCT	GCAAAGATGATAATTC GGCAA	60.1	654	INTERGENIC	--	--	--
Ca3_P3_17491912	Ca3	17491912	ATTT/ATTTTTTT	TGAATTCATGGCTAAAA AGCCT	GCAAAGATGATAATTC GGCAA	60.1	654	INTERGENIC	--	--	--
Ca3_P3_17556672	Ca3	17556672	CTTTTTTT/CTTTTTTT	ACATCCCTATTCACCTC CCC	GCAAACCGAAGGAAGA CGTA	60.0	405	INTERGENIC	--	--	--
Ca3_P3_17579559	Ca3	17579559	TAAAA/TAAATAAAA	TGCATTTTCACCAACAT CGT	AATCACCGAGCTGAAA TCAAA	60.0	912	INTERGENIC	--	--	--
Ca3_P3_17708984	Ca3	17708984	CATATATATATATATATA/CATATATA TATATATATATATA	TCACTCAATTTCCACAA CAACC	CCCCAAAAGGATATCC CAGAA	59.9	174	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 (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
Ca3_P3_17725458	Ca3	17725458	CATATATATATATATATAT/CATATAT ATATATATATATATAT	AGAAGAAGGAGGATTC GCGT	GCGATTGGGAGAGAA ACAG	60.3	572	INTERGENIC	--	--	--
Ca3_P3_18191123	Ca3	18191123	A/AC	GGGGAGGAACAATCTT GGAT	CCTTCCTCAATCCTCC ATCA	60.1	292	DRR	Ca_21141	--	--
Ca3_P3_18241779	Ca3	18241779	CTATATATATATA/CTATATATATATA TATA	CTCTACCACGCGATT CGGT	GGAAGTGATGGGTGAA ATGG	60.2	390	INTERGENIC	--	--	--
Ca3_P3_18272727	Ca3	18272727	A/AC	TTTGCCAATCGATTATC GTG	GGGCAATCGACTGACT GAAT	59.5	683	INTERGENIC	--	--	--
Ca3_P3_18487937	Ca3	18487937	AAAGA/AAAGAGATGAAGA	AAAGGAATGCGGTTTG ATTG	CAGAAGAGCGTCTCC AAAC	59.9	706	INTERGENIC	--	--	--
Ca3_P3_18707832	Ca3	18707832	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATA/AAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATA	CCATTTTAAATGCGAAAA GGGT	GACCGTGGGATTGACA GAAT	60.2	597	INTERGENIC	--	--	--
Ca3_P3_18725170	Ca3	18725170	TTTATTATTATTATTATTATTATTAT TATT/TTTATTATTATTATTATTATTA TTATTATTATT	TTGGAGTGAATTGTGC CATC	TTATACTTTGGCCGAT GTGG	59.5	602	INTERGENIC	--	--	--
Ca3_P3_18943181	Ca3	18943181	AAT/A	TGGAGTGTGTGATGTCG TTGTC	AAATCGAAGATCGCAA CAGT	59.6	428	INTERGENIC	--	--	--
Ca3_P3_19089322	Ca3	19089322	T/TATC	CACCGTTGACCAGTTT GATG	CACGGGAAACTCGATG ATCT	60.0	713	INTERGENIC	--	--	--
Ca3_P3_19124579	Ca3	19124579	TAAAAAAAAA/TAAAAAAAAA	CACTTGTTGTTGGGTG GTGA	GGGCAAAACAAGCAAGA CAAT	60.5	302	DRR	Ca_19329	--	MYB_related

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
Ca3_P3_19170970	Ca3	19170970	GAAAAAAAAA/GAAAAAAAAA	TGCAGTTCTGAATTGGT TTGA	TTTTGGAAATTGTTT TCTCG	59.3	391	INTERGENIC	--	--	--
Ca3_P3_19196479	Ca3	19196479	CTATATAT/CTATATATATAT	GGTTCATTGCCATGTT GTGA	AAATGTGAATCCCACC AGGA	60.4	633	INTERGENIC	--	--	--
Ca3_P3_19358625	Ca3	19358625	GTTTTTTTTTTTT/GTTTTTTTTT	AAGATTTGGTCCGTTAT GCG	GTGGGAATGAACAAAG GACG	60.0	517	INTERGENIC	--	--	--
Ca3_P3_19359038	Ca3	19359038	TAAAA/TAAA	CGTCCTTTGTTTCATTCC CAC	TGAGGGCCTTTAGAAT CGTG	60.4	670	INTERGENIC	--	--	--
Ca3_P3_19359334	Ca3	19359334	CCA/C	AGGGAAATCAACGACA GAGC	TGAGGGCCTTTAGAAT CGTG	59.3	365	INTERGENIC	--	--	--
Ca3_P3_19362553	Ca3	19362553	TAAAAA/TAAAA	CCAAATGATGTTGCA GGGT	TCATCATCATTGAAAT CCGTT	60.8	361	INTERGENIC	--	--	--
Ca3_P3_19366983	Ca3	19366983	ATTTTTTTTT/ATTTTTTTTT	AGCTACTCGTCATCCTC CGA	TTAAAAGTGAACACAC GCCG	60.0	807	DRR	Ca_19336	--	--
Ca3_P3_19367869	Ca3	19367869	TGCTAGCT/TGCT	ATTGATTCAAGGATGAG CGG	GCTGCAACATTTTCAA AGCA	60.0	665	DRR	Ca_19336	--	--
Ca3_P3_19368565	Ca3	19368565	GTTTTT/GTTTTTT	GGTGATGCATGATGAT TTGC	TGGGTTAGCTTTTGGG ATTG	59.9	630	DRR	Ca_19336	--	--
Ca3_P3_19369038	Ca3	19369038	CCAACAAC/CCAAC	CAATCCCAAAAGCTAAC CCA	AAGAATCTGCGCCAAC ATCT	59.9	173	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 (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
Ca3_P3_19371062	Ca3	19371062	TAAAAAAAA/TAAAAAAAAA	TTCATTGGATTGTTGT GGG	GAATTCTGCGTTTTT CTGC	59.2	845	INTERGENIC	--	--	--
Ca3_P3_19373696	Ca3	19373696	TAA/TA	GCTGAATGCGTGAAGA ACAA	GGGTAGAAAACACGCG GAAT	60.0	339	INTERGENIC	--	--	--
Ca3_P3_19375049	Ca3	19375049	AAAAGAAA/AAAAGAAAAGAA	TCTCCGTTCCATTACA CGA	AACTCCAATCCCTGC TCAA	59.1	365	INTERGENIC	--	--	--
Ca3_P3_19375109	Ca3	19375109	GAGAAGAAGAAGAAGA/GAGAGA GAGAGAGAAGAAGAAGAAGAAGA	TCTCCGTTCCATTACA CGA	AACTCCAATCCCTGC TCAA	59.1	365	INTERGENIC	--	--	--
Ca3_P3_19376077	Ca3	19376077	A/ATTT	TGACCTTGTGCATTGT TTGA	GCAAACCAACCTTGC CAAT	60.1	333	INTERGENIC	--	--	--
Ca3_P3_19381558	Ca3	19381558	TTATTATTAT/TTATTATTATTAT	GGAGAAAAGCATCGAA AAGC	ACCTAACCCCTCCAAGC CAGT	59.0	338	INTERGENIC	--	--	--
Ca3_P3_19382845	Ca3	19382845	TTT/TTTATT	TAGGGGCATATGGTCT CGTC	ACCACATGATGCTCTC CACA	59.9	782	INTERGENIC	--	--	--
Ca3_P3_19383912	Ca3	19383912	CAAA/CAA	GTCAGGTCAGGCTGGA AAAA	TCGTCTTAATCCACTT GGTGC	60.2	436	DRR	Ca_19337	--	--
Ca3_P3_19386426	Ca3	19386426	AG/A	GTCAAGCGACTGCATT GAAA	GAAGCTCCCAAGAAGT GTGC	60.0	694	INTRON	Ca_19337	--	--
Ca3_P3_19388879	Ca3	19388879	TAAAA/TAAAA	GAGGTGCTAAGTTCAA ACACGA	GTTTTGCACACACAAC CGAC	59.4	335	DRR	Ca_19338	--	--

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
Ca3_P3_19402891	Ca3	19402891	AGA/AAGATGA	ACCCAATCCAAGTTGT CCA	GAAGGCGACCTCAAAG ACTG	60.2	632	INTERGENIC	--	--	--
Ca3_P3_19403411	Ca3	19403411	T/TTCG	AGGGTAATCCGCCAGT CTTT	GCAACATTCGTCTCT CCAT	60.0	674	INTERGENIC	--	--	--
Ca3_P3_1955332	Ca3	1955332	CAAA/CAA	TCATGGTTCTTTTCGAA GTGG	CACCCACTCATCCTTC ACAA	60.1	930	INTERGENIC	--	--	--
Ca3_P3_1956429	Ca3	1956429	GATATATATATATATAT/GATATATATAT ATATATAT	TGAAAGCGTTTCTGCAA GTG	GAAAGCAACATGGGAA GGAA	60.2	766	INTERGENIC	--	--	--
Ca3_P3_1964709	Ca3	1964709	A/AT	TCTCTTTTCTGCAACG CAT	AAACGCAATCCTTGAG TTCG	60.0	317	INTERGENIC	--	--	--
Ca3_P3_19753066	Ca3	19753066	ATTTTTTTT/ATTTTTTTT	TTCTCACCAGTTTGGT CCC	GCACATGAGATCTTGA GGCA	59.9	107	INTERGENIC	--	--	--
Ca3_P3_19893481	Ca3	19893481	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATAT	TTGAGGATCACCGATAT TGAAA	TTCAAACAAGGGTTGC CTTT	59.4	474	INTERGENIC	--	--	--
Ca3_P3_19960460	Ca3	19960460	A/AT	CCTAGTTGGGTGAGGT TTGC	TTACGTATCTCTCGGT GCGA	59.6	792	INTERGENIC	--	--	--
Ca3_P3_19960902	Ca3	19960902	TAAAAAAAAA/TAAAAAAAAA	AGCTTTGATTCTCCAT CGC	GGTATTAGCACCTAC GGCA	59.4	243	INTERGENIC	--	--	--
Ca3_P3_19967887	Ca3	19967887	T/TCCATTG	TGGTCATCCATCAAAC GAAA	ATCCATTCACACATT GAAA	59.9	645	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 (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
Ca3_P3_19989742	Ca3	19989742	CAAAAAAAAA/CAAAAAAAAA	TGGGCAATGCATGAA AGTA	CCCATGCATGCAATAC AAAG	60.1	582	INTERGENIC	--	--	--
Ca3_P3_20004221	Ca3	20004221	TAA/TA	GGTTGTGTGTGGCTTT GATG	ACGGAGAAGTGGCTCA GAAA	60.0	441	INTERGENIC	--	--	--
Ca3_P3_20011561	Ca3	20011561	TTGACACTT/TTGACACTTGACACTT	GCAATTGCAAGAGCTT GATA	TTTGGCATGCAATCAA ACAT	60.0	277	DRR	Ca_09404	--	--
Ca3_P3_20052639	Ca3	20052639	AATTATTATTATTATTATTATTATTA TTATTATTATTAT/AATTATTATTATTAT TATTATTATTATTATTAT	ATCGTGTGCAAAGGAA GGAT	TGTGCTCAAATAAATA CGTGTCTC	59.6	856	INTERGENIC	--	--	--
Ca3_P3_20128194	Ca3	20128194	A/AATT	GGGGCCAATGTAAAA GGTT	CCCAATTAATGGGAAG GGTAA	60.1	111	INTERGENIC	--	--	--
Ca3_P3_20221448	Ca3	20221448	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAT TAATAATAATAATAA/TATAATAATAATA ATAATAATAATAATAATAATAATAATA TAATAATAATAATAATATTAATAAT ATAATAATA	CCTGAGTGTTCGAG AGGC	GGGAAACCCACCTCTT GATT	60.0	772	INTERGENIC	--	--	--
Ca3_P3_20315844	Ca3	20315844	ATTTTTT/ATTTTTTT	CGCAAACACACTTGAA CTGC	AAAGCATGTCACCAAA TAAGCA	60.5	184	INTERGENIC	--	--	--
Ca3_P3_20322285	Ca3	20322285	CTTTTTTT/CTTTTTTTT	AGAGCTCTCGGTGGTT TTCA	AAGTTTTCTTTTGCTGC GGA	60.0	532	INTERGENIC	--	--	--
Ca3_P3_20339565	Ca3	20339565	TAA/TAAA	GGCAAAATGAATTTCCC TCA	AAACGCAATCCTTGAG TTCG	59.9	417	INTERGENIC	--	--	--
Ca3_P3_20424638	Ca3	20424638	CAAAAAAAAA/CAAAAAAAAA	TACATTGGTTTGTGCGA TGC	TGACTATGGGAGGTCA GGAAA	60.5	636	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
Ca3_P3_20498750	Ca3	20498750	GAAAAATTAAAAATTAAAAATTAAAAA GAAAAATTAAAAA	CGTCTGTAATTTTGGCA CATTC	GGTCCGAGGCATAATC CATA	59.5	496	DRR	Ca_09440	GC	HSF
Ca3_P3_20617847	Ca3	20617847	AATATATATATATATATATATA/AATA TATATATATATATATATATA	AATCGATTGGCTGAAAT CCA	TCGAGTTTGAGCATGT GAGG	60.4	809	INTERGENIC	--	--	--
Ca3_P3_20750487	Ca3	20750487	CTTTATTTATTTTATTTTATTTTATTT TTATTTATTTTATTTTATTTTATTT/CTTTA TTTATTTTATTTTATTTTATTTTATTT TATTTTATTTTATTTTATTTTATTTT	TGTTATGTTGGGTTTG GGCT	TGCAGATGGGTTGAGT GTGT	60.2	875	INTERGENIC	--	--	--
Ca3_P3_20811683	Ca3	20811683	CATAATAATAATAATAATAATAATA ATAATAATAATA/CATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATA	ATTCCACATAAGCGTTT GCC	CGATTGTGGACAATGG AAGA	60.0	361	INTERGENIC	--	--	--
Ca3_P3_20949286	Ca3	20949286	CTATATATATATATATATA/CTATATA TATATATATATATATA	GCCGTTACACACTT CCCT	TCAACCGTCAAATTA AGTTCTG	60.0	661	INTERGENIC	--	--	--
Ca3_P3_20956913	Ca3	20956913	ATTTTTTTTT/ATTTTTTTTT	TTGCAAGGCCCAATAA AAAC	TTTTCCGGAAGCCACT TATG	59.9	445	DRR	Ca_09466	--	--
Ca3_P3_20988635	Ca3	20988635	AATATATATATATATATATATATAT ATATATATATATAT/AATATATATATA TATATATATATATATATATATATAT ATAT	CAAGCTGAAGGACTTC CACA	ATTATGTGGCGAGTGA CGGT	59.0	477	INTERGENIC	--	--	--
Ca3_P3_21068795	Ca3	21068795	TA/T	ACAGGAGGTCCTGCTC TTCC	ATCCACCAGGGTCAAT TCAA	60.8	483	INTRON	Ca_09474	J	--
Ca3_P3_21097843	Ca3	21097843	ATTTTTTTTT/ATTTTTTTTT	GGCATTTTGATTGATT CGC	CAAAATTTGTGTTTCAA AAACCATT	60.4	653	INTERGENIC	--	--	--
Ca3_P3_21192862	Ca3	21192862	AATATATATATATATATATATATAT ATATATAT/AATATATATATATATATA TATATATATATAT	TGTCCTTCCTCGTTTT CAATG	TTTGTAGTTCACCAGC AGGG	59.2	414	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CD Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_21207756	Ca3	21207756	TAAAAAAAAA/TAAAAAAAAA	TAACCATGAACCGGCTTTT	GAGACTTCTCCCATCTCC	59.5	501	INTERGENIC	--	--	--
Ca3_P3_21208119	Ca3	21208119	CTATATATATATATATATATAT/CTATATATATATATATATATATAT	GGAGATGGGAGGAA GTCTC	TCTTGAAGCTAACGGA TTTCG	60.0	300	INTERGENIC	--	--	--
Ca3_P3_21252842	Ca3	21252842	CTTTTGTAG/CTTTTGTAGATTTTGTAG	CTCCTTTGCTTCTTCCACG	TCCCTCCAACACACAA CAAA	60.0	331	INTERGENIC	--	--	--
Ca3_P3_21283219	Ca3	21283219	AATATATATATATATATATATAT/AATATATATATATATATATATAT	AAAACTCCGCCACAAAATG	ACAACTCCAACGGAAAACG	60.0	506	INTERGENIC	--	--	--
Ca3_P3_21311568	Ca3	21311568	GAAAAAAAAA/GAAAAAAAAA	CACGTCACATCGCAATTTT	CATGTCAATTCAACCCACGA	59.6	542	INTERGENIC	--	--	--
Ca3_P3_21419450	Ca3	21419450	CA/CAA	CTTCGTCGAAAAGGTCAA	GGGATCATTCTTCAGCTCA	60.2	447	INTERGENIC	--	--	--
Ca3_P3_21583634	Ca3	21583634	CTTTTTTTTTTTTT/CTTTTTTTTT	CAATTCACAGGTACGCTT	AAGAGGGTCACTTTGGCGA	60.0	812	INTERGENIC	--	--	--
Ca3_P3_21602656	Ca3	21602656	TAAAAAAAAA/TAAAAAAAAA	TTGTGACTCAATTGGCCTTG	TTCGTTTTAGTGATGTGAATTG	59.7	958	INTERGENIC	--	--	--
Ca3_P3_21627195	Ca3	21627195	ATCTCTCTCTCTCTCTCTCT/ATCTCTCTCTCTCTCTCTCTCTCTCT	GAGCAAGCAAGTCAAC CACA	CCACCACAGAGGAGTCTGT	60.0	644	INTERGENIC	--	--	--
Ca3_P3_21635343	Ca3	21635343	TTCATATCATATCATATCA/TTCATATCATATCATATCA	TGGCGAGAAGGAGACTTTGT	TCCTCTCCACAACATGACA	60.0	608	INTRON	Ca_09516	--	--

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
Ca3_P3_21635589	Ca3	21635589	GCATCATCA/GCATCA	AAGCATGCCAAACCA AAAC	TGAACATCAAAGATCT GCGG	60.0	521	INTRON	Ca_09516	--	--
Ca3_P3_21696134	Ca3	21696134	CTATTATTATTATTATTATTATTATT ATTATTATTATTATTATT/CTATTATTAT TATTATTATTATTATTATTATTATTATTA TTATTATTATT	TTTTTCAACAACCTCTCT CCGA	GCAAATGCAGACCAGA ATCA	57.6	532	INTERGENIC	--	--	--
Ca3_P3_21884477	Ca3	21884477	CATATATATATATATATAT/CATATATAT ATATATAT	CCGCGAGTAATTCCGA TAA	AGGGGCAACTCCTTTC TCAT	60.1	948	INTERGENIC	--	--	--
Ca3_P3_21897869	Ca3	21897869	ATATTATTATTATTATTATTATTATTA/A TATTATTATTATTATTATTATTATTA	GAGTTGAGTGTGGCA GGGT	AGCTACCAAGCTGATG GTGAA	60.2	296	INTERGENIC	--	--	--
Ca3_P3_21989057	Ca3	21989057	CTATATATATATATATATATATA/CTA TATATATATATATATATATATATATATA	GGGACAACCTGATGTAA TTTAGCC	ACAAAGATTCGCGGAT TGAC	58.9	515	INTERGENIC	--	--	--
Ca3_P3_22026351	Ca3	22026351	GTTTTT/GTTTTTT	ACCGCTATAGTTTGGG GCTT	CGGAGCTGGTTTCTCA TTGT	60.0	635	INTRON	Ca_20423	Z	B3
Ca3_P3_22114232	Ca3	22114232	ATTTTTTTTT/ATTTTTTTT	AAAAGTTGACGTGGCA TTGA	ACTCGTATTTTACCG TGCG	59.2	579	INTERGENIC	--	--	--
Ca3_P3_22165515	Ca3	22165515	TAAACAAAAAACAAAAACAAAAAA /TAAACAAAAAACAAAAAA	TCCAATGTGTGACCAAA CAGA	CACCGGCTTCAAGATG TTTT	60.0	211	DRR	Ca_20412	U	--
Ca3_P3_22377503	Ca3	22377503	TGTT/TGTTAGTT	TTCATTAACGCTTATTC CCTCA	TGCAACTCTAACAGCG ACAA	58.8	694	INTERGENIC	--	--	--
Ca3_P3_22378443	Ca3	22378443	AAATAATAATAATAATAATAATAAT AATAATAATAA/AAATAATAATAATAATA ATAATAATAATAATAA	TTTCGAGATAGCCTTGC GAAT	TTGTTTGATGAGGCAT GACA	59.9	721	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
Ca3_P3_22438235	Ca3	22438235	GAAAAAAAAA/GAAAAAAAAA	TTCCAAACAAAGCCTTT TGC	TAGCAACGGAACAAAC CACA	60.2	690	INTRON	Ca_06267	--	HD-ZIP
Ca3_P3_22481840	Ca3	22481840	ATTTTTTTTT/ATTTTTTTTT	AAAAACAGAGGTGGCT CCTG	TGGAGATTGATCTCAA GCGTT	59.3	595	INTERGENIC	--	--	--
Ca3_P3_22487747	Ca3	22487747	TACAGTGA/TA	GTAATGCCCGTGAGT AGGA	CCCAATTGATTCCAAA AGAA	60.0	778	INTERGENIC	--	--	--
Ca3_P3_22498984	Ca3	22498984	CAGA/CA	GCCCCTTATGACCAAA GTGA	AGAGGTGAAAGAAGTG GCGA	59.9	518	INTERGENIC	--	--	--
Ca3_P3_22922150	Ca3	22922150	ATTTTTTTTT/ATTTTTTTTT	AAAATACATTGCCGCT GGAA	TGTCTCAAAATGAGT TATCAATTAAG	60.2	477	INTERGENIC	--	--	--
Ca3_P3_22951325	Ca3	22951325	GCC/GCCC	CAAACGTGCAATTACG GATT	AGTGGGAGACGAGGT GTCTG	57.7	795	INTERGENIC	--	--	--
Ca3_P3_23014028	Ca3	23014028	CAAAAAAAAAAAAAA/CAAAAAAAAA AAA	GGATGTTGCACAATCA AGGA	GGCAGTGGTAGTGAAG CACA	59.5	370	INTERGENIC	--	--	--
Ca3_P3_23016776	Ca3	23016776	TCCTACCT/TCCT	GCACACCTATGTGGTC TTGC	CCATTTTGTGCGAAGTTT GGTT	59.2	615	DRR	Ca_06208	QR	B3
Ca3_P3_23063614	Ca3	23063614	TTATATATATATATATATATATA/TTA TATATATATATATATATATATATA	GTAACCTGACCCGACC CAAT	ATGACGGTGTGGAG ACAA	59.9	599	INTERGENIC	--	--	--
Ca3_P3_23253882	Ca3	23253882	GAAAAAAAAA/GAAAAAAAAA	TGGGTTGCGATCGTGT ATTA	TCAGTCAGTTGCAACA TAGGAGA	60.0	327	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 (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
Ca3_P3_23551096	Ca3	23551096	AACAATTTACAATTTACGATTTACAATT T/AACAATTTACAATTTACAATTTACGAT TTACAATTT	TCCCATTTTGATTCCT TCA	TCCTAAATCGCTGAA TCTGA	60.2	363	INTERGENIC	--	--	--
Ca3_P3_23651728	Ca3	23651728	TTTATTATTATTATTATTATTATTATT TATT/TTTATTATTATTATTATTATTATTA TTATTATTATTATT	GGTACGTTTGGTCTTG CAGC	TGAGCGCTTATGATCC ATTTT	60.7	529	DRR	Ca_06162	--	NAC
Ca3_P3_236571	Ca3	236571	CGAGAGAGAGAGAGA/CGAGAGAGAG AGA	CAATTCACAGCAAAAGC GAA	CCTAGGGTTTCTTCCC CTCA	60.0	191	INTERGENIC	--	--	--
Ca3_P3_23691313	Ca3	23691313	CTTTTTTTT/CTTTTTTTT	TGTCAGCAACCTTGT CTTG	TTGACGTCACCAATTC AACC	59.9	590	INTERGENIC	--	--	--
Ca3_P3_23759284	Ca3	23759284	GA/GAA	CCATCTCAAACGTGCT CTCA	TTTTGGTGATGTGG AAAT	60.0	181	DRR	Ca_06153	GC	--
Ca3_P3_23762724	Ca3	23762724	ATTTTTTTTTT/ATTTTTTTTTT	TTGTGCCACCTAAAAG CTCA	GCTGAATGTGGACAAT CTTCTTT	59.5	336	DRR	Ca_06152	QI	bHLH
Ca3_P3_23855473	Ca3	23855473	AAT/AATTAT	CGCCGTTAATTAGTGT TGGA	TTTTCTTCCAACGGT GAGG	60.0	674	INTERGENIC	--	--	--
Ca3_P3_23864075	Ca3	23864075	ATTTTTTTTTT/ATTTTTTTTTT	TTCCAATTCTGGTGAGT AATGA	TCCTGGAAGATGAAAA CTCAGA	57.2	843	INTERGENIC	--	--	--
Ca3_P3_23876448	Ca3	23876448	AATATATATATATATAT/AATATATATAT ATATATATATAT	CATAATCCCACGCTCT CGT	TCGGTTAACTGGCCAA ACTC	60.1	568	DRR	Ca_06137	--	--
Ca3_P3_23881356	Ca3	23881356	TTATATATATATATAT/TTATATATAT ATATATATATATAT	ACAGCCAACAACCACA TCAA	CGTAAGTGTGACCGAC GCTA	60.0	864	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 (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
Ca3_P3_23881409	Ca3	23881409	ATTTTTTTT/ATTTTTTTT	TGGTACTGGAGGCCAC CTAC	CGTAAGTGTGACCGAC GCTA	60.0	522	INTERGENIC	--	--	--
Ca3_P3_24011215	Ca3	24011215	ATT/ATT	TCATGAAGATTGGAAG AGAAAGA	TGTTGCTACGCTGAAA CTGG	59.4	272	INTERGENIC	--	--	--
Ca3_P3_24232615	Ca3	24232615	CAAAAAAAAA/CAAAAAAAAA	AGCAATTTTCGGCTAA GCA	TCTACGGCACGAATGA TGAA	60.0	706	INTERGENIC	--	--	--
Ca3_P3_24272959	Ca3	24272959	GAATAATAA/GAATAATAATAA	GCATGTCCGTTACCTC CACT	GCGATTATTATTCAGA GTTATTAGCG	60.0	646	INTERGENIC	--	--	--
Ca3_P3_24410514	Ca3	24410514	GAAAAAAAAA/GAAAAAAAAA	CAAAAGCACTGGGAGG AGAG	TCCCTGCCTTAACCTT GACA	60.0	519	INTERGENIC	--	--	--
Ca3_P3_24414416	Ca3	24414416	AATATATATATATATATAT/AATATATAT ATATATATATAT	TGGAGGCAATACACT CCCT	AAATGCGGACTATGTC GGTT	59.6	434	INTERGENIC	--	--	--
Ca3_P3_24439636	Ca3	24439636	ATTTTTTTTTT/ATTTTTTTTT	ACTTTGCAAGCTTTTGC GAT	AACAATGTATGCACAG GCAAG	60.0	503	INTERGENIC	--	--	--
Ca3_P3_24470665	Ca3	24470665	GATATATATATATATATAT/GATATATAT ATATATATATAT	CAATGTGTGGCATTITG GTC	CCCTATTATTCATCC AGTTCC	59.8	325	INTERGENIC	--	--	--
Ca3_P3_24550785	Ca3	24550785	AATATATATATATATATAT/AATATAT ATATATATATATATATAT	TCGTGCATATCAATTAA ACTTAGGA	CCGTTCAATGATGTG ACCT	59.2	664	INTERGENIC	--	--	--
Ca3_P3_24554701	Ca3	24554701	ATGTG/ATG	GGAGTATTGTGAACCT CACACG	AGATTTTGATTGATTG GCGG	59.5	764	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
Ca3_P3_24731209	Ca3	24731209	ATTTTTTTTTTT/ATTTTTTTTTTTT	GGGGTTTCACTGGTTG AAGA	GCTTTGACCCAGAAT TCAA	59.9	467	INTERGENIC	--	--	--
Ca3_P3_24791040	Ca3	24791040	GAAAAA/GAAAAA	GGGACCACGAATGTAA TTAGC	TGCGAGCATAAGAAGT TGTTG	59.7	740	INTERGENIC	--	--	--
Ca3_P3_24796858	Ca3	24796858	AA/AACATTATCACAACTA	AAAACCAATGCTTCAC ATGC	GGCAATGACTTGTCCT TGTT	60.0	784	INTERGENIC	--	--	--
Ca3_P3_24837729	Ca3	24837729	TAAAAAAA/TAAAAAAA	ATGCCAAATTGCCAAAT ACC	GATTGGTTGGACAAAG GGAA	59.7	434	INTERGENIC	--	--	--
Ca3_P3_24912627	Ca3	24912627	AAATAATAATAATAATAATAAT AATA/AAATAATAATAATAATAATAA TAATAATAATA	CGTAGAGGCGAAAATG TGAA	TGAATCAAATCAACG CACA	58.9	490	INTERGENIC	--	--	--
Ca3_P3_24956986	Ca3	24956986	TAAAAAAAAA/TAAAAAAAAA	TAAAGGACCAAGTCGG GAAA	CGAGAAAAATGATTAT CCCTCAA	59.5	315	DRR	Ca_06033	--	Trihelix
Ca3_P3_24957469	Ca3	24957469	TAA/TA	TTGAGGGATAATCATT TTCTCG	GAAAAAGCGCTGTAA TGGC	59.5	820	DRR	Ca_06033	--	Trihelix
Ca3_P3_24969495	Ca3	24969495	CATATATATATATATATATATATAT ATATA/CATATATATATATATATATAT ATATATATATATATA	TTGAAAATGTGATTCTGA TTGC	TTGAGGATTATTGCCT TGCG	58.6	469	DRR	Ca_06032	--	ERF
Ca3_P3_24984768	Ca3	24984768	CTTTTTTTTT/CTTTTTTTTT	TATATGGGCTGCTCTC CCTG	TTTTGCTTTTGAAGCCA ACC	60.2	663	INTRON	Ca_06031	--	SAP
Ca3_P3_25112902	Ca3	25112902	ATTTTTTTTTTT/ATTTTTTTTTTTT	ATCATGCCCGTAGTG TAGC	ATGCAGGAATTTGTGA AGGC	60.0	780	INTRON	Ca_06017	--	--

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 (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
Ca3_P3_25195854	Ca3	25195854	AAGAATACTCTATGTT/AAGAATACTCT ATGTTAGAATACTCTATGTT	TGCCCTAATTAAGGGA ATAAATG	GTGGTTTGGGCTACTT TCCA	58.5	267	INTERGENIC	--	--	--
Ca3_P3_25252671	Ca3	25252671	GATATATATATA/GATATATATATATA	CCAACCATGTTGACATT TGC	GGTGCATTTTATGGCT GCTT	59.8	361	INTRON	Ca_06003	--	--
Ca3_P3_25254854	Ca3	25254854	AATATATATATATATATATATATATAT ATATATATAT/AATATATATATATATATA TATATAT	CCTTGTGGTTCACCAT GGAC	GACCAATGTGGTCGAT TCAA	61.2	334	INTERGENIC	--	--	--
Ca3_P3_25314505	Ca3	25314505	GAIAAIAAIAAIAAIAAIAAIAAIAAIAA	CCCTCGAATTTGTTTTG GAA	TGGAAATGATTGTTTT TGGG	59.9	711	INTERGENIC	--	--	--
Ca3_P3_25413762	Ca3	25413762	GATATAT/GATAT	TCTAAAAGGTACCGGT GCTCA	TCTGCAACCAIAAACA TCCA	59.8	316	INTERGENIC	--	--	--
Ca3_P3_25425291	Ca3	25425291	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATAT ATATATATA	GGCATCGACATGAGAG ATGA	ACGGTTTGATCCATT GCTC	59.8	635	INTERGENIC	--	--	--
Ca3_P3_25427001	Ca3	25427001	GTATATATATATATATATAT/GTATATAT ATATATATATATAT	ACCAGCATGATGACCA GACA	TAGGCTTGGTGGACCA GTTC	60.1	318	INTERGENIC	--	--	--
Ca3_P3_25464472	Ca3	25464472	AAGACAGAGAGA/AAGA	CCGTTTCCTCTGTGTC CAAT	GCTGTAAAGGTTGAC CCCA	60.0	656	INTERGENIC	--	--	--
Ca3_P3_25508320	Ca3	25508320	GT/GTT	TTGCAATCGAATGACCT CAC	CCTTATCGGTTCCGAA ATCA	59.7	490	INTRON	Ca_05985	--	CO-like
Ca3_P3_25519863	Ca3	25519863	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA T	TCAGTCAACCGCACAT AAAAG	TCATCTATTCAIAAAGT CTCACCG	58.8	541	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 (°C)	Expected 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_P3_25891751	Ca3	25891751	TAAA/TAAAA	CGGTTCTAATTGAAAA GGC	CAACGCTTTGTTCTCT CAACA	58.7	341	INTERGENIC	--	--	--
Ca3_P3_25916961	Ca3	25916961	AATATATATATATATATATATATA/AA TATATATATATATATATATATATATAT A	CAAAAATCCGCACTCAC CTT	TCGTCTTAATTTATGCG GGG	60.1	427	INTERGENIC	--	--	--
Ca3_P3_25950181	Ca3	25950181	AGATGGGGATGGGGATG/AGATGGGG ATG	ACTTGCACCCCATCAG TTTC	TCCCATCTTCATCTTC GTC	60.0	410	INTERGENIC	--	--	--
Ca3_P3_26014278	Ca3	26014278	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAT TAATAATAATAATAA/TATAATAATAA ATAATAATAATAATAATAATAATAA TAATAATATTAATAATAATAATAA	GCCCTCATACCAATG AAGA	GAAAAGGGAAACCCA CCTC	59.9	781	INTERGENIC	--	--	--
Ca3_P3_26071358	Ca3	26071358	TAAA/TAAAA	TGTGTTTGTTGGTTTC ATCTTG	TGTCACGTGATTGGA GCAT	59.9	563	INTRON	Ca_08292	--	MYB_related
Ca3_P3_26071877	Ca3	26071877	TAAA/TAAAA	TGCTCCAATCACGTTGA CAT	AGACGCTGCAACATCA AAGC	60.1	397	INTRON	Ca_08292	--	MYB_related
Ca3_P3_26072078	Ca3	26072078	T/TAATGGT	TGCTCCAATCACGTTGA CAT	GACACGCGAAATAAAA GGAA	60.1	777	INTRON	Ca_08292	--	MYB_related
Ca3_P3_26114065	Ca3	26114065	AG/A	TTTATCTGGGGACTTC GTG	AGGAAAATACACGGGC AAGA	59.9	364	INTRON	Ca_08292	--	MYB_related
Ca3_P3_26114282	Ca3	26114282	ATTATAGTTTTTATT/AT	TTTATCTGGGGACTTC GTG	ATACACCGATGGAGG CTTT	59.9	838	INTRON	Ca_08292	--	MYB_related
Ca3_P3_26114943	Ca3	26114943	GTTTT/GTTT	TGGCATGGTACTCAAC CAGA	TTCACATGAATGATTGT TGGGT	60.1	545	INTRON	Ca_08292	--	MYB_related

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 (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
Ca3_P3_26115029	Ca3	26115029	AACG/A	TGGCATGGTACTCAAC CAGA	TTCACATGAATGATTGT TGGGT	60.1	545	INTRON	Ca_08292	--	MYB_related
Ca3_P3_26159882	Ca3	26159882	CATATATAT/CATATAT	TTGACCAGACCGAGAT CACA	GGGGCATTATGGACTT GAAA	60.2	779	INTERGENIC	--	--	--
Ca3_P3_26215963	Ca3	26215963	T/TATATATATATATA	TTTATGGGAGCTCTTG CCAC	TTGACCCCTCAAAGAG ATGG	60.2	742	INTERGENIC	--	--	--
Ca3_P3_26328372	Ca3	26328372	AAGAGAGAGAGAGAGAGAGA/AAG AGAGAGAGAGAGAGAGAGAGA	TTGTTGAATTTGATGTC GTTGA	TCCTGTATTTTGTAAAG ACCAA	59.1	327	INTERGENIC	--	--	--
Ca3_P3_26336721	Ca3	26336721	GATATATATATATATATATATATATA/ GATATATATATATATATATATATATA TA	AGAAAGGCCGTTTCTT GGAT	ACCACCGACCACCTAC TTCA	60.1	574	INTRON	Ca_08268	YU	bHLH
Ca3_P3_26508807	Ca3	26508807	AATATATATATATATAT/AATATATATAT ATATATAT	AACCACCGCAAAACTA CCAC	AAAACCTTTTGCATGCG TGTG	59.9	514	DRR	Ca_08257	--	NAC
Ca3_P3_26584162	Ca3	26584162	TTTTATTT/TTTTATTTATTT	CAGAACAATGACGTG TCCC	TCCTGGAGAAGCGACC TCTA	59.0	533	INTERGENIC	--	--	--
Ca3_P3_26628740	Ca3	26628740	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATATA TATAT	TGTGATTTTGAGTTTCC TCTCG	CTTGACGTATGCAAG AACA	59.4	342	INTERGENIC	--	--	--
Ca3_P3_26682986	Ca3	26682986	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTA/GTTAT TATTATTATTATTATTATTATTATTA TTATTA	GTTGGCTTTTGTACCC CTCA	GCTGTCAATCATGGG CAAG	60.0	734	INTERGENIC	--	--	--
Ca3_P3_26724618	Ca3	26724618	TCC/T	AGGAGTGTTTTTGGGG TTTG	GCCTCTGATGGTGTCA ACTG	58.9	569	DRR	Ca_08235	J	--

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
Ca3_P3_26872317	Ca3	26872317	CAGAGAGAGAGAGAGAGAGAGAGAG/ CAGAGAGAGAGAGAGAGAGAGAGAG G	CAATGTGCTCGATTCT CCA	TTACATTCTTGCCTC GTCA	59.8	389	INTERGENIC	--	--	--
Ca3_P3_26922565	Ca3	26922565	TAAAAAAAAA/TAAAAAAAAA	GGCCATTTTCCCCTA ATA	ATTGAGGGATCTGGAG GCTT	60.0	494	INTERGENIC	--	--	--
Ca3_P3_27073479	Ca3	27073479	TTTT/TTTTTATTT	ATCATTTTCTCAATGC GGA	ATTGGCGTCAACCTTG TTTC	58.2	727	DRR	Ca_08197	E	--
Ca3_P3_27142432	Ca3	27142432	CATATATATATATATATA/CATATATATA TATATATATA	GCTTCTTTCACACCCAC GTT	GCCGTAACGTAAACGT CAGT	60.2	547	INTERGENIC	--	--	--
Ca3_P3_27263608	Ca3	27263608	TC/TCC	TTGTTTTCTCGTTTTG GGG	TGGATGGTTATCATTC ATTGG	59.9	544	INTERGENIC	--	--	--
Ca3_P3_27273898	Ca3	27273898	GCTCTCTCTCTCTCTCTCT/GCTCTC TCTCTCTCTCTCTCTCTCT	TCCTTCATCCACCAGAC TCC	TGCCACATCCAACACT TTGT	60.0	500	INTERGENIC	--	--	--
Ca3_P3_27278816	Ca3	27278816	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/AAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAA	ACACGTCCGTATTCCTT GCC	TAGAATGTGGCCATGT GGAA	60.0	484	INTERGENIC	--	--	--
Ca3_P3_27299542	Ca3	27299542	ATTTTTTTTT/ATTTTTTTTT	TGCTTTTTCAAAGGGAA TGG	TGTCGAGTTCGGTCAT TTTG	60.0	531	INTERGENIC	--	--	--
Ca3_P3_27300846	Ca3	27300846	CTTTTTTTTT/CTTTTTTTTT	TGATCCCTTTCCTCATT TCAA	AAATTTAGTTTATGCGC TTTGCA	59.5	359	INTERGENIC	--	--	--
Ca3_P3_27310680	Ca3	27310680	CTTTTTTTTT/CTTTTTTTTT	CATGTGACCAAGGACC AATT	AAACCAACCTTGCACT GACA	59.9	606	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
Ca3_P3_27340222	Ca3	27340222	AA/AAGGA	TGATGAAATTGCATTAAATCG	CGGGGTATACGCTGACACT	57.7	402	INTERGENIC	--	--	--
Ca3_P3_27365754	Ca3	27365754	AAATAATAATAATAATAATAAT/AAATAATAATAATAATAATAATAAT	TGATACAGGAAAATCAATTGCG	CAACTTTGATGGCAGAGCA	60.0	752	INTERGENIC	--	--	--
Ca3_P3_27378702	Ca3	27378702	CAA/CAAA	GTGGGGACTAGTGGACTCA	CGGGGAAGTTCTAAGGTGCT	60.1	388	INTERGENIC	--	--	--
Ca3_P3_27382854	Ca3	27382854	GTTTTTTTTTTT/GTTTTTTTTTTT	GCGGTAAAAGAAGGCAAGTG	TGTGGGTACCTTAAACCCTAAAAA	59.9	591	INTERGENIC	--	--	--
Ca3_P3_27490383	Ca3	27490383	CATATAT/CATAT	TTCCCTTGCACTCAAGACACA	GGGCAAATCATTGTTTCGTT	59.4	390	DRR	Ca_08157	Q	B3
Ca3_P3_27687227	Ca3	27687227	A/ATAGTATAG	TGGCGATTATGTGTCCAAATG	CGAAAGTGGATCCTGGAAAA	60.3	347	CDS (FRAME SHIFT)	Ca_08137	S	--
Ca3_P3_27854154	Ca3	27854154	TGG/TG	TCGATAATGAGTGATTAGGTGGG	ACCTCACCTCGAATGTCAC	60.2	459	INTERGENIC	--	--	--
Ca3_P3_27854804	Ca3	27854804	T/TA	GGATTGAGAGGGGAGAAAGG	TTTGAAAGCAAGAGCGTCAA	60.0	516	INTERGENIC	--	--	--
Ca3_P3_27856755	Ca3	27856755	TAAAAAAAA/TAAAAAAAA	CGAAGATGAAGAGGCTTGAAA	CAACAACTTCTGATGCTCGC	59.6	593	INTERGENIC	--	--	--
Ca3_P3_27892125	Ca3	27892125	CAAAAAA/CAAAAAAA	AGGGGCACCAGTACTCTCCT	GAAATGGCCGACTTCAATGT	60.1	508	INTRON	Ca_08120	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 (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
Ca3_P3_27937082	Ca3	27937082	TAAAAAAAA/TAAAAAAAA	CCCTTTCCCATAGTGC TCA	GCCATTGCAAAGACA CTTG	60.1	821	INTERGENIC	--	--	--
Ca3_P3_2795118	Ca3	2795118	CAAAAAAAAA/CAAAAAAAAA	AAGTTTGGGGTTGCTC TTGA	TTTGAGGACTTTTGG GTTG	59.7	307	INTERGENIC	--	--	--
Ca3_P3_28008657	Ca3	28008657	CTAATAATAATAATAATAATAA TAATAATAATAATAATAATAA/CTAA TAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAA	GTCCGCCTTGAGTAA TGGA	TCACCCCAACATCAC TTCA	60.1	645	INTERGENIC	--	--	--
Ca3_P3_28014908	Ca3	28014908	TAAAAAAAA/TAAAAAAAA	TTAGCTTGCTAGCCCA GGAC	AATCCACGCACTTATTT GCC	59.6	360	INTERGENIC	--	--	--
Ca3_P3_28052758	Ca3	28052758	CACAGAC/CAC	ACTTCCGTTACACGTT TCC	CGATGCAGGTGAAGAT CAAA	60.0	481	INTERGENIC	--	--	--
Ca3_P3_28052899	Ca3	28052899	TTGTTCTATATAATGTT/TTGTT	TTTGATCTTCACCTGCA TCG	GCCAACTAGCGCCTA AACA	59.8	269	INTERGENIC	--	--	--
Ca3_P3_28113252	Ca3	28113252	ATTTTTTT/ATTTTTTT	TCCTTCTCCTCTTCCTT CCA	TGTTGTGCAATTGAAT TATAGTTATG	58.9	849	INTERGENIC	--	--	--
Ca3_P3_28188438	Ca3	28188438	CAAAA/CAAAA	ACCCATAACGCACTCG TTTC	TCCTCCATTTTCGTTT TCG	60.0	434	INTERGENIC	--	--	--
Ca3_P3_28191077	Ca3	28191077	CTTTTTTTT/CTTTTTTTT	TAAGATGCGTGGGTTT AGGG	GCTTGTGTTTAAAGCG CTCC	60.0	659	INTERGENIC	--	--	--
Ca3_P3_2820552	Ca3	2820552	CAAAAAAAAA/CAAAAAAAAA	AAAAGGCAAGAAATGG GCTT	TCATATATGGGGGAGT GGGA	60.1	369	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
Ca3_P3_28262509	Ca3	28262509	GTTTTTTTT/GTTTTTTTTT	TACTTTTACCCCATG CCA	AAACACCCATCCCACG TATG	60.2	414	INTERGENIC	--	--	--
Ca3_P3_28357344	Ca3	28357344	TTTATTATTATTATTATTATTATTAT TATTATTAT/TTTATTATTATTATTAT TATTATTATTATTAT	CGTGTCTCCAATATTT GCCT	TCCTCATTGAAATTTCC CCA	59.1	440	INTERGENIC	--	--	--
Ca3_P3_28461083	Ca3	28461083	ATTTTTTTTT/ATTTTTTTTTT	AATTGGATCCCCAACCT TTC	CCCCCTACCATTAAAT CCC	60.0	158	DRR	Ca_07158	--	--
Ca3_P3_28511565	Ca3	28511565	AATATATATATATATAT/AATATATATAT ATAT	TGGGATAGAGTTTGCT TGCC	CCCTCCCATGTTTCC ACTA	60.2	642	INTERGENIC	--	--	--
Ca3_P3_28533888	Ca3	28533888	ATTTTTTT/ATTTTTTTTT	ATCCAATAATGGGTG GGGA	TGGAGATAGCTGGGA AGAA	59.9	477	INTERGENIC	--	--	--
Ca3_P3_2855993	Ca3	2855993	TAAA/TAA	CTTGGTTGGAATTGCAT GTG	CGTTTTGGAAGGTAGG GTGT	60.0	514	INTERGENIC	--	--	--
Ca3_P3_28684295	Ca3	28684295	TTTTATTTATTTATTTATTTAT/TTT TATTTATTTATTTATTTATTTAT	GCCCCTACTGTAGCA CTGG	CAACAATAGATGGCA CCGA	59.8	253	INTERGENIC	--	--	--
Ca3_P3_28743912	Ca3	28743912	ATGTGTGTGTGTGTGTGTGTG/ATG TGTGTGTGTGTGTGTGTGTG	ATCCCAATATCCCTTT GGA	GTAAGGATGCCTGGTT TGGA	60.3	548	INTERGENIC	--	--	--
Ca3_P3_28797825	Ca3	28797825	A/AG	CATAGTCTGCGAAACC AGCA	GGTGAATTGATCGGA GAGA	60.0	454	INTERGENIC	--	--	--
Ca3_P3_28799402	Ca3	28799402	AATATA/AATA	TCTAGCAAGTTCGCGC AATA	TTTGCTGCTGCAATTTA ACAA	59.7	795	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
Ca3_P3_28799571	Ca3	28799571	AG/A	TCTTGGACCTCACTGG GTTT	TGTCCTTGATCTTGTT CCG	59.5	836	INTERGENIC	--	--	--
Ca3_P3_28799969	Ca3	28799969	GTA/GTATA	TGCAGCAGCAAACTT GTGT	CGAATTAAAACTCAA GGGTTCa	60.6	302	INTERGENIC	--	--	--
Ca3_P3_28800295	Ca3	28800295	AT/A	CGGAAACAAGATCAAG GACA	TGTACCGCGTGTATG AAAA	58.7	654	INTERGENIC	--	--	--
Ca3_P3_2886351	Ca3	2886351	AATATATATATATATATAT/AATATAT ATATATATATAT	TGTTTTGTAAAGTAA AGCCCC	CATGTGTTTGACGATG TGAATTT	58.7	548	INTERGENIC	--	--	--
Ca3_P3_28976687	Ca3	28976687	AATTATTATTATTATTATTATTATTA TTATTATTATTATT/AATTATTATTATTA TTATTATTATTATTATTATTATT	ATTCGCAGCCATAATT TCA	TGGATTAATCATGAAAT ACCAACAA	60.4	445	INTERGENIC	--	--	--
Ca3_P3_28984656	Ca3	28984656	GTCTCTCT/GTCTCT	GAGAACGCAAGCTAAC GGAC	GGATCAGAGAAAACGT GGGA	60.0	326	INTERGENIC	--	--	--
Ca3_P3_28986892	Ca3	28986892	GTTTTTTTTTT/GTTTTTTTTTTTT	ATTTCTTTCCGAACCG ACT	TGATTCACGGATTATG CGAA	59.9	546	INTERGENIC	--	--	--
Ca3_P3_28994933	Ca3	28994933	AC/A	CAAATTAAGCAGAGCC CGTC	TTTTGGACAATGTCAA CCCA	59.8	165	INTRON	Ca_07207	KTDL	--
Ca3_P3_28995118	Ca3	28995118	CAA/CAAA	CAAATTAAGCAGAGCC CGTC	CGGAATTTGAACAAAA CGCT	59.8	769	INTRON	Ca_07207	KTDL	--
Ca3_P3_28996658	Ca3	28996658	ATT/ATTT	AGGGCTTTGGTCGTGT ATTG	AACAATTGCGGGTGTA GAGG	60.0	861	INTRON	Ca_07207	KTDL	--

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 (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
Ca3_P3_28999636	Ca3	28999636	CT/CTT	TCTGAATTCTGTACCG CCC	GGGATAGGGCATGTGT GAGT	60.1	536	INTRON	Ca_07207	KTDL	--
Ca3_P3_29095257	Ca3	29095257	TAAAAAAAAA/TAAAAAAAAA	GTGGGTCGAATCAACA TTCA	GAAATGGCTTTTAAATC CACG	59.3	370	INTERGENIC	--	--	--
Ca3_P3_29097133	Ca3	29097133	CTACTTATTTA/C	AAAATGCTGCACTCAAA CGA	CACGGGTTGCGTATAT CCAT	59.5	233	INTERGENIC	--	--	--
Ca3_P3_29174780	Ca3	29174780	TTATATATATATAT/TTATATATATAT ATATATATAT	ATCCACCCACATTCAA ATC	GGAGAGAAATACGCGT GGAG	59.5	439	INTERGENIC	--	--	--
Ca3_P3_29263411	Ca3	29263411	TAAAAAAAAA/TAAAAA	TTCAAAATGGACCGT GAAA	TTGCAACTTTACGAAA CCCC	59.9	537	DRR	Ca_07235	IR	Nin-like
Ca3_P3_29263688	Ca3	29263688	A/AAAGGT	TTGAAGATCTCTGTGG CGAA	CTTCTCTCCCCAGCTT GTTG	59.5	762	DRR	Ca_07235	IR	Nin-like
Ca3_P3_29446926	Ca3	29446926	GCA/GCACA	CAGCAGGGGCATACGT TAAT	GATTCCCTCCCTGAT TCTC	60.0	306	INTERGENIC	--	--	--
Ca3_P3_2944898	Ca3	2944898	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA AAA	TCGGCAGATTGTGCAT AAAA	GACGAGTGGGCCAAA GAATA	60.2	838	INTERGENIC	--	--	--
Ca3_P3_29486404	Ca3	29486404	TAAAAAAAAA/TAAAAAAAAA	TCACCCCAACCAAAA GAAG	GAATTAAGACGTGGCC GGTA	59.9	592	INTRON	Ca_07254	--	C2H2
Ca3_P3_29512683	Ca3	29512683	AATATATATATATATATAT/AAATATAT ATATATATATAT	TGCAATGAATGGAATCT TGG	TCCAAAACAACAAGGA CACG	59.5	380	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
Ca3_P3_29613965	Ca3	29613965	AAATAATAATAATAATAA/AAATAAT AATAATAATAATAATAATAATAA A	CGGCAAAATATAACGAA CACG	CATGAGGATGCGACCA TCTA	60.4	500	DRR	Ca_07267	--	--
Ca3_P3_29658789	Ca3	29658789	ATTTTTTT/ATTTTTTTT	TGGCTACTTATGGCC TGAC	AAGTCTGGCCTACGGC CTAT	60.1	619	INTERGENIC	--	--	--
Ca3_P3_29699118	Ca3	29699118	ATATTT/AT	AATACACCAGGAGCAA TCGG	CAACTTTGGATTGCT ACCCC	60.0	732	INTERGENIC	--	--	--
Ca3_P3_29740808	Ca3	29740808	A/ATATATAT	TTTGCCCGTTGTTATT CTC	GAGCACCAGTCCTTA CCACA	59.9	906	INTERGENIC	--	--	--
Ca3_P3_29746184	Ca3	29746184	TTATATATATATATATATATAT/TT ATATATATATATATATATATATATA TATATATATAT	CGTGATCAGAAGCGTG ATTG	TCCTTGACTGAAACCC CAAC	60.4	649	INTERGENIC	--	--	--
Ca3_P3_29767581	Ca3	29767581	AATATATATATATATATATATATAT/A ATATATATATATATAT	AGCAAGGTCGACTTTC TCCA	TGGCACAACCTAACA ACCAA	60.0	694	DRR	Ca_07284	--	bHLH
Ca3_P3_29768034	Ca3	29768034	CTTTTTTTTT/CTTTTTTTTTTT	TTGGTTGTTAGAGTTGT GCCA	GCGACCACACAATATC AACG	59.2	550	DRR	Ca_07284	--	bHLH
Ca3_P3_29809142	Ca3	29809142	ATAT/AATTAT	GCTCATGCCTCCTTCAA AAA	AAGCAGCCATAATGAC AGGG	60.3	856	INTERGENIC	--	--	--
Ca3_P3_29829081	Ca3	29829081	CAAAA/CAAAA	TTCAATTCATCGCATTGA GGA	CTTTGAATCCTTGCCC AAAA	60.2	337	INTERGENIC	--	--	--
Ca3_P3_29848442	Ca3	29848442	AATATATATATATATATATATATATAT ATATATATATATATAT/AATATATATATA TATATATATATATATATATATATATAT ATATATATATAT	GCTGGTTCCAACACAT GAGA	GATGCTAGCGCTTCAC AAGA	59.7	258	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 (°C)	Expected 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_P3_30602335	Ca3	30602335	TTG/T	GCCCTCAGATGAGAGT CAGG	AAATTAACCTCATCC CCG	59.9	842	INTERGENIC	--	--	--
Ca3_P3_30707652	Ca3	30707652	CTTTTTTTTTTTTTTT/CTTTTTTTTTTT TTT	TGGTTCCAATCTCTACC GTCTT	TGAAAAAGAATAGCCA CATATTCC	60.0	575	INTERGENIC	--	--	--
Ca3_P3_30894316	Ca3	30894316	A/AGAACTGGAGG	AATTTTCCTACTTGGGC GGT	AGTGAAATGCTCCACA GCCT	59.8	230	INTERGENIC	--	--	--
Ca3_P3_30899185	Ca3	30899185	G/GACA	CTTTAGTGGGGAGCCA TGAA	GAAATTCGCCATTTTCT GGA	60.1	520	CDS (large-effect mutations)	Ca_12186	O	--
Ca3_P3_30927472	Ca3	30927472	ATTTT/ATTT	GCAATTTTGACCGCGA TTTA	TGGTAGGAATGCCTCC TGAA	60.9	708	DRR	Ca_12190	--	--
Ca3_P3_30930504	Ca3	30930504	GTTTTTATTTTATTTTA/GTTTTTATT TTTA	GCATGGACCGTTTAAA ATTG	TTTAGGTGGAAAATTC ATTAGAAAA	58.0	818	INTERGENIC	--	--	--
Ca3_P3_30941967	Ca3	30941967	TTATATATATATATATATATATATATA TATATATA/TTATATATATATATATAT ATATATATATATATA	GGGAAAACAATTATCC GAATC	ATGGATGCCACCTCTT GAGT	57.4	565	INTERGENIC	--	--	--
Ca3_P3_3094451	Ca3	3094451	CTTTTTTTTTTT/CTTTTTTTTTTT	TTTGGAACTCTGTGAG GAGAA	TCAACAAGCCCCCATG TAAT	57.4	167	INTERGENIC	--	--	--
Ca3_P3_30964476	Ca3	30964476	TTATATATATATATATA/TTATATATA TATATATATATA	TGGACAATTTCTTTGT CTTTTGA	GCAAGAACACATTAC GCGA	60.0	800	INTERGENIC	--	--	--
Ca3_P3_31029281	Ca3	31029281	ATTTTTTT/ATTTTTTTTT	TGGTCACAAAGGTGAA ACTCA	ATTGGTTCGATTCTTC CGTG	59.2	952	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	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
Ca3_P3_31087418	Ca3	31087418	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATATATATATATATAT	AACACATTATTTCGACC GCA	CACGGTAAGGGACAAC TG TG	59.0	533	INTERGENIC	--	--	--
Ca3_P3_31183232	Ca3	31183232	TATATA/TATATAAATATA	CACCGTATTACACAAA ACGA	TTTTGCACGACAACAAC AAGG	58.5	599	INTERGENIC	--	--	--
Ca3_P3_3122065	Ca3	3122065	TAAAAAAAAA/TAAAAAAAAAA	TGCC TAAGCGTATGA TTCC	CGGGGAATCAGCTTTA TTGA	60.1	156	INTERGENIC	--	--	--
Ca3_P3_31266098	Ca3	31266098	TC/T	TGCGTGCGTCTTTGAT TAAC	TAGCCAAGTCAACCG AATC	59.9	446	INTERGENIC	--	--	--
Ca3_P3_31266903	Ca3	31266903	ATTTTTTT/ATTTTTTTTT	CACGCATCATTCCTTCA TTG	TTGTGTTCCC ACTTTT GCC	60.1	600	INTERGENIC	--	--	--
Ca3_P3_31283918	Ca3	31283918	GTTTTTT/GTTTTTTT	AGCCTTCGCAGTCTTT CAA	ACTGCGCTTCTGCTT CAAT	60.1	667	DRR	Ca_12224	S	--
Ca3_P3_31285016	Ca3	31285016	A/AT	CGTCGTTTTCAACTGG GAAT	GGATACGAAGTCGGT GCAT	60.0	328	INTERGENIC	--	--	--
Ca3_P3_31285044	Ca3	31285044	TATAATAATA/TATAATA	CGTCGTTTTCAACTGG GAAT	GGATACGAAGTCGGT GCAT	60.0	328	INTERGENIC	--	--	--
Ca3_P3_31286034	Ca3	31286034	GTTTTTTT/GTTTTTTTTTTT	TGGTAAATTGTTCGTGT TTGAA	AACTTTGACATTGGGT CGGT	58.1	391	INTERGENIC	--	--	--
Ca3_P3_31289874	Ca3	31289874	ATTTTT/ATT	GGTTC AAACGT GTTC CTTG	TTAAAGAGCGACCTCC CTTC	60.4	460	DRR	Ca_12225	P	ERF

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 (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
Ca3_P3_31290388	Ca3	31290388	AG/A	TTTAAAGAAGGGAGGT CGCTC	TTGAAGCAGTGTTGTG GGAA	59.8	632	DRR	Ca_12225	P	ERF
Ca3_P3_31292004	Ca3	31292004	TTCT/TT	CCAAACACTTTAATTAG CTTAACATTT	AATTGGCTTGATGTCC CAAC	57.8	419	INTERGENIC	--	--	--
Ca3_P3_31296714	Ca3	31296714	ATTTTTTT/ATTTTTT	TCGGTTTTAAGGGAAG CAAA	ACACACGCGTCAAACT CAAA	59.7	365	INTRON	Ca_12226	K	MYB
Ca3_P3_31303690	Ca3	31303690	GAAAA/GAAA	TCCCTCAATTGCATCAA ACA	ACAACAGATGGCTGCA CAAG	60.0	482	DRR	Ca_12228	--	--
Ca3_P3_31307321	Ca3	31307321	GACTTATA/GA	TCTTGGGACATGTGAA TGTGA	GTGAGCCACATTTTG TCCT	60.0	886	INTRON	Ca_12229	--	Dof
Ca3_P3_31307610	Ca3	31307610	CAAACGCACATAA/CA	TCGTTTCCAAATCCAAC ACA	GTGAGCCACATTTTG TCCT	59.9	214	INTRON	Ca_12229	--	Dof
Ca3_P3_31310435	Ca3	31310435	CTAGT/CT	CTCTCCCACTGTGGCT CTTC	AAAGCCAAATCCCAT ATCC	60.0	573	INTRON	Ca_12229	--	Dof
Ca3_P3_31311879	Ca3	31311879	TTATA/TTATATA	TTTCACGTTCTTCAAAC CCA	TTATTCATTGCTCGT GCAG	59.1	352	DRR	Ca_12230	--	Dof
Ca3_P3_31312021	Ca3	31312021	TAAATAAATAAAA	TTTCACGTTCTTCAAAC CCA	TTATTCATTGCTCGT GCAG	59.1	352	DRR	Ca_12230	--	Dof
Ca3_P3_31320036	Ca3	31320036	AATATAT/AATAT	GGTATGGAAGCCTTGT GCAT	AAACATGGCATCACCC AAAT	60.0	494	DRR	Ca_12232	U	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 (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
Ca3_P3_31320091	Ca3	31320091	TGAG/TGAGAG	GGTATGGAAGCCTTGT GCAT	AAACATGGCATCACCC AAAT	60.0	494	DRR	Ca_12232	U	bHLH
Ca3_P3_31322105	Ca3	31322105	TAAAAAAAAA/TAAAAAAAAA	GTTTCAACATGACCATC CCC	CCCCCTGAAAGATACC CAAT	60.0	868	INTRON	Ca_12232	U	bHLH
Ca3_P3_31322668	Ca3	31322668	TAAAAA/TAAAA	ATTGGGTATCTTTCAGG GGG	ACTCTTTCGAATGTGG TGCC	60.0	229	INTRON	Ca_12232	U	bHLH
Ca3_P3_31324543	Ca3	31324543	TAG/TAGTAATGTAATAAG	CCTGGGTCCAATCCTT ACCT	TCAGCTTATTAGGGCA TGGG	60.2	660	INTRON	Ca_12232	U	bHLH
Ca3_P3_31325736	Ca3	31325736	ATTT/ATTTT	ATTAATTGGGCTGACG TGGA	GTCCACATTAGGACA CGCT	60.3	426	INTERGENIC	--	--	--
Ca3_P3_31327189	Ca3	31327189	TAAAAAAAAA/TAAAAAAAAA	CAAAATGCATGGACAAA CTGG	GGATCATTCGCGACCA TAAT	60.0	426	INTERGENIC	--	--	--
Ca3_P3_31328179	Ca3	31328179	GTTTTTTTTT/GTTTTTTTT	TCCAACCTAACCGCAATT CAA	TCATGGCAAATTTAGG ATGTTG	59.2	447	INTERGENIC	--	--	--
Ca3_P3_31335663	Ca3	31335663	TTATATATATAT/TTATATATAT	GTTTGAGACCCTGCTTT TGC	AAGGATACACCGCACG TTTC	59.9	767	DRR	Ca_12233	S	bZIP
Ca3_P3_31338630	Ca3	31338630	ATTT/ATT	TATCGTTCGTGCTCTC GTG	GGCCGAAAGTTATTAC GTGG	60.0	870	INTERGENIC	--	--	--
Ca3_P3_31339236	Ca3	31339236	T/TC	CCAACCCATGTACCGA CATT	AGAGACCGTTTCATGA GATTTG	60.5	525	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 (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
Ca3_P3_31343206	Ca3	31343206	AG/A	TGGTTTGAAATACTGGT CATGC	GATCACGGGAGGATC GACTA	59.9	257	DRR	Ca_12234	--	--
Ca3_P3_31343763	Ca3	31343763	TAAA/TAAAA	AATAGTCGATCCTCCC GTGAT	CCATGCTCAAGTCTAG GTTCCG	59.8	510	DRR	Ca_12234	--	--
Ca3_P3_31345376	Ca3	31345376	AAATGGAAT/AAAT	ATGGAAAGCCAGCTGA AGAA	CTATGTTGTGGGAAGG TGGG	60.0	592	INTERGENIC	--	--	--
Ca3_P3_31349079	Ca3	31349079	CAT/CATGAT	TAAAGGCATTGCGTG TTGA	TTTTGGTGAAAGCCAA TAACG	60.3	512	INTERGENIC	--	--	--
Ca3_P3_31350671	Ca3	31350671	ATCGAGT/ATCGAGTCGAGT	TCTTAGCGTAGATTG CCGT	AACATCTGGGCTAATC GGTG	60.0	280	INTERGENIC	--	--	--
Ca3_P3_31350700	Ca3	31350700	TCATG/TCATGCATG	TCTTAGCGTAGATTG CCGT	AACATCTGGGCTAATC GGTG	60.0	280	INTERGENIC	--	--	--
Ca3_P3_31350961	Ca3	31350961	GTTTAATTTAATTT/GTTTAATTT	TCTTAGCGTAGATTG CCGT	TGTCATTGAGGTGGGT GTTG	60.0	781	INTERGENIC	--	--	--
Ca3_P3_31351028	Ca3	31351028	A/ATAT	CACCGATTAGCCCAGA TGTT	TGTCATTGAGGTGGGT GTTG	60.0	521	INTERGENIC	--	--	--
Ca3_P3_31370335	Ca3	31370335	ATATTAT/ATATTATTAT	GGAGATGATGACGCCA AAGT	TGGTCTGACCCTTAAA TTGGA	60.1	679	INTERGENIC	--	--	--
Ca3_P3_31375853	Ca3	31375853	TAATAAATAAATAA/TAATAAATAAATAA ATAA	TGGTTGTCAGAGCAGG TTCA	CATATGTGAACCATGG CAGC	60.4	334	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 (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
Ca3_P3_31381469	Ca3	31381469	TC/T	TAAACCTTGGCTGGGT CAAC	TTGTTTATTTTGTTCGT CGTGTT	60.0	403	INTERGENIC	--	--	--
Ca3_P3_31383053	Ca3	31383053	CTTTT/CTTTT	CCCTAAATCAACGGGA GTCA	AGCGGTCACCTTTTCT CCAA	59.9	285	INTERGENIC	--	--	--
Ca3_P3_31383299	Ca3	31383299	GATAAAAA/GATAAAATAAAAA	TTGGAGAAAGAGTGAC GGCT	GAGGTGTTTGTTCGCGTCT	60.0	671	INTERGENIC	--	--	--
Ca3_P3_31385464	Ca3	31385464	T/TA	TTTCGATTGATTTTGCA TTTGT	TTGTGACCCCTCTAT TTTGA	59.9	736	INTERGENIC	--	--	--
Ca3_P3_31396349	Ca3	31396349	CT/CTTT	TTCTCTTGTGCGTTGT TGA	GGGAGTGACCAAACT GTCCG	60.4	251	INTERGENIC	--	--	--
Ca3_P3_31408939	Ca3	31408939	TAAAAAAAA/TAAAAAAAA	TTAAATTCATCCCCTC CCC	AGATTTCTTTGTCATG GGTG	60.0	828	INTRON	Ca_12237	O	--
Ca3_P3_31415275	Ca3	31415275	T/TG	GTAGCTAACCCAACCG GTGA	GGGCCCGTTATATATT GGCT	60.0	565	INTERGENIC	--	--	--
Ca3_P3_31440549	Ca3	31440549	ATTT/ATTTT	GCGGTTGTCAATTTCTC GTTT	TTGTTAACGAATTGCA CCGA	60.1	583	DRR	Ca_12242	--	--
Ca3_P3_31441706	Ca3	31441706	AT/ATGAAATT	AACAATTTTGAACCC CTAA	TTTGCAAGTGCAACTT CTGC	57.5	669	DRR	Ca_12242	--	--
Ca3_P3_31442973	Ca3	31442973	CTTTT/CTTTTTT	TAGATGATTTTGGCAAG GGC	CTGGACTTTCGTCATC AGCA	60.0	457	INTRON	Ca_12242	--	--

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 (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
Ca3_P3_31443022	Ca3	31443022	CGT/C	TAGATGATTTGGCAAG GGC	CTGGACTTTCGTCATC AGCA	60.0	457	INTRON	Ca_12242	--	--
Ca3_P3_31443328	Ca3	31443328	ATTTTT/ATTTTTT	TGCTGATGACGAAAGT CCAG	CATATTGGATGGGATG GTCC	60.0	302	INTRON	Ca_12242	--	--
Ca3_P3_31445239	Ca3	31445239	ATA/ATATGTA	GGCCGGATTAGTTGAG TTTG	AATCGTTGGTAGGCGA GAAA	59.6	536	DRR	Ca_12243	G	--
Ca3_P3_31445406	Ca3	31445406	ATT/AT	GGCACAATGCAAAAAG AATTG	AGCGCAAACATAACCG GTAA	60.5	297	DRR	Ca_12243	G	--
Ca3_P3_31445620	Ca3	31445620	ATCATT/AT	TTACCGGTTTAGTTTGC GCT	TGCAAAATGGGATGAC AAAA	59.8	416	DRR	Ca_12243	G	--
Ca3_P3_31448937	Ca3	31448937	ATTT/ATTTAGAAAGTTT	TGGCCACCACTAACAC AAAA	ACAGGTGATCCTCTTT CCCC	60.0	757	INTERGENIC	--	--	--
Ca3_P3_31451366	Ca3	31451366	CTTTT/CTTT	TGGATTTTACAAACGCC CTC	TCTGGCCTGACCTGAG CTAT	59.9	947	INTERGENIC	--	--	--
Ca3_P3_31465126	Ca3	31465126	GCAAT/GCAATCTACAAT	TTCTGTATTACAACCT CCC	TCATGAGTGCACAAAG CACA	59.9	205	DRR	Ca_12245	P	--
Ca3_P3_31466998	Ca3	31466998	CTTTTTTT/CTTTTTTTTT	GAAACCACGAGCAAGA AAGC	GCTCTCGCAAGAACAA AACC	60.0	759	INTERGENIC	--	--	--
Ca3_P3_31475626	Ca3	31475626	TAT/TATTCATATAGAT	ATCTTGTCGTGCCGTC ATTT	TCACCAACAAATCTG AACCA	60.5	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 (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
Ca3_P3_31475946	Ca3	31475946	CT/CTGGTATTT	CGTGCCGTCATTTTCAA GTT	TCACCAACAAATCTG AACCA	61.1	533	INTERGENIC	--	--	--
Ca3_P3_31476572	Ca3	31476572	AAATA/AA	TGGTTGTTTCACTCAG TTTG	GGATGGCAATCCTCCA TTAC	59.6	519	INTERGENIC	--	--	--
Ca3_P3_31476761	Ca3	31476761	CTTATTAT/CTTATTATTAT	TGGTTGTTTCACTCAG TTTG	AGGGTGTCAAAATGG AAGC	59.6	612	INTERGENIC	--	--	--
Ca3_P3_31477247	Ca3	31477247	TTTTATTTATTTATTTATTTATTTAT TTATTTATTTATTTATTTATTTATTT	GCTTCCATTTGTGACAC CCT	ACAAAAGGCCACTTCC AATG	60.0	596	INTERGENIC	--	--	--
Ca3_P3_31482869	Ca3	31482869	CGTTATAAGG/CG	CTTCCTTGACACGCTAA GGG	AAGTCGTTTTGTTTTG CGG	59.9	618	INTERGENIC	--	--	--
Ca3_P3_31488477	Ca3	31488477	CCTCT/CCT	AGGCCCTTATGACGTT GATG	ACACATTCATTCGCCA AACA	60.0	496	INTRON	Ca_12247	T	--
Ca3_P3_31489433	Ca3	31489433	ATTT/ATTTTT	GGTGCCAAGAGACCAG AGAG	AGTGAGCTAGCAGGA ACCA	60.0	383	INTRON	Ca_12247	T	--
Ca3_P3_31491087	Ca3	31491087	CTTTTT/CTTTT	CCCCCAAACCTTCAAAA AGT	CGTTTGATAATTTGAG GGGC	60.2	421	DRR	Ca_12247	T	--
Ca3_P3_31499028	Ca3	31499028	ATTTTTTTTT/ATTTTTTTTTT	GGCCAAGTTTTTGATT GGC	GTCTTCCTGCCTCGA AAT	59.5	348	DRR	Ca_12249	I	--
Ca3_P3_31499806	Ca3	31499806	CATATCAATATCAATATCAATATCAATA T/CATATCAATATCAATATCAATAT	GCGGCAAATAACATGT GAAA	TCCTAGACTTGTGGG GCAC	59.6	565	DRR	Ca_12248	T	--

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
Ca3_P3_31508746	Ca3	31508746	TAA/TAA	GGGCAAAACTAAAGA GGGG	TTGGATCCCACCAAGA AAAG	59.9	650	INTRON	Ca_12249	I	--
Ca3_P3_31519164	Ca3	31519164	C/CT	TACACGTGGCCTCAAA CAAA	TCAAGCATGGTTCCAA TCAG	60.1	364	INTERGENIC	--	--	--
Ca3_P3_31519218	Ca3	31519218	AA/AACAGGA	TACACGTGGCCTCAAA CAAA	AAGCCTGCAATGGATG AAAG	60.1	800	INTERGENIC	--	--	--
Ca3_P3_31520896	Ca3	31520896	ATTTTTTTTT/ATTTTTTTTTTT	GGCAACAACACTTGCA GCTA	GCAGCAGTCAGCACTT GTTC	60.1	428	INTRON	Ca_12251	--	--
Ca3_P3_31530376	Ca3	31530376	AAT/AATGCAT	CCAATCGTAGGAAGGC CATA	TGGGAAATAGATCGGT CTCG	59.9	730	INTRON	Ca_12252	E	TALE
Ca3_P3_31530486	Ca3	31530486	TA/TACTTGA	AATCCTTCTGCACATT GGG	TGGGAAATAGATCGGT CTCG	60.1	449	INTRON	Ca_12252	E	TALE
Ca3_P3_31530560	Ca3	31530560	TTGGGT/TTGGGTGGGT	AATCCTTCTGCACATT GGG	TGGGAAATAGATCGGT CTCG	60.1	449	INTRON	Ca_12252	E	TALE
Ca3_P3_31531338	Ca3	31531338	CATGTAATGTAAT/CATGTAAT	CCGTACCAATCATCCC AATC	GCCGTTATCGGACCTT TGTA	60.0	427	INTRON	Ca_12252	E	TALE
Ca3_P3_31560705	Ca3	31560705	A/AAG	TGTTCACTGCCAAACTC TGC	GCAGTGCACAACTGAT GGTT	60.0	585	INTERGENIC	--	--	--
Ca3_P3_31563003	Ca3	31563003	CATA/CATATA	GAATGGTGTTCTTTGT CCC	AATTCACCCAAAGAC ACGG	59.2	274	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 (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
Ca3_P3_31563949	Ca3	31563949	CAAAA/CAAA	TGCTTCCAACCTCTTAT CCAA	GATGATGGCTTACTTC GGGA	59.7	357	INTERGENIC	--	--	--
Ca3_P3_31563986	Ca3	31563986	TATTAATTA/TATTA	TGCTTCCAACCTCTTAT CCAA	GATGATGGCTTACTTC GGGA	59.7	357	INTERGENIC	--	--	--
Ca3_P3_31565099	Ca3	31565099	TAAAAAAAA/TAAAAAAAA	GTAGCAATCTCAAGGC CGAA	CCACCCCAACCATGTT AATC	60.4	501	DRR	Ca_12255	--	G2-like
Ca3_P3_31565430	Ca3	31565430	GACGCCA/GA	GATTAACATGGTTGGG GTGG	TGCAAGCATGTGGTTC ATTT	59.9	258	DRR	Ca_12255	--	G2-like
Ca3_P3_31566099	Ca3	31566099	CG/C	AAAGGGCATGGGAAA ATAG	TTTTCATGCATTGAGA CGC	60.1	338	DRR	Ca_12255	--	G2-like
Ca3_P3_31566407	Ca3	31566407	T/TCAGTACCATATTAACC	GCGTCTCAATGCATG AAAA	GCAGATAATGGCTACG CCTC	59.8	441	DRR	Ca_12255	--	G2-like
Ca3_P3_31567532	Ca3	31567532	TC/TCTCTGC	TGGAGGTACCTGCCTT GTTC	ATCCCTTCGCTAGTA CGGT	60.1	754	INTRON	Ca_12255	--	G2-like
Ca3_P3_31569678	Ca3	31569678	TAAAA/TAAAA	TGTCAGTGCTGTGTGC GTTA	TTTGTTGAATACCGTT GGCA	60.1	635	INTRON	Ca_12255	--	G2-like
Ca3_P3_31574191	Ca3	31574191	ATTT/ATTTT	TAGCGCATTTATATTGC CCC	CAATCGCAGCGACGTA GATA	59.9	767	INTERGENIC	--	--	--
Ca3_P3_31576727	Ca3	31576727	AATATATATATATATATATATA/ AATATATATATATATATA	GGGGTTGTGTTTGAT GAAG	AACCTCCATGGACATA GTTGAAA	60.2	946	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 (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
Ca3_P3_31578728	Ca3	31578728	CATAT/CAT	TCCATGAAATTGAAATA AAACGC	GCCCGTTAGGATGTGG AGTA	60.2	715	DRR	Ca_12256	--	--
Ca3_P3_31578868	Ca3	31578868	TAAAAA/TAAAAAA	GCAGGACATGAAGATT TGGG	GCCCGTTAGGATGTGG AGTA	60.5	273	DRR	Ca_12256	--	--
Ca3_P3_31583199	Ca3	31583199	C/CG	AACTGGAGAAGGGGGA AAAA	TTTGCCTGGATTTTGG TTTC	59.9	430	DRR	Ca_12257	J	WRKY
Ca3_P3_31583283	Ca3	31583283	ATTGT/ATTGTTGT	AACTGGAGAAGGGGGA AAAA	TTTGCCTGGATTTTGG TTTC	59.9	430	DRR	Ca_12257	J	WRKY
Ca3_P3_31588307	Ca3	31588307	T/TC	CTTCAAATACCTCCCC CAT	CCGTGGCCTTCTCTAC TCTG	60.0	346	DRR	Ca_12258	BK	G2-like
Ca3_P3_31589916	Ca3	31589916	CCT/CCTCT	TGCTTGTTCAAAATTGT CGC	TTTACCCATCACTGC TTCA	59.9	399	INTRON	Ca_12258	BK	G2-like
Ca3_P3_31593525	Ca3	31593525	GCTCCA/G	GAAGCTCCTGGTTCAA CTGC	GGCACCGAATCCAAAA GTTA	60.0	770	CDS (FRAME SHIFT)	Ca_12258	BK	G2-like
Ca3_P3_31602650	Ca3	31602650	AC/A	GCACGAGCACAACTTC AAAA	AAAGAACCATCATCGC AGGT	60.0	618	INTERGENIC	--	--	--
Ca3_P3_31602911	Ca3	31602911	ATGTT/ATGTTGTT	ACCGAATATTCCATGCT CCA	CCAAGTGATGTGTCAT GGCT	60.3	565	INTERGENIC	--	--	--
Ca3_P3_31603278	Ca3	31603278	CA/C	ACCGAATATTCCATGCT CCA	CCAAGTGATGTGTCAT GGCT	60.3	565	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 (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
Ca3_P3_31604363	Ca3	31604363	AATATATA/AATATATATA	GATGAGCAAAGGGCAT GATT	CAAATCAGCAGATTCC AGCA	60.0	393	INTERGENIC	--	--	--
Ca3_P3_31604401	Ca3	31604401	TCTTACTTA/TCTTA	GATGAGCAAAGGGCAT GATT	CAAATCAGCAGATTCC AGCA	60.0	393	INTERGENIC	--	--	--
Ca3_P3_31605810	Ca3	31605810	CAAAAAATATCATTAAAAAATAT/CAA AAAAATAT	ACGGGAATAGGCCACT CTTT	GAGGATACCCATTTC GAGA	60.0	855	INTERGENIC	--	--	--
Ca3_P3_31606081	Ca3	31606081	T/TTTTTC	GCCACTGCATTAATTGA CGA	GAGGATACCCATTTC GAGA	59.7	254	INTERGENIC	--	--	--
Ca3_P3_31606915	Ca3	31606915	ATCTTCTTCTTCTC/ATCTTCTTCTCT TCTTC	GTGGCAGCTGCAAGAA TACA	ATGCCATTTGGCCCAA TAAT	60.0	894	CDS (large-effect mutations)	Ca_12260	--	--
Ca3_P3_31607443	Ca3	31607443	G/GT	TTTGACATTTGAGAAAT GGGG	CCAATTGCTGCTACTC CTCC	59.8	209	INTRON	Ca_12260	--	--
Ca3_P3_31610292	Ca3	31610292	TAAAAAAAAA/TAAAAAAAAA	GCATTCATTGGTGTGA GTGG	TTTGATGGTGTGTTT CACG	60.0	695	INTERGENIC	--	--	--
Ca3_P3_31631967	Ca3	31631967	AATAT/AAT	ATTTCAAGCAGTCAACCC CAG	TCGAATTCACAAATG CGTA	60.1	738	INTRON	Ca_12262	T	--
Ca3_P3_31632588	Ca3	31632588	ATTTT/ATTT	TGTTCAAAATGCGCTAC AGG	AGCCAATTGTATGGGA GACG	59.9	392	INTRON	Ca_12262	T	--
Ca3_P3_31633512	Ca3	31633512	GTT/GTTT	AAATGCCTGGTTTTTGT TGC	CCTCCAGTTTCTTGGC ATGT	60.0	288	INTRON	Ca_12262	T	--

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 (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
Ca3_P3_31637386	Ca3	31637386	GAAAAAAAA/GAAAAAAAAA	TGATACCAACCAGTTTC ACTTC	GCACAAGCAGAGCAAA ATGA	59.0	254	DRR	Ca_12264	--	NF-YB
Ca3_P3_31641658	Ca3	31641658	TAATTAAATTAAAT/TAATTAAATTA AAATTAAT	GCTCACCAGGAATTTT CCA	CAGCCATGTACAAGCT GCAT	60.1	903	DRR	Ca_12265	--	--
Ca3_P3_31820476	Ca3	31820476	GAAAAAAAAAAAA/GAAAAAAAAAAAA	CAGTCACCATCACCA CAGC	TCACGTGTCCAGCAT TTTG	60.2	360	INTERGENIC	--	--	--
Ca3_P3_31846181	Ca3	31846181	CCTCTCTCTCTCTCTCTCTCT/CC TCTCTCTCTCTCTCTCTCTCTCT	GCCACTACCAGCCATT GTTT	CGCATCCAACCTGTAC ACAC	60.0	365	DRR	Ca_12288	G	--
Ca3_P3_3185857	Ca3	3185857	TAAAAAAAA/TAAAAAAAA	CGCCTCTCTTTTCTAT GCG	TGTTGCTGTTGTTGCC TCTC	60.1	468	INTERGENIC	--	--	--
Ca3_P3_31895120	Ca3	31895120	CTAATATCTTAA/CTAATATCTTAATATC TTAA	GCCCATCAAACCTCTGT GGAT	ATCGGGTGTCATTGT CGAT	59.9	771	INTERGENIC	--	--	--
Ca3_P3_31918341	Ca3	31918341	TAATCTGTGAAAT/TAATCTGTGAAATC TGTGAAAT	TGGTCCAAAACCACT CACA	TGAATCACCATTGCG AGAA	60.0	761	INTERGENIC	--	--	--
Ca3_P3_31939882	Ca3	31939882	TAAAA/TAAAA	GCACGGAACAGCGAT TTTA	GCGGTTGTCCGTCCTA ATAA	61.1	896	INTERGENIC	--	--	--
Ca3_P3_3194968	Ca3	3194968	CA/CAA	CATCCAGGAAGGCAGA AAAC	GGAGGCAACCAAGTG AAAA	59.7	201	INTERGENIC	--	--	--
Ca3_P3_3198316	Ca3	3198316	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/TTTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT	GTTGGACAACATCCGA ACAA	GCAAATTTGGGAAGCT TGAA	59.4	575	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
Ca3_P3_3235341	Ca3	3235341	AGCTTCAGTCGCT/AGCT	TGGAGTGAGCTGTGGT TGAG	TGGTCACCACTTGGTG TTTG	60.0	840	INTERGENIC	--	--	--
Ca3_P3_32354219	Ca3	32354219	ATTTTTTTTT/ATTTTTTTTTT	TGGTTGTTAGCATGCA AGTG	TTCAACAACCCACATT GGAC	58.3	508	DRR	Ca_11959	O	MYB_related
Ca3_P3_3235471	Ca3	3235471	TAAA/TAA	ATAGGCCAAGCAACCA AAGA	GACGATGGTGAAGATG ACGA	59.7	663	INTERGENIC	--	--	--
Ca3_P3_32379633	Ca3	32379633	TTAATAATAATAATAA/TTAATAATAATA ATAATAA	TGCATTTTGCATTTTGT TGTT	TGCGGATTGTATTTTG GGTT	59.1	347	INTRON	Ca_11961	--	FAR1
Ca3_P3_32399895	Ca3	32399895	CATATATATATATATATATATATATAT ATATATAT/CATATATATATATATATATA TATATATATATATATATATATATATAT	TTTCTTCCGAAAATGG AGA	TGTGAATCCCGCTTTA ACAA	57.4	523	INTERGENIC	--	--	--
Ca3_P3_32458289	Ca3	32458289	CAAAAA/CAAA	CCTCCTCAGCAATTTT TGT	TCAACAGCGCTTTGTG GAAG	60.1	692	INTRON	Ca_11969	J	--
Ca3_P3_32486522	Ca3	32486522	AAATAATAATAATAATAATAATAAT AATAATAAT/AAATAATAATAATAATAAT AATAATAATAATAAT	AACCACTTTTAAATCGA TGCG	TGCAGTAGTTTGCTGC CATC	59.1	498	DRR	Ca_11974	--	--
Ca3_P3_32551513	Ca3	32551513	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	AATGCATTGGACCTAC CGAC	TTTGGCTGACCTTGAT CCTC	59.8	303	DRR	Ca_11981	R	ZF-HD
Ca3_P3_32563568	Ca3	32563568	TTATATATATATATATAT/TTATATAT ATATATATATATAT	CGAAAGAAAAAGAAAC ATCGC	GAAGGTGGCTCGGCAT ATAA	60.2	574	INTERGENIC	--	--	--
Ca3_P3_32574160	Ca3	32574160	TCC/TCCC	TCCTACCATCTAGCAAC GGC	TGCTTACCGGATTTT CAAC	60.2	555	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
Ca3_P3_32616318	Ca3	32616318	GTTTTTTTTTTTTT/GTTTTTTTTTTTT	TGTGGTTGTTGTGGGC TTAG	CGAATGTGAGGTTTGG GACT	59.6	512	INTERGENIC	--	--	--
Ca3_P3_32671018	Ca3	32671018	CATATATATATATATATATATATATA/ CATATATATATATATATATATATATAT ATATATA	TGGTTGGAGAGCAAAG AAGG	TTAGTGGATTGCTTCC CTGG	60.4	655	DRR	Ca_11996	--	--
Ca3_P3_32795871	Ca3	32795871	ATTTTT/ATTTTTT	TTGATGGGTCTGGATG TTTT	TTGAAATATCCAAAAC TGTTACAAA	57.8	297	INTERGENIC	--	--	--
Ca3_P3_32803256	Ca3	32803256	AATATATATATATATATATATATAT/A ATATATATATATATATATATATAT	GCTACGACGCTGCGAT TATT	ACCCAAGACCTTGTTG ATGC	60.4	458	INTRON	Ca_12014	L	--
Ca3_P3_32843639	Ca3	32843639	TGG/TG	CATTCCACACCTCACTC CGT	TGCATTCACGTGGATC TCTT	61.0	817	DRR	Ca_12020	--	--
Ca3_P3_32853814	Ca3	32853814	CTTAATATGA/CTTAATATGATTAATAT GA	GAAGGAATCATCATGT GGCA	TTGCTCAAAACCAAGC TTCA	59.5	891	INTRON	Ca_12021	O	--
Ca3_P3_32881199	Ca3	32881199	ATTTTTTT/ATTTTTTTTT	CAGTGGAAAAAGGAGA GGACA	TAAACACGGGGGAGAA GAGA	59.3	440	INTERGENIC	--	--	--
Ca3_P3_32886904	Ca3	32886904	CTTTTTTTTT/CTTTTTTTTTT	TCTCCGTTGGTTTGTT TCC	ATTGCTGATGAAGGTG GAGG	59.9	541	INTERGENIC	--	--	--
Ca3_P3_32896213	Ca3	32896213	ATTT/ATT	TGAGAGTTGTGAGCCA ATCG	GAAAGACTTGGTTCGC GTTC	60.0	277	DRR	Ca_12026	--	--
Ca3_P3_32961119	Ca3	32961119	ATTTTT/ATTTT	TGAGAGGGGTTCAATA GCCT	TCCTACGCTTTCGCTT TCAT	58.7	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 (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
Ca3_P3_32996406	Ca3	32996406	GATATATATATATAT/GATATATATATAT	ATGTTTGCAGGAGGAG CTGT	ACCAAAATGGAGAAAG ACCC	59.9	782	INTERGENIC	--	--	--
Ca3_P3_33046145	Ca3	33046145	TTTATTATTATTATTATTAT/TTTATTATT ATTATTATTATTAT	TATTCACCACCTACCC CAA	AAAAGTTGCACAATG ACAAA	60.0	738	INTERGENIC	--	--	--
Ca3_P3_33099785	Ca3	33099785	TAAAAAA/TAAAAAAA	GCTTTTCTACTCTCGGT TGC	ATATGAGTTACGGGAT GCGG	60.0	683	INTERGENIC	--	--	--
Ca3_P3_33145027	Ca3	33145027	AATATATATATATATATATAT/AATATAT ATATATATATATATATATATAT	CTTCCTAAAGTCGTGCT GCC	GCGGCAATTTTGTG ATAA	60.0	295	INTERGENIC	--	--	--
Ca3_P3_33204887	Ca3	33204887	TA/TAA	GCACATGCCAACTCG TAAA	AAATGCTGCGTTCCAT CTTT	59.7	295	INTERGENIC	--	--	--
Ca3_P3_33229820	Ca3	33229820	AATATATATATATATATA/AATATATATA TATATATATATATATATATATA	AGCGTTGGTTTAACATT GCC	AGGCAATGGGGAAAG AGAT	60.0	609	INTRON	Ca_12058	J	--
Ca3_P3_33346296	Ca3	33346296	GATATATATATATATATATATA/GATA TATATATATATATATATATATA	ATTTTGCACATGATAC GCA	GCTTCACACGGAAACA ACAA	60.0	531	DRR	Ca_23675	--	--
Ca3_P3_33387153	Ca3	33387153	AATATATATATATATATATATATATAT /AATATATATATATATATATATATATA TATATATATATATATAT	ATACCTACGGATTGTG CCG	TTTGTGTTGAAGATG GCAA	59.8	553	INTERGENIC	--	--	--
Ca3_P3_33419630	Ca3	33419630	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATT/TTTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATT	TGTGCTCCCTTTGTCT TCT	TTTTACGGGTTGATG AGGC	59.8	691	INTERGENIC	--	--	--
Ca3_P3_33545135	Ca3	33545135	C/CTATCAGTAAACATT	ACGTCATCAGTCGAAG TCCC	AGTTTGCGTAGGTTGT TGGG	60.1	329	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 (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
Ca3_P3_33579150	Ca3	33579150	AAAGNNNNNNNNAAG/AAAG	TGTGGGAGCTGAAAGT GTTG	TTCTTGCCATGTCAC CATA	59.9	175	INTERGENIC	--	--	--
Ca3_P3_33581359	Ca3	33581359	TAAAAAAAAA/TAAAAAAAAA	TGGGTCAAGATTAGAG CCGT	CAATTTGACAAGCCCC CTAA	59.7	610	INTERGENIC	--	--	--
Ca3_P3_33630409	Ca3	33630409	CTTTTT/CTTTTTTTTT	ATAGTGACATCCAGGC CCAG	TCATCGCAGGTGTACC ATGT	60.0	651	INTERGENIC	--	--	--
Ca3_P3_33693334	Ca3	33693334	AATATATATATATATATATAT/AATAT ATATATATATAT	CTCACCATAAACCACCC ACG	CGTCCCGTCCAATCT TCTA	61.2	464	INTERGENIC	--	--	--
Ca3_P3_33828272	Ca3	33828272	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATT/TTTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATT	AGAGGCAAAACAAGAAC CGAA	TGCATATAAGGAATTG ACGCC	59.9	318	INTERGENIC	--	--	--
Ca3_P3_33862493	Ca3	33862493	ATATTATTATTATTATTATTATTATT /ATATTATTATTATTATTATTATT	GGGGATATAGTTCCGC CAAT	GCCAGTAGTTTTGGG GATT	60.0	606	DRR	Ca_20881	R	--
Ca3_P3_33877257	Ca3	33877257	AATATATATATATAT/AATATATATAT ATATATAT	CTCACTCCGCTCATGT CAA	ATATGGCAAGGATGGG AAAA	60.0	287	INTERGENIC	--	--	--
Ca3_P3_33945517	Ca3	33945517	ATAATGTTA/ATA	CGGTTGAACTGACAC GAAA	CCAAGTTGCAAAACCC TGAT	59.7	783	INTERGENIC	--	--	--
Ca3_P3_3394940	Ca3	3394940	GAAAA/GAAAA	TTTCAATTGCATTAAGT GGGA	CCCGGGAGTAGGAATT TGAT	58.1	498	INTERGENIC	--	--	--
Ca3_P3_3395133	Ca3	3395133	AAACAAC/AAAC	TTTCAATTGCATTAAGT GGGA	ATGGACTGTTGGCAA CCTC	58.1	836	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
Ca3_P3_33954378	Ca3	33954378	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	GGCTTCAAAGCCAACA TCAT	TTTGTGCTGCCAACAT TTTC	60.1	440	INTERGENIC	--	--	--
Ca3_P3_33954528	Ca3	33954528	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT T/ATATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATT	GGCTTCAAAGCCAACA TCAT	TCATACAAAACCAAAC GGG	60.1	622	INTERGENIC	--	--	--
Ca3_P3_33983043	Ca3	33983043	TA/TAGACACTGA	GGTGTTTTACGAATGG GGTG	GGGACTCATTTATGCC GATG	60.1	353	INTERGENIC	--	--	--
Ca3_P3_33989572	Ca3	33989572	AC/A	TGCAAACCTATGGCTA CACG	TCCCTAGGGTCAGCTT GAAA	59.8	190	INTERGENIC	--	--	--
Ca3_P3_34128563	Ca3	34128563	TTATATATATATATA/TTATATATATATA	TCAAGTTTGGGAGGAA CACC	CGGGTCAGGACTACAT TTGC	59.9	590	INTERGENIC	--	--	--
Ca3_P3_34264150	Ca3	34264150	TAAAAAAAA/TAAAAAAAA	AATGGAAAGAGCATTG GGTG	GCAACAAACAAAAAC ACATTGA	59.9	709	INTERGENIC	--	--	--
Ca3_P3_34297920	Ca3	34297920	GAATAAATAAATAAATAAATAAAT AAA/GAATAAATAAATAAATAAATA AATAAATAAATAA	CCTCATGGGGAGCAAA ATAA	TTCAGTTCAGTGC TTTC	59.9	607	INTERGENIC	--	--	--
Ca3_P3_34307680	Ca3	34307680	ATTTTTTTTT/ATTTTTTTTTT	TGAATTTGCAATTGGTC GAA	TGCTTTGGTCTTTGC AATTATTA	60.1	607	INTERGENIC	--	--	--
Ca3_P3_34448761	Ca3	34448761	GATATATATATATATATATATATA/GA TATATATATATATATATATATATA	TTTCCACACATGATCCA AAAA	GTGGAGAAAGAGTGG CCTTG	58.9	543	INTERGENIC	--	--	--
Ca3_P3_34474422	Ca3	34474422	TAAAAAAAA/TAAAAAAAA	AAAAATCAATTTATGCC GTTGT	TTATGCCGGATTGACA CTCTT	57.7	478	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_34557168	Ca3	34557168	TGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG/TGAGAGAGAGAGAGAGAGA GAGAGAGAGAG	TGTTCAATTATTTTGGG ATGGA	TCCTCCAATTTTCTTTC CCC	59.2	582	DRR	Ca_00726	S	--
Ca3_P3_34578013	Ca3	34578013	AGAGG/AGAGGAGG	CCAAACCGCAAGATTG ATTT	TTTTCCCAATATTCTGCC TCG	59.9	480	INTERGENIC	--	--	--
Ca3_P3_34646219	Ca3	34646219	ATTTTTTTTTTT/ATTTTTTTTTTT	TTTTGTTCGCGTG CAT AGA	TGGGCCAAGACTCCTT TTTA	60.3	602	INTERGENIC	--	--	--
Ca3_P3_34790945	Ca3	34790945	TTATATATATATATATATATATATATA TATATATATATAT/TTATATATATATATA TATATATATATATATATATATATAT	TTATCATGCCCTGTGTG TTTT	GGTAAGAACAGTGAAG CAACCA	58.0	589	INTERGENIC	--	--	--
Ca3_P3_34813314	Ca3	34813314	GTTTTTTTTTTTT/GTTTTTTTTTTTTTT	AAAAATGCAAAAACC ATGAA	AAGTCGCATTTTGAAA CTCG	59.4	340	INTERGENIC	--	--	--
Ca3_P3_34879718	Ca3	34879718	ATTTTTTT/ATTTTTTT	GGTAAAGGTGTAACC GAAGAAA	GCAATTAGATGGGTCA CGCT	58.7	447	INTERGENIC	--	--	--
Ca3_P3_34966563	Ca3	34966563	GATATATATATATATATATATATAT/GAT ATATATATATATATATATATATAT	TTTTCCC GTCAAACCAA GTC	AAAATTTGAGCGTTT CTCG	59.9	437	INTERGENIC	--	--	--
Ca3_P3_35016413	Ca3	35016413	ATTTTTTTTT/ATTTTTTTTTT	AGGCTTAAGAGAGGGG TCCA	CCCTAAATTTGTGG GCTT	60.2	342	INTERGENIC	--	--	--
Ca3_P3_35017508	Ca3	35017508	GATATATATATATATATATATATAT/G ATATATATATATATATATATATAT	TCAATGCCATGTTAAGG CAA	GGTAA AACATATGCG CCTG	60.1	460	INTERGENIC	--	--	--
Ca3_P3_35033877	Ca3	35033877	GTTTTTTTTTTTT/GTTTTTTTTTTTTTT	TGCTTCGGCTGTATTTT TCA	CACACACACACACG AAGG	59.4	410	DRR	Ca_00777	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 (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
Ca3_P3_35130213	Ca3	35130213	ATTTTTTTTT/ATTTTTTTTTT	CCGGAACCTTCATTCC AAA	TCTGGAACCAACCGAA AAAC	59.9	382	INTERGENIC	--	--	--
Ca3_P3_35213222	Ca3	35213222	TC/T	AACTTCATTCACGTGCA AAAT	TGATATTGCAAGAAAC CCCA	57.3	302	INTERGENIC	--	--	--
Ca3_P3_3523859	Ca3	3523859	CTATATATATATATATATA/CTATATATA TATATATATATA	GTTTGCAGGAAGAGGC AAAG	GCCAGCAGCCTTCAAG ATAG	60.0	712	DRR	Ca_21350	J	--
Ca3_P3_3524015	Ca3	3524015	AATATATATATATAT/AATATATATATAT ATATATAT	GTTTGCAGGAAGAGGC AAAG	GCCAGCAGCCTTCAAG ATAG	60.0	712	DRR	Ca_21350	J	--
Ca3_P3_35251407	Ca3	35251407	CTTTT/CTTTT	TTCGTCCCTCACCATAC ACA	CGGGTTGTTGTCCAT TTTC	60.0	588	INTERGENIC	--	--	--
Ca3_P3_35258173	Ca3	35258173	TAAAAAAAAA/TAAAAAAAAA	TCTGCCATGTTCAAGTT GGA	TCAAATCCGAACCCAT GAAT	60.2	606	INTERGENIC	--	--	--
Ca3_P3_35264037	Ca3	35264037	GAAAAAAAA/GAAAAAAAA	GAATCCAAGTTGGTT GGTG	ATGCTTAGCATGCTG GATT	60.2	566	INTERGENIC	--	--	--
Ca3_P3_35267953	Ca3	35267953	CATATATATATATATATATATATATATAT ATAT/CATATATATATATATATATATATA TATATATATAT	ACCGATATTTGAGCACT GCC	CCTATTCACGAGAAA ATCTGC	60.1	284	DRR	Ca_00804	--	--
Ca3_P3_35271726	Ca3	35271726	TCC/TC	TTATCCCCACAACACAA GCA	TGCTGGAACAAACCC ATCA	60.0	681	INTERGENIC	--	--	--
Ca3_P3_35272345	Ca3	35272345	ATATTAATTATTAATTATTAA/ATATTAA TTATTAA	CTTTCCTTCTCCTGT GCG	GTACGTGACTGGTGCC CTTT	60.0	502	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 (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
Ca3_P3_35433457	Ca3	35433457	AAT/AATAATTATTATTATTAT	TTATCGTTTTTCTCCCA CCG	CCCACCTGAATGATC TGCT	59.9	277	DRR	Ca_00826	--	B3
Ca3_P3_3554927	Ca3	3554927	TTATATATATA/TTATATATATATA	TTGGAGAAACTTTTCCG CTG	GCACCCTAAACCCTAA ACCC	60.4	440	INTERGENIC	--	--	--
Ca3_P3_35679181	Ca3	35679181	ATTTTTTTT/ATTTTTTTT	TTCATTCTTTGGCTTGG GAC	CGTCATGGTCGTGGCT TTAT	60.1	959	DRR	Ca_00856	R	SBP
Ca3_P3_35687478	Ca3	35687478	TATAATAATAATAATAATAATAATA ATAATAATAATAA/TATAATAATAAAT AATAATAATAATAATAATAA	GGAAAAATGAAAATGGC CAAC	TGTTGACTTGTCCTGA AAACTT	59.3	604	INTERGENIC	--	--	--
Ca3_P3_35706538	Ca3	35706538	TAAAAAAAAA/TAAAAAAAAA	CGTTCACTCGCCACT ATTT	TTTGGGAAGTGAGAGA GAAAGC	60.1	666	INTERGENIC	--	--	--
Ca3_P3_35712646	Ca3	35712646	ATTTTTTTTTT/ATTTTTTTTTT	GGATTCCAACCGGATT CTTT	AATCACTGGATATGGC CGAG	60.1	794	INTERGENIC	--	--	--
Ca3_P3_35772940	Ca3	35772940	TAAAAAA/TAAAAAA	ATGTGGCTCGAGGTCA AAAT	CTATCATCCGAAGAGC TGCC	59.6	782	INTERGENIC	--	--	--
Ca3_P3_35798935	Ca3	35798935	CATAGAATAGAATAGAATAGAAT/CATA GAATAGAATAGAAT	AGCTCAGTGCAACGAT TGTTG	AGTGCATCATTTGTCC ACCA	60.1	355	INTERGENIC	--	--	--
Ca3_P3_35805111	Ca3	35805111	CATATATATAT/CATATAT	TTTAGCATCGTGGTTTC CTTT	TGCTAAATAAACTCC GCCAA	58.8	521	INTERGENIC	--	--	--
Ca3_P3_35817728	Ca3	35817728	ATTTTTTTTTT/ATTTTTTTTTT	AAAATGATGGCGTGAG ATGA	TCTTGGGTCAAAAGAC ACCC	59.1	565	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
Ca3_P3_35834316	Ca3	35834316	GATATATATATATATATAT/GATATATAT ATATATATATAT	GCTCCCCCTTCATGTG ACTA	CCTTTTCGCCATCTTT GTGT	60.1	595	INTERGENIC	--	--	--
Ca3_P3_35848866	Ca3	35848866	ATTTTTTTTTT/ATTTTTTTTTT	TTGTTTTCCAACACTCT CCC	AATGAACACTTCACCG AGGG	59.9	573	DRR	Ca_00873	S	--
Ca3_P3_35863496	Ca3	35863496	A/AG	CGTGAAGATATTGTG CTTTGG	CCTTTCTACGACCAAT TCCG	59.6	383	INTERGENIC	--	--	--
Ca3_P3_35878677	Ca3	35878677	TAAAAAAAAA/TAAAAAAAAA	TCCCTTCCCTTTGTGT GTC	TTTTATGTTTCGCGGG GATA	59.9	753	INTERGENIC	--	--	--
Ca3_P3_35886280	Ca3	35886280	GAAAAAAAAA/GAAAAAAAAA	CATGATGTGGTCGAA AGGA	TGCAAGCAATGATGAA AACTC	59.5	209	INTERGENIC	--	--	--
Ca3_P3_35913625	Ca3	35913625	TTATATATATATATATA/TTATATATATA TATA	TCGTTACCCCTCTCGT CAAC	TGCTCTCGTGTGTAAG GGTG	60.1	686	DRR	Ca_00883	R	ERF
Ca3_P3_35947619	Ca3	35947619	CAA/CA	GATGGGGTGCATTTCT GAAT	TTGAAATTTGACCGC ATCA	59.8	830	DRR	Ca_00889	J	--
Ca3_P3_35950711	Ca3	35950711	ATTTA/ATTTAAATTACATGCAATTTTA	CATGCGATGGAAGTGA ATTG	GTAAGTTGGCACAGG GGAA	60.1	479	INTERGENIC	--	--	--
Ca3_P3_35951796	Ca3	35951796	ACACATGCA/ACA	AACGTTTGAATGCACAT GGA	ATAAGCGGTTCTTTCA CGGA	60.0	593	INTERGENIC	--	--	--
Ca3_P3_35953275	Ca3	35953275	ATTTTTTTT/ATTTTTTTTTT	TTCATTAAGGGCAGAC CCAC	TGGAGCCAGAGTTAAA TGGG	59.9	781	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 (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
Ca3_P3_35953332	Ca3	35953332	ATTTTTT/ATTTTTTT	TTCATTAAGGGCAGAC CCAC	TGGAGCCAGAGTTAAA TGGG	59.9	781	INTERGENIC	--	--	--
Ca3_P3_35953562	Ca3	35953562	TA/T	TGATGGCAGCTACCAA TTTT	AAGAAGGGTGGAGCC AGAGT	58.2	209	INTERGENIC	--	--	--
Ca3_P3_35953819	Ca3	35953819	TA/T	ACTCTGGCTCCACCCT TCTT	ATTGCGGGTATAGAGA CGGA	60.3	293	INTERGENIC	--	--	--
Ca3_P3_35959327	Ca3	35959327	GAAAAAA/GAAAAAAA	TGTTGACCAATAAGCAA AATTGA	TGACACACAACATACA AGCCA	59.5	360	DRR	Ca_00891	V	GRAS
Ca3_P3_35959933	Ca3	35959933	GTTTTTTT/GTTTTTTTT	TCTGAACAAATGATCG GGTG	ACATGCAATTTCCATC CACA	59.5	164	DRR	Ca_00891	V	GRAS
Ca3_P3_35959985	Ca3	35959985	CAAAAAAAAAAAAAAAAA/CAAAAAAAAA AAA	TCTGAACAAATGATCG GGTG	ACATGCAATTTCCATC CACA	59.5	164	DRR	Ca_00891	V	GRAS
Ca3_P3_35960562	Ca3	35960562	AGTTTGATT/AGTTTGATTGTTGATT	TCCGACTTGGTAAACA GCA	TTTGGACGAAATAAATT TGAAAAA	59.3	398	DRR	Ca_00891	V	GRAS
Ca3_P3_35960756	Ca3	35960756	TT/TTATATAT	GGATGCTACATTTCTTG GTGG	GGTGATTCTTCTGGTG GGAA	59.4	776	DRR	Ca_00891	V	GRAS
Ca3_P3_35963251	Ca3	35963251	AG/A	ATAGCCCGACTTTGAC CACA	GGAAATTCGGTGCTTG AGAC	60.5	148	INTERGENIC	--	--	--
Ca3_P3_35963324	Ca3	35963324	ATTT/ATTTTT	AGCTGTCTCAAGCACC GAAT	ACAATCCATAATTTTC CCTCA	60.0	104	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
Ca3_P3_35980134	Ca3	35980134	T/TGTGA	TAGTGGCTGGGTAACG GAAC	CAGCAAAAGCGAAATC AAGA	60.0	515	INTERGENIC	--	--	--
Ca3_P3_35986617	Ca3	35986617	CCA/CCACA	GGTGGATTCTTTGCTT CCAA	AGGTGCAAGTGCAAGT TCCT	60.1	479	INTRON	Ca_00893	--	--
Ca3_P3_35992940	Ca3	35992940	TAAAAAA/TAAAAA	AGAAGCACAAAGTCCCC TGAA	GCTCATGTGTAAAGCC GTGA	59.8	710	DRR	Ca_00894	--	--
Ca3_P3_35993475	Ca3	35993475	CATATA/CATA	TCACGGCTTTACACATG AGC	TTGATTCGAACCCAAA ATCT	59.9	515	DRR	Ca_00894	--	--
Ca3_P3_35994174	Ca3	35994174	CAAAA/CAAA	TTGGGTTCGAATCAATA TCTTACA	GAATTCGGAACAAAAC GTTCA	59.7	625	INTERGENIC	--	--	--
Ca3_P3_35994489	Ca3	35994489	CT/CTAAATGTT	TGAATGATGTTTCATTC CATCA	GAATTCGGAACAAAAC GTTCA	58.8	311	INTERGENIC	--	--	--
Ca3_P3_35994561	Ca3	35994561	TAAAAAAA/TAAAAAA	AACGTTTTGTCCGAAT TCAA	GGGAAGTTGGAAGGT GAAAA	59.5	517	INTERGENIC	--	--	--
Ca3_P3_35994788	Ca3	35994788	TCAC/T	AAATTTGGTGCTCCATG GTC	GTGCTCCATTTTCTTCA CGG	59.8	464	INTERGENIC	--	--	--
Ca3_P3_36000193	Ca3	36000193	AATATATATA/AATATATATATA	TCCAAATCATCCGCACA TAA	TCGGTAAATAAGTTTTT GGACACA	59.9	662	INTERGENIC	--	--	--
Ca3_P3_36013137	Ca3	36013137	CTTTTTTT/CTTTTTT	TTATACCATGGATAGCC GCC	ACCTTAGGGTTGCTTG GGTT	59.8	617	DRR	Ca_00899	O	CAMTA

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
Ca3_P3_36016763	Ca3	36016763	TAA/TA	CGCGGAACAAGAATCA AAAT	ATCTCGCAAGGTGAG AGAA	60.1	384	DRR	Ca_00900	O	CAMTA
Ca3_P3_36016803	Ca3	36016803	GTTTTTTTTTTTT/GTTTTTTTTTT	CGCGGAACAAGAATCA AAAT	ATCTCGCAAGGTGAG AGAA	60.1	384	DRR	Ca_00900	O	CAMTA
Ca3_P3_36017650	Ca3	36017650	G/GAT	GGAAAACACATATTACG GAGGAA	GAAGGAGAATGTGGCA GCTC	59.3	771	DRR	Ca_00900	O	CAMTA
Ca3_P3_36017693	Ca3	36017693	TAAAAA/TAAAAAA	GGAAAACACATATTACG GAGGAA	GAAGGAGAATGTGGCA GCTC	59.3	771	DRR	Ca_00900	O	CAMTA
Ca3_P3_36019725	Ca3	36019725	GAAA/GAA	ACCTTTGGATTTCATGGT TGG	CCGATAGCCATTGGA CACT	59.6	614	INTERGENIC	--	--	--
Ca3_P3_36020115	Ca3	36020115	ATTTTT/ATTTT	AGTGTCCAAATGGCTAT CGG	TCACTAACGCAACCTT CACCT	60.0	487	INTERGENIC	--	--	--
Ca3_P3_36020456	Ca3	36020456	CAAA/CAAAA	ACCACAACCGTCCAAT GTTT	TTCAAGATGCTTGAC GAAGAA	60.1	736	INTERGENIC	--	--	--
Ca3_P3_36022347	Ca3	36022347	AC/ACC	AACATTTACAAACATAA ACGACGAA	TGGAGATGGAAATGGA GAGG	59.0	524	DRR	Ca_00901	O	CAMTA
Ca3_P3_36022379	Ca3	36022379	TCC/TC	AACATTTACAAACATAA ACGACGAA	TGGAGATGGAAATGGA GAGG	59.0	524	DRR	Ca_00901	O	CAMTA
Ca3_P3_36024202	Ca3	36024202	TAGGACACTGA/TA	ATACCATGGATAGCCG CAGA	TTACATTTCGAATCCA TGC	60.5	523	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
Ca3_P3_36025628	Ca3	36025628	A/AT	ACGCCAGTCACACAGA CAGA	GAAAGACGTTTAGTT CCGTTG	60.5	506	INTERGENIC	--	--	--
Ca3_P3_36025951	Ca3	36025951	GTCATT/GT	CAACGGAACTAAACCG TCTTTC	CATTAGGGGCGTAGC AAAT	60.0	391	INTERGENIC	--	--	--
Ca3_P3_36032000	Ca3	36032000	TAATTTGAAATTTGAAATT/TAATTTGAA ATT	TGGTAAGGACAAAAAG AGTTCCA	AACGCTGAACCAAAT GACC	60.0	801	INTERGENIC	--	--	--
Ca3_P3_36032624	Ca3	36032624	CAAA/CAAAA	GGTCATTTTGGTTCAG CGTT	CCATGCATGAATCCTT GAAA	60.0	614	DRR	Ca_00902	S	bZIP
Ca3_P3_36033414	Ca3	36033414	ATTTTTTTTT/ATTTTTTTTT	CTTCTACCCCTCAAA ACA	CACCAATGTCATTAC AGCCA	60.1	530	DRR	Ca_00902	S	bZIP
Ca3_P3_36035545	Ca3	36035545	GTTTTTTTT/GTTTTTTTT	GTTCCCAACTTCCATT TCC	TTACCTGTTTGGCATG GACA	60.5	559	INTRON	Ca_00902	S	bZIP
Ca3_P3_3603826	Ca3	3603826	C/CT	AAGCAGCTAGACCACC TCCA	ATCCTTGGAATTATTG GCCC	60.0	679	DRR	Ca_21347	J	--
Ca3_P3_36039531	Ca3	36039531	ACAATAGCA/ACAATAGCAATAGCA	CCTCTCTAGCTCAGAG CCCA	TACGCCGATAGTGCAA CAAA	59.8	423	INTRON	Ca_00902	S	bZIP
Ca3_P3_36040095	Ca3	36040095	TAAAAAAAA/TAAAAAAAA	TGTTGCACTATCGGCG TAAA	TTTAAACAGGCAGGG TTGC	60.3	782	INTRON	Ca_00902	S	bZIP
Ca3_P3_36041204	Ca3	36041204	ATT/AT	TTCACACTCTCCAGTTC GGA	AAGTCGACGTTTGTGA AGAGTTC	59.4	699	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
Ca3_P3_36041740	Ca3	36041740	T/TAAAGAAC	AAAGAACTCTTCACAA CGTCG	TTGAGGGTCCAAACT GGAG	58.6	627	INTERGENIC	--	--	--
Ca3_P3_36042558	Ca3	36042558	ATTTTTT/ATTTTTTT	CTCCAGTTTTGGACCC TCAA	TTTCCAAAATAAACTCG ACGC	60.1	430	INTERGENIC	--	--	--
Ca3_P3_36043107	Ca3	36043107	TAA/TAAA	ACGCGTCGAGTTTATT TGG	GTCCGTTGTGATGGCT TTTT	60.1	746	INTERGENIC	--	--	--
Ca3_P3_36045627	Ca3	36045627	C/CA	TGTGATTGAAAAGATGT GTCAAA	GGGGTACGGAGTGGA GGTAT	59.5	622	INTERGENIC	--	--	--
Ca3_P3_36048215	Ca3	36048215	CTTTTTTTTT/CTTTTTTTTT	AACCGCCCATCTATCC CTAC	GGACGTTGAAAAGCAG AAGC	60.2	468	INTRON	Ca_00903	A	--
Ca3_P3_36052612	Ca3	36052612	GTCACTTTCACTTT/GTCACTTT	CATCAATGCACGACCC ATAC	TAAGTGAGCGCATCCA TTTG	59.8	639	INTERGENIC	--	--	--
Ca3_P3_36068600	Ca3	36068600	TC/TCC	TAGGGGGCTCTTTAGC CATT	TCCAGCTTTTGCAGGT CTTT	60.1	414	INTRON	Ca_00904	A	--
Ca3_P3_36076512	Ca3	36076512	AGAATT/A	GCATTTGTTTCAACAAG GTAAGG	TTTGAGGACAAAAAC TGGG	59.9	395	INTERGENIC	--	--	--
Ca3_P3_36086627	Ca3	36086627	AC/ACC	ATTCCAACGAAAACAT CCA	CTCCCAAACAAAGCCT ACGA	60.2	605	INTRON	Ca_00907	I	--
Ca3_P3_36087073	Ca3	36087073	AGGGGG/AGGGGGG	GGTCCATGGAAGCTTT TCAA	GTTGTTGATGGCGTTT TGTA	60.1	757	INTRON	Ca_00907	I	--

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
Ca3_P3_36088323	Ca3	36088323	TTATATAT/TTATAT	AACCGAACCTTGCCAT AGTG	AGACAGATTACCCACG GCTG	60.0	355	INTERGENIC	--	--	--
Ca3_P3_36088514	Ca3	36088514	CAAAA/CAAA	AACCGAACCTTGCCAT AGTG	TCAGCAGCTTTTATAG TAGGTG	60.0	968	INTERGENIC	--	--	--
Ca3_P3_36088538	Ca3	36088538	AATATATATATATA/AATATATATATA	GTGCTGAACCTCCAT TGTT	TCAGCAGCTTTTATAG TAGGTG	60.0	951	INTERGENIC	--	--	--
Ca3_P3_36089824	Ca3	36089824	AAT/AATTCCATCTAT	GGGATCAACAAGTAA AGCTCC	AAACTGGTTTGAGTGA CGGC	59.1	709	INTERGENIC	--	--	--
Ca3_P3_36089940	Ca3	36089940	GTAAA/G	AATACGAATCATTTGGAG CTTTTT	AAACTGGTTTGAGTGA CGGC	58.3	167	INTERGENIC	--	--	--
Ca3_P3_36090593	Ca3	36090593	G/GT	CCCCGTAACGGAGGAT ACTT	TTGATGTAATGATTATG TGATTTGTCA	60.2	441	INTERGENIC	--	--	--
Ca3_P3_36092177	Ca3	36092177	CAAAAAAAAA/CAAAAAAAAAA	ACATTCGTGACACGGT GAAA	GGTCTAGCCTATTCCA CCCC	60.0	756	INTERGENIC	--	--	--
Ca3_P3_36097089	Ca3	36097089	TATAA/T	GCCATTTCTTAGAAGCC CCT	TTTGCCTGGATATTC CCTG	59.7	485	INTERGENIC	--	--	--
Ca3_P3_36099581	Ca3	36099581	TAAA/TAAAAA	CATTTCGGAGGTAGGT GGAA	TGCCTTACTGATTTC CTCC	59.9	421	DRR	Ca_00908	K	--
Ca3_P3_36102327	Ca3	36102327	GTT/GT	CCTGCAGGCAAGCAAA TAAT	GGTATTGTGGTGGGAT GGTC	60.2	486	INTRON	Ca_00908	K	--

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 (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
Ca3_P3_36105355	Ca3	36105355	CTTTTT/CTTTTT	GAGTGTGGGAAGGATC GAAA	CCTGGAGAAGGCTGTC AAAG	60.1	372	INTERGENIC	--	--	--
Ca3_P3_36105726	Ca3	36105726	TC/T	CTTTGACAGCCTTCTCC AGG	AGGCTCATAAAACGCC TCAA	60.0	440	INTERGENIC	--	--	--
Ca3_P3_36111673	Ca3	36111673	CTT/CTTT	CTAGGGTTTTCTTTCG CCC	GATGCATTGCAATTG TTCA	60.1	462	INTERGENIC	--	--	--
Ca3_P3_36113136	Ca3	36113136	GAAAAAAAA/GAAAAAAAA	TCAAGCTCTTGAAGCAT TGG	GCCATATCCATTTCGT TTGC	59.1	608	DRR	Ca_00910	--	--
Ca3_P3_36113210	Ca3	36113210	CTTTTTTTTT/CTTTTTTTTTT	TCAAGCTCTTGAAGCAT TGG	GCCATATCCATTTCGT TTGC	59.1	608	DRR	Ca_00910	--	--
Ca3_P3_36116816	Ca3	36116816	CT/CTCATTAT	CGAAAAACCGCCATAA ACAT	TGGCTCAATCATTTCAT CTGC	59.8	337	DRR	Ca_00911	D	--
Ca3_P3_36116832	Ca3	36116832	TT/TTATTACT	CGAAAAACCGCCATAA ACAT	TGGCTCAATCATTTCAT CTGC	59.8	337	DRR	Ca_00911	D	--
Ca3_P3_36119727	Ca3	36119727	G/GA	GCATATTCATCACCCC ATC	TCCTTCTTGCAGGTGC TTTT	60.0	376	INTRON	Ca_00911	D	--
Ca3_P3_36119763	Ca3	36119763	ACTT/ACTTCTT	GCATATTCATCACCCC ATC	TCCTTCTTGCAGGTGC TTTT	60.0	376	CDS (large-effect mutations)	Ca_00911	D	--
Ca3_P3_36123210	Ca3	36123210	G/GA	TTGTTGTAGGGGAGAC TGGG	TACTAGCCGATTTTGT GGGG	60.0	549	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
Ca3_P3_36123248	Ca3	36123248	ACAG/ACAGGAGTAGCAG	TTGTTGTAGGGGAGAC TGGG	TACTAGCCGATTTGT GGGG	60.0	549	INTERGENIC	--	--	--
Ca3_P3_36128528	Ca3	36128528	GATATAT/GATAT	ACTAACGGAACGACGA ATGG	AAAGTCGAGGTGCTTT TTGC	60.0	657	INTERGENIC	--	--	--
Ca3_P3_36129194	Ca3	36129194	GTAAATTA/GTTAAATTAAATTA	GCAAAAAGCACCTCGA CTTT	CACACCAATCAAACGA GCAA	59.5	696	DRR	Ca_00912	YU	--
Ca3_P3_36129411	Ca3	36129411	ATT/ATTT	CGTCACGTTAGTGTA GGCG	CACACCAATCAAACGA GCAA	60.7	443	DRR	Ca_00912	YU	--
Ca3_P3_36138844	Ca3	36138844	AG/A	TGGCTTGAGTGATG ATGAA	GGGTGTTGGCAATATT GGAT	60.3	806	INTERGENIC	--	--	--
Ca3_P3_36139586	Ca3	36139586	CT/CTGT	ATGCAAATTACCCAAGA CGC	TTATACCGGCTTCGTT GACC	60.0	580	INTERGENIC	--	--	--
Ca3_P3_36140094	Ca3	36140094	CAA/CAAA	GGTCAACGAAGCCGTT ATAA	CGAAAAATAACACCAA TGCAAA	60.0	551	INTERGENIC	--	--	--
Ca3_P3_36153591	Ca3	36153591	ATTTTTT/ATTTTTTT	TCAAAGTTCATTTTCATG TTCCG	ATTGACAAAAGCCCG AAAA	60.0	526	DRR	Ca_00916	A	GeBP
Ca3_P3_36155823	Ca3	36155823	TAAAAAAA/TAAAAAAA	GTGCTTTCTGAGCTCTT CGG	CCCGTATTTTCCGTT CTTA	60.3	659	INTRON	Ca_00916	A	GeBP
Ca3_P3_36156758	Ca3	36156758	TAAAAAAA/TAAAAAAA	TGAATCAATCATCGCCA AAA	CATGACTTAATGGCGT GGTG	60.0	435	INTRON	Ca_00916	A	GeBP

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 (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
Ca3_P3_36157270	Ca3	36157270	ACCC/ACC	AAAAATGTCACCACGC CATT	GTCTTTCCCATCCCT TTGT	60.2	209	INTRON	Ca_00916	A	GeBP
Ca3_P3_36163828	Ca3	36163828	GTTTTTTTTT/GTTTTTTTTT	AATCGTTGAAAGACGT CGAA	TCAAACGGACCTCTCC ATAAA	59.7	573	INTERGENIC	--	--	--
Ca3_P3_36180666	Ca3	36180666	CATA/CATATATA	ACTCGGCTTGGAATA CCAT	AGATCGACGCATAAGT GGCT	60.7	736	INTRON	Ca_00921	Q	B3
Ca3_P3_36187931	Ca3	36187931	TAA/TAAGTGTAAAA	ACAATTGAAAAACAAGG GGG	GGGCCTAGTCCTATGC TTCA	58.8	514	INTERGENIC	--	--	--
Ca3_P3_36188427	Ca3	36188427	TAA/TAAA	GCATAGGACTAGGCC AAAA	GGGAAGCGTCACACTA AAGC	59.2	521	DRR	Ca_00922	Q	B3
Ca3_P3_36192498	Ca3	36192498	AA/AAGA	TGACATCTCTCCAACC ACA	TGGACCAATTTTCGTA TTCACCTC	60.1	332	INTRON	Ca_00922	Q	B3
Ca3_P3_36197056	Ca3	36197056	TTGTGT/TTGT	GTGGCGCAAAAAGAAA AGAG	TGCAGTAACCTCAACG GGTCT	60.0	756	INTRON	Ca_00923	--	bHLH
Ca3_P3_36197389	Ca3	36197389	CTTTT/CTTTT	TCAACGTTCCATCTTCT CTCA	TTTGATTAGCCGTT GGAC	58.4	635	INTRON	Ca_00923	--	bHLH
Ca3_P3_36197502	Ca3	36197502	AACACACA/AACACA	TCAACGTTCCATCTTCT CTCA	TTTGATTAGCCGTT GGAC	58.4	635	INTRON	Ca_00923	--	bHLH
Ca3_P3_36203687	Ca3	36203687	GGTG/GGTGTG	CACCGTGAAGATTGTG GATG	TGTGAGGGATTGTGC ATGT	60.0	292	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
Ca3_P3_36204191	Ca3	36204191	TG/T	ACATGCACAAATCCCTC ACA	GGTAGCAAAGCAATT CGGA	60.0	435	DRR	Ca_00925	--	--
Ca3_P3_36204205	Ca3	36204205	ATTT/ATTTT	ACATGCACAAATCCCTC ACA	GGTAGCAAAGCAATT CGGA	60.0	435	DRR	Ca_00925	--	--
Ca3_P3_36204911	Ca3	36204911	ATATTAAATTT/ATATTAAATTTATTAA TTT	GTCGTTGGAGTCTTTG CGAT	TTCACCAATGTTGAC CGAA	60.3	452	DRR	Ca_00925	--	--
Ca3_P3_36205967	Ca3	36205967	GT/GTCT	GCATGGCATCAACAAG AATG	CATCAGAAGTCTGTTG CCGA	60.1	467	DRR	Ca_00925	--	--
Ca3_P3_36207784	Ca3	36207784	GA/GAA	TGGGTTCAATAGCCAC ATCA	GTTCAAACCTCGTTGC CTCC	59.9	237	INTRON	Ca_00925	--	--
Ca3_P3_36211079	Ca3	36211079	GAAAAAAAAA/GAAAAAAAAA	GTGAGTGAGCCGTGTA CGAA	TGAGTAAGGTGGGGA GGTTG	59.9	301	INTERGENIC	--	--	--
Ca3_P3_36212061	Ca3	36212061	ATTTTTTTTT/ATTTTTTTTT	TGGAGATGGAAAGTGG GAAG	CCAGAAATTTAACGA ACGAGG	60.0	326	INTRON	Ca_00926	--	LSD
Ca3_P3_36212647	Ca3	36212647	ATTT/ATT	TCCGTGCAATATAGCA CATTC	TTGGCTGAGAACACA ATGC	60.0	504	INTRON	Ca_00926	--	LSD
Ca3_P3_36213542	Ca3	36213542	GTGATGATGAT/GTGATGAT	AAAATTATTGTGGCCGA GCA	CCGCACCAAGTATGAA GAGC	60.5	414	DRR	Ca_00926	--	LSD
Ca3_P3_36215526	Ca3	36215526	TA/TAA	TTGATTGCCGACAGTC TTTG	CGCAATTTGAATGTC ATCATC	59.8	622	DRR	Ca_00927	--	CO-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
Ca3_P3_36215688	Ca3	36215688	ATTTT/ATTTT	TGCTGTAACGATGATG CCAC	CAATGTGGATGCCTT GTTG	60.7	981	DRR	Ca_00927	--	CO-like
Ca3_P3_36215864	Ca3	36215864	CTTTT/CTT	TGATGACATTCAAATT GCG	CCTGTTTGTGGCTT GGAT	58.1	582	DRR	Ca_00927	--	CO-like
Ca3_P3_36219676	Ca3	36219676	ATTTTTTT/ATTTTTT	TTCACGCCCAAAGGAA ATAC	CCCACCAATAAGAGAG CCAA	59.9	512	INTERGENIC	--	--	--
Ca3_P3_36220254	Ca3	36220254	T/TG	TTGGCTCTCTATTGGT GGG	ACCGGTGATGACTCCA GTTG	60.1	265	DRR	Ca_00928	--	--
Ca3_P3_36220304	Ca3	36220304	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	TTGGCTCTCTATTGGT GGG	AATTCGGCGCTTATAGG ATT	60.1	446	DRR	Ca_00928	--	--
Ca3_P3_36224870	Ca3	36224870	AAGAGAGAGAGAGAGAGAGAG/AAGA GAGAGAGAGAGAGAGAGAGAGAGAG	ACCTGTGTGACTCTGA GGGG	CCCAGTAACCGCTCTC TCTG	60.2	721	INTERGENIC	--	--	--
Ca3_P3_36233651	Ca3	36233651	AGTTGTTGTT/AGTTGTT	GCAATGCCAACAGATG AAAA	AATCACACCTTTAAATC GGCA	59.7	536	DRR	Ca_00930	O	--
Ca3_P3_36233714	Ca3	36233714	CTTTTTTTT/CTTTTTTTT	GCAATGCCAACAGATG AAAA	AATCACACCTTTAAATC GGCA	59.7	536	DRR	Ca_00930	O	--
Ca3_P3_36237362	Ca3	36237362	ATTT/ATTTT	TCGCAAGATGAGTCTT GGTG	AATGGGCTTTGAAGG TCTT	60.0	596	DRR	Ca_00931	O	--
Ca3_P3_36240433	Ca3	36240433	TAAAAAAAA/TAAAAAAAA	TTGTTTTGAATTGGGC CAG	TTCCAAAATCTACCAT TCATT	60.8	859	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 (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
Ca3_P3_36242951	Ca3	36242951	GTTTTTTT/GTTTTTTT	TGCTGCAAAAGACAATT TCG	AAGTGGTGGTGCTGTT TTCC	60.0	907	INTERGENIC	--	--	--
Ca3_P3_36251365	Ca3	36251365	TAA/TA	GGTAAATTCGGTGGA CCAA	TCTGCCTGTTGTTTT GACG	59.7	336	INTERGENIC	--	--	--
Ca3_P3_36254231	Ca3	36254231	GTTTTTTTTT/GTTTTTTTTT	TGCCGATGTAATCTACC GAA	CGCCATTAGAAGTGG AAAA	59.1	652	DRR	Ca_00934	O	--
Ca3_P3_36256005	Ca3	36256005	CTAAAGATA/CTAAAGATATAAGATA	CCCTCCCTTGTGACG AATA	ATTGGCGAAGAAATGC AATC	59.9	705	DRR	Ca_00935	--	--
Ca3_P3_36256160	Ca3	36256160	CAAA/CAAAA	CCCTCCCTTGTGACG AATA	ATTGGCGAAGAAATGC AATC	59.9	705	DRR	Ca_00935	--	--
Ca3_P3_36258385	Ca3	36258385	G/GA	CAATGTTTTTCCCTCC CCT	CGGTTTCCTTTTCATA GCG	60.2	469	DRR	Ca_00936	--	MYB_related
Ca3_P3_36261656	Ca3	36261656	CAAAA/CAAAA	TGAAGTGCAAAGTTG ATGC	AGGAGCTCACCGACAA TGAT	59.8	493	INTRON	Ca_00936	--	MYB_related
Ca3_P3_36263206	Ca3	36263206	CTAT/C	GCATGAGTTGGATTGC ATTG	TGCCCTAAATAGCATT GGATG	60.1	301	INTERGENIC	--	--	--
Ca3_P3_36263271	Ca3	36263271	TAAAAAAA/TAAAAAAA	GCATGAGTTGGATTGC ATTG	TGCCCTAAATAGCATT GGATG	60.1	301	INTERGENIC	--	--	--
Ca3_P3_36264829	Ca3	36264829	GAACGGAAA/GAA	ATCACCTGCAACATGG ATCA	TTAATTAGGCACACCA CGCA	59.9	706	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 (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
Ca3_P3_36268678	Ca3	36268678	ATTTTTTTTT/ATTTTTTTTTTT	ATCGGTATCGGAGCTT GATG	CATGGTTTTGAAAAAT GGGG	60.1	967	INTRON	Ca_00937	J	Dof
Ca3_P3_36269424	Ca3	36269424	TGTTGTTAGTTGTTA/TGTTGTTA	CAAAACCATGCCAGGA ATCT	CCGGTACCTGCTCTTA CTGC	59.9	752	INTRON	Ca_00937	J	Dof
Ca3_P3_36270571	Ca3	36270571	TTTTTA/T	TGATGTTGAATCAGGT CCGA	GTGCCGTCGTCAGTTC AATA	60.0	811	INTRON	Ca_00937	J	Dof
Ca3_P3_36274695	Ca3	36274695	ATAAAATATA/ATAAAATATATAATAAA ATATA	TGAGTTGCTTTAAAAAT TCGCA	GGAGACAAATATAATT CACCACCA	59.9	541	DRR	Ca_00937	J	Dof
Ca3_P3_36275195	Ca3	36275195	AAT/AATAT	TTTTGGTGGTGAATTAT ATTTGTCTC	TGCATGACAAGTGGCT CTTC	59.6	392	DRR	Ca_00937	J	Dof
Ca3_P3_36277496	Ca3	36277496	A/AG	GGCTTGGGAAGATAAG AGGG	CAGATCCAAAACCACC GAAT	60.0	602	INTRON	Ca_00938	R	--
Ca3_P3_36278881	Ca3	36278881	GA/GAA	GGTCTTCAAGTTGCTG GCAT	CAATGGACGGCTTACC TGTT	60.3	164	INTRON	Ca_00938	R	--
Ca3_P3_36284489	Ca3	36284489	ATTTTTTT/ATTTTTTT	ACCCCTCCTGTCGTGT ATTG	AGCCACATTCACAAAC CACA	59.8	449	INTERGENIC	--	--	--
Ca3_P3_36291066	Ca3	36291066	ATTTTTTT/ATTTTTTTT	TCCCTATCTCATTTTAC CGTGA	GGTTTGGTTCCTTCGG TTTT	58.6	745	INTERGENIC	--	--	--
Ca3_P3_36302805	Ca3	36302805	C/CA	ATCGTGGCAACATTTGA GGT	CACGTGTCAAACCTGTC CAAT	60.4	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 (°C)	Expected 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_P3_36307639	Ca3	36307639	GTCTTATCTTAT/GTCTTATCTTATCTTA T	GTGTTCCGCGTTAAC AACT	TGGCTAATAAGCCTAC GCAAA	60.0	409	INTERGENIC	--	--	--
Ca3_P3_36308411	Ca3	36308411	GAAAAAAAA/GAAAAAAAAAAAA	TTTGCCACTTGATACAG CAGA	GCCCAAGTTTGAGTCC AAAG	59.5	733	INTERGENIC	--	--	--
Ca3_P3_36319172	Ca3	36319172	A/AT	AAAGGAATTGCAAGGA CCAA	CGCGGTGATTTTATTG CTCT	59.5	616	INTRON	Ca_00941	D	TCP
Ca3_P3_36324828	Ca3	36324828	T/TG	TCCATGAAACATTCCCC ATT	CGCACTAAAACGACGA ACAA	60.0	454	INTERGENIC	--	--	--
Ca3_P3_36326987	Ca3	36326987	AT/ATATTT	CATTTTGCATCACACT GCC	TGGTTGCAAGGAGAAA GTGA	60.1	565	INTERGENIC	--	--	--
Ca3_P3_36327195	Ca3	36327195	ATTTTTTTTT/ATTTTTTTTTT	CACTTTCTCCTTGCAAC CAA	TGGAGAAACAATGCAA ATGG	58.9	512	INTERGENIC	--	--	--
Ca3_P3_36331408	Ca3	36331408	TGG/TG	TGTAGGTTTTTGACCG GAGG	TCACCAAGACCAACA GGCT	60.0	494	INTRON	Ca_00942	--	HB-other
Ca3_P3_36334629	Ca3	36334629	TAAAAAAAA/TAAAAAAAA	AACGGCGAATACTAAC ACGG	GCCCAACGAAACCTA TCAA	60.0	372	INTRON	Ca_00942	--	HB-other
Ca3_P3_36334754	Ca3	36334754	ATTTTT/ATTTTTT	AACGGCGAATACTAAC ACGG	GCGGAATACCACGAGA AAAA	60.0	697	INTRON	Ca_00942	--	HB-other
Ca3_P3_36336902	Ca3	36336902	TAAA/TAA	CCCATCTCCAACCTCTT CAA	GGTGCTAAGTTTGTCC GTGT	60.0	818	INTRON	Ca_00942	--	HB-other

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
Ca3_P3_36340133	Ca3	36340133	A/AGTAGAGATATAATTG	TAGCCCGTCACAATTTA GGG	CTCTTTCTTCCCTCC GCTC	60.0	910	DRR	Ca_00942	--	HB-other
Ca3_P3_36342047	Ca3	36342047	CAA/CAAAA	ACAAATGCCTCGATCT GTCC	GGCGGTGATGCTTCAA TACT	60.1	367	INTERGENIC	--	--	--
Ca3_P3_36342426	Ca3	36342426	GAAAAA/GAAAAAA	AGTATTGAAGCATCACC GCC	TCGAGGCATTGTCTG AGAG	60.1	195	INTERGENIC	--	--	--
Ca3_P3_36344245	Ca3	36344245	CATAT/CAT	GGCCTTTTGATCCTCTA GGC	TGCAATTTTATCACAT CCCC	60.2	777	DRR	Ca_00943	R	C2H2
Ca3_P3_36349322	Ca3	36349322	TTCTC/TTCTCTC	TGACATTTTCCAAGGTC GAA	GTTGACGGTCGATTGA AACA	59.1	594	INTERGENIC	--	--	--
Ca3_P3_36353533	Ca3	36353533	CTTTT/CTTT	TCAAGTTGCAGGCTCA AAAA	TGACTTGGTTTTGTATT CGGC	59.6	524	INTERGENIC	--	--	--
Ca3_P3_36361587	Ca3	36361587	CAA/CA	ACTCATCTCCAACACGA GGG	CTGTCAACAAATCGCA GTCG	60.1	465	INTERGENIC	--	--	--
Ca3_P3_36361613	Ca3	36361613	GACA/GA	ACTCATCTCCAACACGA GGG	TTGCTGCTGATTTTCT CGTC	60.1	769	INTERGENIC	--	--	--
Ca3_P3_36363297	Ca3	36363297	CAAAATAA/CAAAATAATAA	CAGTGTGAGTTAGGAA TGCCAA	TTCCGTCATATGCAT TGATT	60.2	145	DRR	Ca_00945	--	NF-X1
Ca3_P3_36371582	Ca3	36371582	ATTTTTTT/ATTTTTT	CAAAACATGCACCTAAA AACCA	GGGGGACTAGAAAACC CAAG	59.9	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 (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
Ca3_P3_36371828	Ca3	36371828	GT/GTTAT	GGGTTTCTAGTCCCC CAAG	TGTTTTTCATTATGTGC CCG	59.8	483	INTERGENIC	--	--	--
Ca3_P3_36376514	Ca3	36376514	CTAT/CT	CACACTGGATCTAAAC CTCGG	TCCACCACGATTGTTT TTCA	59.6	353	DRR	Ca_00946	D	WRKY
Ca3_P3_36381118	Ca3	36381118	T/TTTTGAAAGGGCA	AAAAAGCGCGGGTTAA TTTT	CCATGCTCCACGTC TAAT	60.0	544	INTERGENIC	--	--	--
Ca3_P3_36383650	Ca3	36383650	TAA/TAAA	CTGACACGTATGATGG GTGC	CAAACAGTGCCAAAC ATGC	60.0	332	INTERGENIC	--	--	--
Ca3_P3_36384085	Ca3	36384085	TAAAAAAAAAAAAAAAAA A	TGGCACTGTTTGGTC TTTG	TGGACCCAAAATTTC CATA	59.7	605	INTERGENIC	--	--	--
Ca3_P3_36389750	Ca3	36389750	GATTTTTATTTTATTTT/GATTTTTAT TTTT	TGCCACCATTATGCAC CTTA	GGACTATTTGGGCTGC GATA	60.0	524	DRR	Ca_00948	R	NAC
Ca3_P3_36397763	Ca3	36397763	TACCACCACCACCACCACCA/TACCAC CACCACCACCA	CCCTCCAATTCAGCAT GTTT	GCCTTTGTCCGTGCAT ATTT	59.9	546	CDS (large-effect mutations)	Ca_00950	P	--
Ca3_P3_36402333	Ca3	36402333	TA/T	GGCCTCACACTCCATC AAAT	GCTCAATGTTGCGTTT AGCA	59.9	316	INTRON	Ca_00951	H	--
Ca3_P3_36403180	Ca3	36403180	TA/T	AACCGGAAGGATCTGT GTTG	TTTTACATTTCAACCG CAC	60.0	953	DRR	Ca_00951	H	--
Ca3_P3_36403564	Ca3	36403564	TCA/T	TGAGGTGCTAACCCG AAGA	AGTGACAACCCCTCAA TTCG	59.4	223	DRR	Ca_00951	H	--

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 (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
Ca3_P3_36413392	Ca3	36413392	T/TAATAAAAA	ATGCCAAATCCAAAAGC ACT	TTGAAAACGATGCCAA ACTC	59.6	460	INTRON	Ca_00954	G	--
Ca3_P3_36414069	Ca3	36414069	TTT/TTTATT	GATGCGCTATCCAACC TCAC	GCCGCCACATATCAT TTAT	60.6	659	INTRON	Ca_00954	G	--
Ca3_P3_36415214	Ca3	36415214	AAAGAAG/AAAG	GAGTCAACCTACCGGA CCAA	TGGGAATGACCTTTGC TTTC	60.0	466	INTRON	Ca_00954	G	--
Ca3_P3_36420971	Ca3	36420971	AATATATATATATAT/AATATATATAT	TGGCATCGTGATTCTTA CCA	GGCCATGGTGATTGTA AAGG	60.1	746	INTERGENIC	--	--	--
Ca3_P3_36426774	Ca3	36426774	TAGATGAAGATGAAGATGAAGATGA/T AGATGAAGATGAAGATGAAGATGAAG ATGA	TCAAAGGAAGCTTAGC CCAA	GCAAACGCTTCTCTGG TTTC	60.0	861	CDS (large-effect mutations)	Ca_00956	GM	WRKY
Ca3_P3_36429496	Ca3	36429496	TAAAAAA/TAAA	CCATCTTGCGAAATGT GAAG	GTTACAGCTGGTGCAT CCCT	59.3	590	INTERGENIC	--	--	--
Ca3_P3_36431342	Ca3	36431342	T/TGAAC	CCCATTGCTGTATTTC CCT	TTGCATCAGGCTTGTA CCTG	60.0	694	INTRON	Ca_00957	H	--
Ca3_P3_36432148	Ca3	36432148	TA/TAA	CTTCTTGACGGAACG AAAG	AGTGCTCCAGCAACGA GAAT	60.0	378	INTRON	Ca_00957	H	--
Ca3_P3_36434602	Ca3	36434602	CGT/CGTGT	TGCAAGGACAAACATAA GCG	AAAAAGGATGGATCGG GAAT	59.9	511	DRR	Ca_00957	H	--
Ca3_P3_36443050	Ca3	36443050	AT/A	TTGCAATTGAAGTTCCC ACA	GGCAAGCTCATTTCTG CTTC	60.1	427	INTRON	Ca_00959	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 (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
Ca3_P3_36447139	Ca3	36447139	CAT/CATAT	GGATGAGTGCAATTG GGAT	AATGAATGGCTGCGCT AGTT	59.8	473	DRR	Ca_00960	O	--
Ca3_P3_36447416	Ca3	36447416	AGCTGC/AGCTGCTGC	GGACACCAACGTCTCC ACTT	GAGCAAGAAGTGTCTGA AGCC	60.0	210	CDS (large-effect mutations)	Ca_00960	O	--
Ca3_P3_36447887	Ca3	36447887	TCCC/TCC	GGCTTCGACACTTCTT GCTC	TTGCAGTTGATGTCTG GCTC	60.1	785	INTRON	Ca_00960	O	--
Ca3_P3_36448772	Ca3	36448772	CAAAAAAAAA/CAAAAAAAAA	TTCTCTCCTAAGCCTCCC ATT	CAATGTAGGAGTGCGA AGCA	60.0	489	INTRON	Ca_00960	O	--
Ca3_P3_36476148	Ca3	36476148	A/AATACAT	TGGCAATCGATTGAC AAAA	ACATCCAGTCCTGCAA ATCC	60.1	844	INTERGENIC	--	--	--
Ca3_P3_36481853	Ca3	36481853	TA/TAA	TCCTCGAGATCCAAAA GCAT	GTCCAATCCCCCTTT CATT	59.8	272	INTERGENIC	--	--	--
Ca3_P3_36534011	Ca3	36534011	ATTTTTTTTT/ATTTTTTTTT	TTACTCATCCATCGTTG GCA	TCAGCGTCGTCAAATA TTGC	60.2	415	INTERGENIC	--	--	--
Ca3_P3_36551603	Ca3	36551603	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATAT ATATATATATATATATATA	TCACACACCTCGTTGAA AGC	TCAACCGGACGTACTC AACA	59.9	613	INTERGENIC	--	--	--
Ca3_P3_36560978	Ca3	36560978	T/TA	ATCTGATTTGAGCAATG GGC	GGTAAGGCCATTTTGG GTAA	60.0	452	INTERGENIC	--	--	--
Ca3_P3_36582832	Ca3	36582832	TAAAAAAAAA/TAAAAAAAAA	ACCCTCCGTCTGTTTCA CAC	GGAATGCGGTGGATA AATA	60.0	682	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 (°C)	Expected 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_P3_37047269	Ca3	37047269	ATTTTTTTTT/ATTTTTTTTT	CAGTTTTCAGAGTTGCA TTTTCA	ATGAATGAAGGGGCTG AATG	59.4	474	INTERGENIC	--	--	--
Ca3_P3_37048753	Ca3	37048753	AATATATATATATATATATATATATA/ ATATATATATATATATATATATATATA TATAT	TTGATTCTATTCTGCTT TGGTTCA	CAACTTGCCGCAAAGG TATT	60.0	633	INTERGENIC	--	--	--
Ca3_P3_37078968	Ca3	37078968	CT/C	GGAAAGTAGCTGCTGT CGCT	AATGGAGTGCCAGACA AACC	59.8	556	INTRON	Ca_01034	R	--
Ca3_P3_37088296	Ca3	37088296	ATTTTT/ATTTTT	CAAGAGGCCAAACCGTT CAAT	TGCAACAAATTGTCAAT CTCAA	60.1	478	INTERGENIC	--	--	--
Ca3_P3_3712841	Ca3	3712841	CATATATATATATATATATATAT/CAT ATATATATATATATATATAT	TGACACACCCACCCAC TAAA	GACTGAGATGATGATT CACTTTGC	59.8	520	INTERGENIC	--	--	--
Ca3_P3_37134779	Ca3	37134779	ACCCCC/ACCCCC	TGCATGTCCGATTGAAA TGT	ACGCCACTGTCCTTGT TACC	59.9	917	INTERGENIC	--	--	--
Ca3_P3_37150967	Ca3	37150967	ATTTTTTTTT/ATTTTTTTTT	TTTTGCTTGCGTGAAAA TTG	CCAAATGATAATCCAT GGGC	59.9	604	INTERGENIC	--	--	--
Ca3_P3_37163693	Ca3	37163693	AAGTCCGTTAACCACCTTCAGTCC/AAG TCCGTTAACCACCTTCAGTCCGTTAACC ACTTCAGTCC	CCAGTTAGGGGTCGAA CTCA	CGTTCCAAAAACCAAA TGCT	60.1	227	INTRON	Ca_01047	U	--
Ca3_P3_37192959	Ca3	37192959	T/TCA	TCAAATTTTCATGTGCGC TGT	TAATAGTCCGGCCAC TTTG	60.3	478	INTERGENIC	--	--	--
Ca3_P3_37211475	Ca3	37211475	GAACAACAACA/GAACAACAACAACA CAACA	TGGTCAAATTCCTGGA GCAA	TGATCACACCCCAAGT TTTG	59.2	336	CDS (large-effect mutations)	Ca_01053	--	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 (°C)	Expected 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_P3_37247726	Ca3	37247726	GTATATATATATATATATATATAT A/GTATATATATATATATATATATA	GCCTGTTTGCTTTGGG ATTA	GGTGACACGCATTTT GTGA	60.1	856	INTERGENIC	--	--	--
Ca3_P3_37348088	Ca3	37348088	TAAAAAAAA/TAAAAAAAA	TCGGCGGACTTACCA ATAA	GGGAACTTTTTAAGT GGGC	60.4	438	INTERGENIC	--	--	--
Ca3_P3_37396352	Ca3	37396352	CAATTGGGAATTGG/CAATTGGGAATT GGGAATTGG	CCTTGCCTTTCTGAG TGG	GCGGTGAATATCCAA GGAC	59.8	481	INTERGENIC	--	--	--
Ca3_P3_37464289	Ca3	37464289	TAAAAAAAA/TAAAAAAAA	ATGTGCAGCCCTGCAT ACTA	GCTGCTGCCTGCATGT ATAA	59.3	824	DRR	Ca_01080	--	--
Ca3_P3_37719535	Ca3	37719535	TGG/TGGG	TTGGGTCAAGAATTCAT CTCG	CCCAAAATGTGGCTTG AAAT	60.1	581	INTERGENIC	--	--	--
Ca3_P3_37756750	Ca3	37756750	ATTTTTTTTT/ATTTTTTTTT	AATAGGCCAGGTCAGG CTTT	GGATTGTTGATGATG GCTT	60.1	656	INTERGENIC	--	--	--
Ca3_P3_37828643	Ca3	37828643	CCAGAC/CC	GGGAATAGGCTAGACC GTCC	GCTTGGCCTACGACCT ATCA	59.9	512	INTERGENIC	--	--	--
Ca3_P3_37841677	Ca3	37841677	CAAA/CAAAA	CATGTTGTTGGCTATG GTGC	TGCAGATCGCATCTGA AAAC	60.0	293	INTRON	Ca_01123	U	GATA
Ca3_P3_37875029	Ca3	37875029	GT/GTT	ATGGCGTGACTGAACA TGAA	AAGGGCAAGATCCCAA AAAC	60.1	672	INTERGENIC	--	--	--
Ca3_P3_37978022	Ca3	37978022	TTTATTATTATTATTATTATTATTAT TATTAT/TTTATTATTATTATTATTAT TATTATTAT	TTTGGTTTCTGCTTGCC TCT	CCTTGCTACTCGTATC CCCA	60.0	273	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
Ca3_P3_37989883	Ca3	37989883	GTATATATATATATATATATA/GTATATA TATATATATATATATATATA	TGTCACGGGTGGACAA ATTA	TAGGCGATTGTAGGC TTTG	59.8	749	INTERGENIC	--	--	--
Ca3_P3_37991623	Ca3	37991623	TAAAAAAAA/TAAAAAAAAA	TAGATCCCCACCAGT CCAG	TGGTACGCGACAATTT TTGTT	59.9	793	DRR	Ca_01140	--	--
Ca3_P3_38024661	Ca3	38024661	CAAAAAAAAA/CAAAAAAAAAA	CATGTATATCATTGCAA TTCGTGTT	TTGTGATTTTATTAAGA GGGTAGTTTG	60.0	322	DRR	Ca_01143	S	--
Ca3_P3_3804615	Ca3	3804615	TAT	CGCCATAAAGGATCAA GCAT	AACCTGATGCCGAGTA GCGT	60.1	317	INTERGENIC	--	--	--
Ca3_P3_38064707	Ca3	38064707	TTATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATATATATATATATAT	ATTTTGCACCCACCACA TTT	CGCCATATTCAAACAA AATTCA	60.1	944	INTERGENIC	--	--	--
Ca3_P3_38065578	Ca3	38065578	CATATATATATATATATATATATATAT ATAT/CATATATATATATATATATATA TATAT	ATGTTTAATAGGCCGAC GCC	TATCAATTGGTTGGTC CGCT	61.2	521	INTERGENIC	--	--	--
Ca3_P3_38073514	Ca3	38073514	CAAAAAAAAAAAAA/CAAAAAAAAAAA AA	CTTCTGAATGGGTTTG GTGG	ATGGACTCAATTGGGA GTGG	60.3	439	DRR	Ca_01151	DL	--
Ca3_P3_38096030	Ca3	38096030	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATATA TATAT	TCACGCGATCTAATCTC GACT	AGGGGTGTGAATATGT CCGA	60.0	543	INTERGENIC	--	--	--
Ca3_P3_38137580	Ca3	38137580	GATATATATA/GATATA	GCTTGCAAAAGGAATG AAGC	CAGAGCATGACGGTGA AAGA	60.0	205	INTERGENIC	--	--	--
Ca3_P3_38143286	Ca3	38143286	CATTATTATTATTATTA/CATTATTATTA TTATTATTATTATTATTA	TCGCCCTATAATGCCAA TTC	CCTCCATAAGGCCAAA CAAA	59.9	450	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 (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
Ca3_P3_38146206	Ca3	38146206	ATC/ATCGCTC	CAACCCCTTCTGTGCCA ATTT	ATTTGCAATGCTCGT CTTT	60.0	545	INTRON	Ca_01158	C	--
Ca3_P3_38149213	Ca3	38149213	TTTTATTTATTTATTTAT/TTTTATTTATT TATTTATTTAT	CACGAATGCCTTTGGC TAGT	CGATTTCAAACCTCAAG ACAAAATG	60.3	586	DRR	Ca_01159	R	MYB
Ca3_P3_38156087	Ca3	38156087	GTATATCTTGATAT/GTATATCTTGTA TATATCTTGATAT	TGCACGGAATGTACAC CCTA	TGGTTTTACCCCTCTT GCAG	60.0	753	DRR	Ca_01160	L	MYB_related
Ca3_P3_38156627	Ca3	38156627	ACTCT/ACT	CTGCAAGAGGGGTAAA ACCA	ATGTTCTGAAATGAG GCGG	60.1	560	INTRON	Ca_01160	L	MYB_related
Ca3_P3_38170265	Ca3	38170265	TAA/TA	CCCAGATCTGCCTAAT GGAA	GATGGGTTTGAACAT CCAG	60.0	594	INTRON	Ca_01160	L	MYB_related
Ca3_P3_38170925	Ca3	38170925	CAAT/CAATCAACGCCATAAT	GAACAAATGCAGTGGC TGAA	TGGCGAGGAAGCTTGT AGAT	59.8	327	INTRON	Ca_01160	L	MYB_related
Ca3_P3_38174096	Ca3	38174096	AGG/AG	CGAAACACGTTACCAT CATCC	CCGATGAGTGTTGGATG TGAA	60.2	410	DRR	Ca_01161	--	NF-YA
Ca3_P3_38174447	Ca3	38174447	A/AT	TTCACATCCACACTCAT CGG	CTGGCACTGGCATTCC TAAT	60.5	628	DRR	Ca_01161	--	NF-YA
Ca3_P3_3818047	Ca3	3818047	G/GGA	ATGCTCTGCACCTTGCA GCTA	TTTCATCGCCTCAAAGT GTTG	59.9	707	INTERGENIC	--	--	--
Ca3_P3_38181335	Ca3	38181335	TAAAAA/TAAAAAA	AAAAGCCAAAACCATG CAAC	TGGGGTTCTAACTCTC GCAC	60.0	699	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 (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
Ca3_P3_38182839	Ca3	38182839	AGTGTGTGTGTGTGT/AGTGTGTGTGTGT	AAAGCGTCTTTCATTAA TAGTGTGTG	GGTTTGCACATCT GCTT	60.0	319	INTERGENIC	--	--	--
Ca3_P3_38183694	Ca3	38183694	TAAA/TAAAA	CGACACGCACAAACCT TTTA	AACCTTCTTCGTTTCGT GGA	59.8	856	INTERGENIC	--	--	--
Ca3_P3_38203857	Ca3	38203857	CT/CTT	AGGAACTGGGCATGGT GTAG	TATTGGATTCCTCCAA AGCG	60.0	870	INTRON	Ca_01163	E	--
Ca3_P3_38206767	Ca3	38206767	AAGAG/AAG	CTATCCTGGAGAAGGG GGAG	GCTATTGCATTGGAGT TGCTC	60.0	706	DRR	Ca_01163	E	--
Ca3_P3_38208512	Ca3	38208512	TCCC/TCC	TTTGC GTTACGAATTTG ATGA	TGACCCCTTCATTCTTC CCAG	59.2	624	INTERGENIC	--	--	--
Ca3_P3_38208620	Ca3	38208620	CATAT/CAT	AAATCCTCATTCCCAAT CAAA	TGACCCCTTCATTCTTC CCAG	58.4	222	INTERGENIC	--	--	--
Ca3_P3_38208680	Ca3	38208680	ATTTTTTTTT/ATTTTTTTTTT	AAATCCTCATTCCCAAT CAAA	TGACCCCTTCATTCTTC CCAG	58.4	222	INTERGENIC	--	--	--
Ca3_P3_38212764	Ca3	38212764	CTTGTTT/CTT	ATGCAGACTTTGCTGC TCAA	TCAGAGGGATCGGACA TAGG	59.7	267	INTRON	Ca_01164	T	WRKY
Ca3_P3_38215460	Ca3	38215460	CT/CTATAGT	ACTCTTCTTTGGTCGC GATG	CAACTCATTCCAGGC AACA	60.4	452	DRR	Ca_01164	T	WRKY
Ca3_P3_38215897	Ca3	38215897	CTT/CTTCTTTCATT	TGTTGCCTGGAATGA GTTG	TGCTGCATTGAAATCG AGTC	59.7	688	DRR	Ca_01165	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 (°C)	Expected 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_P3_38219046	Ca3	38219046	TCC/TCCC	GGTGAGGTTCTTGCAACCAT	TATGCATGGTGAAAAAGCGA	60.0	655	DRR	Ca_01166	Z	B3
Ca3_P3_38219080	Ca3	38219080	TAAAA/TAAAAA	GGTGAGGTTCTTGCAACCAT	TATGCATGGTGAAAAAGCGA	60.0	655	DRR	Ca_01166	Z	B3
Ca3_P3_38219214	Ca3	38219214	TTCT/TT	CTACCGGCTACTTTCTTGCG	TATGCATGGTGAAAAAGCGA	60.0	463	DRR	Ca_01166	Z	B3
Ca3_P3_38219924	Ca3	38219924	AC/ACC	CATTCCAATTCATCTGCACC	CGAGGGAACGAAATCTGTGT	60.3	469	DRR	Ca_01166	Z	B3
Ca3_P3_38221107	Ca3	38221107	TTCCTC/TCTC	CCACTGGTGATTTCAGAGGT	GAGAACTCATGTGCCGAAT	60.0	566	CDS (large-effect mutations)	Ca_01166	Z	B3
Ca3_P3_38224413	Ca3	38224413	TAAACAAACAAACAAACAA/TAAACAAACAAACAAACAA	GCTGAGGAGAAATTCGTGG	CGACTTTTCTCTGCCATCTG	59.8	154	INTRON	Ca_01166	Z	B3
Ca3_P3_38225211	Ca3	38225211	ATGTTGTTG/ATGTTG	TTAGAGAACGGAAACCTGGC	ACAGGTTGGTTTCTGTGTCG	59.3	363	INTERGENIC	--	--	--
Ca3_P3_38225828	Ca3	38225828	TAA/TA	CCACCATCCTTGTCCTTT	CCCTCTCCACGTTTAGTT	60.0	444	DRR	Ca_01167	R	--
Ca3_P3_38225921	Ca3	38225921	TA/T	CCACCATCCTTGTCCTTT	TTTGAGAGGTTGGATGAGCC	60.0	989	DRR	Ca_01167	R	--
Ca3_P3_38232333	Ca3	38232333	TC/T	GAAATCCAGCCATGAAGGAA	CCATCTGTTTACGATGAAAGTCA	60.0	335	DRR	Ca_01169	G	--

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
Ca3_P3_38232966	Ca3	38232966	ATTT/ATT	TGTGTATGATGAAGAC GCATGT	ATTGGCAATCGCGAAA AA	59.1	251	DRR	Ca_01169	G	--
Ca3_P3_3825225	Ca3	3825225	TA/T	ATTGCACTAGTGGTGG TGCC	TACCGCCACAAAATCT CTCC	60.0	851	DRR	Ca_21335	--	--
Ca3_P3_38289059	Ca3	38289059	T/TA	CTTTCCTTCAACCCCT CCA	GAAAAATGAAGGAGGT GGCA	60.1	547	INTERGENIC	--	--	--
Ca3_P3_38333156	Ca3	38333156	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	CCTGCCTTGACACCTAT CAGT	TAGGTGTGATTGCCCT TTTT	60.3	683	DRR	Ca_01182	R	--
Ca3_P3_3847338	Ca3	3847338	CATATATATATAT/CATATATATATATAT AT	AGGAAGAGTGGAGTTG CGAA	ATTTTGGTTCGGAGGC TTTT	60.0	496	INTERGENIC	--	--	--
Ca3_P3_38618211	Ca3	38618211	TAAAAAAAA/TAAAAAAAAA	ATGAGGAACGAAACCG ACAG	TTTTCAGCACATTCTTT TTGG	60.1	632	INTERGENIC	--	--	--
Ca3_P3_38624777	Ca3	38624777	TTTCTTCTTCTTCTTCTTCTTCTT/TTT CTTCTTCTTCTTCTTCTTCTTCTTCTTCTT TTC	GAAGCAATTCCTTTCC CTC	CAAAGTAAACCCACAC GCTA	60.0	431	CDS (large-effect mutations)	Ca_01218	--	--
Ca3_P3_38640396	Ca3	38640396	T/TTTAG	GCTGCACAAAGACGAT GAAA	TTCAAGGGTTTCGGAT TGAA	60.0	519	INTERGENIC	--	--	--
Ca3_P3_38665334	Ca3	38665334	CTT/CTTCATTT	CCCCTTCATCAGTGGT GAGT	TCTTCTCCTCCCAAAA GCAA	60.0	257	INTERGENIC	--	--	--
Ca3_P3_38677144	Ca3	38677144	TAT/TATAAT	TGGAATATGCTTGGC ATCA	TCTTTTGTACCCGCAA ATCC	60.0	741	INTRON	Ca_01223	S	--

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
Ca3_P3_38690878	Ca3	38690878	GAAAAATAAAAAATAAAAA/GAAAAATAA AAA	TTGGCATAATCCTCATT GACA	CCAAAACAAAGACCTC CGAA	59.0	469	DRR	Ca_01225	--	NAC
Ca3_P3_38729060	Ca3	38729060	GATATATATATATA/GATATATATATATA TA	CAGATCATGTCGGAGC TTCA	CCTTTTCCTTCTTGCC CTTC	59.9	535	INTERGENIC	--	--	--
Ca3_P3_38735210	Ca3	38735210	GTGTTG/GTG	CACCTGCACAACTTC CAAA	TGGTGTACTCCCTTC CTTCA	59.7	220	INTERGENIC	--	--	--
Ca3_P3_3873650	Ca3	3873650	GAAAAAAAAA/GAAAAAAAAA	GCTGTTGGTTAGTCGG GGTA	GCAGTAATGCATCCGT TGAA	60.0	631	INTERGENIC	--	--	--
Ca3_P3_3876327	Ca3	3876327	AAATAATAATAATAATAATAGTAAT AATAATAATAATAATAAT/AAATAAT AATAATAATAATAATAATAATAGTA ATAATAATAATAATAATAAT	TCAAACCGGGTGTA GGT	CAAAATTTAGGCCG GATA	60.2	371	INTERGENIC	--	--	--
Ca3_P3_38900161	Ca3	38900161	GACAACA/GACA	GCCATTCCATTAAAG GTCA	TCTGCCTAATCAACAT GCC	59.8	891	INTERGENIC	--	--	--
Ca3_P3_38901208	Ca3	38901208	TAA/TAAA	CTTGACATGCAACCA GGTA	ATTGTTCAATGTTGTG GGCG	60.7	625	INTERGENIC	--	--	--
Ca3_P3_38975771	Ca3	38975771	GTATTATTATTATTATTATTATT/GT ATTATTATTATTATTATTATTATT	ATGGCTAGACGAGTTC GACG	TAATAGGAGGTCGCTG GACG	60.4	494	INTERGENIC	--	--	--
Ca3_P3_3898691	Ca3	3898691	CAAAAAAAAAA/CAAAAAAAAAA	TTGGTTACATTTGAAA ACGG	CCTGGAATCAAAAG CCAA	59.9	839	INTRON	Ca_21332	E	--
Ca3_P3_3900290	Ca3	3900290	TTTTTTTATTATTATTATTATT/TTTT TTTATTATTATT	CTGCAAGTGGTGTGT TGCT	AATTACTCAGGCCCA AAAA	59.9	621	INTRON	Ca_21332	E	--

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 (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
Ca3_P3_39027474	Ca3	39027474	CGGGG/CGGGGG	CATATGCCACATACGC AAGG	CAAAATGTTAATGGCGG TGTG	60.0	586	INTRON	Ca_01265	YU	--
Ca3_P3_39155160	Ca3	39155160	AATATATATATATATATATAT/AATATAT ATATATATATATATAT	ATTAACGCATCACCAAC CAA	TAAATTTTCGCAAGCT CGAC	58.9	369	INTERGENIC	--	--	--
Ca3_P3_3920259	Ca3	3920259	AG/A	TTTGTGATGGCGACTC TGAT	ATCAAGAAATGCGGGA GTTG	59.2	425	DRR	Ca_21330	O	WRKY
Ca3_P3_39298050	Ca3	39298050	AAGAGAGAGAGAGAGAGAG/AAGAGA GAGAGAGAGAG	CCGAAATCACATGACA GTGG	TTTTGAGAAGCCGAGG AAGA	60.0	181	INTERGENIC	--	--	--
Ca3_P3_39317786	Ca3	39317786	CATATATATATATATATATAT/CATAT ATATATATATATATAT	AGGACCATTCCATCCT GTCA	TGCATCCAAACGAGCA CTAA	60.3	664	INTERGENIC	--	--	--
Ca3_P3_39355383	Ca3	39355383	CATATATATATATATATATATATAT/C ATATATATATATATATATATAT	TCGTAGGACCTCAAGT TGTATGAG	TTGGCCAAATCTTCGA TCTC	59.7	338	INTERGENIC	--	--	--
Ca3_P3_39413210	Ca3	39413210	CATATATATATATATATATATATATAT ATATAT/CATATATATATATATATATA TATATAT	GGCATTCAATGGATATT GGG	ACGTTATCCGATCAAA ACCG	60.0	357	INTERGENIC	--	--	--
Ca3_P3_39518552	Ca3	39518552	AAATAATAATAATAATAATAATAAT AATAATA/AAATAATAATAATAATAAA TAATAATAATAATAATA	ATTCATGCAAAACCACC ATT	ACCACTGTAGCATTTT GGGG	60.1	423	INTRON	Ca_01323	--	NAC
Ca3_P3_39571556	Ca3	39571556	GAAAAAAAA/GAAAAAAAA	AATTGTTTCGGCAATT CCA	GCAAAAGTGGCTGATG ACAA	60.3	553	INTERGENIC	--	--	--
Ca3_P3_39573787	Ca3	39573787	GGTAATTGTAATTGTAATTGTAATTGT AA/GGTAATTGTAATTGTAATTGTAA	TGTGCAAACTTGCAAA AGG	GTATGTTTGGCAATT GGGG	59.9	934	DRR	Ca_01331	--	Dof

[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 (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
Ca3_P3_39926798	Ca3	39926798	CT/CTGTAT	CATCTGCAGCCAAAA CTCA	GTGTGGGCTTTTCCTT TGAA	60.0	418	INTERGENIC	--	--	--
Ca3_P3_39963962	Ca3	39963962	AGATCAGGATC/AGATC	TTGCAGCCAACTGA ACTC	CGTTCTCGCCTTTCT CAAC	60.0	578	CDS (large-effect mutations)	Ca_01380	--	--
Ca3_P3_4006367	Ca3	4006367	A/AATGGTGACT	TGTTCCAAGAGGGCAT TACA	GACGTGATGCTCACTC CAGA	59.1	590	INTERGENIC	--	--	--
Ca3_P3_4017573	Ca3	4017573	TAA/TAAA	ACCACAGATCACCAGT CGCT	ACGTCCAAGGTAAGGG CTTT	60.7	683	INTERGENIC	--	--	--
Ca3_P3_4042829	Ca3	4042829	GATATATATATATATATATAT/GAT ATATATATATATATATATATAT	ACACGAAGAGCAGGAT CGTT	AAACAAAAATAAAACT CGGAGACA	59.9	743	DRR	Ca_21325	QR	--
Ca3_P3_4073796	Ca3	4073796	CT/CTT	CTCAACATCCACCATG CAAT	TGCAAATTCATCAAAT GCATAA	59.4	746	INTERGENIC	--	--	--
Ca3_P3_4132295	Ca3	4132295	TAAAAAAAAAAAAA/TAAAAAAAAAAAA AAAAAA	CGTGTGAGAAAACCTC GACA	CAACCCAAGTTCGAA ATGC	59.9	261	INTERGENIC	--	--	--
Ca3_P3_4132392	Ca3	4132392	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	CGTGTGAGAAAACCTC GACA	GAAGGCCAACTTCCAA ATGA	59.9	738	INTERGENIC	--	--	--
Ca3_P3_4137886	Ca3	4137886	TTATATATATATATATATATATATA TATATATA/TTATATATATATATATAT ATATATATATATATATATATATA	ATGTTCTCCTCCCTTT TCA	GTTCCGACGAAACGA CATT	58.6	783	INTERGENIC	--	--	--
Ca3_P3_414861	Ca3	414861	T/TG	CTATGCAACCACAGCTT CCA	GCAGATTCGGTTCAA AAGA	59.9	438	INTRON	Ca_22928	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 (°C)	Expected 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_P3_4152638	Ca3	4152638	CTTTTTTTTT/CTTTTTTTTT	TGATGCAAAGTGTGCT GTGA	TTTTTGTTGGGTGG TAAA	60.0	675	INTERGENIC	--	--	--
Ca3_P3_4378055	Ca3	4378055	AATATATATATATATATATATATA/AA TATATATATATATATATATATA	TATTTTGGATTTTGGCT CGG	GTTTCGATTCAACGA GGGA	59.9	502	INTERGENIC	--	--	--
Ca3_P3_4527615	Ca3	4527615	AATATATATATATATATATA/AATATATA TATATATATA	TTTGGTATTGACTCAG GGC	TTGGAAGGAGCCCTTA CCTT	59.9	711	INTERGENIC	--	--	--
Ca3_P3_454494	Ca3	454494	AGGG/AGG	GGATTGGAGTGTTCAG CCAT	TTGTCATTAGTTCAAT CTCACCAA	59.9	460	INTERGENIC	--	--	--
Ca3_P3_454633	Ca3	454633	GATATATATATAT/GATATATATATAT	GGATTGGAGTGTTCAG CCAT	TTGTCATTAGTTCAAT CTCACCAA	59.9	460	INTERGENIC	--	--	--
Ca3_P3_4596733	Ca3	4596733	A/AAGT	GTGCACACGGGTACAG CAGT	GTGCGGTGGTTGAAG GTAGT	59.5	159	INTERGENIC	--	--	--
Ca3_P3_4689138	Ca3	4689138	TAAAAA/TAAAAA	CAGCTTGCATTTGCTTT TGA	TTGCTCCTACGTATCT CCCG	60.1	888	INTERGENIC	--	--	--
Ca3_P3_4761643	Ca3	4761643	TAAAAAAAAAAAAAAAAAAAAA/TAAAAA AAAAAAAAAAAAAAAAAAAA	TGCGCAAGAGATGATT GAGT	CCGTTGATTGATGTG TTCG	59.6	556	INTERGENIC	--	--	--
Ca3_P3_4787200	Ca3	4787200	CA/CATA	GTGTCGGATGTCTGAC GCTA	GACGACTGTCACTGG ACGA	59.9	450	INTERGENIC	--	--	--
Ca3_P3_4842537	Ca3	4842537	TAAAAA/TAAAAA	ACAAAGCTGGTCGAAG AGGA	TCTTGGACTCGCTAAG CCAT	60.0	453	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 (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
Ca3_P3_4938478	Ca3	4938478	ATTT/ATTTT	TCAACTCAACCCGAAAC ACA	TGTTTGAATGTGTGGC ATTTG	60.1	813	INTERGENIC	--	--	--
Ca3_P3_4943052	Ca3	4943052	GTTTTTTTTTTT/GTTTTTTTTTT	GCCACAAAATTGGTCC AAAA	TATGTTGGTTTAGGGG GCTG	60.7	582	INTERGENIC	--	--	--
Ca3_P3_4965548	Ca3	4965548	ATTTT/ATTTT	CGGGGAATGTGATTGA TAGG	GTTGGAGAGATCGGTG GAAA	60.1	948	INTERGENIC	--	--	--
Ca3_P3_4965627	Ca3	4965627	T/TGAG	TGCAAACTCGGAGCAG AGAA	GTTGGAGAGATCGGTG GAAA	59.7	510	INTERGENIC	--	--	--
Ca3_P3_4966098	Ca3	4966098	CTTTTTTT/CTTTTTTT	TTTCCACCGATCTCTCC AAC	AAACCCGCTCCTTTCA AAAT	60.1	514	INTERGENIC	--	--	--
Ca3_P3_4975195	Ca3	4975195	AATATATATATATATA/AACATATATATA TATATATA	CAAAGTTCAATACGCCA GCA	AGGTTTTGGCGTAACT CCCT	59.9	455	INTERGENIC	--	--	--
Ca3_P3_5089285	Ca3	5089285	CAAAAAAAAA/CAAAAAAAAA	TGCCAAGAAAACACCAT GAA	GCCAACCAACATTGTG TCAG	60.1	700	INTERGENIC	--	--	--
Ca3_P3_5175484	Ca3	5175484	TGAGAGAGAGAGAGAGAGAGAAAG AGAGAGAGAGAGAGA/TGAGAGAGAG AGAGAGAGAGAGAGAAAGAGAGAGAG AGAGAGA	CGCTGAATCACCACAT CATC	ACCGATAACATTTTGG CTGC	60.1	664	INTRON	Ca_23872	--	--
Ca3_P3_5269970	Ca3	5269970	CAAACAATAA/CAA	GATTGGCACGTCGATT AACA	TTCTCGCTTTCGTTTC GTTT	59.5	563	INTERGENIC	--	--	--
Ca3_P3_5270123	Ca3	5270123	GAA/GA	ACGAAACGAAAGCGAG AAAA	CGACCTCGAAATAATC GGAA	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 (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
Ca3_P3_5270478	Ca3	5270478	TATCAATC/TATC	ACGAAACGAAAGCGAG AAAA	CGACCTCGAAATAATC GGAA	60.0	521	INTERGENIC	--	--	--
Ca3_P3_5278342	Ca3	5278342	ATT/AT	CACCCAGTTTTGAGG GTAA	TTTGCCAATCGATTATC GTG	59.8	549	DRR	Ca_20669	--	--
Ca3_P3_5286221	Ca3	5286221	ATTT/ATT	CACCCCTCCCAAAACAT CT	TTGTGAGTGCATTGA TTTTGTT	59.8	876	INTERGENIC	--	--	--
Ca3_P3_5288032	Ca3	5288032	AATATATATATATATATATAT/AA TATATATATATATATAT	AGAAGGTCGCATCTCC AAGA	TGGCACTTGATTAC TCGC	60.0	456	INTERGENIC	--	--	--
Ca3_P3_5347423	Ca3	5347423	CAATAATAATAATAATAATAATAAT AATAATAA/CAATAATAATAATAATA ATAATAATAA	TTGCTCTACGTATCTC CCG	TTGTGACAATTTGATG GTTCTAAA	60.2	563	INTERGENIC	--	--	--
Ca3_P3_5403691	Ca3	5403691	ACTCTCTCTCTCTCTCT/ACTCTCTC TCTCTCTCT	GAGAGGAGCCAACTGG AACA	TGAACCTGTTGAAGTG AAGCA	60.4	326	INTERGENIC	--	--	--
Ca3_P3_5447948	Ca3	5447948	TAAAAAAAAA/TAAAAAAAAA	GCATGAAGACGAATGA GCAA	CATCCCTCTAACCCCA CAAA	60.0	667	DRR	Ca_20658	--	--
Ca3_P3_5486984	Ca3	5486984	ATTTTTTTTT/ATTTTTTTTT	AGGCCTGATCTACGGC CTAT	CAACAGGGGCCTATGG TATG	60.1	637	INTERGENIC	--	--	--
Ca3_P3_5502243	Ca3	5502243	TG/T	TGCGTTTTTCTGCATT CTG	ATTCTGCGCGACTATC AACC	60.0	661	INTERGENIC	--	--	--
Ca3_P3_5502450	Ca3	5502450	GTATATATATATATA/GTATATATA TA	TGCGTTTTTCTGCATT CTG	ATTCTGCGCGACTATC AACC	60.0	661	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 (°C)	Expected 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_P3_5822155	Ca3	5822155	TATA/TATACTTAACTAATAATA	TGCTGTTTCCTTGCTT TCT	TTGAAACCAAGAGGG TACG	60.0	378	INTERGENIC	--	--	--
Ca3_P3_5994220	Ca3	5994220	TGAGTAAAG/TGAGTAAAGAGTAAAG	AAAGCAGTCTGCAAGG GAAA	GTGCAACCATCATGCA AAAG	60.0	382	INTRON	Ca_27241	--	--
Ca3_P3_6072190	Ca3	6072190	ATTTTTTTTT/ATTTTTTTTTT	GTGTGACCAGCTCGTT TG TG	CCAACGAGGACCCAAT TCTA	60.4	498	INTERGENIC	--	--	--
Ca3_P3_6088066	Ca3	6088066	CATC/CATCGTCAGAATC	ATGAGGCGCATTCAATT TTC	TTGCTCTTTGGTAGGT CGCT	60.0	812	INTERGENIC	--	--	--
Ca3_P3_613347	Ca3	613347	ATTTTTTTTT/ATTTTTTTTTT	TGGAGCTTTGTTTGG ACCT	AGTAAGTGC TCGT GGGC	59.7	409	INTERGENIC	--	--	--
Ca3_P3_6243942	Ca3	6243942	CTTATT/CTT	TGATGGACTTCGTGCT CTTG	CCTCAGGATAAAACAG CCCA	60.0	298	INTERGENIC	--	--	--
Ca3_P3_6301895	Ca3	6301895	TCCCC/TCCCC	CATTGGAAGCTTTAGG CTCG	GGGTTTGGAGAGTT GTCA	60.0	372	INTERGENIC	--	--	--
Ca3_P3_6335739	Ca3	6335739	AATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATATATAT	CTTGGGAAGCTGGAGAG CAAG	GTTGGTTCCCTAGCAC CGTA	60.0	762	INTERGENIC	--	--	--
Ca3_P3_6345015	Ca3	6345015	CAAAAAAAAA/CAAAAAAAAAA	CAGCTGTTCCGATGTC TTCA	GCTCATGGGATGTCAA CCTT	60.0	979	DRR	Ca_24832	--	B3
Ca3_P3_6352791	Ca3	6352791	AATATATATATATATATATAT/AATATAT ATATATATATAT	TTTTTATGTTGGGCCCA TGT	ATGCGCTTGACAAGAA TG TG	60.1	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 (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
Ca3_P3_6353414	Ca3	6353414	TTTTTTTATTT/TTTTTTTATTTTATT TT	ATTTTAGGCCGCGACA ACTA	TGGACATCCAGAAGGC TACC	59.7	427	INTERGENIC	--	--	--
Ca3_P3_6386934	Ca3	6386934	TGG/TGGG	TGTACGAGAAGGTCGT GTGC	GCCCAACAGCAAGCTA TTTC	59.9	574	INTRON	Ca_24834	--	Trihelix
Ca3_P3_6548012	Ca3	6548012	CT/CTT	TTATGCCGTTTGAGTT TCC	TTCAATTGCCTTGTTG CATA	59.9	615	INTERGENIC	--	--	--
Ca3_P3_656777	Ca3	656777	ATTCAATATTTCAA/ATTCAATATTTCAA TATTTCAA	CAATGAACAATGCAACC CAG	GAGGGAAATGGATGGT TTGA	60.0	384	INTERGENIC	--	--	--
Ca3_P3_6587330	Ca3	6587330	T/TA	TTGAAGGTTGCATGA ATGA	GGAGGTCGAAAATGAC CAAA	60.0	741	INTERGENIC	--	--	--
Ca3_P3_6621889	Ca3	6621889	AG/AGG	ATGATGGCCCCCTAAA ATTC	AATCCAATGACACAAA CGCA	60.0	573	INTERGENIC	--	--	--
Ca3_P3_6636800	Ca3	6636800	TG/T	ATTCCAAATGAGTCATC GGC	GTTGATCGGGCCACAA TATC	59.9	632	INTRON	Ca_25775	G	MYB_related
Ca3_P3_6663794	Ca3	6663794	TAAAAAAAAAAAA/TAAAAAAAAAAAA	AAGGCTCAACATGCAA AACC	AATGCCACCCATAAT TTCA	60.1	324	INTERGENIC	--	--	--
Ca3_P3_6687388	Ca3	6687388	ATTTTTTT/ATTTTTTT	GAACAATGTGGGCAGG AAGT	GTGGTTGCCAGGCTTC TTTA	60.0	563	DRR	Ca_25772	A	--
Ca3_P3_6694741	Ca3	6694741	TTCTCTCTCTCTCTCT/TTCTCTCTCT CTCTCTCTC	TTTGTACGTGAGACAA GGC	AATCGGTGTAGAGGCA ATGG	59.9	660	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_6721949	Ca3	6721949	CTTTTTTTTTTT/CTTTTTTTTTT	TGGTGAGGAAGGGACA ACTC	TAAAGGACCAAGTCG GAAA	60.1	637	INTERGENIC	--	--	--
Ca3_P3_6772905	Ca3	6772905	GTTT/GTT	TCCCTTTGTCTTTTCGC ACT	CAC TGCCGTTCTTCAC TTCA	59.9	383	DRR	Ca_16559	R	NAC
Ca3_P3_6774064	Ca3	6774064	T/TAA	TTTGCTGGACTTTGAAG CCT	CCC GGTCTAGAGAGA AAGA	60.0	640	DRR	Ca_16559	R	NAC
Ca3_P3_6780457	Ca3	6780457	A/ACAAT	GGATGCTTCGTTTGGT GTTT	TTTGAACCAAGATGCA GCAG	60.0	832	INTRON	Ca_16557	R	NAC
Ca3_P3_6790470	Ca3	6790470	T/TA	GGCTGGCTACTTAGGG ATCA	GAC TCGTCCAGCTTT TCAG	59.3	582	INTERGENIC	--	--	--
Ca3_P3_6820763	Ca3	6820763	CTTTTTTTT/CTTTTTTTTTT	GTG CAGTGAATCCGA TTTA	TTACGATGTTGTGGT GAGG	59.7	415	INTERGENIC	--	--	--
Ca3_P3_6821985	Ca3	6821985	TTATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATA	GCGTGATCCCAAGCTA CAAT	CATCTTTTAAGGTGCG GGTG	60.1	139	INTERGENIC	--	--	--
Ca3_P3_6838667	Ca3	6838667	AGCA/AGCAGGATCCAATGCAATGGCA	GGAACCCCACATCAT CATC	GCAGCCAATTTTGTG CATA	60.0	547	CDS (large-effect mutations)	Ca_16550	R	bHLH
Ca3_P3_6959714	Ca3	6959714	TCCCCC/TCCCC	GCAC TTTTGGTCCCC TATT	GATTCTAGTCTCTTGC GCCG	60.2	420	DRR	Ca_16543	--	G2-like
Ca3_P3_7076805	Ca3	7076805	C/CCCGAATGT	TCTTCGATTCCATTCCA ACC	TTGGGGGAGACGATAT TCTG	59.9	701	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 (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
Ca3_P3_7106684	Ca3	7106684	ANNNNNNNNN/ANNN	CATTGTGGGATTGG CTCT	CTATAGCGGCGGTATG GTGT	59.9	379	INTRON	Ca_16539	--	bHLH
Ca3_P3_7141941	Ca3	7141941	GATATATATATATATATA/GATATATA TATATATATATATA	ATGTGAATCCACCAG GAAA	GCGTAGAGCGCTGTA AAAG	60.2	474	INTERGENIC	--	--	--
Ca3_P3_7223058	Ca3	7223058	TA/TATACA	AGGTTATGTCGTCCGT CAGG	GCGTAGTGGGAGCTT GTAGG	60.0	767	INTERGENIC	--	--	--
Ca3_P3_7312652	Ca3	7312652	TAAAAAAAA/TAAAAAAAAA	CGCAAGATTTTACCTAC CTGTG	TGATCAAGCTTCCAGT CCAA	58.8	720	DRR	Ca_16529	--	LFY
Ca3_P3_7377309	Ca3	7377309	TAAAAA/TAAAAA	CATATTCGATCCCAA ACC	ACCTGCAACCCAACT CAAC	60.2	306	INTERGENIC	--	--	--
Ca3_P3_7474683	Ca3	7474683	CATAGAAAAATGTATAGAAAAATGTAT/ CATAGAAAAATGTAT	TACCAACAAAGCTCCCA ACC	GCAAGGTCCACCACTG AAAT	60.0	191	INTERGENIC	--	--	--
Ca3_P3_7580880	Ca3	7580880	TAAAAAAAA/TAAAAAAAAA	GTGGTTCGGAAAAGA TGAA	CCCATCCATTTCCCT ATCT	59.9	373	INTERGENIC	--	--	--
Ca3_P3_7773838	Ca3	7773838	AATATATATATATAT/AATATATATAT ATAT	CATGCGAGTTGTAACA CCCT	CGTGCACTTAATAT CAGTCAAGTG	58.7	365	INTERGENIC	--	--	--
Ca3_P3_7922530	Ca3	7922530	TTATATATATATATATAT/TTATATAT ATATATATAT	AGGAAGAGTGGAGTTG CGAA	TATTTGGATTTTGCCT CGG	60.0	504	INTERGENIC	--	--	--
Ca3_P3_7959750	Ca3	7959750	TTAATTTGATTATGTTAAGTAATTTGAT TATGTTAA/TTAATTTGATTATGTTAAGT AATTTGATTATGTTAAGTAATTTGATT TGTTAA	TTGGCATAGGTCATGG AAGTT	TTTGCCAATGTTGCTA GCTG	59.4	848	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
Ca3_P3_799026	Ca3	799026	AACACACA/AACACA	TTGCAGCCACATTGTT TGT	TCCTTTGTGCTACCATT CCA	60.2	592	INTERGENIC	--	--	--
Ca3_P3_8245494	Ca3	8245494	TCT/TCTTCTGCT	TGCGCCTCTTCTAAAT CGT	TATCGCAATCAGAGGA ACCC	60.0	670	INTERGENIC	--	--	--
Ca3_P3_8393314	Ca3	8393314	GTATATATATATATATATAT/GTATATAT ATATATATATATATAT	GTTGGTTCCTAGCAC CGTA	TATTTTGGATTTTGCT CGG	60.0	602	INTERGENIC	--	--	--
Ca3_P3_8443852	Ca3	8443852	AATATATATATATATATATATATATAT/A ATATATATATATATATATATATATATA T	ACCGTAGCATGGAAAG TTGG	ATGCGACTTGGGAATT TGAG	60.0	699	INTERGENIC	--	--	--
Ca3_P3_8523296	Ca3	8523296	ATTTTTTTTT/ATTTTTTTTT	CACATGACAAAATGGT GGAA	CGTTAAGGCACATCTC ACTCC	59.3	508	INTERGENIC	--	--	--
Ca3_P3_8535141	Ca3	8535141	ATTTTTTTTT/ATTTTTTTTT	GGACAAAGCCTAATGG TGGA	AATGGATTTGGCACAA AAGG	59.9	589	INTERGENIC	--	--	--
Ca3_P3_8535668	Ca3	8535668	TA/TAAAA	AACCTGCACTTCCTTTG ACG	TTGGTCTTCTGTTCTT GGCA	60.3	586	INTERGENIC	--	--	--
Ca3_P3_8563440	Ca3	8563440	CATATATATATATATATATATATATAT/CA TATATATATATATATATATA	ATCTTGGCAACGGCTA AAAA	AGAGCAAAATGGAGGC AAGA	59.7	527	INTERGENIC	--	--	--
Ca3_P3_8602266	Ca3	8602266	AATATATATATATA/AATATATATATATA TA	GCTCAACAGAGACCAC CACA	CGTATTCGTGTGTGAA AGCG	59.9	835	INTERGENIC	--	--	--
Ca3_P3_8716119	Ca3	8716119	AATATATATATATATATATATATATATAT ATATATATATATATAT/AATATATATATA TATATATATATATATATATATATATATAT ATATATATATAT	ACGGCAATCATTGAAG TTGA	AAAAACCACAAACAC GAAAAA	59.1	316	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 (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
Ca3_P3_8756604	Ca3	8756604	CT/CTGTTTTAAAT	TGGGTTGGAACACTTC ATCA	ATTCAAGCATTTCGATG GAGG	59.9	249	INTERGENIC	--	--	--
Ca3_P3_8775439	Ca3	8775439	GTATATATATATATATATATATATAT ATATATAT/GTATATATATATATATAT ATATATATATATATATATAT	AGTCGCATCTTCGTCG TTTC	GGCATCGGGAGTCTGT TTTA	60.4	537	INTERGENIC	--	--	--
Ca3_P3_8826227	Ca3	8826227	CAAAAAAAAA/CAAAAAAAAA	CTTGCGTTGGAATGA AGTT	TATACACGGAACGAAA GCCC	60.1	589	INTERGENIC	--	--	--
Ca3_P3_8942193	Ca3	8942193	AT/ATT	TGGGGA AAAACCTTA CCTT	CACATGATTTCAATTG GCTTTG	59.7	326	INTERGENIC	--	--	--
Ca3_P3_9092559	Ca3	9092559	AA/AACA	CATGTCCCAAAATATG CCC	TCTTTCAAGTGGGTG GGTC	60.0	304	INTERGENIC	--	--	--
Ca3_P3_9186815	Ca3	9186815	CTATATATATATATATATATATA/CTA TATATATATATATATATATATA	TCCACAAACACGATAAC ATTGA	TGTAACAAGCATTTGT CGGG	58.9	693	INTERGENIC	--	--	--
Ca3_P3_9289555	Ca3	9289555	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATAT	GAACCAAGTTCATGG GAAT	CCTAGGGACTTCGTGG TTGA	59.8	651	INTERGENIC	--	--	--
Ca3_P3_9291365	Ca3	9291365	CATATATATATATATATAT/CATATAT ATATATATATATATAT	TGTGTGGTGGTCAATT TGCT	CCCGATCTCAACTGT GGTT	60.0	654	INTERGENIC	--	--	--
Ca3_P3_939073	Ca3	939073	GTT/GTTTT	ATTGTTCTGCTCTGG GTTG	GGGACCACAGCACCTA TGTT	60.1	296	INTERGENIC	--	--	--
Ca3_P3_9396146	Ca3	9396146	CATATATATATATAT/CATATATATAT ATAT	TCAAAGCAAATCATGTC CCA	TTGTAGGGGGAGAGAT CGTG	60.0	757	DRR	Ca_20968	--	ERF

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
Ca3_P3_9399660	Ca3	9399660	ATTTT/ATTTT	CAACGGATAGAAACGA AAAGAAA	CGTGAAATGTGACCAT AAAAACA	59.7	683	INTERGENIC	--	--	--
Ca3_P3_9414969	Ca3	9414969	CATAT/CAT	TGTCTTGAGCATGCCTT GTC	CGTTCTCCATGCTGTT CTCA	60.0	372	INTERGENIC	--	--	--
Ca3_P3_9427257	Ca3	9427257	TTTA/T	CATGCGTTCCTTGTCG TAGA	GGCCTAAGATCATAGC AATTCAA	59.7	165	INTERGENIC	--	--	--
Ca3_P3_9500843	Ca3	9500843	CAATCGATTTC/CAATCGATTCCAAA TCGATTTC	CCCGTGAGATCCTCTC AACA	CATGCAGGAATTCAGC AAAA	60.1	498	INTERGENIC	--	--	--
Ca3_P3_9551898	Ca3	9551898	CAAAAAAA/CAAAAAAA	AGACTTGCTGATGCG TTTT	GTTGTGACTTCGACG GAAT	59.9	696	INTERGENIC	--	--	--
Ca3_P3_9577851	Ca3	9577851	TCCC/TAGGGAACCC	TTGCGTTCAAAGACTC GATG	TGAATTGCAGAATCCC ATGA	60.0	575	INTRON	Ca_20977	--	--
Ca3_P3_9651257	Ca3	9651257	CTTTTT/CTTTTT	CTCCAACTGGGGTGT CACT	CGGTCTCAACCTCTCC CATA	60.0	882	DRR	Ca_20979	--	--
Ca3_P3_9812322	Ca3	9812322	CT/C	CTCGTGTCTAGGGATG GGAA	CGAAAAGCGACAAAGA AAGG	60.1	528	INTERGENIC	--	--	--
Ca3_P3_9940820	Ca3	9940820	TCAATTGCAATT/TCAATT	TCAGGGATTACCGCAT AAGG	CATTCTTCCACTAGGC ACGC	59.9	293	INTERGENIC	--	--	--
Ca3_P3_9953160	Ca3	9953160	GAAAAA/GAAAAAA	TGCCACGTTTCTATTTC CCT	ATCACGCCATAAGCAC CTTC	59.6	511	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
Ca4_P3_10033685	Ca4	10033685	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	CTAGTTCGTAACCCGT GCGT	AGGCATGGTGTGGAG TCAT	60.2	248	INTERGENIC	--	--	--
Ca4_P3_10108026	Ca4	10108026	GTAATAATAATAATAATAATAATAA T/GTAATAATAATAATAATAATAATA ATAAT	AACCGAATGAAATGAAA CGG	AAGCGCACAGGAAAAC CTTA	59.8	551	INTERGENIC	--	--	--
Ca4_P3_10173137	Ca4	10173137	ATTTTTTTT/ATTTTTTTT	CCC GTTATTTT GACGA AACA	TGT GTT GAGTGGTGGC ATTT	59.9	791	INTERGENIC	--	--	--
Ca4_P3_10215060	Ca4	10215060	AATATATATATATATATATATATAT/A ATATATATATATATATATAT	CTTG CACACAATTGCAA AGTC	CAAGGCCAAAGAGGTC AGAG	59.4	321	INTERGENIC	--	--	--
Ca4_P3_10233239	Ca4	10233239	GACAATTATTTGGTACAATTAT/GACAA TTATTTGGTACAATTATTTGGTACAATT AT	TGTCGGTTGTTGCTTG AAGA	ATACAATCATTTTCCCG CCA	60.4	403	INTERGENIC	--	--	--
Ca4_P3_10241994	Ca4	10241994	TAAAAAAAAA/TAAAAAAAAA	CCTGCACCATTTCTCTT GGT	TTTTCTGGTAACTCGG ACCC	60.1	649	INTERGENIC	--	--	--
Ca4_P3_10242563	Ca4	10242563	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATA TATAT	GGGTCCGAGTTACCAG AAAA	AAACCTGAAAACAACG GACG	59.0	802	INTERGENIC	--	--	--
Ca4_P3_10247608	Ca4	10247608	CAATATTGTAAAATA/CAATATTGTAAA ATAATATTGTAAAATA	GAGTTAGGGTTGGTGA GGCA	TTTTTCACGTCGCATAA ATCT	60.1	236	INTERGENIC	--	--	--
Ca4_P3_10253630	Ca4	10253630	GAAAAAAAA/GAAAAAAAA	TGTGTTTGAATGGGCA AAAA	CTTCATTTAAACGCC CAAA	59.9	312	INTERGENIC	--	--	--
Ca4_P3_10261671	Ca4	10261671	ATTTTTT/ATTTTT	TGGATTTTGGACTTGG TCTTG	AACAACACGTGATTGG AATTGC	60.0	654	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
Ca4_P3_10270991	Ca4	10270991	ATATTATTATTATTATTATTATT/AT ATTATTATTATTATTATTATTATT	GTCAGTCCGGAGTAC CAAT	CCCTCTGCTGTTGTG AAAT	60.0	223	INTRON	Ca_08494	I	NF-YB
Ca4_P3_10330675	Ca4	10330675	GTTTTTTTT/GTTTTTTTTT	TGATTTGTGATGCACAT TTGG	TTGCATGAAAAATTGT GAATGAT	60.4	747	INTERGENIC	--	--	--
Ca4_P3_10439513	Ca4	10439513	GAAAAAAAA/GAAAAAAAA	CCTCTCTGCCTGAAGT GACC	GCAAGGATGCATTGA AACA	60.0	516	INTRON	Ca_04281	Z	--
Ca4_P3_10456572	Ca4	10456572	ATTTTTTT/ATTTTTT	ATCGATCAAACCCGT GAAG	CGTGTGGTAAGGGA ATCG	59.9	454	INTERGENIC	--	--	--
Ca4_P3_10466054	Ca4	10466054	CTTTTTTTTT/CTTTTTTTTTT	TGGCCTATGCATCAAC ACAT	TGCTGATTTGGGTTT TTCC	60.0	367	INTRON	Ca_04283	--	--
Ca4_P3_10612304	Ca4	10612304	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATT/TTTATTATTATTA TTATTATTATTATTATTATTATTATT	AATCACGCAACAAGT GTCG	AGCGACATAAATGGCT GCTA	59.8	408	INTERGENIC	--	--	--
Ca4_P3_10657750	Ca4	10657750	T/TCTAACACTCTTTCC	ATACAAAAACATTTGGG CCG	TTACATGAAGTGGCG AGAC	59.7	417	DRR	Ca_04301	--	--
Ca4_P3_10666722	Ca4	10666722	CTT/CTGTTGTTT	AACTCTGCCATTGAATT GGG	CTCGATGATCTGCCGT AACA	59.9	481	DRR	Ca_04303	--	STAT
Ca4_P3_10784287	Ca4	10784287	TAAAAAAAA/TAAAAAAAA	TGGGCCGAATTTGTG ATAG	CGCACATTGATACAT CAACAC	60.8	486	DRR	Ca_04314	U	--
Ca4_P3_10820773	Ca4	10820773	T/TAATA	GTTTACCACGCCGACA GTTT	TGGACAATCTTCTTGT GAGC	60.0	770	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
Ca4_P3_10828911	Ca4	10828911	AAAAAATTGATATTTAAAAATTGATATT AAAAAATTGATA/AAAAAATTGATATTTA AAAAATTGATATTTAAAAATTGATATTTA AAAAATTGATA	TGCTAGGAGGAAAGTT TTTGG	AGAATCATGTTTATGAT TGGAAATTA	58.5	629	INTERGENIC	--	--	--
Ca4_P3_10855427	Ca4	10855427	GTATATATATATATATATATATATATAT ATAT/GTATATATATATATATATATATAT ATATAT	AATTGTTGGCACCAGT CACA	GCAACACAAAAGCAA CCAA	60.0	773	INTERGENIC	--	--	--
Ca4_P3_11046179	Ca4	11046179	TAAATAAAATAAAA/TAAATAAAATAA AAATAAAATAAAA	CTCTCCGTTCCGATCTT CAG	TTTTTACGTACCACATC CATTATGA	59.9	454	INTERGENIC	--	--	--
Ca4_P3_11154234	Ca4	11154234	AATATATATATATATATATATATATAT ATATAT/AATATATATATATATATATATA TATATATATAT	TGCAAACTCGGGATTC CTTA	TTGGTATTCTTTTGAG GCATTG	60.6	823	INTERGENIC	--	--	--
Ca4_P3_11198337	Ca4	11198337	A/ATCTT	CTTTCAAACGACCTTC CAA	ATTCGTCAGCATTC CCTG	60.1	570	INTERGENIC	--	--	--
Ca4_P3_11209323	Ca4	11209323	TAAAAAAA/TAAAAAA	TTAGTGTTGAATTGACG GCG	CAATGCCTAGAATCAC GGGT	59.7	960	INTERGENIC	--	--	--
Ca4_P3_11209656	Ca4	11209656	GTATATA/GTATATATA	TTGGCTTAGGCTGACA TGAA	CAATGCCTAGAATCAC GGGT	59.4	217	INTERGENIC	--	--	--
Ca4_P3_11211716	Ca4	11211716	AC/ACTCCC	GGAACATGGAATGTTG GAGG	GCAAAGTGCATGAAAA GCAA	60.2	500	INTRON	Ca_04353	U	M-type
Ca4_P3_11216142	Ca4	11216142	CGAGA/CGA	GCATAACCAATGCTCTT GGAA	ATTAAGACACTGGCGC GAAG	60.1	523	DRR	Ca_04353	U	M-type
Ca4_P3_11216218	Ca4	11216218	TAAAAAAA/TAAAAAA	GCATAACCAATGCTCTT GGAA	TCAAACCAAGGATGAT GCAA	60.1	853	DRR	Ca_04353	U	M-type

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
Ca4_P3_11216741	Ca4	11216741	AC/A	TTGCATCATCCTTGGTT TGA	ACTGCATTCCGTCCAA AATC	60.0	229	INTERGENIC	--	--	--
Ca4_P3_11229115	Ca4	11229115	ATATTATTA/ATATTA	CCATGTAAGTGAGTGA AATCGG	GTGCACTTAGGCTTGC ATGA	59.5	702	INTRON	Ca_04355	G	--
Ca4_P3_11238142	Ca4	11238142	ATATTATTATTATTATTATT/ATATTATT ATTATTATT	CCCTTTGTCCTACAGT GAACG	TTCTTCCGGAACCATT ATAAAAA	59.6	327	DRR	Ca_04357	O	NAC
Ca4_P3_11240162	Ca4	11240162	G/GA	TTCAACATGGTCCATT CTTC	GGCAGCCGATATTTTG TCAT	59.8	623	INTRON	Ca_04357	O	NAC
Ca4_P3_11240985	Ca4	11240985	CCTTACTT/CCTT	ACAAAATATCGGCTGC CAAG	CCTCTCTCCTCTCGC TTTT	60.1	622	INTRON	Ca_04357	O	NAC
Ca4_P3_11255585	Ca4	11255585	T/TA	TCAGGTGGATCCGACA AAAT	ATACTCTTGGCTGCGC TGTT	60.3	385	INTRON	Ca_04358	R	--
Ca4_P3_11258051	Ca4	11258051	TAAAA/TAAAAA	GCAAATGCCTTGACG GTTT	CCCTTCCTTCAGGTCA TCAA	60.0	346	INTRON	Ca_04358	R	--
Ca4_P3_11263655	Ca4	11263655	CAAAA/CAAA	GCACGGGTAGGAGTTT GTGT	TGCACTCTCCAATCTC GTTG	60.0	414	INTERGENIC	--	--	--
Ca4_P3_11266524	Ca4	11266524	TTTCTT/TTT	ATGGCAATGAGGATGG TTGT	ACTCACAATGCTTAAC CGCC	60.2	440	INTERGENIC	--	--	--
Ca4_P3_11268024	Ca4	11268024	AAAGAA/AAA	TAGTGCCCTCCAAAAG GATG	GCGTTGAGGTGTCAAC TGTG	60.1	733	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 (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
Ca4_P3_11270494	Ca4	11270494	CATATAT/CATAT	TGTTGACAAACACAAAG ACCG	ATCCACCATCAATGCC ATCT	59.6	645	INTERGENIC	--	--	--
Ca4_P3_11273043	Ca4	11273043	TCAAATTCTCCA/TCA	TGATCTTCACCGAACTG CAC	ACCTCAGCAATATCAT CGGC	59.8	544	INTRON	Ca_04359	--	--
Ca4_P3_11273251	Ca4	11273251	A/ATATAT	CCCCTCATTCAAATTCT CCA	GTAACGTTGCGGATC ATCT	59.9	638	INTRON	Ca_04359	--	--
Ca4_P3_11281622	Ca4	11281622	TG/T	TTTAAGGCATGTGAGTT CAGC	TGCAAAATCAATACAT GGTTCG	58.0	641	DRR	Ca_04359	--	--
Ca4_P3_11291621	Ca4	11291621	ATTT/ATTTT	GATGAAAGTTTTTGGTG TGCC	AGCGCAGTGTTAACGT TCCT	59.5	946	INTERGENIC	--	--	--
Ca4_P3_11297413	Ca4	11297413	TGAA/T	AATTGCTTGTGCTGTTG TGAC	AATGAAGCCAACCCTG TGAC	59.9	662	INTERGENIC	--	--	--
Ca4_P3_11298187	Ca4	11298187	CTTTTTTTTTTT/CTTTTTTTTT	AAATGCTCCAAAAACCA ACG	ATTAAATGCCAGCAG TGGG	60.0	471	INTERGENIC	--	--	--
Ca4_P3_11300403	Ca4	11300403	ATATTATT/ATATT	GTGTTACTTCGCCGT TGAT	TGTCAGTTGTTTCAT GCTGC	60.0	185	INTERGENIC	--	--	--
Ca4_P3_11306565	Ca4	11306565	TG/TGG	ACCATAAGTGACGAG TGCC	GTCAACCATGGATT TGCC	60.0	453	DRR	Ca_04362	--	--
Ca4_P3_11311023	Ca4	11311023	CATTATTATTATTATTAT/CATTATT ATTATTATTATTAT	ATGTTTATGTCCGTCC CTC	GGCCAACCATCAACCA TATC	59.8	434	CDS (large-effect mutations)	Ca_04364	D	WRKY

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 (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
Ca4_P3_11311504	Ca4	11311504	A/ACAC	TGATGGTTGGCCTAAA TGGT	TTGCTGAAGACTGATG CCAC	60.2	463	DRR	Ca_04363	--	--
Ca4_P3_11317243	Ca4	11317243	ATCTCTCTCTCTCTC/ATCTCTCTCT CTCTC	CCTTCCACTGCCAAAA CATT	CAATTGGTCGGTTTCT GGTT	60.0	430	DRR	Ca_04364	D	WRKY
Ca4_P3_11318155	Ca4	11318155	ATTTTTTTTT/ATTTTTTT	ATTCTCATGGCAAGGG ATTG	TGCGTAATGGACCAAT TCAA	59.9	909	INTERGENIC	--	--	--
Ca4_P3_11322920	Ca4	11322920	AAGCTCCTCTTC/A	TCGATGGCATGATGAT TGTT	AAGAGGATTGGAGATA GGAGAGC	59.9	371	INTERGENIC	--	--	--
Ca4_P3_11323452	Ca4	11323452	CTTT/CT	AAGCTCTCCTATCTCCA ATCCTC	GAAATCCATCATTTCAA CCAAAA	59.4	559	DRR	Ca_04365	--	M-type
Ca4_P3_11323964	Ca4	11323964	GAA/GAAA	TTGGTTGAAATGATGG ATTTCCT	GGCCGTTGATTTGTTC TGTT	59.7	579	DRR	Ca_04365	--	M-type
Ca4_P3_11326193	Ca4	11326193	CATATATA/CATA	CACCTGGATTGTTGT GTGC	ATATTGGTCAAGCTGC TGGC	60.0	272	INTRON	Ca_04365	--	M-type
Ca4_P3_11330842	Ca4	11330842	G/GAA	CTTTGTAGACGAGGCC GAAG	CTTCCCCGAAAAACCA CTCT	60.0	402	DRR	Ca_04367	U	FAR1
Ca4_P3_11338339	Ca4	11338339	AAGA/AAGAGA	ACGGATAAAATGCCCA TTGA	ATTGGTGTGAGTGCTG TGGA	60.2	821	INTERGENIC	--	--	--
Ca4_P3_11344375	Ca4	11344375	TG/TGG	TGGAGGGAGGTTGGTA TTTG	AAGACAGAGGAGCACC AGGA	59.8	369	INTRON	Ca_04368	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 (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
Ca4_P3_11359837	Ca4	11359837	ACCC/ACC	TGTTGCGGTTGTATGG TGTC	TGACATTGGGGGATTC ATTT	60.4	455	INTERGENIC	--	--	--
Ca4_P3_11360175	Ca4	11360175	CTGATTTTG/CTGATTTTGATTTTG	AAATGAATCCCCCAATG TCA	TTATCAATCGAAAAAGA AACGC	60.0	212	INTERGENIC	--	--	--
Ca4_P3_11368276	Ca4	11368276	CG/C	TGATGAATTTTCATTCA CCAATC	TCCCAAGGTCAATTAG GCAG	58.8	116	INTERGENIC	--	--	--
Ca4_P3_11370815	Ca4	11370815	TAAA/TAAAAA	GAGATGGTGAAATCCA ACGC	AGGGAGGGGATGAGA GAAAA	60.5	641	INTERGENIC	--	--	--
Ca4_P3_11372269	Ca4	11372269	TGGGG/TGGGGG	CTTATGCCGCACAATG AAAA	CTCAATCACCCCATTC TCGT	59.7	670	INTERGENIC	--	--	--
Ca4_P3_11376038	Ca4	11376038	CAATTTTTAATTTTT/CAATTTTTAAT TTTTTAATTTTT	GCCACCACCAACACT AAAT	GCCCCTCACTTCAACA CAGT	59.7	844	INTERGENIC	--	--	--
Ca4_P3_11399144	Ca4	11399144	TTA/T	CGGAATTGATGGTTGA AAGG	ATGCAACCGCTTCAAT TTTT	60.3	743	INTERGENIC	--	--	--
Ca4_P3_11411081	Ca4	11411081	AGG/AGGG	GGGTGAGACCAGGACG ACTA	TGGCAAGTACGATTTT CAACTG	60.1	543	INTRON	Ca_04375	--	bZIP
Ca4_P3_11415027	Ca4	11415027	A/AG	CACGTGGCACATTGTC ACTA	AACAACGACTCCGAA CATC	59.2	545	INTERGENIC	--	--	--
Ca4_P3_11416261	Ca4	11416261	TAAA/TAA	TGTGTCCGAATAACG AAAA	GCCATTGTTAACGGTG GTTT	59.0	711	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 (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
Ca4_P3_11424676	Ca4	11424676	CTGTT/CTGTTGTT	TCTGCCGGAAGAATTA CCAC	CAGCACAGCACCTAGC AGAG	60.1	422	DRR	Ca_04377	D	--
Ca4_P3_11434874	Ca4	11434874	AATTTTAGATTTT/AATTTTAGATTTTAG ATTTT	TTTTCCGTCCACTCCT TTG	CCGGTCTTCCAATGTC AACT	60.1	368	INTRON	Ca_04378	S	--
Ca4_P3_11450457	Ca4	11450457	AA/AACACTTA	GGGGAGGCCTTAAGTA GTGG	CATGGTTGCTTGACCT TGAA	60.0	363	INTERGENIC	--	--	--
Ca4_P3_11451772	Ca4	11451772	TGTAA/T	TGACGGATACTCCAAC ACCA	CAAAACCCACCAGATCC AACT	60.0	845	INTRON	Ca_04381	--	--
Ca4_P3_11452051	Ca4	11452051	AG/AGG	TGGTGGTTTTGCTTTG GTAA	GCAACACGAAGCTGAA AACA	59.1	913	INTRON	Ca_04381	--	--
Ca4_P3_11452126	Ca4	11452126	AATATATATATA/AATATATATATATA	GGAATCAAACCTCTCCG GATCT	GCAACACGAAGCTGAA AACA	59.5	398	INTRON	Ca_04381	--	--
Ca4_P3_11452533	Ca4	11452533	TGAGA/TGAGAGA	TGTTTTCAGCTTCGTGT TGC	CCATACTACCTCTGCC CACC	60.0	324	DRR	Ca_04381	--	--
Ca4_P3_11453272	Ca4	11453272	ACC/AC	AAAGTTTAGTCAGCTGA AATCGC	TGTCTTCGTGCAAAAT GGAG	59.1	273	DRR	Ca_04381	--	--
Ca4_P3_11454920	Ca4	11454920	TCC/TCCC	AGAAAAACATAACGCG GTGG	TGGAACCTCGTCTTGG AAG	60.0	417	INTERGENIC	--	--	--
Ca4_P3_11471153	Ca4	11471153	CAAA/CAAAA	TTCGATTGTTCAAACCT ATTCAA	TTGGCCATCGTTTGAA TTTT	59.6	787	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
Ca4_P3_11472631	Ca4	11472631	AC/A	TTTCTTGTCCTCGGT TGG	TTGTGTCATGTTACGC ACTG	60.2	632	INTERGENIC	--	--	--
Ca4_P3_11476079	Ca4	11476079	GAA/GAATAAATAA	AACCTCATGCAATGACA CCA	GATCGGCTTCATGGTT TTGT	60.0	329	INTERGENIC	--	--	--
Ca4_P3_11494600	Ca4	11494600	ATAAATTTAAATTTAAATTTA/ATAAATT TAAATTTA	CAGGTTTTCTCTCTCGC ACC	CAACACAACCCGTGAA CATC	60.0	398	INTERGENIC	--	--	--
Ca4_P3_11507043	Ca4	11507043	ATTT/ATTTT	TTATCCCATGCATAGAT CCG	TTATGGCAAGAATAGT TTTATCATTTT	58.4	796	INTERGENIC	--	--	--
Ca4_P3_11512594	Ca4	11512594	TA/TAA	AATCCAAAGTGGCGTG TTTC	TCATTCGTGTGTTGCA AAAGT	60.0	581	INTERGENIC	--	--	--
Ca4_P3_11513722	Ca4	11513722	CTGATATTT/CT	AAAGGAATGTCGAAGC TCCA	CCAGCCCATTACATAA ATCCA	59.8	489	INTERGENIC	--	--	--
Ca4_P3_11514646	Ca4	11514646	AT/ATT	AAGAGTTGAAACTCGG CGAA	AAGCCACATTTTGGGT CAAG	60.0	700	INTERGENIC	--	--	--
Ca4_P3_11519668	Ca4	11519668	CTATTAT/CTAT	TCAGGCAAACAAGCAG ACAC	ATGGTTGGTTCGGAGA CTTG	60.0	381	INTERGENIC	--	--	--
Ca4_P3_11534681	Ca4	11534681	ATTTTT/ATTTTTTT	TTTTTGGGGCTTTAATA CCG	TAAGGCCCAAGAGAAA AGGG	59.0	685	INTERGENIC	--	--	--
Ca4_P3_11537100	Ca4	11537100	CTATA/CTATATATA	TCAATCTCCCGTTTAAT GGTTT	CACGCTTATGCAGACG AAAA	59.7	206	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
Ca4_P3_11539392	Ca4	11539392	TATATGA	TGCGGTTTTCACAAAT GAC	CAACGGTTCATGATCC AATCT	59.6	192	INTERGENIC	--	--	--
Ca4_P3_11543619	Ca4	11543619	AAATAACTG/AAATAACTGTATAATAAC TG	CACAGTTCGAGTTGGT GCAT	TGGTGATTATGGTTCT TTTGA	59.8	224	INTERGENIC	--	--	--
Ca4_P3_11544381	Ca4	11544381	C/CGA	AAGGGAAAGATGGAGA CCAA	AATCGATGGCAAGGAA TCTG	58.6	534	INTERGENIC	--	--	--
Ca4_P3_11547482	Ca4	11547482	ATTTTTTTTT/ATTTTT	TCCCCAAGCCTACAAA CAAC	TGTTTCATCGCAGATCC TTTCT	60.0	552	INTERGENIC	--	--	--
Ca4_P3_11547604	Ca4	11547604	TCC/TC	TCCCCAAGCCTACAAA CAAC	TGTTTCATCGCAGATCC TTTCT	60.0	552	INTERGENIC	--	--	--
Ca4_P3_11549653	Ca4	11549653	TAA/TAAAA	AAATTCGTAAAGGTCCA CCG	CCAACGGTGTGCATAA TGAG	58.9	729	INTERGENIC	--	--	--
Ca4_P3_11550574	Ca4	11550574	AT/ATTTAATTT	CTCATTATGCACACCGT TGG	CCCCAAAATGTTATGC CCTA	60.0	809	INTERGENIC	--	--	--
Ca4_P3_11551467	Ca4	11551467	TTTTTTTAATTTTTTTA/TTTTTTTTTA	ATCCAAAAGCCCCCAAT AAC	TCACTGTTGCATCTCC AAGC	60.0	844	INTERGENIC	--	--	--
Ca4_P3_11552635	Ca4	11552635	AG/A	ATGGGGTGCCATACTC CATA	TGCGTTTCGATGATAA CCAA	60.0	563	INTRON	Ca_04385	K	Trihelix
Ca4_P3_11555971	Ca4	11555971	CATATATATAT/CATATAT	CATTATTGGATTGCTTG GGG	GGGTGATAGATTCTTG ATGCAAT	60.0	362	DRR	Ca_04385	K	Trihelix

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 (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
Ca4_P3_11576043	Ca4	11576043	CAAAAAAAAA/CAAAAAAAAA	TCCTCAGATCTCCACAT CCC	CTCAGGTGGTGGAGTT GGAT	60.0	327	INTRON	Ca_04386	K	Trihelix
Ca4_P3_11635720	Ca4	11635720	CTTCCCCATTCCCCA/CTTCCCCA	TCTGCATTTGTTTGCTG AGG	AAAGCCGCATTTTAGA AGCA	60.0	500	INTERGENIC	--	--	--
Ca4_P3_1169667	Ca4	1169667	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTAT/TTTATTATTAT TATTTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTAT	TTTTAGCCCCGTTTTGT TCA	TAAGGTGCCGACATC AGATT	60.5	701	DRR	Ca_07748	OU	--
Ca4_P3_11713997	Ca4	11713997	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATATA TATATAT	AATTTATCCCAAAGGCA CCA	TGGCGTTCTAAATTGC CAGT	59.3	603	INTERGENIC	--	--	--
Ca4_P3_11769762	Ca4	11769762	TA/T	TCCATAGTGGAGATGC GACA	GGAACATGCGAATCAC AAAA	60.2	666	INTERGENIC	--	--	--
Ca4_P3_11785607	Ca4	11785607	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GGATATGAGTGGGCAC GAAC	GAGCGTGAGAACACG ATCA	60.3	588	INTERGENIC	--	--	--
Ca4_P3_11797493	Ca4	11797493	TTTATTATTATTATTATTATTATTAT TATTATTATTATTA/TTTATTATTATTATT ATTATTATTATTATTATTATTA	TCTGAACGTCATTTCAC CGA	TGTTACCAACTTGTTT GTTGTT	60.2	935	INTERGENIC	--	--	--
Ca4_P3_11818956	Ca4	11818956	CAAA/CAAAA	CCAAAACATGAAAGCAA CAAAA	TAACATTGATGGCAGA GGCA	60.0	170	INTERGENIC	--	--	--
Ca4_P3_11913229	Ca4	11913229	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATATA TATATATATATATATAT	CGAAAGAGGTTCAATT GTTGC	TTTCATGTTGTCGCGA TACG	59.7	358	INTERGENIC	--	--	--
Ca4_P3_11931582	Ca4	11931582	TGAAAAACAAGAAGAAAAACAA/TGAAA AACAAAGAAGAAAAACAAGAAGAAAAAC AA	CAAAGAACCTGTGACG AGCA	TTTAGTTAACGCAGGC ACCC	60.0	480	INTRON	Ca_04415	O	Trihelix

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
Ca4_P3_12050020	Ca4	12050020	T/TG	CCGAACAAATTTGCCA GAAA	GACCAAGTCACAAAGG GAAGA	57.9	793	INTERGENIC	--	--	--
Ca4_P3_12090377	Ca4	12090377	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT	ATTTGGTTCTGCGTTTG ACC	ACTAGGTTGGAGCATG AGGC	60.0	567	INTERGENIC	--	--	--
Ca4_P3_12127716	Ca4	12127716	AAATAATAATAATAATAATAATAAT/ AAATAATAATAATAATAATAAT	CATTCGGTGGACCTTT ACG	TGAAGAGACGAAGCTG CAAA	60.4	343	INTERGENIC	--	--	--
Ca4_P3_12136812	Ca4	12136812	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATATA TATAT	ACGCGGAGCTAAAATC TTGA	GGGGGAAGACCCATTA CAGT	60.0	880	INTERGENIC	--	--	--
Ca4_P3_12222188	Ca4	12222188	G/GT	TCATTATCACAAAGT GGC	TGTGAGTCGGTGTG ATT	59.5	521	INTERGENIC	--	--	--
Ca4_P3_12225286	Ca4	12225286	G/GAGTCTC	TCATGGAGGCAAGAA GGAG	TGACATGTGGATCGTG GTTT	60.3	724	DRR	Ca_04444	--	--
Ca4_P3_12265944	Ca4	12265944	ACTTCTTCTT/ACTTCTTCTTCTT	AAAAACATGGGGTGAA GCTG	TGCTGTTTTCAATGCC TCTG	60.0	874	CDS (large-effect mutations)	Ca_04450	Q	C2H2
Ca4_P3_12270457	Ca4	12270457	TCAGAC/TCAGACCAGAC	GGTCGTCGGTAGGGGT TTAT	GTGGAGAGTATGGGT GGGAA	60.1	552	INTRON	Ca_04451	--	C2H2
Ca4_P3_1237884	Ca4	1237884	AATATATATATATATATATATATA/AA TATATATATATATATATA	GTGGCTCTGGAACATCG TCCT	TTGAGTTGCAATATC GTTG	60.0	863	INTERGENIC	--	--	--
Ca4_P3_12393377	Ca4	12393377	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA AAAA	TGTGCTGTTGTGATTA GGGG	AGCGTTCAAGGTGCAA AAGT	59.6	659	DRR	Ca_04463	QI	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 (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
Ca4_P3_12478630	Ca4	12478630	ATTTTT/ATTTTTTT	TCTTTCACACCAACCAC CAA	CACTTATGATGCCCAA GGGT	60.0	789	INTERGENIC	--	--	--
Ca4_P3_12479687	Ca4	12479687	GA/GAA	GATGCCCCACAACCAC TACT	CGAGACCAAGAAACGG AAAA	59.9	164	INTERGENIC	--	--	--
Ca4_P3_12482146	Ca4	12482146	GTTT/GTT	GGGCACTAAAAACAG CATT	TGCACATTCGTATCTT CCCA	60.0	234	INTERGENIC	--	--	--
Ca4_P3_12490666	Ca4	12490666	TGTAGTAGTAGTAGTAGTAGTAGT A/TGTAGTAGTAGTAGTAGTAGTAGTA GTAGTAGTAGTAGTAGTAGTA	GGAATATGGCAGCAGA CGAT	GCCTGCATATGGCTAA GAGC	60.1	734	DRR	Ca_04472	R	NAC
Ca4_P3_12493651	Ca4	12493651	ATTTTT/ATTTTTTTT	ATTCTCTGTCGGTTTTT AGA	TTTTTCTTCTGATTG GTCC	59.7	293	DRR	Ca_04473	--	--
Ca4_P3_12506839	Ca4	12506839	CGG/CG	ATGTGCTTTCTGGGCT GTCT	CCGCTTGTTGTGTGTA GGAG	59.9	270	INTERGENIC	--	--	--
Ca4_P3_12510823	Ca4	12510823	TTATATATATATATA/TTATATATATATA	TTAGCGGTAAAATTCAC GCA	CATCATCGCAACAAG ATGG	59.4	467	INTERGENIC	--	--	--
Ca4_P3_12512980	Ca4	12512980	CACAATT/C	CATGCGCCTTCTTGCA TTAT	AAGGGTGTGAGGAAGT CACG	61.1	261	INTERGENIC	--	--	--
Ca4_P3_12520618	Ca4	12520618	AATATATATATAT/AATATATATATAT ATAT	TCAAAGCTGCATTTTGT TGC	TTCGTATGCTATGCAC GCTC	60.0	441	INTERGENIC	--	--	--
Ca4_P3_12528995	Ca4	12528995	CTTTT/CTTT	TAACGCTAGGGTCCCA TGTC	TCGTTTTGATCATTTAT CGTTTTT	60.0	720	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 (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
Ca4_P3_12529201	Ca4	12529201	TAAAAAAAAA/TAAAAAAAAA	CATGGCTCCAAGAAGC TTAA	TTCGTTTGTATCATTTA TCGTTT	59.5	527	INTERGENIC	--	--	--
Ca4_P3_12531241	Ca4	12531241	CTTTTT/CTTTTTTT	CCTCAACCTGACCCAG TTGT	AATTTCAAGGCCATGT GAGG	60.0	944	INTRON	Ca_04476	--	--
Ca4_P3_12531515	Ca4	12531515	ATT/ATT	TTTGCTTCCAATTGGGT GAT	AATTTCAAGGCCATGT GAGG	60.3	712	INTRON	Ca_04476	--	--
Ca4_P3_12532996	Ca4	12532996	C/CA	ATGAATTGATGAGCAG GGC	GTTCCAGTTGCCCTGT GTTT	60.0	349	DRR	Ca_04477	K	MYB
Ca4_P3_12535193	Ca4	12535193	GAAAAAAAA/GAAAAA	CGAAGCCTGCAACTTT ACC	CCAAACATGCAGGTT CTCT	59.9	231	DRR	Ca_04476	--	--
Ca4_P3_12545942	Ca4	12545942	GTTTTTTTTTT/GTTTTTTTTT	GTCATTTCTTCCCTG ACA	CATTTTGGACAACCGA TTGTTT	59.9	444	INTERGENIC	--	--	--
Ca4_P3_12548954	Ca4	12548954	TAAAA/TAAAAA	AAGCATGCGAATGTATT ACTGC	CATGAGGGCTTAAACA AGGAA	59.3	487	INTERGENIC	--	--	--
Ca4_P3_12551844	Ca4	12551844	TGA/TGATGAAGA	CCATTCCTTTGCAAACC TGT	CCAATCAAAGCAGGTT GGTT	60.0	472	INTERGENIC	--	--	--
Ca4_P3_12570942	Ca4	12570942	T/TC	GGCTCACATCAGGAAT GGAT	CACCAGATCCCAATT GCTT	59.9	654	DRR	Ca_04479	E	--
Ca4_P3_12571013	Ca4	12571013	GTATATA/GTATA	GGCTCACATCAGGAAT GGAT	GGCTCTTGGTCATTGG ATGT	59.9	968	DRR	Ca_04479	E	--

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 (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
Ca4_P3_12571781	Ca4	12571781	ACCCC/ACCCCC	ACATCCAATGACCAAGA GCC	CCACTTTCGGAACAAT TTTGA	59.9	394	INTERGENIC	--	--	--
Ca4_P3_12577562	Ca4	12577562	T/TC	TCTGTCAGCCAATGCA CTTC	CAGGAATGCCAAAACC AAAT	60.0	409	INTRON	Ca_04480	L	--
Ca4_P3_12582939	Ca4	12582939	TTAATATAA/TTAA	CAAGCTTGACCTGGG GTGT	CCGAAAAGCATCACT GGTT	60.0	503	INTRON	Ca_04480	L	--
Ca4_P3_12584518	Ca4	12584518	CTATG/CTATGTATG	GCCTGAATGCCCATGT ATCT	CAAGTGGATTGCACC AATG	59.9	536	DRR	Ca_04480	L	--
Ca4_P3_12588239	Ca4	12588239	ATTTTTTTTT/ATTTTTTTTT	ACAATTCGAAGATACC CCC	GATGTGGTCGTTGTCG AGTG	60.0	506	INTERGENIC	--	--	--
Ca4_P3_12593930	Ca4	12593930	AATATATAT/AATATATATAT	TCAACTTGTTTTGACAA GGGC	TCTCCCATAGCTGCAC ACTG	60.1	733	INTERGENIC	--	--	--
Ca4_P3_12604256	Ca4	12604256	G/GTCAATTTAGTCT	CCTTCTTAATGAAGCCG TGG	TTGAGAGAGAAAGAGG GACGA	59.7	149	INTERGENIC	--	--	--
Ca4_P3_12605516	Ca4	12605516	CAA/CAAAAAAAAA	GCTACGCAGTTCGTTTT ATTGA	CAACGGAGGTGAGAA GGGTA	59.5	827	INTERGENIC	--	--	--
Ca4_P3_12637168	Ca4	12637168	TAAAAAAAA/TAAAAAAAAA	GTGGCTGCATTGATAT GGTG	CAAAATCACTTCAGGT GCCA	60.0	697	DRR	Ca_04486	--	--
Ca4_P3_12674571	Ca4	12674571	TAAATAAAA/TAAATAAAAAATAAA AA	CCAACGTCCAGAAAAAT ACCA	GCAAAAGTTAAACGG AAGGG	59.8	620	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 (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
Ca4_P3_12832103	Ca4	12832103	GTT/GT	GCGTTTCCAATGGATG AAGT	ATGCCGAAAAAGACTG GTCA	59.9	203	DRR	Ca_04501	T	ARR-B
Ca4_P3_13159056	Ca4	13159056	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	GATCCAATGTGGTTTG ACCC	AGGCTAGATTGGGGT TTTG	60.0	454	INTERGENIC	--	--	--
Ca4_P3_13320887	Ca4	13320887	AATATATATATATATATATA/AATATA TATATATATATATATA	TATGCGCCTCAGCTTAT CCT	CCGAGGAAACAATTGG ATGT	60.0	600	INTERGENIC	--	--	--
Ca4_P3_13411051	Ca4	13411051	TGTTAGTTTTATATTAGTTAGTTTTATA TTAGTTAGTTTTAT/TGTTAGTTTTATAT TAGTTAGTTTTATATTAGTTAGTTTTAT ATTAGTTAGTTTTAT	ACATTGCGTCAAATCCA ACA	AAATCTCGGTGTTCTC CGAA	60.0	720	DRR	Ca_04562	R	HD-ZIP
Ca4_P3_13433311	Ca4	13433311	TA/T	CGAGCAAACACAATGA ATGG	TTGGTTGGTTCATTGG TTGA	60.1	569	INTERGENIC	--	--	--
Ca4_P3_13479788	Ca4	13479788	AT/ATTT	TCACACCCAAAATTCAA AGTACA	TGTGGCATAAACATTG GGAA	59.4	390	INTERGENIC	--	--	--
Ca4_P3_13480535	Ca4	13480535	TAAAAAAAAA/TAAAAAAAAA	TGAAAACATTCAACAA CCAAAA	TTAGGTGTGAGGGTGC ATGA	59.4	472	INTERGENIC	--	--	--
Ca4_P3_13509527	Ca4	13509527	ATTTT/ATTTTATAAAAATTTATTTT	CCTCTTCACGGTGCTC ATTT	CCTCGTTTTAAGCCCA ATCA	60.3	158	INTERGENIC	--	--	--
Ca4_P3_13546142	Ca4	13546142	TAAA/TAA	GAGATTCACGAAGACC GAGG	GCCAATGCTAATCTGC AACA	59.8	665	DRR	Ca_04571	T	--
Ca4_P3_13555112	Ca4	13555112	CTAGCTA/CTAGCTAATAGCTA	TCGTTTTGTGACATGG GAAC	CAGCCACATGCCAGTA GAAG	59.4	229	DRR	Ca_04572	--	--

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
Ca4_P3_13579808	Ca4	13579808	CAA/CAA	TTCCCAATTTTCTTTC AATTTT	GCACTCACGACTCAG AGAA	58.2	579	INTERGENIC	--	--	--
Ca4_P3_13579909	Ca4	13579909	ATTT/AT	TTCCCAATTTTCTTTC AATTTT	GCACTCACCAAGCAAT AGCA	58.2	666	INTERGENIC	--	--	--
Ca4_P3_13587853	Ca4	13587853	T/TA	CAATCCTTCATGCAACC AGT	AGCCAACCTTGCAAGT CCTA	58.6	808	INTRON	Ca_04577	--	HB-other
Ca4_P3_13589679	Ca4	13589679	TAAAAAAA/TAAAAAAA	GGGAGATGAGGCATGT GAAT	GAACCCCAATGAAATG TTGG	59.9	796	INTRON	Ca_04577	--	HB-other
Ca4_P3_13603773	Ca4	13603773	TAAAAAAA/TAAAAAAA	AGCAATAGCCACATTC GTCC	TGAACCAATAGCTTCG TGGA	60.1	368	INTERGENIC	--	--	--
Ca4_P3_13608282	Ca4	13608282	ATTTTTTTT/ATTTTTTTTTT	TCCTTGTCCAAAGGCCA ATC	CACATTTTGCAAGGTT CGTG	60.1	795	INTERGENIC	--	--	--
Ca4_P3_13614309	Ca4	13614309	C/CTCACCTG	CATTTGATTCGAGTGG CACA	GTGGTCGGTTTAAAGT CGTT	60.7	373	INTERGENIC	--	--	--
Ca4_P3_13615727	Ca4	13615727	ATTTTTTTTT/ATTTTTTTTTT	TGCTAGACTACCATGC CACG	GGGTAAGCTGATAGGG ACCG	59.9	665	INTERGENIC	--	--	--
Ca4_P3_13616063	Ca4	13616063	ATTTT/ATTTTT	TCACATTTTAAGTAAA GTGGAAAGA	CTTGGGATTGATGGCT TTGT	59.5	743	INTERGENIC	--	--	--
Ca4_P3_13617085	Ca4	13617085	CTTTTTTTTTTT/CTTTTTTTTTT	TGGGTTGTGTTTCAGAA GCAG	AAAAGCTGAAGAAAAG GCCG	59.9	436	DRR	Ca_04579	--	--

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 (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
Ca4_P3_13617448	Ca4	13617448	TG/TGG	GGGCCTTTTCTTCAGC TTTT	TGCATGTTATCCGCAA TCTC	59.8	713	DRR	Ca_04579	--	--
Ca4_P3_13626293	Ca4	13626293	TTAATA/TTA	TTTCAACTCGAGCATTG TGC	AGCACCTTAACCTCCA CCCC	60.0	374	INTERGENIC	--	--	--
Ca4_P3_13627308	Ca4	13627308	A/AT	TTGGCGTGAAAGACAA CATT	TGTTGGTGAGTTTTTC CACA	59.2	938	INTERGENIC	--	--	--
Ca4_P3_13629536	Ca4	13629536	TA/TAA	TGTGTGGATGAATGGT TCAAA	TTTTATTTCAGGCCGTT TGC	59.8	531	INTERGENIC	--	--	--
Ca4_P3_13630632	Ca4	13630632	AA/AAGAGTCTA	TATGCAGGCCCAACT CTCT	TTTTACAATCAATGCC CAA	59.8	370	INTERGENIC	--	--	--
Ca4_P3_13631062	Ca4	13631062	GCC/GC	TTGGGCATTGATTGTG AAAA	TCGCAACTCGTATAGG ACCA	59.9	271	INTERGENIC	--	--	--
Ca4_P3_13631101	Ca4	13631101	GTTTTTTTT/GTTTTTTTTT	TTGGGCATTGATTGTG AAAA	TCGCAACTCGTATAGG ACCA	59.9	271	INTERGENIC	--	--	--
Ca4_P3_13636270	Ca4	13636270	TAAA/TAA	CTTGGAATTGGACAC CTTT	ATTGACCCATTTCATTC CCA	60.0	570	DRR	Ca_04581	--	--
Ca4_P3_13637017	Ca4	13637017	GAAAA/GAAA	CATTGAACAATGGCAC AGG	GATCTGGAGACAGAGG CGAC	60.0	482	DRR	Ca_04581	--	--
Ca4_P3_13638865	Ca4	13638865	AC/ACC	GTCAGGCCAGACCGAT AAAA	GGTGAAAGGTGACGG GTAGA	60.1	231	DRR	Ca_04582	--	--

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
Ca4_P3_13643579	Ca4	13643579	GTTT/GTTT	ATAGTTGTTGAAGGGG CACG	TGAGCAAATTCATC AACTT	60.0	657	INTERGENIC	--	--	--
Ca4_P3_13643715	Ca4	13643715	GTT/GTTT	ATAGTTGTTGAAGGGG CACG	GGGTGAAGAATGTATG CCAAA	60.0	798	INTERGENIC	--	--	--
Ca4_P3_13643836	Ca4	13643836	ATTTTT/ATTTTTT	ATAGTTGTTGAAGGGG CACG	GGGTGAAGAATGTATG CCAAA	60.0	798	INTERGENIC	--	--	--
Ca4_P3_13655282	Ca4	13655282	TTATA/TTATAGGATATA	AATCACAAGGTCCAGT GGC	GGGCATGATTTTCCC CTAT	60.0	790	INTERGENIC	--	--	--
Ca4_P3_13657394	Ca4	13657394	CAAAAA/CAAAAAA	TCGTTTTCAACCATCA GTCA	TCTCCCAATGTATTG CTCA	59.2	823	INTERGENIC	--	--	--
Ca4_P3_13657824	Ca4	13657824	ATATT/AT	TGCATGCATGAATAGT GTTTGA	TCTCCCAATGTATTG CTCA	60.1	395	INTERGENIC	--	--	--
Ca4_P3_13661362	Ca4	13661362	T/TATTTA	TTCCTTCGTAAATGGC TTG	TTCTCTCCCGTCTGA GCTT	60.1	335	INTRON	Ca_04585	R	bHLH
Ca4_P3_13666161	Ca4	13666161	ACTG/ACTGCTG	CCCATTTCACCTCTTTG GAA	TTCCCGCAACAAATAG ATCC	59.9	840	CDS (large-effect mutations)	Ca_04586	Q	B3
Ca4_P3_13668027	Ca4	13668027	CAAATTAATT/CAAATTAATTAAATTAA TTA	TCCAAGTTCCAAGGAT GAGC	TGTTGATGCGACTGGT TTTT	60.2	289	DRR	Ca_04586	Q	B3
Ca4_P3_13671186	Ca4	13671186	TCAA/T	CGTCCATTGTGGTTAT GCTC	TTCTAAAAAGTTAAAC CGGCA	59.0	685	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
Ca4_P3_13674173	Ca4	13674173	TAAAAAAAAAAAAAAAAA/TAAAAAAAAAA A	AACCCCTTCGAGTTGTT CCT	TTGCTGACAGACACGA GACC	60.0	479	DRR	Ca_04587	Q	B3
Ca4_P3_13675043	Ca4	13675043	CAAA/CAAAAA	CGACGAATTCCTTCAA CAT	GTGGGGGATTGTGAG AGAAA	59.9	459	DRR	Ca_04587	Q	B3
Ca4_P3_13676728	Ca4	13676728	AATATAT/AATAT	CCACTTGTTGGAAGCGT GAT	TGACAAAATGTTTCATG GAAGAAA	59.7	775	DRR	Ca_04588	E	--
Ca4_P3_13678246	Ca4	13678246	C/CT	CCGACGAATTCCTTCA AAA	TGTTTCGAGTCGGTGAG ACAG	60.0	583	DRR	Ca_04588	E	--
Ca4_P3_13682163	Ca4	13682163	TAAAAAAAA/TAAAAAAAA	GGCGTCATAAGTAGGG TGGA	CACCTCTTATTTTCTC TCCGA	60.0	479	INTERGENIC	--	--	--
Ca4_P3_13687679	Ca4	13687679	CAGTTTAGTTTAGTTTAGTTA/CAGTT TAGTTTAGTTTA	TGGACTCGGTATCAAC CACA	GACGAGCTGCGGTATT CTTC	60.0	248	INTRON	Ca_04589	--	--
Ca4_P3_13692284	Ca4	13692284	ATTTTTTTTT/ATTTTTTTTT	TATTGGATGTGTTGGA GCGA	CGGAATATTATGTCCC GAGTTC	60.1	175	INTERGENIC	--	--	--
Ca4_P3_13693484	Ca4	13693484	ATTTTTTTTT/ATTTTTTTTT	TCGAAGCTAGATCGGG AAGA	TGAAGGACAGTGTCGG TGAA	60.1	974	DRR	Ca_04590	--	--
Ca4_P3_13700242	Ca4	13700242	GCC/GC	ATTTGTTTCCCAACCC TCC	CCTGTTGGTGCCCTTT AGAA	60.0	863	INTRON	Ca_04591	--	--
Ca4_P3_13700589	Ca4	13700589	GATATATATATA/GATATATATATA TA	CCAAATCCCAATCAGC ATC	GCCCATACGCCTCTTA ACAA	60.3	825	INTRON	Ca_04591	--	--

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
Ca4_P3_13700936	Ca4	13700936	AT/ATT	TCCGATAGAAATGGGA CAGC	TTTGCCTTGTAAC TTG GGG	60.0	463	INTRON	Ca_04591	--	--
Ca4_P3_13706359	Ca4	13706359	TAAAAAAA/TAAAAAA	GATGGCTTAGTGGTGG AGGA	TTGAAGGCTATAAGCC CCCT	60.1	479	INTRON	Ca_04592	R	--
Ca4_P3_13708395	Ca4	13708395	CAAA/CAA	TTGGAGGACCAAACT GGAG	GGCTTGACAATTTTG TGTG	60.1	795	INTRON	Ca_04592	R	--
Ca4_P3_13710634	Ca4	13710634	CAAAAAAA/CAAAAAAA	GCTCCAATGTTGGAC CCTA	GGGTAAATGCTTGCG TGTT	59.9	855	DRR	Ca_04593	R	--
Ca4_P3_13712060	Ca4	13712060	AAAA/AAAAGAATTTCAAA	TAGCAAGAGATGTTGC GGTG	AGGAAATGAAGGAAAC GGGT	60.0	898	INTERGENIC	--	--	--
Ca4_P3_13712227	Ca4	13712227	GCC/GC	ATTGCCCCCTATCAA AAT	AGGAAATGAAGGAAAC GGGT	59.5	668	INTERGENIC	--	--	--
Ca4_P3_13721306	Ca4	13721306	CATATATATATAT/CATATATATAT	TCCTTGAAAAGGAAGC CAAA	TGGTTCAAGTTCCATG TCCA	59.8	190	DRR	Ca_04596	--	B3
Ca4_P3_13743876	Ca4	13743876	GAA/GAAGCATATGCAA	CTGGTTCATGCCCTA CAAT	TCAAAGCACTAGCCAC ATGC	59.8	740	DRR	Ca_04598	R	MYB_related
Ca4_P3_13749552	Ca4	13749552	AA/AAGA	TTGACTTCTCCTTGGTT GCC	TTTTTGTTGACATGAG GCCA	60.2	758	INTRON	Ca_04599	R	MIKC
Ca4_P3_13750930	Ca4	13750930	TTATA/TTATATATA	TGCCTTTTATAATTGAT TG TAGGTTG	TCGCTCACTCTTAC CTCCA	59.7	908	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
Ca4_P3_13751977	Ca4	13751977	TAAAAAAAA/TAAAAAAAAA	TTTGCATCTCATCAG AGC	CCTGATTGCAAGTTCA TCAA	60.0	890	INTERGENIC	--	--	--
Ca4_P3_13759058	Ca4	13759058	GAAAAAAAA/GAAAAAAAA	TTCTGCATACCCTGCAC AAG	AGGCATCATGTTTCG TTTC	59.9	695	INTRON	Ca_04600	--	NF-YB
Ca4_P3_13770606	Ca4	13770606	TCACA/T	AAGCACCCATCCTGAA ATTG	TTTACC GCGATAAAA ATCA	59.9	586	INTERGENIC	--	--	--
Ca4_P3_13770963	Ca4	13770963	TC/T	CCAACAATTAGGAGCC CTTTT	GGCCACTGAGCCACTG TATT	59.5	681	INTERGENIC	--	--	--
Ca4_P3_13771017	Ca4	13771017	TTAA/T	CCAACAATTAGGAGCC CTTTT	GGCCACTGAGCCACTG TATT	59.5	681	INTERGENIC	--	--	--
Ca4_P3_13775947	Ca4	13775947	TAA/TAAATTA AAAA	CCACGTGGGATGAAGA GATT	TACAGTGCATTTTG TG GGGA	59.9	616	INTERGENIC	--	--	--
Ca4_P3_13776143	Ca4	13776143	A/AG	AACTGTGCGGCCTAAA TAGC	GTATGGAGCCCAATT GGAA	59.4	201	INTERGENIC	--	--	--
Ca4_P3_13776936	Ca4	13776936	GTATATATATATA/GTATATATATA	TGTGTCTGCCCATGAG TGTT	ATATGCGGTTTCATCC TTGC	60.2	301	INTERGENIC	--	--	--
Ca4_P3_13777793	Ca4	13777793	CAGA/CAGAGA	ATTCCTTTTAACCCCA ATG	GAAAGGCTGCAGTGAT GGAT	59.9	741	INTERGENIC	--	--	--
Ca4_P3_13779676	Ca4	13779676	CTTTTTTTTT/CTTTTTTTTTTTTTTT	CATTTTTCTCGAAATGG GGA	ACCAGCCACATAAGCC AAAC	59.9	685	INTRON	Ca_04602	I	--

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 (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
Ca4_P3_13789143	Ca4	13789143	CAA/CAA	ATCCACCACTCAAAGTT GGC	TTGGTACGAAACATCC ATCAA	60.0	517	DRR	Ca_04603	Q	--
Ca4_P3_13792182	Ca4	13792182	T/TA	GGCAACATAGATCCTC TCACC	GCTCACTCCGTCAGGT TAGG	58.6	719	INTRON	Ca_04604	Q	--
Ca4_P3_13792300	Ca4	13792300	T/TTA	GGCAACATAGATCCTC TCACC	GCTCACTCCGTCAGGT TAGG	58.6	719	INTRON	Ca_04604	Q	--
Ca4_P3_13792402	Ca4	13792402	ATTAAAAATTTTAAAAATTT/ATTAAAAATT TT	GGCAACATAGATCCTC TCACC	GCTCACTCCGTCAGGT TAGG	58.6	719	INTRON	Ca_04604	Q	--
Ca4_P3_13793997	Ca4	13793997	GTA/G	CCAGCACCCGTTTTTAA TGT	AAATGTTGGGCTAGAC ATGGA	59.9	360	INTERGENIC	--	--	--
Ca4_P3_13796561	Ca4	13796561	TAAAAA/TAAAAA	CCGAAACAGGGTGGAA AGTA	ATCGACGATTATGCC TGTC	60.0	913	INTERGENIC	--	--	--
Ca4_P3_13798999	Ca4	13798999	CTAATTAAT/CTAAT	AATTCGGAAACCTCGT GTG	AACTCCATTGTGGATG ACCC	60.0	846	DRR	Ca_04605	R	--
Ca4_P3_13807289	Ca4	13807289	TAAAAA/TAAAAA	ACAAGAAAAGCACAGG CACC	TGATCAAAGCCGTCAT GTCT	60.3	576	INTERGENIC	--	--	--
Ca4_P3_13807671	Ca4	13807671	CAAAAAA/CAAAAAA	GCCACAACCTGGGTAGG TTTT	GGTTTCAACTCGAGTC GTGC	59.0	885	INTERGENIC	--	--	--
Ca4_P3_13808256	Ca4	13808256	TT/TATATTCT	TCGAGTTGAAACCCGA GAAA	CGGAGAAGTGAACGTG GAAT	60.7	525	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
Ca4_P3_13808549	Ca4	13808549	ATTTTTTTTT/ATTTTTTTTT	TCGAGTTGAAACCCGA GAAA	CGGAGAAGTGAACGTG GAAT	60.7	525	INTERGENIC	--	--	--
Ca4_P3_13810887	Ca4	13810887	TTGA/TTGAATGA	GATTAGGTGTTGCCTG ACGC	GCTGAGATGAAGGCAA AAATG	60.7	281	INTERGENIC	--	--	--
Ca4_P3_13825682	Ca4	13825682	ATTTTTTT/ATTTTTTTTT	AACTCAGATTCAACT CGGAAA	TCAAAGTGCAACAACC ACCT	59.3	595	INTERGENIC	--	--	--
Ca4_P3_13826117	Ca4	13826117	ATTTTT/ATTTTTT	AGGTGGTTGTTGCACT TTGA	CAAATTTGTTCCGCTT CACA	59.2	474	INTERGENIC	--	--	--
Ca4_P3_13826688	Ca4	13826688	ATT/AT	TGGAACATGTGAAGC GGAA	GTTGAGGAAAACGCAG GAAG	59.3	898	INTERGENIC	--	--	--
Ca4_P3_13827539	Ca4	13827539	GGTCTGTT/GGTCTGTTCTGTT	CTTCCTGCGTTTTCTCT AAC	GGAGTTTCGGTATGCT TTGC	59.9	635	INTERGENIC	--	--	--
Ca4_P3_13827753	Ca4	13827753	GTATATATATATA/GTATATATATATATA	CATGTCAGCAAAGCAT ACCG	CAATAGTGTTGCACG TGGG	60.3	542	INTERGENIC	--	--	--
Ca4_P3_13828480	Ca4	13828480	G/GT	GTGGGGTCAAGGCTTA ACAA	GCCTAGGCCATGTCCA ATAA	60.0	148	INTERGENIC	--	--	--
Ca4_P3_13828607	Ca4	13828607	TG/T	GTGGGGTCAAGGCTTA ACAA	ACACGTCACCTGCACA CACA	60.0	498	INTERGENIC	--	--	--
Ca4_P3_13829467	Ca4	13829467	AT/ATT	TGAGAATTTGCATGCCT CAC	AGCGAAGTGCTAGCAA CACA	59.8	671	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
Ca4_P3_13830386	Ca4	13830386	ACGATGAGTCGATGA/ACGATGA	CGCCTAAGTTAAGCCA ATCC	AGAACGGTGGTCATAC GAGG	58.9	661	INTERGENIC	--	--	--
Ca4_P3_13836175	Ca4	13836175	GAAAAAAAA/GAAAAAAAA	ATGCTTTATCTTTGGCC CCT	TTTGGTTTCCTTGCTT GTCC	59.9	719	DRR	Ca_04608	--	--
Ca4_P3_13836254	Ca4	13836254	TGAAAGAA/TGAAAGAGAAAGAA	CTGGTCCAACACCCA ACAC	TTTGGTTTCCTTGCTT GTCC	59.9	459	DRR	Ca_04608	--	--
Ca4_P3_13839771	Ca4	13839771	CTGCTGCTG/CTGCTGCTGTTGCTGCT G	CGCTGGAGAAGTTTCA CCTC	TTACAGATTCAAACG CAGC	60.0	526	CDS (large-effect mutations)	Ca_04608	--	--
Ca4_P3_13853886	Ca4	13853886	CAAAAA/CAAAAAA	TGGATTCATGCACGTTT TTC	CCTTCTTTCCCAAT GTTGA	59.5	770	INTERGENIC	--	--	--
Ca4_P3_13854087	Ca4	13854087	TAAAAAAAA/TAAAAAA	CGATCACTGACCATTAT ATGCAC	CCTTCTTTCCCAAT GTTGA	59.4	611	INTERGENIC	--	--	--
Ca4_P3_13856631	Ca4	13856631	TAAA/TAA	AACACACCAATTCGAA CCC	CCAACCAATAACTCC TATCG	59.7	388	INTERGENIC	--	--	--
Ca4_P3_13856659	Ca4	13856659	TAAAAAAAAA/TAAAAAAAAA	AACACACCAATTCGAA CCC	CCAACCAATAACTCC TATCG	59.7	388	INTERGENIC	--	--	--
Ca4_P3_13856903	Ca4	13856903	TCAATTGAA/T	AACACACCAATTCGAA CCC	CCAACCAATAACTCC TATCG	59.7	388	INTERGENIC	--	--	--
Ca4_P3_13857193	Ca4	13857193	ATTTTTTTTT/ATTTTTTTT	CGATAGGAGTTATTGG GTTGG	GAAAACAGCCGAGGAA CAGA	58.5	717	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 (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
Ca4_P3_13857943	Ca4	13857943	T/TG	TGTTTTCACTGTCCGTG CAT	GCAATGGGAGCAACGT AAAT	60.2	696	INTERGENIC	--	--	--
Ca4_P3_13861025	Ca4	13861025	GAAAAA/GAAA	CAATCGGACATGTATTC CCC	AATTTGCCCTCACAAT GGTC	60.0	421	DRR	Ca_04609	R	--
Ca4_P3_13865867	Ca4	13865867	ACAC/A	TGACAAACGGATCCTC AAAG	GTCTCCAGCAAGTGTC GTGA	58.7	548	INTRON	Ca_04610	R	--
Ca4_P3_13904337	Ca4	13904337	TAAAAAAA/TAAAAAAA	GCCACTTTTCATCGATG GTT	TGAAATCGGGACTTT GGTC	59.9	218	INTERGENIC	--	--	--
Ca4_P3_13905983	Ca4	13905983	GACACACACA/GACACACA	TGTATGCGGCTGTTGA GAAG	CGGGTTGAGGATTGAT CTGT	60.0	449	INTERGENIC	--	--	--
Ca4_P3_13908536	Ca4	13908536	TC/T	CTCCTCCGATGTCTGG AAAA	CGCGGTTGCTTCAATT CTAT	60.2	232	INTERGENIC	--	--	--
Ca4_P3_13909254	Ca4	13909254	CA/CAA	CATCACGATTGACGA GTTGA	AAAAACATGACTCCAA ACACCA	59.7	636	INTERGENIC	--	--	--
Ca4_P3_1405750	Ca4	1405750	CATATATATATATATATATA/CATATA TATATATATATATA	GGCCACGTGGAAGTAA CTGT	ATTTGGTGCCAAAGGA ATTG	60.0	432	INTERGENIC	--	--	--
Ca4_P3_14238993	Ca4	14238993	TTATATATATATA/TTATATATATA	TGCTTTACACAAGCAAG CCA	CGACAGAGACGAGGG AAGTC	60.6	170	DRR	Ca_04659	K	M-type
Ca4_P3_14280610	Ca4	14280610	AATATATATATATATATATATATAT /AATATATATATATATATATATATATA TAT	GTCTAAGGCTTGCTAC CCCC	AGAGGCTTCTCGTTGG GTTT	60.1	596	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 (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
Ca4_P3_1437324	Ca4	1437324	ATTTTTTTTT/ATTTTTTTTT	TTCGAAATTTGTGGTGC AAG	GATGGCAAGAGTCAAT TGAAGA	59.7	827	DRR	Ca_07772	D	bHLH
Ca4_P3_14397300	Ca4	14397300	GATATATATATATATATATGTATATA TATATATA/GATATATATATATATATA TATATATGTATATATATATATA	TAAATGCATGCTCCCC GAT	AACACATCCGGGATCC ATTA	60.4	273	INTERGENIC	--	--	--
Ca4_P3_14398861	Ca4	14398861	TCAACAACAA/TCAACAACAACAA	GGCAAGTACAAAGGC ATGT	GTTGCTGGAAGGCAGA GTTC	60.0	426	CDS (large-effect mutations)	Ca_05664	--	--
Ca4_P3_14405624	Ca4	14405624	ATGTTGTT/ATGTTGTTGTT	CGGTGGTTGCTCTCTC TTTC	GGGTACAATGTGGAA CCAA	60.0	440	DRR	Ca_05663	E	MYB
Ca4_P3_14405755	Ca4	14405755	ATCTCTCTCT/ATCTCTCT	ATGTGCATGCCAAGTT GTGT	ACCTATAAGCCCTTTG CGCT	60.0	963	DRR	Ca_05663	E	MYB
Ca4_P3_14406133	Ca4	14406133	CAAA/CAAAA	TTGGTTCCACATTGTAC CCC	CCATTGGTTGGGATAT GGAG	60.5	892	DRR	Ca_05663	E	MYB
Ca4_P3_14539491	Ca4	14539491	TTATATATATATATATATATATATA T/TTATATATATATATATATATATATA T	TTCTTTACAGGGACATG ATTGA	CTTGCTCATGCAAG CAAT	57.2	605	DRR	Ca_05648	--	--
Ca4_P3_14558930	Ca4	14558930	TATAATAATAATAATAATAAT/TATA ATAATAATAATAATAATAAT	AACTGTGTGCCCCG ATAG	GCCGAATCAAAATTC AAGA	60.0	384	INTERGENIC	--	--	--
Ca4_P3_14625891	Ca4	14625891	TTATATATATATATAT/TTATATATAT ATATATATAT	TGCTTGCTTGCTCA GACT	AAAAAGCATCATTTTC ACTGGA	59.9	415	INTERGENIC	--	--	--
Ca4_P3_14665183	Ca4	14665183	TTATATATATATATAT/TTATATATAT ATATAT	CGTGCCCTTTATTCTT AAGGT	TGTTATGCGTGTGGC ATT	58.8	735	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
Ca4_P3_14677950	Ca4	14677950	CAAAAAA/CAAAAAAA	TGTTGGGCAAAATAAT TGAGA	CAAACCTTACCACCGT CTTG	59.5	424	INTERGENIC	--	--	--
Ca4_P3_14836473	Ca4	14836473	GAAAAAAAAA/GAAAAAAAAA	TGAGACACGCTACAGC CATC	ATTCCCATCCACCCT TTTC	60.0	241	INTRON	Ca_05618	--	--
Ca4_P3_1491046	Ca4	1491046	AATATATATATATATATAT/AATATAT ATATATATATATATAT	GGCTGAATTGATTAAT TTGTCG	GAGTTGCAAGGGGAC CAATA	59.9	584	DRR	Ca_07779	--	WRKY
Ca4_P3_14928511	Ca4	14928511	CATAT/CATATAT	CGGGACATGCTATTAG GTGC	AAATTTGCCAATCCTT GTGC	60.5	246	INTERGENIC	--	--	--
Ca4_P3_14967549	Ca4	14967549	GTAATAATAATAATAATAATAATAA TAA/GTAATAATAATAATAATAATAA TAATAATAATAA	CAAAGTGCTTTTGTAAC CCC	CCGTTTGTGGGAC ATCT	59.5	899	INTERGENIC	--	--	--
Ca4_P3_14997131	Ca4	14997131	A/AC	CTAACGGGTACCGGTC AAAA	AGCCATTCAAGTTGTCG TGTG	59.9	311	INTERGENIC	--	--	--
Ca4_P3_15012755	Ca4	15012755	AATATATATATATATA/AATATATATATA TATATATA	TACTCCCAATGGCGA CTTC	GACATTCGAAGTTGA ATTTCCT	60.1	322	INTERGENIC	--	--	--
Ca4_P3_15014116	Ca4	15014116	TGGGGG/TGGGGGG	CTGCGTTGATGGACTC AGAA	ATCCGACACATTGCAC AAAA	60.0	325	INTERGENIC	--	--	--
Ca4_P3_15048181	Ca4	15048181	TA/TAA	CAAAGCTGTAAACACC CCGT	AATCGATTGATTCAGC CCAG	60.0	528	INTERGENIC	--	--	--
Ca4_P3_15095206	Ca4	15095206	TTATATATATATATATATAT/TTATAT ATATATATATATATAT	TGACCGCTAAGTTGTT GTGC	TTTTACCACTGCACAC GCAT	59.9	359	DRR	Ca_05591	D	LBD

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
Ca4_P3_15392307	Ca4	15392307	TA/TACACTAA	GGTCTCACCAACACTG TGGA	CGGTTTGGCGTCTTT ATGT	59.6	428	DRR	Ca_05557	R	B3
Ca4_P3_15438623	Ca4	15438623	ATTTTTTTT/ATTTTTTTT	CCGTGTTACAAACTTC ACCG	GACCATCAATTTACAC GGCA	60.4	682	INTERGENIC	--	--	--
Ca4_P3_15455600	Ca4	15455600	GTTTTTTTTT/GTTTTTTTTT	TTTCCCTCGATTCCCTT TTT	CATCTTGCCAAGTTTG GGTT	59.9	592	INTRON	Ca_05551	A	bHLH
Ca4_P3_15465052	Ca4	15465052	T/TG	GCAACTCATTCGTCCC ATTT	GGAAACGAAAAATTTG CAGC	59.9	712	INTERGENIC	--	--	--
Ca4_P3_15509140	Ca4	15509140	TAAAAAAAA/TAAAAAAAAA	GGTCCGTAATCAAAG CAAA	CCACGAAGATACTTC CCCA	59.9	525	INTERGENIC	--	--	--
Ca4_P3_1559727	Ca4	1559727	G/GT	CACCATGGCATTGTGA CTTG	GGAGATTGCACTGTTG CAGA	60.0	741	INTRON	Ca_07784	--	--
Ca4_P3_15607878	Ca4	15607878	GTTTTTTTTT/GTTTTTTTTT	AGAGATGAAACCTGAG AAATTCA	TGTTTTTCCACTAACCT AAAACG	57.1	681	INTERGENIC	--	--	--
Ca4_P3_15643039	Ca4	15643039	T/TTACTGTAGGGA	TGCACCGACAACTGA AGTC	ACGCGTGAGTTTGCTC ACTA	59.9	592	INTERGENIC	--	--	--
Ca4_P3_15780348	Ca4	15780348	TACACACACA/TACACACA	CAACTTTAAAAAGGACC AAATGAA	TTGTGCCACGACCAAT TAAA	59.8	537	INTERGENIC	--	--	--
Ca4_P3_15786146	Ca4	15786146	TA/T	AAAGAAGGAAGGGA TCGG	CTGGTGATGGCGTTAA TTTG	59.5	533	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 (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
Ca4_P3_15884633	Ca4	15884633	GAAAAAAAA/GAAAAAAAAA	TTGTGTGGCTTAGAAG GGCT	CCAGGCCGAGTAGGT GTCTA	59.9	449	INTERGENIC	--	--	--
Ca4_P3_15936441	Ca4	15936441	TCC/TC	AATTTTCCCCACAACC CAT	CACCAAAATCTCCCT CCAA	60.3	596	INTERGENIC	--	--	--
Ca4_P3_15988705	Ca4	15988705	CTAT/CT	GGTGCCAACCTCATTG AAAC	TGAACACTTGTGCGC TGTT	60.4	830	INTERGENIC	--	--	--
Ca4_P3_15989879	Ca4	15989879	TTAT/TT	TCATACACTTGTTTGAT ACACACTTTC	AGCTCGTTTGTGGAC AATCT	58.7	772	INTERGENIC	--	--	--
Ca4_P3_15998419	Ca4	15998419	G/GCTTAC	TTTTTCAAACCAAGGAA ACG	CCAATTACCAAGCT TCCAA	59.9	300	INTERGENIC	--	--	--
Ca4_P3_16051344	Ca4	16051344	CTG/CTGTG	GAGGCATGACTTCAAC AGCA	TGGAAAAGGCACCTGT CAGT	60.0	600	INTRON	Ca_05504	J	bHLH
Ca4_P3_16065224	Ca4	16065224	CCTCTC/CCTC	TCAATCACCTCACCTCA CCT	GGCGACTTCCATTGGA CTAA	58.1	310	INTERGENIC	--	--	--
Ca4_P3_16065708	Ca4	16065708	ACATCAT/ACAT	TTAGTCCAATGGAAGTC GCC	ATGCAAAACCTGCTT CATC	60.1	706	INTERGENIC	--	--	--
Ca4_P3_16067505	Ca4	16067505	CAAAAAAAAA/CAAAAAAAAA	GGCTAAATTAAACT GGTCCC	TACATCTGCGGCCCTT TAAC	60.1	572	INTERGENIC	--	--	--
Ca4_P3_16072660	Ca4	16072660	ATATTAT/ATATTATTAT	GTCACAGCTCTGATGC CAAA	GCGATACGGAGTGGA CATCT	60.0	787	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
Ca4_P3_16079766	Ca4	16079766	TAAAAAAAAA/TAAAAAAAAA	TGGCTACTTAAAGGGC CAAA	GAAAGGGATCACGTGA GGAA	59.7	916	INTERGENIC	--	--	--
Ca4_P3_16080327	Ca4	16080327	CTTTTTTTTTTT/CTTTTTTTTTTT	TTCCTCACGTGATCCCT TTC	ACAATTGCTCCAACGG TCAT	60.1	567	INTERGENIC	--	--	--
Ca4_P3_16099117	Ca4	16099117	TAAAAAA/TAAAAAA	TTCAATTCAAAATATA ACGGCA	AGGTGACGATTGGTG TTCC	58.6	398	DRR	Ca_05500	--	--
Ca4_P3_16146480	Ca4	16146480	CT/C	AAAGAAGCAGAGGAAG CGTG	GCAAACGTATGATGGG GACT	59.8	337	DRR	Ca_05497	I	bHLH
Ca4_P3_1615805	Ca4	1615805	AATATATATATATATATATATATAT ATATATATATATA/AATATATATATAT ATATATATATATATATATATATATA TA	CGGTTTGCAATGGA CAGA	AAGACATCCGATCAGC TTGC	59.5	731	INTERGENIC	--	--	--
Ca4_P3_16225256	Ca4	16225256	TTTATTATTATTATTAT/TTTATTAT ATTATTAT	GGTGAGTTGATGCTT TGGT	AGAAAACGATGGTACG GTGG	60.0	908	DRR	Ca_05490	--	--
Ca4_P3_16238878	Ca4	16238878	TTATATATATATATATATATATA/TTA TATATATATATATATATA	TGTTGTTGCGTTATTCC AGC	CACCCATCGTTCCCT CTTA	59.7	555	INTERGENIC	--	--	--
Ca4_P3_16278961	Ca4	16278961	CACCACTACCACTACCACTACCA/CAC CACTACCACTACCACTACCACTACCA	TCCCGTGAAAGTTTTCC ATC	ACACTCACACTCCCAC TCCC	59.9	778	CDS (large-effect mutations)	Ca_05487	K	CO-like
Ca4_P3_16298566	Ca4	16298566	AATATATATATATATATATATATAT ATATATATA/AATATATATATATATAT ATATATATATATATATATATATATA	AAAAACTGAGCACACAA TCATAAA	TCCCATTAAGACCCAT CAGC	57.9	562	INTERGENIC	--	--	--
Ca4_P3_16305794	Ca4	16305794	ATTTTTTTTTTT/ATTTTTTTTTTT	ACATGGTGTGAAAATC GGGT	CGGGGTATTACGTATT TGCG	60.1	544	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
Ca4_P3_16481759	Ca4	16481759	CA/CAAA	TCGAGACACCAACACC GTAA	AATTCGTCAAACCCAC AACC	60.2	732	INTERGENIC	--	--	--
Ca4_P3_16545258	Ca4	16545258	AATATATATATATATATAT/AATATAT ATATATATATAT	TTTGGGCTTACTTTTGT GAGAA	CAAAGAGTTACAACGA TGCGA	58.9	313	INTERGENIC	--	--	--
Ca4_P3_16605966	Ca4	16605966	TTATA/TTA	GGAATCAAATTCGAAG CCAA	CCTCTGACTCCGACG TAAC	60.0	364	INTERGENIC	--	--	--
Ca4_P3_16711599	Ca4	16711599	TTATATATATATATATATATATATA T/TTATATATATATATATATATATA TATATATATAT	GCCCTCAATACGGTAC CTCAC	TATCGTTGCTTGCCAA CTCA	60.8	726	INTERGENIC	--	--	--
Ca4_P3_16728462	Ca4	16728462	TAAA/TAAAA	CATGGGGATGCTGCTA TTTT	CAACTTCCTCTTTTGG CACA	59.9	388	DRR	Ca_05454	O	MYB
Ca4_P3_16729722	Ca4	16729722	CAAAAAAAAA/CAAAAAAAAA	AATTATCATCGTCGCGT TCC	TGATTTTTACCTTCCT GCC	59.9	467	DRR	Ca_05453	--	--
Ca4_P3_1677374	Ca4	1677374	TAAAAAA/TAAAA	TCCAACTAGTCCGAC GTGA	AGCTGCTGGAGGAGTT GGTA	59.3	450	INTRON	Ca_07795	--	--
Ca4_P3_16776651	Ca4	16776651	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CGCTTTTGGTGAGGA CAGT	AGAACACAAAGGCAC CAAC	60.3	553	DRR	Ca_05447	U	MIKC
Ca4_P3_16793556	Ca4	16793556	AG/AGG	ACACTTGCTATGAAACG GGG	ACGCTTGCAAGGTCT GAAT	60.0	590	INTERGENIC	--	--	--
Ca4_P3_16826129	Ca4	16826129	A/AAATT	TTTTATCCACCAAAAT TCAAAAA	TGATTTTTCAGGAGGC CACT	58.9	521	DRR	Ca_05439	--	--

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
Ca4_P3_16827901	Ca4	16827901	AATATTGATTATA/AATATTGATTATATT GATTATA	ACGCCAACATTTGTGA GTGA	TCGATTCACTTAGTT GCACA	60.2	853	INTERGENIC	--	--	--
Ca4_P3_16846815	Ca4	16846815	CACCTTCTTTT/CACCTTCTTTACCTT CTTTT	ACATGTGCCTTGGGAC TAGC	GCGAAAAGTCGAAGAT CCTG	60.1	571	CDS (FRAME SHIFT)	Ca_05437	--	--
Ca4_P3_16864661	Ca4	16864661	ATTTTT/ATTTT	ACACTTTACGTCGGTG GGAG	CGCATGCAAGAATAAC TCCA	60.0	424	INTERGENIC	--	--	--
Ca4_P3_16933042	Ca4	16933042	TAAAAAAAAA/TAAAAAAAAA	CCAAATAAACTACTTTT GTGAGACGA	CACACTCTGCCTCCAC TGAA	60.0	388	INTERGENIC	--	--	--
Ca4_P3_16943222	Ca4	16943222	TATGAATGAAT/TATGAATGAATGAAT	CTCAAGCTCAGTCCCA GTCC	TGCGTTTTGTTGGTG TAGC	60.0	668	INTERGENIC	--	--	--
Ca4_P3_16960625	Ca4	16960625	GTT/GTTT	GCGAATTGCAGACTGA AACA	CTGGAATACTCTCTC CTCC	60.0	925	DRR	Ca_05428	--	--
Ca4_P3_16981152	Ca4	16981152	AATATATATATATATATATATATATAT A/AATATATATATATATATATATATAT ATATATA	TTTCGAGTAAAGTCGG ATGC	TTTAATTCAAAGGGTG ACAAAAA	58.0	469	INTERGENIC	--	--	--
Ca4_P3_16990316	Ca4	16990316	ATTTTTTTTT/ATTTTTTTTTT	TTGCCCAAGATTTTCCA TTT	TGAGGGCTTTGGGATG TAAC	59.4	501	INTRON	Ca_05426	U	--
Ca4_P3_17003120	Ca4	17003120	ATT/ATTTT	CCATGAGGTGTTAGCC CAAT	TCTCAACATGCTCTTG GCTG	59.8	207	INTERGENIC	--	--	--
Ca4_P3_17006862	Ca4	17006862	TTAT/TT	TCCTTCACAACCTCTC GCT	CCGTCCAAGTTTGTC TGTT	60.0	741	INTRON	Ca_05423	--	--

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
Ca4_P3_17010005	Ca4	17010005	AAAAAATAATATC/AAAAAATAATATCAT TTAAAAATAATATC	ACGGCCTAGCTTATTC CCAT	GTATGCAATGGGTGC TGTG	60.0	690	DRR	Ca_05423	--	--
Ca4_P3_17010261	Ca4	17010261	GAGACA/GAGACAGACA	GTTAGCCTCACAGCAC CCAT	GCTTCTAACTCGGCAA GTGG	60.1	342	DRR	Ca_05422	--	G2-like
Ca4_P3_17011310	Ca4	17011310	TTA/TTATA	TTTTGGAAGGGTGAGG ACTG	TTTGGGCAAAATCTAC GGTC	60.1	723	INTRON	Ca_05422	--	G2-like
Ca4_P3_17014729	Ca4	17014729	ATTCAAAA/ATTCAAAATTTTCAAAA	TTTTGTGGAATTGCCAA TCA	AAAGCGAGGCAGTTGA GAAA	59.9	570	INTERGENIC	--	--	--
Ca4_P3_17024740	Ca4	17024740	T/TC	GGACATATTTGTCACAA TCCCA	ACCAATTCCATTCCATT CCA	59.6	723	INTERGENIC	--	--	--
Ca4_P3_17030182	Ca4	17030182	TAA/TAAAA	AAGATTTTGTGTTTGAA CCCTCA	TCTCGCCTTTTGTATC GTCA	59.9	426	DRR	Ca_05420	R	bHLH
Ca4_P3_17044153	Ca4	17044153	A/AT	AAACAATTTACGCGAAT GCC	TAGTTCCAAGAGAAGG GCGA	60.0	665	INTERGENIC	--	--	--
Ca4_P3_17050258	Ca4	17050258	AGG/AGGG	GCGAAATGTTCTTCTCC TGC	TTTGGATAACCACCCC TACG	60.0	887	INTRON	Ca_05418	DA	--
Ca4_P3_17063499	Ca4	17063499	GTTTTTTTTTATAATTTTTTTT/GTTTTT TTT	AAACGGATTGATTGTT ATTGAGA	TCACCGTATAAAGCTT TTCTTTTG	59.0	595	INTERGENIC	--	--	--
Ca4_P3_17064843	Ca4	17064843	TAAA/TAAAA	TAACAAAATGGCATGTC GGA	TGCCTTATGATGTTTG GATGA	59.9	774	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
Ca4_P3_17065936	Ca4	17065936	CTTTTTTTTT/CTTTTTTTTT	TCAAATACAATTGTGGT TCATTCA	CCTCACCTTCTTCCAT CACC	59.3	542	INTERGENIC	--	--	--
Ca4_P3_17067831	Ca4	17067831	TAAAAAAAA/TAAAAAAAAA	TTCACCAACAGCCAG TATCC	GTGAGTCATGGGACG GTTCT	60.0	402	INTERGENIC	--	--	--
Ca4_P3_17073988	Ca4	17073988	A/AGTTAC	AATGCTAAACACAGCA GGCA	TTTCACTCCCACCACA ACAA	59.3	882	INTERGENIC	--	--	--
Ca4_P3_17081756	Ca4	17081756	TTATA/TTATATA	TACCGGAAGATTCGGA AATG	CTGCAGGTAAGCATCC CAAT	59.9	694	INTRON	Ca_05415	--	--
Ca4_P3_17082004	Ca4	17082004	TGAT/TGATCGAT	TTTTGACAATGGGCACT CAA	CTGCAGGTAAGCATCC CAAT	60.1	295	DRR	Ca_05415	--	--
Ca4_P3_17089902	Ca4	17089902	ATTTTTTT/ATTTTTTTT	CCAACATTAACGGC CCTA	TGTGCTAGGATTGCAC GGTA	59.8	574	INTERGENIC	--	--	--
Ca4_P3_17090015	Ca4	17090015	ATATTTATTTATTTATTTATTT/ATATTTA TTTATTTATTT	CCAACATTAACGGC CCTA	GCATTTTCACATGTG GTGC	59.8	698	INTERGENIC	--	--	--
Ca4_P3_17094592	Ca4	17094592	TA/T	TGCTTCAAAGAAAAATC GGA	TGGGATTACCTGACCC CATA	58.5	190	INTERGENIC	--	--	--
Ca4_P3_17096036	Ca4	17096036	CTTTCAA/CTTTCAGTTTCAA	CTGCAATTGTCAAGCTC CAA	TCCATATGTGCCATT GCTA	60.0	276	INTERGENIC	--	--	--
Ca4_P3_17097898	Ca4	17097898	CATAT/CAT	GTGGCTTTTGTCCGA CATT	CAGCTGCCCTCACAA AATA	60.0	821	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 (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
Ca4_P3_17099062	Ca4	17099062	A/AC	TTTTCGGTTCGAAAGAC ACC	AGGAAGCTGAACAAGC TCCA	60.1	267	INTERGENIC	--	--	--
Ca4_P3_17101199	Ca4	17101199	A/AC	TGGTTTGATTATTGTG GTGC	GTTCTTTGAAATTGCA CGAATA	58.4	812	DRR	Ca_05414	--	--
Ca4_P3_17102148	Ca4	17102148	AA/AAGA	ATGACCCAACCTCTCGA CACC	TCAGGTGATTGTTGAC CCAA	60.0	733	DRR	Ca_05414	--	--
Ca4_P3_17114726	Ca4	17114726	GAAAA/GAAAAA	CAAAAACAAGGCGACC AACT	TATTTGAAACGAACGG TCCC	60.0	736	DRR	Ca_05412	CR	Nin-like
Ca4_P3_17129875	Ca4	17129875	CAT/CATTAT	CCCATCCTCTAAAGCA CAGC	GCTAGGGATGAAGGAA GCCT	59.8	530	INTRON	Ca_05411	CR	Nin-like
Ca4_P3_17131617	Ca4	17131617	TAAAAAAA/TAAAAAAA	CATGCCCTCTAACACAG CGA	TTGTGAAGGTGATTG CTCG	60.0	517	INTRON	Ca_05411	CR	Nin-like
Ca4_P3_17134644	Ca4	17134644	TAAAAAAA/TAAAAAAA	AGATCTACCATTTGCGT CCG	TTGGAACAATTCAAG GCAA	60.1	731	INTRON	Ca_05411	CR	Nin-like
Ca4_P3_17140665	Ca4	17140665	GGGTGAAAAAGAA/G	ACGGCTACGAGTTGTT GCTT	GCAAAAACCTTGATACG ATTGAAA	59.9	522	DRR	Ca_05410	CR	Nin-like
Ca4_P3_17141537	Ca4	17141537	ATT/AT	TGCAAAATCAACATAA AGGTTGT	AAACTGAAAGGCCTAA TTCCAA	59.8	233	DRR	Ca_05410	CR	Nin-like
Ca4_P3_17141571	Ca4	17141571	TAAAAA/TAAAAA	TGCAAAATCAACATAA AGGTTGT	AAACTGAAAGGCCTAA TTCCAA	59.8	233	DRR	Ca_05410	CR	Nin-like

[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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_17206969	Ca4	17206969	TAAAAAAA/TAAAAAA	CCTGGCAGATGGCAAT AGAT	GAAATGGATCCGACG AAGA	60.1	593	INTERGENIC	--	--	--
Ca4_P3_17207193	Ca4	17207193	TA/T	CCTGGCAGATGGCAAT AGAT	GAAATGGATCCGACG AAGA	60.1	593	INTERGENIC	--	--	--
Ca4_P3_17208586	Ca4	17208586	TACAC/TACACAC	TGTAAGATGGGTGTG CTCA	GGTCCCTAATGCAGTT GACC	60.1	487	INTRON	Ca_05402	C	--
Ca4_P3_17210802	Ca4	17210802	ATG/ATGGTG	AGGGGGAATTCAGAAG GCTA	CCTCTTCTCCACCCTG CATA	60.0	581	INTRON	Ca_05402	C	--
Ca4_P3_17214261	Ca4	17214261	GCTATC/G	GCTTTTAGGCTGGGG AATC	AATAATTTGGTCAGGC GTGC	60.0	194	DRR	Ca_05402	C	--
Ca4_P3_17214540	Ca4	17214540	A/ATATAG	GCTTTTAGGCTGGGG AATC	TTGGTCAATGCGGAAG TGTA	60.0	627	DRR	Ca_05402	C	--
Ca4_P3_17214599	Ca4	17214599	AC/ACTTC	GCTTTTAGGCTGGGG AATC	TTGGTCAATGCGGAAG TGTA	60.0	627	DRR	Ca_05402	C	--
Ca4_P3_1721745	Ca4	1721745	GATAATAATAATAATAA/GATAATAATAA TAA	AAGCGGAAAGGAGCTA AAGG	AACAAAATTACGAGTG GCCG	60.0	200	INTERGENIC	--	--	--
Ca4_P3_17219514	Ca4	17219514	CTTATTTATTTATTTAT/CTTATTTATTT ATTTATTTATTTAT	GGAATGAGAGAGAGCG TTGG	TTATGCGATGCCAATT CAAA	60.0	563	INTRON	Ca_05401	O	--
Ca4_P3_17223748	Ca4	17223748	GAAAAA/GAAAAAAA	TCACCAACATGGTATGA CACAA	GGCCTGGTTCTCAAAA TTCA	59.7	368	DRR	Ca_05401	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
Ca4_P3_17223825	Ca4	17223825	GAAAAGAAAA/GAAAA	TTTCTGCATATCACTG CGA	GGCCTGGTTCTCAAAA TTCA	58.0	246	DRR	Ca_05401	O	--
Ca4_P3_17227245	Ca4	17227245	ATTTT/ATTT	CATTGACGACCAGGTT TGTG	TCAGACACCGTTGTGG GATA	60.0	732	INTRON	Ca_05400	YU	--
Ca4_P3_17238317	Ca4	17238317	CTTTATTT/CTTTATTTATTT	AAAAATGGGGTGGATG AACA	TTCCAATGTTGCAGAA GCAG	60.0	439	DRR	Ca_05400	YU	--
Ca4_P3_17240545	Ca4	17240545	GAAAAAAAA/GAAAAAAAAA	TGGTCTAAAAAGATTGG CCG	TACGTGGCAACATCC AAAA	60.1	537	INTERGENIC	--	--	--
Ca4_P3_17242500	Ca4	17242500	T/TAA	CTTGATGGCTTCAACT GGG	AACTAATTTTTGGTTC ACTATTTTT	60.6	766	INTERGENIC	--	--	--
Ca4_P3_17243538	Ca4	17243538	AT/A	TTCACATGCATTGTT TACCA	TGCAAACTGCTCTAC CCAA	59.9	422	INTERGENIC	--	--	--
Ca4_P3_17243952	Ca4	17243952	A/AT	AGCTTTGCGATTCTATT GGG	CAACCGTTTGAAAATG ACGA	59.3	501	INTERGENIC	--	--	--
Ca4_P3_17247653	Ca4	17247653	GAAAAAAAA/GAAAAAAAAA	TTTATGTTTGCCAACT CCC	TTTTAGGGACGCAAT TCAAA	59.8	539	INTERGENIC	--	--	--
Ca4_P3_17249235	Ca4	17249235	AATATAGAT/AAT	TTTCCAACCTAAAAGAG GGC	CAATACGGGCTCAACT TGGT	59.3	601	INTERGENIC	--	--	--
Ca4_P3_17254453	Ca4	17254453	ATTTTTTTTT/ATTTTTTTTTT	CCAAGCGACTCACTTC ATCA	TTGAAAGGGCAAAATT ACACA	60.0	413	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
Ca4_P3_17257056	Ca4	17257056	ATTTT/ATTT	CCAACAAGCATTACATT GCG	ACGTTGACATTCCAGC ATGA	60.1	423	INTERGENIC	--	--	--
Ca4_P3_17257163	Ca4	17257163	ATTTTTTT/ATTTTTT	TGTACGCCAAAGTAAT GCCA	TCCAATGAAATTAAC GCAAA	60.1	897	INTERGENIC	--	--	--
Ca4_P3_17257804	Ca4	17257804	TG/T	TTTGC GTTTAATTCAT TGGA	ATCCAACCTGCCATGT CCTA	58.2	283	INTERGENIC	--	--	--
Ca4_P3_17259358	Ca4	17259358	TAAA/TAAA	ATGGGTGCATTTGTTTC AGA	GCCTGAGTTTGGCATA CGAT	59.0	338	INTERGENIC	--	--	--
Ca4_P3_17259694	Ca4	17259694	TG/T	ATCGTATGCCAAACTCA GGC	CGTGTGTGCATTGGAA TTGT	60.1	422	INTERGENIC	--	--	--
Ca4_P3_17259744	Ca4	17259744	GTTTTTTTTT/GTTTTTTTT	ATCGTATGCCAAACTCA GGC	CGTGTGTGCATTGGAA TTGT	60.1	422	INTERGENIC	--	--	--
Ca4_P3_17262149	Ca4	17262149	ATT/AT	ATTTGTCTGATCGGTAC GGC	CAAAATCCGAATCCTCG TTGT	60.0	677	INTRON	Ca_05398	R	--
Ca4_P3_17263445	Ca4	17263445	CT/CTT	CGGTTCAATTTTCAAAC GGT	GGTTCAAAATGGCGTT GAGT	59.8	658	INTRON	Ca_05398	R	--
Ca4_P3_17267236	Ca4	17267236	GT/GTT	GCTTAATGTGCCTTGG GCTA	ATAGGAGGAGGAGCA CGGAT	60.2	274	DRR	Ca_05397	S	--
Ca4_P3_17267576	Ca4	17267576	AGGG/AGG	ATCCGTGCTCCTCCTC CTAT	CCCGGAAAAATGAAGA ACAA	60.1	507	DRR	Ca_05398	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 (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
Ca4_P3_17268685	Ca4	17268685	TGG/TGGG	CATCCCATCCAGGACC TTTA	CTGGTCCCGGTTGAA CTTA	59.7	308	DRR	Ca_05398	R	--
Ca4_P3_17271595	Ca4	17271595	TTTATATATTATATATT/TTTATATATT	CGCTTGGAAGAAGGTA GACG	CATTGCGATTAGAAT CAACTCA	60.0	593	INTERGENIC	--	--	--
Ca4_P3_17280110	Ca4	17280110	ATT/AT	CATTGGCTGCTTTGTT GCTA	GCAATATGGAGCCACG GTAT	60.0	596	DRR	Ca_05395	R	--
Ca4_P3_17284874	Ca4	17284874	GATA/GA	TTGAATATGAGCCTCCA AGAGA	CTTGTTGAGGCTTTGG GTGT	58.9	794	DRR	Ca_05393	R	--
Ca4_P3_17285160	Ca4	17285160	ACT/A	CATTTCCTTGAGTCAT GAGAGG	CTTGTTGAGGCTTTGG GTGT	60.1	310	DRR	Ca_05393	R	--
Ca4_P3_17285484	Ca4	17285484	GTTTTTTTTTTTTT/GTTTTTTTTTTTT	ACACCCAAAGCCTCAA CAAG	GCTTCTATTTTTGCG GGTG	60.1	624	DRR	Ca_05393	R	--
Ca4_P3_17286530	Ca4	17286530	TA/T	GGCCCTGTTATCCCT AAAG	CTAGGGACCATCGCAA GTTC	59.8	551	INTRON	Ca_05393	R	--
Ca4_P3_17286686	Ca4	17286686	CATTGGATTGGATTG/CATTGGATTG	TGCATTTTCATGCCTTTG CTA	TGATTAGCCCGTATTTT GGG	60.4	648	INTRON	Ca_05393	R	--
Ca4_P3_17286899	Ca4	17286899	ATCA/ATCATGTCA	GGTGATCATGCACTCC ATTG	TGATTAGCCCGTATTTT GGG	59.9	389	INTRON	Ca_05393	R	--
Ca4_P3_17290871	Ca4	17290871	GTTTAATT/GTTTAATTTTAATT	CCAAGTATGGCAGGTG GAAT	TCATGAGCTAGAATGG TTGTAAAA	59.8	615	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 (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
Ca4_P3_17295286	Ca4	17295286	CTTT/CTTTTTT	TTCATTGGGGTTTCACCTTT	TGATGCAGCAAAATCAGGAA	59.3	854	INTRON	Ca_05392	R	--
Ca4_P3_17295338	Ca4	17295338	A/AG	TTCATTGGGGTTTCACCTTT	TCTCACAAGCACACTCTGG	59.3	964	INTRON	Ca_05392	R	--
Ca4_P3_17297039	Ca4	17297039	TAAAAA/TAAAAAA	TTTGCCCTCAGCTGTGTGAC	TCATCAGCTGGACAAC TTCTG	60.0	607	INTRON	Ca_05392	R	--
Ca4_P3_17313148	Ca4	17313148	TC/T	AGAGGATGCAGCTATGCGTT	CAACATTTTGGGAGGGAAGA	60.0	170	INTERGENIC	--	--	--
Ca4_P3_17313409	Ca4	17313409	GAAAAA/GAAAAAA	AGAGGATGCAGCTATGCGTT	CAGCCCAAGTTTGAAGAA	60.0	573	INTERGENIC	--	--	--
Ca4_P3_17313521	Ca4	17313521	TAAA/TAA	GCTAGACAGGTTTGCC TTCTG	AAGGCTCCTGCAAGCA TTTA	60.0	966	INTERGENIC	--	--	--
Ca4_P3_17314228	Ca4	17314228	CAAAAA/CAAAAA	TAAATGCTTGCAGGAG CCTT	CCTTTTGTCTCAATCG CGT	60.0	366	INTERGENIC	--	--	--
Ca4_P3_17314494	Ca4	17314494	TA/T	TAAATGCTTGCAGGAG CCTT	CTTCCCCACTCACAGT CCAT	60.0	950	DRR	Ca_05390	M	--
Ca4_P3_17314621	Ca4	17314621	ATTTTT/ATTTTT	ACGCGATTGAGAACAA AAGG	CTTCCCCACTCACAGT CCAT	60.2	604	DRR	Ca_05390	M	--
Ca4_P3_17314848	Ca4	17314848	CAA/CAAAACCGAACTAGAA	TTGTAAAACTGCATCA ATCGAA	CTTCCCCACTCACAGT CCAT	59.7	488	DRR	Ca_05390	M	--

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 (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
Ca4_P3_17314963	Ca4	17314963	TGGGG/TGGGGG	ATGGACTGTGAGTGGG GAAG	CAATGGAGAGGTTCTG GACA	60.0	156	DRR	Ca_05390	M	--
Ca4_P3_17317797	Ca4	17317797	A/AT	CATCAGGCACCAAGGA AAAT	TCCCACTTTTGAGGTT GGTC	59.9	459	INTRON	Ca_05390	M	--
Ca4_P3_17317872	Ca4	17317872	TGGG/TGG	CATCAGGCACCAAGGA AAAT	ACAGCGTGAAACAAGA TCCC	59.9	875	INTRON	Ca_05390	M	--
Ca4_P3_17317909	Ca4	17317909	ATTTTT/ATTTTTT	CTCAAAAGTGGGATAG GGCA	ACAGCGTGAAACAAGA TCCC	60.1	429	INTRON	Ca_05390	M	--
Ca4_P3_17318086	Ca4	17318086	A/AG	CTCAAAAGTGGGATAG GGCA	ACAGCGTGAAACAAGA TCCC	60.1	429	INTRON	Ca_05390	M	--
Ca4_P3_17318109	Ca4	17318109	AA/AATATTA	CTCAAAAGTGGGATAG GGCA	ACAGCGTGAAACAAGA TCCC	60.1	429	INTRON	Ca_05390	M	--
Ca4_P3_17318183	Ca4	17318183	T/TCTA	CTCAAAAGTGGGATAG GGCA	ACAGCGTGAAACAAGA TCCC	60.1	429	INTRON	Ca_05390	M	--
Ca4_P3_17321954	Ca4	17321954	TA/TATATATATATAAA	CTGCCGACCTGAATAC CAAT	TGCCTTTAATGAAACA CACCA	60.0	541	INTERGENIC	--	--	--
Ca4_P3_17322303	Ca4	17322303	CATA/CA	TGAGGATAAAATGGTG TGTTTCA	TGCGGTTAGATTGCT CACTT	59.4	733	INTERGENIC	--	--	--
Ca4_P3_17327734	Ca4	17327734	ATTTT/ATTT	CGAACACAACGATAAG ATCTCG	TGCACTTAATTGCCA ACGA	59.8	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_17328665	Ca4	17328665	GAA/GAAAA	ACACGTGCAATATCGG TGAA	TCCTCCCTCTTTATCAT GCC	60.0	750	INTERGENIC	--	--	--
Ca4_P3_17329245	Ca4	17329245	TCACA/TCA	GGCATGATAAAGAGGG AGGA	TAACCTCTCACGTGCA ATCG	59.1	386	INTERGENIC	--	--	--
Ca4_P3_17337403	Ca4	17337403	CAA/CAAA	AATGGCTGCCGTTATT TTG	AACAACATTGCCTTC CCTG	60.0	198	INTERGENIC	--	--	--
Ca4_P3_17339892	Ca4	17339892	ATTT/ATT	TTTGGGGAACACAAC CTTT	GACATTCTCATAGGG GCGA	59.3	297	INTERGENIC	--	--	--
Ca4_P3_17345629	Ca4	17345629	GA/G	AAGAACAGCAGCAGCC AACT	TGAGCCTCATAGACAC GACG	60.2	436	INTRON	Ca_05389	A	--
Ca4_P3_17360539	Ca4	17360539	TAA/TAAA	GTGTGCGATTGAGTTG AACG	CTTGCTGGGCTTTTCA AGAC	60.3	579	INTRON	Ca_05388	T	NAC
Ca4_P3_17364116	Ca4	17364116	GAAA/GAAAA	AAATTTTCAGATCCACC CCC	CTTTGTGCAGGTTTCAT CCCT	60.0	550	INTRON	Ca_05388	T	NAC
Ca4_P3_17367149	Ca4	17367149	AATAT/AAT	GCAGCTAAAGGAGAGT GCCA	AGACAGTTCGCTCGCA AATC	60.7	506	INTERGENIC	--	--	--
Ca4_P3_17375846	Ca4	17375846	CTTTTTTT/CTTTTTTT	TTGTTCACACTTCAAG GAGA	TCGTAGTTGGTCACCG ATCA	59.5	435	INTERGENIC	--	--	--
Ca4_P3_17379518	Ca4	17379518	TG/T	AACAAATGGTGCATCA CGAA	TCTTCATTGGTCTCGT GCTT	60.0	740	INTRON	Ca_05387	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_17380447	Ca4	17380447	CG/C	TAGGGCTTTGCATTGAT TCC	CAACCTCATCCACTTT CCGT	60.0	352	INTRON	Ca_05387	R	--
Ca4_P3_17381165	Ca4	17381165	TAAAAAA/TAAAAA	GGGTCTTTTGTGTG GTGT	GGGATGGGAATAGGCT AAACTT	59.7	627	INTERGENIC	--	--	--
Ca4_P3_17386248	Ca4	17386248	AT/ATT	CCAAAAGCGACCATA AAAA	TCAAGTAGCAGCGCAA CATC	59.9	536	INTERGENIC	--	--	--
Ca4_P3_17395103	Ca4	17395103	TAAAAAA/TAAAAAA	GCGTGGGTAGCAACTT TCAT	TCGATGGTCATTTTGT TTGC	60.1	378	INTRON	Ca_05386	K	--
Ca4_P3_17396948	Ca4	17396948	ATTTTTTTTT/ATTTTTTTTT	CTTGCAAATTGTTGAAG CCA	CAACTGTCTTAGCG GCTC	59.8	229	INTRON	Ca_05386	K	--
Ca4_P3_17397039	Ca4	17397039	C/CGCAAG	TGAGTGCTTCCGTTTG ACTG	GCAGCCATCAGGAAAA AGAG	60.0	500	CDS (FRAME SHIFT)	Ca_05386	K	--
Ca4_P3_17408958	Ca4	17408958	ATGTTGT/ATGT	CCAAAGAATTTCCGAC CAA	CTCCTCCCCTCAAAT CTCC	59.9	567	INTERGENIC	--	--	--
Ca4_P3_17423076	Ca4	17423076	TAA/TAAA	GTGTGGGTGGCTTTC ATCT	TCCGCAACAATGCAA AATA	60.0	252	INTERGENIC	--	--	--
Ca4_P3_17423293	Ca4	17423293	TTATATA/TTA	GTGTGGGTGGCTTTC ATCT	GAAACGCTATGATGCC GTAAA	60.0	492	INTERGENIC	--	--	--
Ca4_P3_17426153	Ca4	17426153	GTTTTTTTT/GTTTTTTTT	TTTATGCGACATCGAAA TTCA	AAAGTGGAAATGGATC AACAAA	59.2	278	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
Ca4_P3_17430156	Ca4	17430156	GT/GTAGAT	TGCGGACGATACACCA AATA	CAGAGGATGCAAAAGC AACA	60.0	761	INTRON	Ca_05384	K	--
Ca4_P3_17430506	Ca4	17430506	GTTTTTTT/GTTTTTTT	TGTTGCTTTTGCATCCT CTG	CAAGGTTAAGAGCGCC TTTG	60.0	485	INTRON	Ca_05384	K	--
Ca4_P3_17431572	Ca4	17431572	GC/G	TCTGTCATTCTGCCAT TTTT	TCGCAATGTAGCTCCC TCTT	59.6	858	INTRON	Ca_05384	K	--
Ca4_P3_17435255	Ca4	17435255	GTACTACTA/GTACTA	TCAAGCTGCTTTCAATG GTG	GAGGCCAATGGAGTG GTTTA	60.0	241	INTRON	Ca_05384	K	--
Ca4_P3_17435927	Ca4	17435927	TG/T	TAAACCACTCCATTGGC CTC	TCCATATCATCTTGAG GGGC	59.9	718	INTRON	Ca_05384	K	--
Ca4_P3_17436584	Ca4	17436584	CAG/CAGAG	AAGATCCTGCCCTCA AGAT	GCAAGGTCTCCAAAAG CAAG	60.0	945	INTRON	Ca_05384	K	--
Ca4_P3_17437453	Ca4	17437453	T/TG	CTTGCTTTTGGAGACCT TGC	CATCCAAGGCAAGGAA CAAT	60.0	463	INTRON	Ca_05384	K	--
Ca4_P3_17443455	Ca4	17443455	TAA/TA	GTTGGTGTGGCTTTT GCTT	ACATAGAGCTGTGCGT GGTG	60.2	246	DRR	Ca_05384	K	--
Ca4_P3_17443644	Ca4	17443644	GAAAAAAAA/GAAAAAAAA	GTTGGTGTGGCTTTT GCTT	CGTTGTTTACAGAGG GCAT	60.2	768	DRR	Ca_05384	K	--
Ca4_P3_17445199	Ca4	17445199	A/AC	CCCCTTTCAACATTCCT CAA	GAGGCACGCAATCTT TGTT	59.9	292	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
Ca4_P3_17447166	Ca4	17447166	ATTTTT/ATTTTTTTT	TACTCGTTTCGTTGGG CTTC	AACATCGTCTCCCAAT TTCA	60.2	452	INTERGENIC	--	--	--
Ca4_P3_17458594	Ca4	17458594	ATTT/ATTTCTATAATTTTGTTT	TGCCTCTACCTTTTCTT TGATTG	TCATTCAACATTGGC CATT	59.8	213	INTERGENIC	--	--	--
Ca4_P3_17464214	Ca4	17464214	CTATATAT/CTATATATATAT	ACCACTCACCAACCTTC CAG	AACCCGGAGACCCAAT TTAG	60.0	635	INTRON	Ca_05381	O	GRAS
Ca4_P3_17464247	Ca4	17464247	CA/CGAGGA	ACCACTCACCAACCTTC CAG	AACCCGGAGACCCAAT TTAG	60.0	635	INTRON	Ca_05381	O	GRAS
Ca4_P3_17465788	Ca4	17465788	TC/T	GCAAGAGCATTACAGG AGGC	CAACCCTAGTGACCCA TGCT	60.0	794	INTRON	Ca_05381	O	GRAS
Ca4_P3_17475440	Ca4	17475440	GT/GTTGTTATT	CGGGCAGTAGCATTAG ATGG	GGATGAATGGGAGGT GGTA	60.6	210	INTERGENIC	--	--	--
Ca4_P3_17480298	Ca4	17480298	ATATTATTATTATTAT/ATATTATTA TTAT	TTGTTGGCCGTCATAT GCTA	GACCAATTACAAGCGA GGGA	60.1	617	INTRON	Ca_05379	O	--
Ca4_P3_17487664	Ca4	17487664	GTTTTT/GTTTTTTT	TGGGAAATTGCAAGAC AACA	TCTTCCACGGATCCT GTTC	60.1	291	INTRON	Ca_05379	O	--
Ca4_P3_17489508	Ca4	17489508	ATTTTT/ATTTTTTTTTT	GTTTTCTCCACCCAAAA GCA	CCAGCTTGTGACAAAA AGCA	60.1	488	DRR	Ca_05379	O	--
Ca4_P3_17489726	Ca4	17489726	AC/ACC	ATAAAATGTAGATGCCG CCG	CCAGCTTGTGACAAAA AGCA	60.0	349	DRR	Ca_05379	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 (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
Ca4_P3_17494020	Ca4	17494020	GAAA/GAAAA	GGGTGTGAAAAATGA AAGC	AGAATTGCTGCTGCTC AGGT	59.4	734	INTRON	Ca_05378	--	--
Ca4_P3_17527235	Ca4	17527235	CGG/CG	ATCCCCGTTCAATCAT CAG	CGCCTGCCTTCTTAAC TTTG	59.9	468	INTRON	Ca_05374	R	NAC
Ca4_P3_17527426	Ca4	17527426	GTGATT/GTGATTGATT	CAAAGTTAAGAAGGCA GGCG	CAAAATTGGTGGGATT TTGG	60.0	578	INTRON	Ca_05374	R	NAC
Ca4_P3_17527467	Ca4	17527467	AGT/AGTGT	CAAAGTTAAGAAGGCA GGCG	CAAAATTGGTGGGATT TTGG	60.0	578	INTRON	Ca_05374	R	NAC
Ca4_P3_17528276	Ca4	17528276	TGG/TGGG	AAGCTTTCCATAAGCC GTGA	GACAACGCAGAAGCAG AACA	59.8	911	INTRON	Ca_05374	R	NAC
Ca4_P3_17530366	Ca4	17530366	GTTTTTTTTTT/GTTTTTTTTTTTT	GGTCTATGGCGGAAAG ATGA	TCAAATCTCGATGCA GTTCA	60.0	577	DRR	Ca_05373	O	--
Ca4_P3_17533077	Ca4	17533077	CAGTG/CAGTGCATAAGTG	TGGTGAGTTGTACGT GCTC	AAAATGGCACCAGCAA AAAG	59.8	358	INTERGENIC	--	--	--
Ca4_P3_17534710	Ca4	17534710	ATATTT/ATT	CTGGATCCCCTCGGAA GTAT	TAGAAACCGCACACAC ACAA	60.3	317	INTERGENIC	--	--	--
Ca4_P3_17545627	Ca4	17545627	TAAAAAAA/TAAAAAA	AGTTTAGGGGCAAGCA CTGA	TGCATCGGAGATCACA TCTT	59.9	363	INTERGENIC	--	--	--
Ca4_P3_17547225	Ca4	17547225	TTTATT/TTT	CAACATCAGATGCACAT GGA	TTCGTGATCGTTTGGT GAAA	59.0	845	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
Ca4_P3_17599940	Ca4	17599940	CTTTTT/CTTTTT	ATCAACGAAATGAAGTC GCC	CGGTCAAATAGGCCTA CCAA	60.1	417	INTERGENIC	--	--	--
Ca4_P3_17600797	Ca4	17600797	TC/T	AAGGGTGATGGACGAA AAAC	TTAAATGGTCGCATAG AGCAA	58.9	682	INTERGENIC	--	--	--
Ca4_P3_17600811	Ca4	17600811	TAAAAA/TAAAAA	AAGGGTGATGGACGAA AAAC	TCCAACAACATCAAAT CATCC	58.9	951	INTERGENIC	--	--	--
Ca4_P3_17601510	Ca4	17601510	TC/T	GGATGAATTTGATGTTG TTGGA	CCGTGTCTATCCCAT TTTG	59.7	515	INTERGENIC	--	--	--
Ca4_P3_17601888	Ca4	17601888	TAAA/TAAAA	CAAAATGGGGATAGAC ACGG	TTTCAAATGAACGTTTG CTACA	60.2	440	INTERGENIC	--	--	--
Ca4_P3_17602358	Ca4	17602358	GT/GTT	TTTGAATGTGTATTGTA GCAAACG	CCTATTCTCGAGAGCA ACCG	59.2	322	INTERGENIC	--	--	--
Ca4_P3_17604832	Ca4	17604832	ATTTTTTT/ATTTTTTTTTTTTTTT	GCCCAAGGCCAAAGTT AGTA	TTACACCTCACAGCA GGAC	59.2	336	INTRON	Ca_05371	S	--
Ca4_P3_17617099	Ca4	17617099	T/TATG	GAGAGTGGGTCGTTGA TGGT	TTTGATCACATTCCTC AACA	60.0	633	INTERGENIC	--	--	--
Ca4_P3_17618987	Ca4	17618987	TATCATCAT/TATCAT	GCCGATCTTCAACTTCA ACC	TCGAGCTAGAAGCACC AACA	59.7	470	INTERGENIC	--	--	--
Ca4_P3_17620504	Ca4	17620504	T/TG	CTCTGTGTGACACCCC ATTG	CTAATCCAAACCAGGC CAAA	60.0	719	INTRON	Ca_05368	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 (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
Ca4_P3_17622678	Ca4	17622678	ATTTTT/ATTTTT	CCTGAAAGGCATGGCT GTAT	TGCTTCCTCCTTGAA GCAT	60.1	289	INTRON	Ca_05368	F	--
Ca4_P3_17626407	Ca4	17626407	AGGT/AGGTGGT	TGTCCTTTCTCGTGCT CTT	GTCCAACCTCCGGTTTA ATGC	60.0	285	DRR	Ca_05368	F	--
Ca4_P3_17627644	Ca4	17627644	TCAC/TC	TTCGATCAAATTCCTCC ACC	TGACATGGACTGAGAC AATGAA	59.9	741	INTERGENIC	--	--	--
Ca4_P3_1763030	Ca4	1763030	ATTT/ATTTT	AAAGGCATCATTACGCT TCA	ACATTTTGGAAGGGCA TCTG	59.1	757	INTERGENIC	--	--	--
Ca4_P3_17632165	Ca4	17632165	TTTTGCTT/TTTTGCTTCAATTTGCT T	ACACAGATCCCATCCC ATGT	ATTTACGGCCACCAAA ACTG	60.1	575	INTRON	Ca_05367	Z	WRKY
Ca4_P3_17637226	Ca4	17637226	CTATT/C	ACACAAGTTAGGTGGG GCAG	CTGCATCTGTAGTGAG GCCA	60.0	346	INTRON	Ca_05367	Z	WRKY
Ca4_P3_17640054	Ca4	17640054	TTTATTATTATTATTATT/TTTATTAT TATTATTATT	TATGAGTGCTGGTTTG AGCG	GAACCCTTTCCATCGA GTCA	60.0	779	DRR	Ca_05367	Z	WRKY
Ca4_P3_17640878	Ca4	17640878	T/TC	GACTCGATGGAAGGG TTCA	AGCCAACAAAACCACC AAAG	60.1	634	DRR	Ca_05367	Z	WRKY
Ca4_P3_1764308	Ca4	1764308	AT/ATGT	AGAGGCATTGCTCATC AACC	TCGAAAAGATGCAAGA CCAA	60.2	754	INTERGENIC	--	--	--
Ca4_P3_17645379	Ca4	17645379	ATTA/ATTATCTTTA	TCAAAAGCTCAAAGCAA CCA	TGATGTGATATGCAAT TCTACGA	59.6	600	DRR	Ca_05366	--	--

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
Ca4_P3_1764559	Ca4	1764559	TAAAAAAAAA/TAAAAAAAAA	GCCAACTCATGTCTTTG TCG	ATTCTCGTGAGTGGG TTTG	59.3	758	INTERGENIC	--	--	--
Ca4_P3_17650086	Ca4	17650086	T/TGTA	TGAGAGGTTGGTGCTT ATTTTG	TGCGGTTCTATAAAA TGGG	59.3	322	INTERGENIC	--	--	--
Ca4_P3_1765263	Ca4	1765263	CTTTA/C	GGTCATGCGTGGGCTA CTAT	TTTTCTGAAATTTTGA TGAATG	60.0	497	INTERGENIC	--	--	--
Ca4_P3_1765326	Ca4	1765326	GA/G	GGTCATGCGTGGGCTA CTAT	TTTTCTGAAATTTTGA TGAATG	60.0	497	INTERGENIC	--	--	--
Ca4_P3_17654597	Ca4	17654597	TCACACAC/TCACACACAC	TCCAATTGACACCACTG CTC	TTTTCAACATTCTAAAA ATGGGC	59.7	542	DRR	Ca_05364	S	--
Ca4_P3_17654627	Ca4	17654627	AT/ATAAACTTT	TCCAATTGACACCACTG CTC	TTTTCAACATTCTAAAA ATGGGC	59.7	542	DRR	Ca_05364	S	--
Ca4_P3_17658409	Ca4	17658409	GT/GTT	TCTTGTTGCTCCCTTC ATC	ACACACGTGCATTGCG TAAA	60.2	702	INTERGENIC	--	--	--
Ca4_P3_17670952	Ca4	17670952	T/TG	TGTTGACTCTTGGCTG TTGC	CGACATCATGGATTGT TTGG	60.0	659	INTERGENIC	--	--	--
Ca4_P3_17672684	Ca4	17672684	GATA/GA	TGTAGTCCCTCTGTCC CAAAA	CGGAAGATACCAAGTC GCAT	59.6	433	DRR	Ca_05360	--	--
Ca4_P3_1767777	Ca4	1767777	AATTAATTAATT/AATT	GTAAGTATGCACGCTT CCAA	TGAGAACTCTTGTTG GGTG	59.9	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_1767872	Ca4	1767872	ATTTTTTTT/ATTTTTTT	GTACTGATGCACGCTT CCAA	TGAGAATCCTTGTTG GGTG	59.9	494	INTERGENIC	--	--	--
Ca4_P3_17678728	Ca4	17678728	ATTTTTTTTTT/ATTTTTTTTTTTTT	CACCATGAAACCTTGCT CCT	GTTGCAGAGATGAATG GGGT	60.1	499	INTERGENIC	--	--	--
Ca4_P3_17681279	Ca4	17681279	CTTTT/CTTT	GTGTTTTAACCCAGCC CAAA	GACACGTACCACGAGC TTCA	59.8	389	DRR	Ca_05359	--	--
Ca4_P3_17690587	Ca4	17690587	TGGG/TGGGG	CGTTCTCAGAGGGAAA TGGA	TCCCAAAGTGAAATGC ATCA	60.2	611	INTRON	Ca_05356	TU	--
Ca4_P3_17693931	Ca4	17693931	CAAA/CAAAA	ATCCACGCTCAGTCA TTTC	TGAAGAATTGCCCTCA GACC	60.1	390	INTRON	Ca_05356	TU	--
Ca4_P3_17698774	Ca4	17698774	CAAAAAAAAA/CAAAAAAAAA	TGCTTGCAGTCTGAAAT TCG	ATCACGGATTGACCTT GGAG	60.1	532	INTERGENIC	--	--	--
Ca4_P3_17706860	Ca4	17706860	TATATTCGATATT/TATATT	TTGCATGCTTGGATTCA AAA	CCATCGAAAAGGAATG GCTA	60.2	413	DRR	Ca_05355	R	SBP
Ca4_P3_17715218	Ca4	17715218	GAAAAAAAAA/GAAAAAAAAA	CTGTTCTCATCACG CAT	GGAGTCACCCTCCAAA TTGA	59.7	143	INTERGENIC	--	--	--
Ca4_P3_17715291	Ca4	17715291	CTT/CT	TCAATTTGGAGGGTGA CTCC	TACCAGCTTTGTTTC TGCC	59.9	250	INTERGENIC	--	--	--
Ca4_P3_17715589	Ca4	17715589	TAAAAA/TAAAAAAA	TCAATTTGGAGGGTGA CTCC	AAAAATTGTTGCACCAT CCC	59.9	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 (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
Ca4_P3_17721817	Ca4	17721817	AGCCCACTTG/AG	CACAATTTGGCAGGGA TTTT	TAATTTGCGGGTATGC TTCC	59.8	874	DRR	Ca_05352	KL	bHLH
Ca4_P3_17721863	Ca4	17721863	TA/TAA	CAGCCCACTTGAGCAA CAAA	TAATTTGCGGGTATGC TTCC	60.0	426	DRR	Ca_05352	KL	bHLH
Ca4_P3_17736173	Ca4	17736173	TTTAAGAAATTAA/TTTAA	CAGTGAAGGATGATGA AGAAAAA	AAACGTGGCCCTATAA GCCT	58.4	403	INTERGENIC	--	--	--
Ca4_P3_17738806	Ca4	17738806	TAAAAAAAAA/TAAAAAAAAA	GGAGTCATGGAATTTG GTCG	TTGCTGTATCAAGTGG CAAAA	60.3	810	INTERGENIC	--	--	--
Ca4_P3_17738882	Ca4	17738882	AC/A	TTCTTTCTCTTGTTG GCG	TTGCTGTATCAAGTGG CAAAA	59.0	745	INTERGENIC	--	--	--
Ca4_P3_17746874	Ca4	17746874	G/GA	CGATGGCAATTTTGTT TCT	ACTCGTCGCTGTCTTG GACT	59.9	543	INTERGENIC	--	--	--
Ca4_P3_17747209	Ca4	17747209	TAAAAAAAAA/TAAAAAAAAA	AGTCCAAGACAGCGAC GAGT	CCCAAGAGAGTTGTGG GCTA	60.1	313	INTERGENIC	--	--	--
Ca4_P3_17748069	Ca4	17748069	AG/A	CCCATTACGAAGAATC CGA	CGTACCTTTCGTTGCC ATT	59.9	287	INTERGENIC	--	--	--
Ca4_P3_17748105	Ca4	17748105	GTTT/GTTTT	CCCATTACGAAGAATC CGA	CGTACCTTTCGTTGCC ATT	59.9	287	INTERGENIC	--	--	--
Ca4_P3_17748605	Ca4	17748605	ATTTTTTTTT/ATTTTTTTTT	AAATGGCAACGAAAGG TACG	TGCTCAACAACCTGAG CATC	60.0	423	DRR	Ca_05350	R	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 (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
Ca4_P3_17749950	Ca4	17749950	T/TC	AGTGGCAATTGGTGC TCTT	GTGCTTATGTGGCAA CCCT	59.7	762	DRR	Ca_05351	R	WOX
Ca4_P3_1775612	Ca4	1775612	TT/TTTCAATTTTGCT	GAGAAATGGAGAGGGA AGGG	TCGCTTGACACCACCA ACAT	60.0	718	DRR	Ca_07800	K	HSF
Ca4_P3_17757375	Ca4	17757375	T/TC	TAAACCAACCCACAC CATT	ACAATGCCTTTTGCC ACTC	59.9	252	DRR	Ca_05349	O	--
Ca4_P3_17765368	Ca4	17765368	AA/AAGA	TAAACCGTGGTAAAGG CTGG	TCCGATCCCGATGTAC TCTC	60.0	602	INTRON	Ca_05349	O	--
Ca4_P3_17766884	Ca4	17766884	A/AAAT	TGCACCAGACATATTT CGC	AAAAGCCACACAGGAT GGAC	59.7	873	DRR	Ca_05348	--	--
Ca4_P3_17774621	Ca4	17774621	A/AC	ACATTTGTTTTCACTCC GGC	TGCAGCCACGTGTTTA TTTC	60.0	736	DRR	Ca_05347	R	--
Ca4_P3_17774656	Ca4	17774656	TATG/TATGAATG	ACATTTGTTTTCACTCC GGC	TGCAGCCACGTGTTTA TTTC	60.0	736	DRR	Ca_05347	R	--
Ca4_P3_17775890	Ca4	17775890	TAAA/TA	TGCATTGAGCAAAAAGT ACCA	GGCACTGCCGTCAAAA GTAT	59.4	525	DRR	Ca_05347	R	--
Ca4_P3_17776534	Ca4	17776534	GTAA/GTAATTAA	GCAGTGCCATTGAACA GCTA	GTACTTGTTCCGGCG TGAT	60.0	694	INTERGENIC	--	--	--
Ca4_P3_17777647	Ca4	17777647	CATCTGAATCTGAA/CATCTGAA	CCTTAGGGGAGATTG CATTG	TGCAGATAAATGGCCA AACA	59.9	852	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
Ca4_P3_1777960	Ca4	1777960	CATAAAAT/CATAAAATAAAAT	AGGGGACGTCTCCAT TTAT	AGATAGGACCCACC ATTG	59.7	705	INTRON	Ca_07800	K	HSF
Ca4_P3_17786473	Ca4	17786473	TTTTTG/TT	CGCGCCAACCTTACTTC TTC	TCCAAATTTAGTGGC AGCA	60.0	621	INTERGENIC	--	--	--
Ca4_P3_1779497	Ca4	1779497	GTT/GTTT	CACCCAAAGCAACA GAAT	TTGGCTTAACATGCCT TGAA	60.0	575	INTERGENIC	--	--	--
Ca4_P3_17823791	Ca4	17823791	TAAAAAAAAA/TAAAAAAAAA	TCTCATGTCTTGCAAAA TTCTTCT	TTTGATGATTGATTTG CCGTT	59.4	354	INTERGENIC	--	--	--
Ca4_P3_17825306	Ca4	17825306	TAAAA/TAAA	AATCCATCAAACGCT TGC	TGCTATTTGGTTGGCC TTTT	59.9	301	INTERGENIC	--	--	--
Ca4_P3_17825598	Ca4	17825598	ACC/ACCC	AATCCATCAAACGCT TGC	GGGCCCCGTAAGTATT CAGT	59.9	679	INTERGENIC	--	--	--
Ca4_P3_17825906	Ca4	17825906	ATTTTTTT/ATTTTTT	AAAAGGCCAACCAATA GCA	CCTCAATTCTCGATTTC CCA	59.6	555	INTERGENIC	--	--	--
Ca4_P3_17825981	Ca4	17825981	ATTTTTTT/ATTTTTT	GGGGCCCCATAATCAT ATTT	CCTCAATTCTCGATTTC CCA	59.7	164	INTERGENIC	--	--	--
Ca4_P3_17827610	Ca4	17827610	A/AT	TCAACTTCGGTGCTTG ACAG	TTGGGTACACGAACA ATGA	60.0	141	INTERGENIC	--	--	--
Ca4_P3_17828981	Ca4	17828981	ATT/ATTTT	ATGGTTTGTCTCCACT GGC	AAAACCAAGAACGGTG ATGC	60.0	414	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 (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
Ca4_P3_17830486	Ca4	17830486	ATTTTTTTTT/ATTTTTTTTT	TGGCTTGCATTCTCATT CAG	TTTGGATGCATAGGCC ATT	59.9	296	INTERGENIC	--	--	--
Ca4_P3_17831112	Ca4	17831112	TAA/TA	CACTCCAAGCCTCTTAT GGG	GGAAAGATGGACACAC GAAAA	59.7	605	INTERGENIC	--	--	--
Ca4_P3_17831943	Ca4	17831943	ATT/AT	TTTCTTCGCAGCATACC ACA	ACCCTTATTTCTTCGCT CCG	60.4	491	INTERGENIC	--	--	--
Ca4_P3_17843666	Ca4	17843666	GAA/GAACAA	ACCCGTTTCTTTCACAC CAG	CCAAATCGAGTGTACAG AAGA	60.0	398	INTERGENIC	--	--	--
Ca4_P3_17844265	Ca4	17844265	AGG/AGGG	AGGAGCACCATTTAT GCC	GAGAATGCCGATTCCG TTTA	60.0	362	DRR	Ca_18621	J	--
Ca4_P3_17845307	Ca4	17845307	TAAGAGTAATGAA/TAA	TACCATTACCCGTTCA CCT	CTGGGGTCATTTTGA GAAA	60.2	535	DRR	Ca_18621	J	--
Ca4_P3_17846018	Ca4	17846018	AAATA/AA	TTCACCAAATTCATGTC AAAGC	ACAACATGGGTCGGTC TCTC	60.0	737	DRR	Ca_18621	J	--
Ca4_P3_17848856	Ca4	17848856	AATAAATTATTATAA/AATAA	TCTGCTGAGACCCGTC TTTT	AAGCCAGGGCCAGAAA TTAT	60.0	602	INTRON	Ca_18621	J	--
Ca4_P3_17849398	Ca4	17849398	AGGG/AGGGG	AGTGTAAAGTGCCCAAG GTGG	CCGTTCGTAAAGTGCG AAAT	60.0	156	INTRON	Ca_18621	J	--
Ca4_P3_1786291	Ca4	1786291	GTTAGTTAGTT/GTTAGTTAGTTTGTTA TTAGTTAGTT	AAATCGTGTCAACCGC TACC	ATCGTCGTCTCTCACC ATCC	60.0	870	INTRON	Ca_07801	T	--

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
Ca4_P3_17865279	Ca4	17865279	CTTTTTTTTTTT/CTTTTTTTTTT	ATATGGAAAGTCGCCG TTTG	CCGAGGCAATAAAACA CCTC	60.0	494	INTERGENIC	--	--	--
Ca4_P3_17865546	Ca4	17865546	TAAAAA/TAAAAA	GAGGTGTTTTATTGCCT CGG	TGTTAATCCCAATTCAA TATCCC	59.6	133	INTERGENIC	--	--	--
Ca4_P3_17871181	Ca4	17871181	TAAAAA/TAAAAA	GGGGTATTTGGACGAA TGTG	CGAAAGCGATTGTTTA CGGT	60.1	651	DRR	Ca_18624	TU	WOX
Ca4_P3_17873043	Ca4	17873043	TAAA/TA	CATTGAAATGCATGGA CCAA	TTTTCTCCATGCACCC TACC	60.3	885	INTERGENIC	--	--	--
Ca4_P3_17873058	Ca4	17873058	T/TA	CATTGAAATGCATGGA CCAA	TTTTCTCCATGCACCC TACC	60.3	885	INTERGENIC	--	--	--
Ca4_P3_17873426	Ca4	17873426	AAGGA/AAGGAGGA	CGAATGGAAAAAGCGA GTTC	CAATAATCCCCGCTCT TGAA	59.8	303	INTERGENIC	--	--	--
Ca4_P3_1789478	Ca4	1789478	GC/GCC	TCAAATCAGGATGAGG GAGG	CTGGTTGGCCTTGAGT GAAT	60.0	270	INTRON	Ca_07801	T	--
Ca4_P3_1791824	Ca4	1791824	GA/G	CGATATTGTCAATGGC GTG	TTTTGGATTCTCCCT CCTT	60.0	644	INTRON	Ca_07801	T	--
Ca4_P3_1794143	Ca4	1794143	TAA/TAAA	TTGGTAGCAAGGACC CAAC	CAGCTTCTTCCACTG AGGG	60.0	385	INTRON	Ca_07801	T	--
Ca4_P3_17942733	Ca4	17942733	CTATATATATATAT/CTATATATAT ATATAT	CATCGTCAGCACATCA CAAA	CTTAGGAGGCTTGCC CCTC	59.2	447	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 (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
Ca4_P3_1795184	Ca4	1795184	AATAT/AATATAT	GGTTTGAAAGATCCAC CCAA	CAACCCATCATCCCAG TTTC	59.8	317	INTRON	Ca_07801	T	--
Ca4_P3_17959700	Ca4	17959700	C/CATTCCCTT	AGTGGCATGTGGGGAT TAAA	TTTGGTGGAATGGCA TGTA	60.2	168	INTERGENIC	--	--	--
Ca4_P3_17962638	Ca4	17962638	GATATATATATATATATA/GATATATA TATATATATATATA	CTTCAGCGTGCAAAAT CAA	CACGTGCATGCTTTGT TTTA	60.0	700	INTRON	Ca_18636	--	--
Ca4_P3_1801951	Ca4	1801951	TAAAAAAAAA/TAAAAAAAAA	CGTAGCAAGTGCCACG TAGA	ATTTTACGACCTCGCA CCAC	60.1	813	INTRON	Ca_07801	T	--
Ca4_P3_18033913	Ca4	18033913	CT/CTT	CTGAGTGACCTCCCTT CCAA	TCATTCCAGAAGGAGA TGGG	60.2	433	INTRON	Ca_18645	--	--
Ca4_P3_18041622	Ca4	18041622	CTTTTTTT/CTTTTTTTT	CCTGTTTTCTCCACCC TTT	ATGGGGACTTGGGGA GTAA	60.3	660	INTERGENIC	--	--	--
Ca4_P3_18061059	Ca4	18061059	TATAATAATAATAATAATAATAA/TA TAATAATAATAATAATAATAATAAT AA	GAAGCGACCACCTGAA GAAC	CAGAACAAATGACGTG TCCC	59.9	536	INTERGENIC	--	--	--
Ca4_P3_18091373	Ca4	18091373	TCATCAC/T	CCACGGATGTGATTTA GCCT	GAAGCACCGTTCCTTC TTGA	60.0	401	INTERGENIC	--	--	--
Ca4_P3_18111455	Ca4	18111455	ATTTTTTTTT/ATTTTTTTTTT	TCACCATCATTTTCATC GAGTC	TGTGGTTGTCGTTTAC TCACG	59.9	472	INTERGENIC	--	--	--
Ca4_P3_18121565	Ca4	18121565	TAAGAAG/TAAG	GCTGCACCATGAGATC TTGA	ATGGTGCTGGAAGTTG CTTT	60.0	440	INTRON	Ca_18652	--	--

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
Ca4_P3_1818718	Ca4	1818718	AATATATATATA/AATATATATA	TTGCACTGTTTGGTGAA AGG	CAACCGATCCAACCTC AACA	59.7	218	INTERGENIC	--	--	--
Ca4_P3_18196212	Ca4	18196212	ATTT/ATTTAATCTTTTT	GTGGTCCAGATTCTCC CAAA	TGTCGCTTCAGCAAAA AGAA	59.9	549	INTERGENIC	--	--	--
Ca4_P3_1822667	Ca4	1822667	TAAAAAA/TAAAAA	TTGATTTGTGTTGTCT GGGTC	TTGAAAAGGGGTTCTC CAAA	59.9	604	INTERGENIC	--	--	--
Ca4_P3_1823869	Ca4	1823869	CTC/CTCTAATC	GCATCAACATGCTTACA CACG	GTGAAAAGCGTTTTGA CCCT	60.2	444	INTERGENIC	--	--	--
Ca4_P3_1824490	Ca4	1824490	ATTTTTTT/ATTTTTTTTT	TTGAATTTTCATTGGTC CAAAA	CGAGCCAAAACCGTAC AAAT	59.3	788	INTERGENIC	--	--	--
Ca4_P3_1830211	Ca4	1830211	CTATATATATATATA/CTATATATATA TATATATA	ATGATCTACGGATGCTT GGC	CAATCAACCCCAAGCA GTTT	60.1	554	DRR	Ca_07803	T	--
Ca4_P3_18314259	Ca4	18314259	CAAAAAAA/CAAAAAAAA	TCACTGAAGGCTCAAG CTCA	TTCATCATTGTCGTTCC AGG	59.9	348	INTERGENIC	--	--	--
Ca4_P3_18388650	Ca4	18388650	ATATTA/ATA	AGTTATCGATCACGGAT GCC	CGTGTATATTCGCGCA CTCA	59.9	514	INTERGENIC	--	--	--
Ca4_P3_1841038	Ca4	1841038	CA/CAAA	AGCCAGCAGATGGAAG AGAA	GCCAAAGCATTTGACA TTGA	60.1	638	DRR	Ca_07805	--	--
Ca4_P3_1841092	Ca4	1841092	TTC/T	AGCCAGCAGATGGAAG AGAA	GCCAAAGCATTTGACA TTGA	60.1	638	DRR	Ca_07805	--	--

[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 (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
Ca4_P3_1864781	Ca4	1864781	CTATTATTATTATTATT/CTATTATTATT ATTATTATT	CTTCTGGGTGTCAGCA ATGA	AATCAAATCAACGTGT GCCA	59.8	432	INTRON	Ca_07807	P	MIKC
Ca4_P3_18674763	Ca4	18674763	AATATATATATATATATAT/AATATAT ATATATATATATATAT	CATGAGGGTTAGGTTT CGCT	ACTTGCATCCACGTAC TCCC	59.2	649	INTERGENIC	--	--	--
Ca4_P3_18676206	Ca4	18676206	A/AGGTTGATGACACC	TCGTAACGCAAAGCTT CAAA	GCAGGACGTTTCATT TACC	59.6	551	INTERGENIC	--	--	--
Ca4_P3_18703975	Ca4	18703975	GACACA/GACA	CCACATTGACATAAACA TCTTCTCA	TCAACAACGTTGCTCT TTTTG	60.3	173	INTERGENIC	--	--	--
Ca4_P3_1875003	Ca4	1875003	GAAAAA/GAAAAAA	ATTTCTGCTCTCTGGC AAA	GGAGGTTGAGTGCAC CATT	60.0	833	INTRON	Ca_07808	--	MYB_related
Ca4_P3_1883350	Ca4	1883350	ATTTTTTTT/ATTTTTTTT	ATTATCATGCGTGCCT CAAC	TACTTGAACAGGCCG GAAG	59.6	421	INTERGENIC	--	--	--
Ca4_P3_18836993	Ca4	18836993	TGG/TGGG	AGTGGAAGAGCAGAA GGCA	CAACTGCTAGACGTTG GGC	60.0	137	INTERGENIC	--	--	--
Ca4_P3_18883677	Ca4	18883677	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATAT ATATATATATATA	AAAATGTAGGGTGGAC GGTG	TATCCCCCAATGAAG GACA	59.7	750	DRR	Ca_13985	E	WRKY
Ca4_P3_19045820	Ca4	19045820	A/AT	GGGCTTGCTTGGTTTG AATA	TCAACTGCACGTGTTA AATGC	60.1	825	INTERGENIC	--	--	--
Ca4_P3_19046060	Ca4	19046060	CAAAAAA/CAAAAAAA	TGAAATGAGATTAGAA CCACCAA	TCTTCACCTGCATCGA AATG	59.9	677	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
Ca4_P3_1907150	Ca4	1907150	TATAAAAAATAAAAA/TATAAAAAATAAA AAATAAAAA	AAAGAGTTTAAAGGCG GGGA	GCGGTCATATTCGAA TGAA	60.1	437	INTERGENIC	--	--	--
Ca4_P3_19081618	Ca4	19081618	CAATAATAATAATAATAATAAA/CAAT AATAATAATAATAATAATAAA	CGACACTTCAACACAAA ATTCA	TGTTGAAAACAACATG TTCCC	58.7	893	INTERGENIC	--	--	--
Ca4_P3_19228202	Ca4	19228202	TATG/TATGATCGTGATG	GCAATCTGGAAAGATG GGAA	AAATTCGCCCTGTGTT TTTG	60.0	288	CDS (large-effect mutations)	Ca_14021	T	WRKY
Ca4_P3_19294563	Ca4	19294563	T/TATATAC	GCATACTCTGTCCTTT GTCC	GGCTGCCATCACTTCA TCTC	58.8	586	INTERGENIC	--	--	--
Ca4_P3_19342121	Ca4	19342121	TAAAAAAA/TAAAAAAA	TTCCGAAAATTCACATG CAC	GAATTTGGATTATTCG ATTCTCTGA	59.5	388	INTERGENIC	--	--	--
Ca4_P3_1935392	Ca4	1935392	TAAAAAAA/TAAAAAAA	GCGTTGCACGGGTATA TTTT	TCAACCAAAAAGCTGA CGTG	59.9	371	INTERGENIC	--	--	--
Ca4_P3_19369951	Ca4	19369951	CAAAAA/CAAAAA	CCCATGTTTAAGGGTG GTTG	AATTTTTCACGACCTTC TTCAA	60.1	561	INTERGENIC	--	--	--
Ca4_P3_19370452	Ca4	19370452	CAAAAAAAAA/CAAAAAAAAA	GGATTGAGATATCTTC GTCCA	TCGCTCATGTGAGAGA CCAC	58.1	265	INTERGENIC	--	--	--
Ca4_P3_19387051	Ca4	19387051	CAAAA/CAA	GGAGTACTCTGACAAC GTCCAA	ACGCTCTTCCAATCGA GATG	59.3	256	DRR	Ca_14033	O	--
Ca4_P3_19397426	Ca4	19397426	GAAAA/GAAA	GCCAACATATGCTTGAT GGA	TTGAACCTTCTCCGTTT GGG	59.5	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 (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
Ca4_P3_19406743	Ca4	19406743	AAAACCAATACACACTACAA/AAAACC AAATACACACTACAAACCAATACACA CTACAA	ACCATCCGTCACAAAA CAA	CAACTCCACCAAAACCA CCTT	58.9	576	INTERGENIC	--	--	--
Ca4_P3_19425608	Ca4	19425608	GTTTTTTTTTTTT/GTTTTTTTTTTTT	AGAACCCGACGACTGC TCTA	TATTTGGGCTTTAACC GACG	60.0	324	INTERGENIC	--	--	--
Ca4_P3_19576423	Ca4	19576423	CATATATATATATATATATATATAT/C ATATATATATATATATATATATATAT	CCGATCGGAAAAACAA AGTAA	TCCATATTCGGTAGCC GTTC	59.1	939	INTERGENIC	--	--	--
Ca4_P3_1958352	Ca4	1958352	TAAAAA/TAAAAA	AACAAGCCCAATTTTGC AGT	TGGAGATTGTTCAACC ATCA	59.6	463	INTERGENIC	--	--	--
Ca4_P3_19643688	Ca4	19643688	CTTTTT/CTTTTT	GGTGCAGTTGTTGAT GCAC	ATGCGATTTACATGGT TGCG	60.2	255	INTERGENIC	--	--	--
Ca4_P3_19678061	Ca4	19678061	C/CGGCTGGTACAA	ATTTTGGCAACGGCTG ATAC	CCACAATCCTCCGTTG TCTT	60.0	492	INTERGENIC	--	--	--
Ca4_P3_19780699	Ca4	19780699	CTTGTAATTTGTAATTTGT/CTTGTAAT TTGTAATTTGTAATTTGT	AGCAAACCACACAACC ACAA	TTTGTGACCACCACCT CCAA	60.0	484	INTERGENIC	--	--	--
Ca4_P3_19789343	Ca4	19789343	A/AG	CTAGGGGATTGCATTC CAAA	TTTCTGCGCAAACAC CTTC	59.9	177	INTERGENIC	--	--	--
Ca4_P3_19883616	Ca4	19883616	ATTTTTTT/ATTTTTTTT	CATGTGCAATTTCTGT GGG	TTTTGTGTGCAGAGA TGCG	60.0	572	INTERGENIC	--	--	--
Ca4_P3_19886492	Ca4	19886492	CATTTCTTATTTCTT/CATTTCTT	GACCCCTGACAAAGA CAGA	AGAGGGTTGTGCACTT GAGC	60.1	415	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	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
Ca4_P3_2002357	Ca4	2002357	ATTCTTCTTCTTCTTCTTCTTCTTC TT/ATTCCTTCTTCTTCTTCTTCTTCT TCTTCTT	ATGGCTGCTTTTGCTG ATCT	TAGAGGCTCCCCACTC TCAA	60.0	377	DRR	Ca_07818	--	--
Ca4_P3_20026462	Ca4	20026462	TTTTTTTT/TTTTTTATTTTTT	GACGGATCTTCTCTGG AACG	TGGAGAGGGAAGAGG TGAAA	59.8	118	INTERGENIC	--	--	--
Ca4_P3_20051846	Ca4	20051846	GTAT/GTATGTGATTAGTGACTAT	CACGAAGCGTATTGAC TCCA	AAATTTGAAGCGCCT TTTG	59.9	432	INTERGENIC	--	--	--
Ca4_P3_20180492	Ca4	20180492	CAAAAAAAAAAAAAA/CAAAAAAAAA AAAA	TGGTAAGCTAGATTGA GGGCA	ATCATCACCCAGGAT TTCA	59.9	224	DRR	Ca_17139	R	MYB
Ca4_P3_20233525	Ca4	20233525	A/AG	ATATTCAGATCCCTTGC CCA	CTTTGCCAATTCCAGT CCAT	59.3	136	DRR	Ca_17143	--	Trihelix
Ca4_P3_20266418	Ca4	20266418	T/TGC	CTGCAGAATGTTTGCA GAATG	ACCATCAAGGACCCAA ACAA	59.5	508	INTERGENIC	--	--	--
Ca4_P3_2030157	Ca4	2030157	GAAAAAAA/GAAAAAAA	TGAAAGTGCCAGAAA CCCT	CGAATGTTTATGGTTG GGGT	59.7	354	INTERGENIC	--	--	--
Ca4_P3_2032207	Ca4	2032207	TC/T	TGCTGAGTTCGAGGAA AGGT	CACATCTCTTGTCGC TCCA	60.0	517	CDS (FRAME SHIFT)	Ca_07822	D	--
Ca4_P3_2032547	Ca4	2032547	CTGTGTGTGT/CTGTGTGT	TGCTGAGTTCGAGGAA AGGT	CACATCTCTTGTCGC TCCA	60.0	517	INTRON	Ca_07822	D	--
Ca4_P3_2032733	Ca4	2032733	A/AT	TGGAGCGAACAAAGAGA TGTG	AGCAGCTGCACCACTA ATCA	60.0	234	INTRON	Ca_07822	D	--

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 (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
Ca4_P3_2034429	Ca4	2034429	C/CA	ACCAGATACCGCACCA AAAG	TTCTGCATACTTGCTC CACG	60.0	352	INTRON	Ca_07822	D	--
Ca4_P3_2034663	Ca4	2034663	TACA/TACACA	ACCAGATACCGCACCA AAAG	AGTTGGCAAGTTTGTC AGGC	60.0	570	INTRON	Ca_07822	D	--
Ca4_P3_2035282	Ca4	2035282	GTTTTT/GTTTTTTT	CGCGCCAGAAGTATGT GATA	TGGGCAGCTTAGACTG GACT	59.9	275	INTRON	Ca_07822	D	--
Ca4_P3_2035697	Ca4	2035697	ATTT/AT	AGTCCAGTCTAAGCTG CCCA	TGGAATCATGCCATGC TAGA	60.0	436	DRR	Ca_07823	R	MYB
Ca4_P3_2035798	Ca4	2035798	A/AGTGT	AGTCCAGTCTAAGCTG CCCA	TGGAATCATGCCATGC TAGA	60.0	436	DRR	Ca_07823	R	MYB
Ca4_P3_20615648	Ca4	20615648	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT	CCATTGTCGTTGTGTT TGC	TGAATAATCTGCACGT CCCA	60.0	460	INTERGENIC	--	--	--
Ca4_P3_20650435	Ca4	20650435	TTATATATATATATATATATATAT/TT ATATATATATATATATATATAT	CGTGTGAGAAAACCTC GACA	CACCCTTACAAGTCGC CATT	59.9	733	INTERGENIC	--	--	--
Ca4_P3_20709240	Ca4	20709240	ATTTTTT/ATTTTTTTT	ACTTTGCCCATCAGTTT TGC	TCCGTTGGTGAAAGTT TGAA	60.1	251	INTERGENIC	--	--	--
Ca4_P3_20773849	Ca4	20773849	CTTATTATTATTAT/CTTATTATTATTAT TAT	TCTCGGCTGAAGGAAC AGAT	AGCGGAACAACGACAA GATT	60.0	524	INTRON	Ca_17170	--	E2F/DP
Ca4_P3_20798832	Ca4	20798832	TTTTATTATTATTATTATT/TTTTATTAT TTATT	TAGTGCTTTTGCATGCC TCA	TTTGCTCTGGGAAAT GCTC	60.5	316	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 (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
Ca4_P3_20884613	Ca4	20884613	AATATATATATATATATATATAT/AATAT ATATATATATATATATATATAT	TCGGTTATAGAGATTAA ACTCGGG	CAGAAAATAGAAACGG AAAATTCG	59.9	391	INTERGENIC	--	--	--
Ca4_P3_20962664	Ca4	20962664	AATATATATATATATATATATATATAT ATATAT/AATATATATATATATATATA TATATATATATATATAT	TGGTCAAATCTTTCTT TGGAA	GATTTAACCATTTTCATC CTCATTG	58.7	743	INTERGENIC	--	--	--
Ca4_P3_20962865	Ca4	20962865	TTATATATATATATATATATATATAT/TT ATATATATATATATATATATAT	AAGAAAGGAGAATGAT AAGATCTCAAA	GCCAACTGCTTCAGCT TTTC	59.3	827	INTERGENIC	--	--	--
Ca4_P3_20977808	Ca4	20977808	TA/TAA	ACATTGCCTTGTGCATA CCA	CTCAAGCAAACACCTC GACA	60.0	493	INTERGENIC	--	--	--
Ca4_P3_21047816	Ca4	21047816	TATAATAATAATAATAATAA/TATAA TAATAATAATAATAATAA	CCTACCGGACCGTTTG TCTA	GCAGATCAATTTAACC GCATT	60.0	711	INTERGENIC	--	--	--
Ca4_P3_21071879	Ca4	21071879	T/TA	AATTGAGTGATCGAGT CGGC	ATGACGCGTGCCAAT TACA	60.2	837	INTERGENIC	--	--	--
Ca4_P3_21072127	Ca4	21072127	AG/A	TCTGTTTGGCAAGAAG AAGAAA	ATGACGCGTGCCAAT TACA	59.1	716	INTERGENIC	--	--	--
Ca4_P3_21082826	Ca4	21082826	AAATAATAATAATAATAATAA/AAAT AATAATAATAATAATAA	GTGCGTGCCTTGGGAT TTTA	CGAACTGAAGAACGAT TAGGTG	61.0	332	INTERGENIC	--	--	--
Ca4_P3_21134274	Ca4	21134274	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	ACAAGTCGCCTTTTGG AATG	TCACCTCCAAATCTCG AACA	60.1	521	INTERGENIC	--	--	--
Ca4_P3_2121744	Ca4	2121744	TCCC/TCCCC	TGCCATAAGCAAATCAC CAA	ACTGGAACCGTGCA TAGC	60.1	708	DRR	Ca_07832	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 (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
Ca4_P3_21226048	Ca4	21226048	AAA/AAAAAGGAA	CACGGCTCTACGAAGG AAAG	TGAACACCCCAAGGT TAAG	60.0	287	INTERGENIC	--	--	--
Ca4_P3_21230858	Ca4	21230858	CATATATATATATATATA/CATATATATA TATATA	GGTCTGCATTTTACACC GCT	AGTGCCTCGTCAAAC AAAT	60.1	920	DRR	Ca_19058	--	Trihelix
Ca4_P3_21261688	Ca4	21261688	AATATATATATATATATATATATATAT ATATATA/AATATATATATATATATAT ATATATATATATATATATATATA	GAAAAATTTGCTGAGCT GGTG	TGCGACAGAATCTTAA TGTGC	59.9	485	INTERGENIC	--	--	--
Ca4_P3_21308758	Ca4	21308758	CAAAAAA/CAAAAAA	TTGCTCCTCTGGTCCT CACT	CGTTCACGTTCTCCA TTTTT	60.0	854	INTERGENIC	--	--	--
Ca4_P3_21426612	Ca4	21426612	ATTTTT/ATTTTTT	TGCAGATAAATGGCCA AACA	AGAACGTTGCCAGAG AAGA	60.1	370	INTERGENIC	--	--	--
Ca4_P3_21529168	Ca4	21529168	CAAAA/CAA	TGGGGGATTGTATTCC AAAA	TATGGAATGGACCTCC TGCT	60.0	499	INTERGENIC	--	--	--
Ca4_P3_21529241	Ca4	21529241	TATGAATGAA/TATGAA	TGGGGGATTGTATTCC AAAA	TATGGAATGGACCTCC TGCT	60.0	499	INTERGENIC	--	--	--
Ca4_P3_21622605	Ca4	21622605	TAATGTAAAA/TAATGTAAAAAATG TTAAAA	CGTGTATATACGCACA CCCAA	GTTTTGGCGTTGGTTT CACT	59.4	805	INTERGENIC	--	--	--
Ca4_P3_21622678	Ca4	21622678	ATGTG/ATGTGTG	CGTGTATATACGCACA CCCAA	GTTTTGGCGTTGGTTT CACT	59.4	805	INTERGENIC	--	--	--
Ca4_P3_21703341	Ca4	21703341	AATATATATATATATATATA/AATATA TATATATATATATATATA	TAAAGGACCAAGTCGG GAAA	TGCACGTGTATACGAG ACGG	59.5	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 (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
Ca4_P3_21728459	Ca4	21728459	TAA/TAATAATAATAAAAA	CCATTTCTGTTGCTCCAT CTT	TGGTTTTTGTGTTTG GTTTCT	60.1	267	INTERGENIC	--	--	--
Ca4_P3_21755010	Ca4	21755010	GAAAAAAA/GAAAAAA	CGATCAAGTGTGCGAAA AACTACC	TGATGGAACCAAAGTC CAAA	60.0	448	INTERGENIC	--	--	--
Ca4_P3_21767863	Ca4	21767863	ATATTATTATTATTATTATTATTATT ATTAT/ATATTATTATTATTATTATT ATTATTAT	AATCACCCGAAACGAG ATTG	TCGTTTTTCACATAAGC GTTTT	59.9	632	INTERGENIC	--	--	--
Ca4_P3_21790580	Ca4	21790580	CAAAAAAAAA/CAAAAAAAAAAAAA	GGGGAATTTAGAAAAT CGTGC	CACCATCCTGCATGTG AATC	59.8	921	INTERGENIC	--	--	--
Ca4_P3_21804779	Ca4	21804779	CTGT/CTGTTATGT	CCGCATCATAAACAGC CTTT	CTAAAGCTGGTGCTTT TGCC	60.1	159	INTERGENIC	--	--	--
Ca4_P3_21933188	Ca4	21933188	GAAAAAAAAAAAA/GAAAAAAAAAAAA	GTTGGGCAATGGATCT GAAT	TGCTCACCGTTTGATC TTTG	59.8	862	DRR	Ca_20146	--	--
Ca4_P3_21936546	Ca4	21936546	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTAT TTATTAT/TTTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTAT	TGAACACCCCAAGGT TAAG	TGGTTGCAGGTAAGGG TAGG	59.8	532	INTERGENIC	--	--	--
Ca4_P3_21986042	Ca4	21986042	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATATA TAT	TAATGAGCTTGGAACG ACCC	GGCGGGAGATCAGAA CATT	60.1	344	INTERGENIC	--	--	--
Ca4_P3_22052693	Ca4	22052693	TTTATTATTATTATTATTATTATTAT TATT/TTTATTATTATTATTATTATTA TTATTATTAT	AACATGTCCAAACGTTG CTG	GGATGCGACCTCCTAC TACG	59.6	505	INTERGENIC	--	--	--
Ca4_P3_22073219	Ca4	22073219	AATATATATATATATATATATA/AATA TATATATATATATATATATA	TGCAATTGACCTGTAAA TCCTG	CCTGACAATTTTCCTC CTCG	60.0	820	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 (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
Ca4_P3_22134752	Ca4	22134752	TT/TTGTTGT	ATTTTGGTGCATGGTT TCC	TTTGATGCCACATTG AAGA	59.7	900	DRR	Ca_20134	J	--
Ca4_P3_22134995	Ca4	22134995	CATAT/CAT	GCACCTATGGTGGCAA AAAC	TTTGATGCCACATTG AAGA	60.4	506	DRR	Ca_20134	J	--
Ca4_P3_22233819	Ca4	22233819	TTATATATATATATATATATAT/TT ATATATATATATATATATAT	GTGAAATTGAGGCATG AGCA	CGAAGCTCCCTACTTC GTTG	59.8	843	INTERGENIC	--	--	--
Ca4_P3_2233798	Ca4	2233798	CT/C	TTCATTCTCGGGGAAC TAGC	TTGTTATTTAGTCTTGC TTGCCA	59.3	264	INTERGENIC	--	--	--
Ca4_P3_22366283	Ca4	22366283	CTTTTT/CTTTTTTT	TGGGTGAAATCCATTG AGGT	GTTCTGGAACATTTCC CCCT	60.2	494	INTERGENIC	--	--	--
Ca4_P3_22441886	Ca4	22441886	CTA/CTATA	TCCAATGGTGGAAAATA AACG	TCAATCACAAATTTCAA GGAGG	59.7	848	INTERGENIC	--	--	--
Ca4_P3_22546535	Ca4	22546535	AATATATATATA/AATATATATATA TA	CATTTTGGTTCAAAGC CGT	CCAGGGGATGAGATCA TAGG	60.0	714	INTERGENIC	--	--	--
Ca4_P3_22649924	Ca4	22649924	A/AT	CCGTCCAAATCAAATGA AAAC	CATTTACCATGTGCTTT TTATGC	59.3	491	INTERGENIC	--	--	--
Ca4_P3_22663018	Ca4	22663018	ATTTTTTT/ATTTTTTTTT	ACCCCTCTTCTCGTG TTTT	AGGCTCAGGCAACTAG GGAT	60.0	536	INTERGENIC	--	--	--
Ca4_P3_22666443	Ca4	22666443	ATTCTACTTT/ATTT	CATCCAGTGGTTGCGA GTTA	GTGTACAAACCATGT TGCG	59.7	632	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
Ca4_P3_22667999	Ca4	22667999	ATTTTTTTT/ATTTTTTTT	GTGAAGCTAGCAAGCC GAAG	TGAATGAAAGGACGGG AAAC	60.3	656	INTERGENIC	--	--	--
Ca4_P3_22674188	Ca4	22674188	CAAAAAAAAA/CAAAAAAAAA	AATGCATGTTGCACCA CAGT	GCTGAAAAGGAAGGA AAGG	60.0	292	INTERGENIC	--	--	--
Ca4_P3_22702413	Ca4	22702413	CTTGAAA/CTTGAAATTTTTTGAAA	GTCATTTGAAACGTGG GCTT	CATGTTGGAGGGGCTA AAAA	60.0	717	INTERGENIC	--	--	--
Ca4_P3_22702531	Ca4	22702531	TT/TTTTTTTTCT	GGCTTAAGAGAGGGGG TTCA	CATGTTGGAGGGGCTA AAAA	60.6	314	INTERGENIC	--	--	--
Ca4_P3_22703292	Ca4	22703292	AT/ATGT	GTGCAACAAGGAGCA ACAA	AATATCGGACCAAGAC GACG	59.9	717	INTERGENIC	--	--	--
Ca4_P3_22719475	Ca4	22719475	A/AT	ACACGTCATTGTTTTG GCA	TGTTGCAATAGAAGGT CGCA	60.0	390	INTERGENIC	--	--	--
Ca4_P3_22723588	Ca4	22723588	AC/A	CATGACGACTTTACCCA GCA	AAGAGAGGAGAGGTA GCGGG	59.7	784	DRR	Ca_14476	--	--
Ca4_P3_22723629	Ca4	22723629	CTTTTT/CTTTT	TCTAACACCGGCAACA TCAA	AGGCCACGAAAGTGAA GAGA	60.1	527	DRR	Ca_14476	--	--
Ca4_P3_22727990	Ca4	22727990	TAAAAAAAA/TAAAAAAAA	AACCTATTTATCCAAC AACAAATGTC	GGGACAAACGTTTTTG CTATG	57.4	257	INTERGENIC	--	--	--
Ca4_P3_22728327	Ca4	22728327	ATTTTTTTTT/ATTTTTTTT	GCAAAAACGTTTGTC CTTG	CCATCGTAGTTGACAA ATGGC	60.5	315	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
Ca4_P3_22728505	Ca4	22728505	GTTG/GTTGTTTTTG	GCAAAAACGTTTGTCC CTTG	TCAGTGTGTCAGCA CGTT	60.5	459	INTERGENIC	--	--	--
Ca4_P3_22750911	Ca4	22750911	CTAATTAAT/CTAAT	CAAGTGTCTCATTGCA ATTCA	CCGAGGCCTCTTATTC TCAA	58.8	955	INTERGENIC	--	--	--
Ca4_P3_22752532	Ca4	22752532	CTAA/CTAATAA	AGGACAAATCCGCAAC AAAC	GCCGAGGAATATGTT CATTG	60.0	523	INTERGENIC	--	--	--
Ca4_P3_22752758	Ca4	22752758	ATTTTT/ATTTTTTT	AGTGGTGGAGGGTATC AACG	CAAAGCCGACTCAGAT CACA	59.8	853	INTERGENIC	--	--	--
Ca4_P3_22762970	Ca4	22762970	ATTTTTTTTT/ATTTTTTT	TGGTGATTTTTGCCGA TGA	ATTGACCTTGGGTTGT GCAT	59.9	699	INTERGENIC	--	--	--
Ca4_P3_22763617	Ca4	22763617	CAAAAAAAAA/CAAAAAAAAA	ATGCACAACCCAAGGT CAAT	AAAGTGCTGTTTGGT TCGG	60.2	434	INTERGENIC	--	--	--
Ca4_P3_22766863	Ca4	22766863	T/TGG	GCATAATCAAAAGCATT GGC	ATCGATTCTCAGTTGG ACCG	58.3	756	INTERGENIC	--	--	--
Ca4_P3_22768044	Ca4	22768044	CAA/CA	AGGATGACCTCGTGAG AGGA	GGTCTGCATTAGCCT TTGC	59.8	257	INTERGENIC	--	--	--
Ca4_P3_22780788	Ca4	22780788	TAAAA/TAAA	GTCCCAACCATTTGTC GTAG	TCCACACGTTTTTGA TATTG	60.2	668	INTERGENIC	--	--	--
Ca4_P3_22782656	Ca4	22782656	TTATAAATATACAT/TTATAAATATACAT ATAAATATACAT	AAGAGCAGGACAAATT AATGAGA	TTTGCCATTGATGAATT GGA	57.2	733	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
Ca4_P3_22791089	Ca4	22791089	CAAAAAAAAA/CAAAAAAAAA	AAATGCGCAATGCAT CAA	GTGACTTTAGAGCCG CATC	60.1	691	INTERGENIC	--	--	--
Ca4_P3_22792153	Ca4	22792153	GAAAAAAAA/GAAAAAAAA	CTCATTTTCATTACCG GCT	ACGAAGCATTAGGCAT GGAT	60.1	931	DRR	Ca_14472	--	--
Ca4_P3_22793825	Ca4	22793825	GTTTTTTTTT/GTTTTTTTTT	AGGAGGCAAGACGAA ACAG	TGAAGTTCTGCCACTC GTCA	59.5	572	DRR	Ca_14472	--	--
Ca4_P3_22797432	Ca4	22797432	CTTTTT/CTTTTT	TGCGCTGGGGATTTT ATAC	TTATTCGGAGCGCAA TACC	59.9	455	INTERGENIC	--	--	--
Ca4_P3_22799504	Ca4	22799504	AAATAA/AAA	CCAACACACCAAGACA GTGG	TCACACACAAATCACA CCGA	60.0	213	INTERGENIC	--	--	--
Ca4_P3_22799819	Ca4	22799819	TAAAAAA/TAAAAAA	CCAACACACCAAGACA GTGG	TTGATCAATCGGTCA CAAA	60.0	807	INTERGENIC	--	--	--
Ca4_P3_22803782	Ca4	22803782	TA/T	CAAAGTTCCTCAAAAG CAGG	ATCCTGCCGTCATATG CTTC	59.8	682	INTRON	Ca_14471	Q	Nin-like
Ca4_P3_22806695	Ca4	22806695	TA/T	AAAAGAGCCGTCACAT CCAC	CTGCCTGCAAATCACA AATG	60.1	591	INTRON	Ca_14471	Q	Nin-like
Ca4_P3_22808161	Ca4	22808161	A/AC	CATGGTTTTCGCTTACC GTT	TTGGGTGATGTGGCAA AATA	60.0	559	DRR	Ca_14470	H	--
Ca4_P3_22808420	Ca4	22808420	GAAAA/GAAA	CATGGTTTTCGCTTACC GTT	TTGGGTGATGTGGCAA AATA	60.0	559	DRR	Ca_14471	Q	Nin-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 (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
Ca4_P3_22816167	Ca4	22816167	A/AGGGAATAG	TCCCAAATGAGTTGGT GGAT	AAGAGGAGACGGAGA CTGCC	60.2	107	INTERGENIC	--	--	--
Ca4_P3_22816244	Ca4	22816244	AGGGG/AGG	TCCCAAATGAGTTGGT GGAT	CAATTCCAAATCAAAG CAAAC	60.2	358	INTERGENIC	--	--	--
Ca4_P3_22818473	Ca4	22818473	GTATATATATAT/GTATATATATATAT	CAATTGCATGTTGAAAT GGTG	TGGCCATATTGTTTT GCAT	59.8	821	INTERGENIC	--	--	--
Ca4_P3_22824416	Ca4	22824416	CCGT/CCGTACGT	TCTATCCCCGGTGTGA AGC	TGCACTCTAATGGGAT TATTTTGA	60.1	147	INTERGENIC	--	--	--
Ca4_P3_22825336	Ca4	22825336	TTT/TTTGT	TGGCTTCATAGTAAGA GAGTGAA	AAATAACGTGCACGG GGAT	59.5	546	INTERGENIC	--	--	--
Ca4_P3_22867161	Ca4	22867161	ATTTT/ATTTT	TCACCACTGACCAACC CTTT	CACCACCACCACAAAA CACT	60.4	485	INTERGENIC	--	--	--
Ca4_P3_22867230	Ca4	22867230	TTCTATTCAT/TTCTATTCATCTATTCAT	TCACCACTGACCAACC CTTT	CACCACCACCACAAAA CACT	60.4	485	INTERGENIC	--	--	--
Ca4_P3_22867454	Ca4	22867454	GAAAAAAAA/GAAAAAAAA	GATCTTCATCCCCTGCA GAC	CACCACCACCACAAAA CACT	59.6	292	INTERGENIC	--	--	--
Ca4_P3_22870716	Ca4	22870716	A/AC	GGAATCGGTGAAACC AAAA	AGGTAACGCGATTTTA TGCG	59.8	786	INTERGENIC	--	--	--
Ca4_P3_22874517	Ca4	22874517	TAAAA/TAAAAA	GAACTCCAGATATGGC GGAA	ACATTGGCCTCTCCAT CAAC	60.0	336	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
Ca4_P3_22877356	Ca4	22877356	CAAAAAAAAA/CAAAAAAAAA	AATTCATGAAGTCGCC ACC	GGAGATCGCAGGAG CAAGA	59.9	362	INTERGENIC	--	--	--
Ca4_P3_22880077	Ca4	22880077	GTTTTT/GTTTTTT	GTGACCGTCTTCGGAT TGTT	TTTGCCTCGAAAAAG CAGT	60.0	360	INTERGENIC	--	--	--
Ca4_P3_22880803	Ca4	22880803	TCCCC/TCCCC	AGTTACAACGTGGGA CGAG	CCTGAATTACGAAGG ACCA	60.0	359	INTERGENIC	--	--	--
Ca4_P3_2288480	Ca4	2288480	AA/AATTCATGAATTTGTA	CACCCCTGTGCTTAAT GCTT	ACCGAGTGTGCAACTC AAGG	60.1	523	INTERGENIC	--	--	--
Ca4_P3_22889580	Ca4	22889580	AC/A	GGGTGAGATACTTAC AACCA	TCCACCCCAATTTTA TCA	60.1	717	INTERGENIC	--	--	--
Ca4_P3_22890995	Ca4	22890995	AGCAAGATTT/AGCAAGATTTATTT TGGCAAGATTT	TTGCGATTTTGCTCCTA CCT	AGGCGCAACTGCATT TACT	59.8	526	INTERGENIC	--	--	--
Ca4_P3_22897920	Ca4	22897920	ATTTTTTTT/ATTTTTTTTT	GGTTGGCTTGATCT CCAT	TGCTTGTGCTGAAA CCTG	59.9	463	INTERGENIC	--	--	--
Ca4_P3_22898104	Ca4	22898104	ATTTTTTT/ATTTTTTTT	GGTTGGCTTGATCT CCAT	CCCTTTAAGTGGGTT CCAT	59.9	797	INTERGENIC	--	--	--
Ca4_P3_22911497	Ca4	22911497	AC/A	TTTGTTCATTTGTTT CTTCG	GAAGACTCTCCACGT CAGG	60.1	441	DRR	Ca_14462	J	--
Ca4_P3_22915979	Ca4	22915979	GTTTTT/GTTTTTT	GGTGAAGGCTTACGA AACA	ACTCGGTGGATGGAAG ACAC	60.1	333	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
Ca4_P3_22921547	Ca4	22921547	TAA/TAAATAAATAAAAAA	TCGTCCGAACACAATC ACAT	TGATCTCGTGCTTCTA CGTGTT	60.0	311	INTERGENIC	--	--	--
Ca4_P3_22936991	Ca4	22936991	CAAAAAAAAAAAAA/CAAAAAAAAAA	TGTGAGCAAATGGGAA AAGA	GTTTGGGTCCTTGGG AGTT	59.2	828	INTRON	Ca_14461	--	--
Ca4_P3_22938166	Ca4	22938166	ATTGTTG/ATTG	GATCTTTTGGGCCAG TCAA	CCAAGATGGTCTTGC CATT	60.1	343	INTRON	Ca_14461	--	--
Ca4_P3_22947175	Ca4	22947175	CAAAA/CAAA	AACCACCACGGATCAA AGAG	TTAAATGGGGATTGT TGGA	60.0	966	INTRON	Ca_14461	--	--
Ca4_P3_22947623	Ca4	22947623	TTGTTCCAACCCTGTTCCAACCC/TTGT TCCAACCC	ACGCCCCATAGTTACC TTCC	TTAAATGGGGATTGT TGGA	60.2	531	INTRON	Ca_14461	--	--
Ca4_P3_22965696	Ca4	22965696	TAAAAAAAAAAAA/TAAAAAAAAA	CGGCTTTGTACATTGT TTG	AATTCAAACCCCACTT CCTT	60.1	369	INTERGENIC	--	--	--
Ca4_P3_22981123	Ca4	22981123	ATTTTTTT/ATTTTTTTTTT	CGACGAAACGCCTTAA AAAG	TTTTGTCATGTTTGC AGGT	59.9	797	INTERGENIC	--	--	--
Ca4_P3_22981343	Ca4	22981343	ATTTTTTT/ATTTTTTT	TCCGCCGTTCTAAATTC TTG	CAAGCCCTCTCCCTCT CTTC	60.2	874	INTERGENIC	--	--	--
Ca4_P3_22984986	Ca4	22984986	CTTTTTTT/CTTTTTTT	CCTCATTCTTCGTTTA CGTGG	AATGATCGTGGCTAG TGCG	60.9	563	INTERGENIC	--	--	--
Ca4_P3_22986496	Ca4	22986496	TAAAAAAAAAAAA/TAAAAAAAAA	ACTTTAGCGCGCCTTT CAT	GCCAACAAAAGAGGAA GAAAA	60.0	984	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 (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
Ca4_P3_23002623	Ca4	23002623	TTTACTATTACTATT/TTTACTATTACTA TTACTATT	TTTATGGCGGCTGGTT TTAC	ACGATGCATTGATTG ATGTT	60.0	546	INTERGENIC	--	--	--
Ca4_P3_23014862	Ca4	23014862	CATATATA/CATATATATA	GAACATGTGCGTGCTA CGTT	GCTGTTCAAAGGGCTA GACG	59.8	756	INTERGENIC	--	--	--
Ca4_P3_23027613	Ca4	23027613	AGG/AGGG	GATGTTGGGAAGGGTG GTTA	AAGGTTTGATCGAT TCGT	59.6	622	INTERGENIC	--	--	--
Ca4_P3_23030651	Ca4	23030651	ATTGACACATGACTTTGACACA/ATTGA CACA	TGGACGTGAGTGGTTC ACAT	TTGAACACATCATTTAG ATACACAAAA	60.0	304	INTERGENIC	--	--	--
Ca4_P3_23032839	Ca4	23032839	ATAAAAAT/A	TGGTTGTTGTGTATCG TTGC	TTCATGTCGGGATCAT CAGA	59.5	895	INTERGENIC	--	--	--
Ca4_P3_23049056	Ca4	23049056	TGGG/TGGGG	ATAGGCGAGAAGAGCA ACCA	TATTTTGAACGATCGG GAGG	60.0	783	INTERGENIC	--	--	--
Ca4_P3_23056430	Ca4	23056430	TAAAAAAAA/TAAAAAAAAA	ATGAATAGCATGCCAC GACA	TCATGTGGGCTCATT GGTA	60.1	771	INTERGENIC	--	--	--
Ca4_P3_23056577	Ca4	23056577	TAAAAAAAA/TAAAAAAAAA	ATGAATAGCATGCCAC GACA	TCATGTGGGCTCATT GGTA	60.1	771	INTERGENIC	--	--	--
Ca4_P3_23059712	Ca4	23059712	CTTTT/CTTT	TCATTGTTTGTGCAGT TTTG	TTTAATTTCCCTGCACC CCT	59.8	612	INTERGENIC	--	--	--
Ca4_P3_23067580	Ca4	23067580	TTGAATGAATGAATGAATGAAT/TT TGAATGAATGAATGAATGAAT	CGGAAATACTGACCG CAAT	GGAATCGAAATCGTG GAAA	60.0	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 (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
Ca4_P3_23067690	Ca4	23067690	GTTTTTTTTT/GTTTTTTTTT	CGGAAATAACTGACCG CAAT	GGAATCGAAAGTCGTG GAAA	60.0	373	INTERGENIC	--	--	--
Ca4_P3_23067844	Ca4	23067844	GTAATTAATAAATTAATAA/GTAATTAA ATAA	CGGAAATAACTGACCG CAAT	TTCAATCGCAAATTTTA CCG	60.0	608	INTERGENIC	--	--	--
Ca4_P3_23076109	Ca4	23076109	CTTT/CTTTT	TGGCATTGCAAGAAGA AACA	CCTCTTCAACACCTTT GGC	60.4	760	INTERGENIC	--	--	--
Ca4_P3_23078922	Ca4	23078922	CAAAAAAAAAA/CAAAAAAAAAAA AAA	CCTGTTTTGGTTCAAGC CAT	ATGTTAAGGGACCGCA AATG	60.0	446	INTERGENIC	--	--	--
Ca4_P3_23099904	Ca4	23099904	TTAT/TT	ACGATGCACGAATGTG ATGT	GTCTGATCTGGCCTGA AAGC	60.0	658	INTERGENIC	--	--	--
Ca4_P3_23102309	Ca4	23102309	GATA/GA	TGAGTCCCAACTTTTT GTCG	TCCTAGGACCCTCCCA ACTT	60.1	197	INTERGENIC	--	--	--
Ca4_P3_23107392	Ca4	23107392	T/TTTTTA	GGCCAAATTGCGTAAA ACAT	AGTGACAGCCGAAGCA AAGT	59.8	445	DRR	Ca_14456	--	--
Ca4_P3_23117240	Ca4	23117240	TC/TCAAC	GCACATTCGAACCTTTC CAT	GATCATCGAGTTTCCC GTGT	59.9	739	INTERGENIC	--	--	--
Ca4_P3_23118669	Ca4	23118669	ACC/AC	TCCATCAAATGCTTTCA CCA	AGCACCAAACCTTTT CCTT	60.0	578	INTERGENIC	--	--	--
Ca4_P3_23134474	Ca4	23134474	ATTGTTGTGT/ATTGTTGT	ATGCTGCGAAATTGTT GAAA	AAAAGCGTTGTAAATT GGATTGA	59.3	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_23135135	Ca4	23135135	ATTTTTTTT/ATTTTTTT	ATTCAGCAATGAGAGG TCCG	CCCTTCTGTGTTTCATC CCAC	60.2	266	INTERGENIC	--	--	--
Ca4_P3_23135482	Ca4	23135482	GAAAAAA/GAAAAA	ATTCAGCAATGAGAGG TCCG	GATGATGCATGCCATT TGAG	60.2	752	INTERGENIC	--	--	--
Ca4_P3_23135678	Ca4	23135678	CGG/CG	GGGATGAACACAGAAG GGTG	GATGATGCATGCCATT TGAG	60.4	504	INTERGENIC	--	--	--
Ca4_P3_23145296	Ca4	23145296	TAAAAAAA/TAAAAAAA	TGCATGTTTCATGGTGA TCC	CACCAATTACAGTGGC ATCAA	60.3	680	INTERGENIC	--	--	--
Ca4_P3_23145659	Ca4	23145659	ATTTTTTT/ATTTTTTT	TGGGAACCTAGGATTC CGTTC	CAAATTTGAATCCGCC TACTG	60.3	587	INTERGENIC	--	--	--
Ca4_P3_23145983	Ca4	23145983	GATATATA/GATA	GCTTGAGGATTCAGTA GGCG	GAGTGGAGGACCACAT GTCA	60.0	408	INTERGENIC	--	--	--
Ca4_P3_23272983	Ca4	23272983	ATTTTTTTTT/ATTTTTTTTT	ACCACATCGGAAGAAA CGAC	GGACGAAGTAGAACG GACCA	60.0	596	INTERGENIC	--	--	--
Ca4_P3_23307347	Ca4	23307347	CATATATATATATATATA/CATATATA TATATATATA	TACTGTCCTTGCTCCA GGCT	TGACACGTCAACGGCA TAAT	60.0	781	INTERGENIC	--	--	--
Ca4_P3_23361352	Ca4	23361352	TCAGTC/TCAGTCCAGTC	CAAGCCCAATCAAAAC CTGT	GAGCTTGCTGGAACG GAAC	60.0	355	CDS (large-effect mutations)	Ca_14445	--	--
Ca4_P3_23421612	Ca4	23421612	TT/TTGT	GATGCCAGATGGGTAT GCTT	CGTTGCAATTGATGAG GATG	59.9	703	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
Ca4_P3_23480946	Ca4	23480946	AATATATATATATATATATATATATAT A/AATATATATATATATATATATATA	GGGGTGGATTTTGTCTTCA	AACTGCACCCGCAGATACT	59.8	514	INTERGENIC	--	--	--
Ca4_P3_23525491	Ca4	23525491	GTTTTTTTTT/GTTTTTTTTT	TGAGATTATATGCACGGGA	TGAATCGCGAAAGTAGTCCC	60.2	574	INTERGENIC	--	--	--
Ca4_P3_23721197	Ca4	23721197	TAAACA/TAAACAAAACA	ATTTGTGTGCATTGGCTGA	TGGCAATCGACTGACTAAA	60.1	353	INTERGENIC	--	--	--
Ca4_P3_23828073	Ca4	23828073	G/GAACAGCAGA	TGTTGAAAACGGTCCGTACA	CTTCATCCGAAGAGGCAGAG	60.0	744	INTERGENIC	--	--	--
Ca4_P3_23850671	Ca4	23850671	CTTTTTTTTT/CTTTTTTTTT	TGACGCTTTCACACAGAAT	AAATGTGTTTTATGGGTAAAGCTC	60.3	566	INTERGENIC	--	--	--
Ca4_P3_23942700	Ca4	23942700	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TTGTCTCAACAATCTCCC	AAGGACCAAAATGGAAAGGG	59.9	581	INTERGENIC	--	--	--
Ca4_P3_23965497	Ca4	23965497	CTTTTTTTTT/CTTTTTTTTT	TTCATGCAAAATGTTCAAGACC	AATGGGGTTTAGGGTTTCG	60.0	607	INTERGENIC	--	--	--
Ca4_P3_24115264	Ca4	24115264	AAATAATAATAATAATA/AAATAATA ATAATAATAATAATAATA	CACACGTGCATGGATAGAGG	TTCACCGTGGATGAATTGA	60.1	341	INTERGENIC	--	--	--
Ca4_P3_24147447	Ca4	24147447	TAA/TAAAAA	GGAAAACGACTTACACCCGA	TCCCCTTTGTCTTCTGTGG	60.0	813	INTERGENIC	--	--	--
Ca4_P3_24259985	Ca4	24259985	TAAAAAA/TAAAAAA	TAGTGGAATTTGAGGCGCA	AAGGAGAGATAAGCTCCGC	60.4	626	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
Ca4_P3_24326964	Ca4	24326964	TAAAAAAAAA/TAAAAAAAAA	CTGGGCAAGGGATCTG AATA	AATGCCACCCATAAT TTCA	60.0	646	INTERGENIC	--	--	--
Ca4_P3_24355412	Ca4	24355412	AATATATATATAT/AATATATATATATAT	TGCCATTTTCAAATTG TGG	AGGCACACCTTGTAGC CAAC	59.4	376	INTERGENIC	--	--	--
Ca4_P3_24362931	Ca4	24362931	TAA/TA	GGTTTAGATGGGGGAT CGTT	CCCCGAGTTGGTCCTT TATT	60.0	947	INTERGENIC	--	--	--
Ca4_P3_24373144	Ca4	24373144	GAAAA/GAAAAA	GGCGTAAACCCAAAA CGTA	TTGTTTGCAGAGATT GCAC	59.9	270	INTERGENIC	--	--	--
Ca4_P3_24425317	Ca4	24425317	GTTT/GTTTT	TGGGGTGTTTCATAGC ATCA	ACCGTTTAATTGGCGA ACAG	59.9	267	INTERGENIC	--	--	--
Ca4_P3_24427573	Ca4	24427573	GTT/GTTT	CTGGAAATCCTCCTC CTCC	TTCGTCTCAACAATCT CCCC	60.0	346	INTERGENIC	--	--	--
Ca4_P3_24438141	Ca4	24438141	CAAAAA/CAAAAA	CCGCTCTGGAAATCATT CAT	AAGACTCGGGATAATG GCCT	60.0	551	DRR	Ca_20867	--	--
Ca4_P3_24445284	Ca4	24445284	GC/GCC	CTCGCCAAATCCATACA CCT	CACAGCACCAGGTTAT CCCT	60.0	383	INTERGENIC	--	--	--
Ca4_P3_24446747	Ca4	24446747	GATAATAATAATAATAATAATAATA ATAATAATA/GATAATAATAATAATA ATAATA	TGAGGTTAGGAAGTGT GGGG	TCCATCAAGATTGCAC CACA	60.0	300	INTERGENIC	--	--	--
Ca4_P3_2445623	Ca4	2445623	AATATATATATATATATATATATATAT ATATATATA/AATATATATATATATAT ATATATATATATATATATATATATATA TA	GGAGGTCACAACCACT CCAA	CGGACTTTCGACTTTC TTGC	61.0	654	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 (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
Ca4_P3_24473624	Ca4	24473624	T/TA	GAGCTTAGACGCCAC AAAG	TTGTAGTTGAGTTCGC ACAAAAA	60.0	743	INTERGENIC	--	--	--
Ca4_P3_24478956	Ca4	24478956	CAA/CAAA	CGGTTCTACACAAGTT GCGA	TCGATTATGCGTAGGG AAGG	59.9	746	INTERGENIC	--	--	--
Ca4_P3_24479035	Ca4	24479035	ATTTTTTT/ATTTTTTTTT	CGGTTCTACACAAGTT GCGA	TCGATTATGCGTAGGG AAGG	59.9	746	INTERGENIC	--	--	--
Ca4_P3_24488859	Ca4	24488859	TAAA/TAAAA	TTGGAACATGCAAAAT GGA	CGATACTCACCCCTCG TTGT	60.0	557	INTERGENIC	--	--	--
Ca4_P3_24502640	Ca4	24502640	ATTTTTTTTT/ATTTTTTTTT	TTGCCTGTTACCCTATT CGC	TCTTGCCACGAACGTA TCAC	60.1	938	INTERGENIC	--	--	--
Ca4_P3_24510502	Ca4	24510502	CTGGAACATTGGAACATTG/CTGGAAC ATTG	CTGCAAAAGCCCTCAC AAAT	TCCTCTTGACACCAC AAGA	60.2	969	INTERGENIC	--	--	--
Ca4_P3_24518915	Ca4	24518915	GTTTTTTTTT/GTTTTTTTTT	TCATGTTCGGACAAGT GAGC	TGTTCCAACAACATT TCCA	59.8	437	INTERGENIC	--	--	--
Ca4_P3_24553809	Ca4	24553809	ATTTTTTTTT/ATTTTTTTTT	TGGTGCGATTGTGGAA AATA	TTCTTTGGTGGTTGAA TTTTGTT	59.9	695	INTERGENIC	--	--	--
Ca4_P3_24597173	Ca4	24597173	TAAAAAAAAA/TAAAAAAAAA	TGTCACGACAATATTGG ATGATT	CCTTTAGAGGACCACC AATGTC	59.2	482	INTERGENIC	--	--	--
Ca4_P3_24607917	Ca4	24607917	GATGAATGAATGAATGAATGAAT GAATGA/GATGAATGAATGAATGAATG AATGAATGA	CTTCAGGGCCGAAAAAT AACA	CGAAACATCCCTCCT TTCA	60.1	404	INTRON	Ca_20857	--	--

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
Ca4_P3_24624388	Ca4	24624388	AA/AATA	TTCACCTGGGCTAAATG CCT	TTGAACAATCCAAGG CACA	59.7	693	INTERGENIC	--	--	--
Ca4_P3_24624996	Ca4	24624996	CTTTTTTTTT/CTTTTTTTTTT	GTGTGCCTTGGAATTG TTCA	CATTGCCAACTCACC AAAA	59.5	461	INTERGENIC	--	--	--
Ca4_P3_24651558	Ca4	24651558	TAAA/TAA	CAAGTGCCTTATTGCAA ATTCA	TTTTCATCCGGTAGAA GTCGTT	60.1	464	INTERGENIC	--	--	--
Ca4_P3_24677817	Ca4	24677817	ATTTTTTTTT/ATTTTTTTTTT	CACGAAAACCTTAAACC CCA	TCTTAAAGCGATGTA AAGGGC	59.8	526	INTERGENIC	--	--	--
Ca4_P3_24693623	Ca4	24693623	TC/TCC	AGGATGTGCTTCCAGG ATTG	CTTGCCGAACCATACC TTGT	60.1	594	INTERGENIC	--	--	--
Ca4_P3_24748886	Ca4	24748886	GAAAAAAAA/GAAAAAAAA	CAGACCACATCTGTG AGAAA	TTCCAAAATTTCTTCAA CACTCAA	59.7	629	INTERGENIC	--	--	--
Ca4_P3_24810166	Ca4	24810166	GAAAAAAAA/GAAAAAAAAA	GCTTTTCCTCCTGCCTT TTT	TTCTTGATATTGGCC TTCC	59.8	815	DRR	Ca_20849	--	--
Ca4_P3_24828297	Ca4	24828297	ATTTTTTTTT/ATTTTTTTTTT	TGGAATTCAGACTGC CTTG	GGGCACGAAGAAGCA CTATC	58.8	716	INTERGENIC	--	--	--
Ca4_P3_24874840	Ca4	24874840	ATACTCATTGTAACCTATTA/ATA	CACTGCTCGCAGAATG GTAA	AGGGATAACCTGGTGC TGTC	60.0	539	INTERGENIC	--	--	--
Ca4_P3_24897433	Ca4	24897433	GAAAAAAAA/GAAAAAAAAA	TGCACAAACCTTTCAAT GCT	TTTTTGAAATTTGAACG AAACA	59.3	775	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 (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
Ca4_P3_24997166	Ca4	24997166	T/TG	TGTTGAATGCTGAAACA GCC	CATCGGGGCTATGAGA CCTA	59.8	626	INTERGENIC	--	--	--
Ca4_P3_25036917	Ca4	25036917	T/TA	ATCCAAGTTGAGCAAG CATT	CATTGAGACTTTGCCA CGAA	57.4	605	INTERGENIC	--	--	--
Ca4_P3_25046968	Ca4	25046968	TGCTGAGCTGA/TGCTGA	ATGTTTCGTGCAATGGT CAA	AAGTCAAGGGCCAAA AACT	60.0	601	INTERGENIC	--	--	--
Ca4_P3_25071336	Ca4	25071336	CA/C	TGAGACTGCTTGGCTA CCCT	ATCTGAATCATCCCAA GCCA	60.0	488	INTERGENIC	--	--	--
Ca4_P3_25077409	Ca4	25077409	ATTTTTTT/ATTTTTTT	TGCAAAAACCTCAAGCA ATG	TTGTTATGGCTGGGGC TAAG	59.8	777	INTERGENIC	--	--	--
Ca4_P3_25088043	Ca4	25088043	CCT/CCTCCTTCTTCT	AACCTTCGCAAGAACC CTTC	ATCAATCTCGTTTTCTT GGG	60.6	219	INTERGENIC	--	--	--
Ca4_P3_25104814	Ca4	25104814	ACT/ACTCT	GATCGCAACTTGGATG TTCA	GGAAGGAAAGCTACCA AGGC	59.7	667	DRR	Ca_16560	--	--
Ca4_P3_25135426	Ca4	25135426	GTTTTTTT/GTTTTTTT	ATCAGTCCTTGGCAGC ATCT	GCAAAATATGGCTGAT GCAA	59.8	289	INTERGENIC	--	--	--
Ca4_P3_25145575	Ca4	25145575	TAAAAAAAA/TAAAAAAAA	TCACATGATCGAACGA AGACA	CCCATGTGCATGAGAC TTTG	60.3	845	INTERGENIC	--	--	--
Ca4_P3_25146347	Ca4	25146347	GAAAAAAAA/GAAAAAAAA	TCATCCTTGCCTCGATT AGG	GGAAATGCAAATCAAA ACCAA	60.2	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 (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
Ca4_P3_25152424	Ca4	25152424	ATTTTTTTTTTT/ATTTTTTTTTT	GGTTTGGATGATTTG GTGG	TGGCAACACATGAACC TGAT	60.0	361	INTRON	Ca_16561	Q	B3
Ca4_P3_25168771	Ca4	25168771	AA/AATA	GACCAAGGCAAGCAAG AAAG	GTGGAAGTTGAAACGA CGGT	60.0	178	INTERGENIC	--	--	--
Ca4_P3_25177814	Ca4	25177814	CAGAGAGA/CAGAGA	TCCTTGATCGGTTAAGT CGG	TAAAGGACCAAGTCGG GAAA	60.1	373	INTERGENIC	--	--	--
Ca4_P3_25178138	Ca4	25178138	GAAAAAAAA/GAAAAAAAAA	TTTCCCGACTTGGTCCT TTA	TGACTAACGCATTGCC AAAA	59.5	619	INTERGENIC	--	--	--
Ca4_P3_25182596	Ca4	25182596	TATATATATATA/TATATATATATAATA TATATATA	TGGTAACCTGCATTCA CCA	CTTTTGGTCCCGACA TAGA	60.0	252	INTRON	Ca_16562	--	--
Ca4_P3_25187640	Ca4	25187640	ATTTTTTTTTT/ATTTTTTTTTT	GGTAGGGAGGAGAGTT TGGC	TCGAGCTCAACCTTAA ATCCA	60.1	614	INTRON	Ca_16562	--	--
Ca4_P3_2521098	Ca4	2521098	AAAAAATTTAATAACAAAAATTTAA TAAACAAAAAT/AAAAAATTTAATAA ACAAAAATT	GCACCACCACTACCGT CTTT	TAAGTTCACGGCCACA TTCA	60.0	883	INTERGENIC	--	--	--
Ca4_P3_25214452	Ca4	25214452	CC/CCGAATC	TCTCCATTTGCATAAG CCC	GGTGTGACCCTTCCTT TTCA	60.0	347	INTERGENIC	--	--	--
Ca4_P3_25218739	Ca4	25218739	GATGAT/GATGATTATGAT	GCAGCAAATCCAGAT GCTT	GAAGTCTCTCAATGT CCCC	60.4	611	INTERGENIC	--	--	--
Ca4_P3_25249365	Ca4	25249365	C/CA	GTTAAGCCGTAAACGC CAAC	TGCGTCAAATCTCTGG TGAG	59.7	128	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 (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
Ca4_P3_25251614	Ca4	25251614	TCC/TCCC	TGAGAAGGGCGAATAC CAAC	TAAATTTGGGGTTGG ATGA	60.1	450	DRR	Ca_16566	O	WRKY
Ca4_P3_25252210	Ca4	25252210	GTT/GT	AAGGGGGCCCTAATAA GGTT	GATGTGCCTGTTGGA AAGT	60.0	855	DRR	Ca_16567	CD	--
Ca4_P3_25258427	Ca4	25258427	GAAAAAAAA/GAAAAAAAAA	TTTGTGCGCAACAACA GA	TGTGGGAGCAAAAGT GTTT	60.0	626	INTERGENIC	--	--	--
Ca4_P3_25280052	Ca4	25280052	CTTT/CTT	CTCACTTTTGTCCCCC AAA	TGGTGCAAGGTCTAAA GGAGA	59.9	292	INTERGENIC	--	--	--
Ca4_P3_25287465	Ca4	25287465	CAAAAAAAAA/CAAAAAA	CTAGCGCCACTCCTGT AACC	TCCGATGGACACAAGT CTCA	59.9	330	INTERGENIC	--	--	--
Ca4_P3_25292705	Ca4	25292705	GTTAATTAA/GTTAA	GGCAGAAATTTGAACG TGGT	GGACAAAAGAAGAGCA AAAAGG	60.0	227	INTERGENIC	--	--	--
Ca4_P3_25295191	Ca4	25295191	CTTT/CTTTT	TTTGCGAACAAATTCAT ATCCTT	GTTGCACCAATTGCAC AGTC	59.9	705	INTERGENIC	--	--	--
Ca4_P3_25347808	Ca4	25347808	TAAAAAAAA/TAAAAAA	CAAAGGGCGACCTCCT TAAA	GAGCTCCAAAGTAGGG TTTTCTT	61.4	278	INTERGENIC	--	--	--
Ca4_P3_25349410	Ca4	25349410	TA/TAA	TCGTTTGTGTCACAT TCT	TCAAACCAAAAGAGCA GGAAG	59.2	349	INTERGENIC	--	--	--
Ca4_P3_25352610	Ca4	25352610	T/TA	GGAAATGGTCTTTGAA AGCC	AGCCTTACGCATGTAT TGCC	59.9	719	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
Ca4_P3_25358083	Ca4	25358083	TAAAAAAAA/TAAAAAAAA	AAAATTCTGTTTGGG GACC	ATTACACGCTTGCAGA CGAA	60.0	886	INTERGENIC	--	--	--
Ca4_P3_25367189	Ca4	25367189	A/AT	TTTATTGTAGGTGGAG GCGG	GGCCAAATTGATGCAA AGTT	60.0	271	INTERGENIC	--	--	--
Ca4_P3_25371828	Ca4	25371828	ATTT/ATTTT	TGAAGCTCCGAAACAT AGCC	TAAGGCGCCAGACTCA AGTT	60.4	283	INTERGENIC	--	--	--
Ca4_P3_25393862	Ca4	25393862	TATTAATAATT/TATTAATAATAATAATT	CAATTGGATTGTGGCTT CCT	CAGGCGTCGAACAATT CATA	59.9	909	INTERGENIC	--	--	--
Ca4_P3_25434376	Ca4	25434376	TAAAAAAAAAAAA/TAAAAAAAA	TTTGTCACCAAGAAAA GGC	TCCGCTCCTTACCATC ACTC	60.1	732	DRR	Ca_16576	O	MIKC
Ca4_P3_25457334	Ca4	25457334	ATTTTTTT/ATTTTTTTT	CATTTTACTCATCGATC TTTGTGG	TGGACAAAAATCATGTC TCTTTGA	59.9	336	DRR	Ca_16577	--	--
Ca4_P3_25457701	Ca4	25457701	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATATA ATA	TCAAAGAGACATGATT TGTTCA	TCACTTTGCTTTGTGT GTCTCA	59.6	524	DRR	Ca_16577	--	--
Ca4_P3_25470351	Ca4	25470351	CTTTTTTTTT/CTTTTTTTTTT	TGCAATTATCCAAAGAT GTATGAAA	TCCTTTTGTCGTCGT CTCT	59.8	479	INTERGENIC	--	--	--
Ca4_P3_25495365	Ca4	25495365	TAACATAAC/T	GGAAGCTGGTTTTGT TGTT	AATGGTCTTTCAATGG GACG	59.1	783	INTERGENIC	--	--	--
Ca4_P3_25501013	Ca4	25501013	TAAAAAAAA/TAAAAAAAA	GGGCATTGGTAACTCC AAAA	CCAATTGTGCTCTCCT CTCC	59.8	909	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
Ca4_P3_2550484	Ca4	2550484	CT/CTGGAATTAGAATGTGTGTT	ATTGTTTGTCACGCGAT TCC	TCTGCAATGACCCTCT TGTG	59.9	433	INTERGENIC	--	--	--
Ca4_P3_25543812	Ca4	25543812	TTTTCTTCTTTCTTCTTTC/TTTTCTTCT TTC	AGGACTTTCGACCACC ACAC	TACCCTTTGCTAGCCC CTTT	60.0	415	INTERGENIC	--	--	--
Ca4_P3_25580326	Ca4	25580326	ATTTTTTTTTTTT/ATTTTTTTTTTTTTT T	TCGTGGATAAAATAAT CAAATCAA	GCAAATCCATTGGCAA TTCT	58.9	860	INTERGENIC	--	--	--
Ca4_P3_25590282	Ca4	25590282	TAAAAAAAA/TAAAAAAAAA	GCATGGATGCAACCTC CTAT	TGACCCCACTGCAA ATTA	59.9	400	INTERGENIC	--	--	--
Ca4_P3_25596032	Ca4	25596032	TTAT/TTATAT	AGTGATGTGGCAACA ATGA	TGCAATTTACAGCGCT TTTG	60.0	515	INTERGENIC	--	--	--
Ca4_P3_25596215	Ca4	25596215	ATGTGTGTGTGTGT/ATGTGTGTGTGT	TTCTCACGAAAGCGCT GTAA	GGGCAAGGGGATCTG AATA	59.8	585	DRR	Ca_16586	--	Trihelix
Ca4_P3_25630012	Ca4	25630012	TG/T	AGTAGACTTGCCCTCC GGTT	CCTTGTTGTGGAGTGT GGTG	60.1	788	INTERGENIC	--	--	--
Ca4_P3_25641770	Ca4	25641770	CT/CTT	TGGTTCCAACAGTACAT GCAA	TCCAGAACACCACAA CAAA	60.0	454	INTERGENIC	--	--	--
Ca4_P3_25671775	Ca4	25671775	TTTTCTTCTTTC/TTTTCTTCTTTC TC	CCAGGATGCTCCCTG ATAA	AGAGCGGAACTGTCA AAAT	60.0	809	INTERGENIC	--	--	--
Ca4_P3_25694964	Ca4	25694964	CAAAAAAAAA/CAAAAAAAAAA	CCACTTCGCTTAGGGA TCAA	TATGGGCATTCTTCTT GGG	60.2	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_2570743	Ca4	2570743	GATATATATATATATATATATAT/GAT ATATATATATATATATATATATAT	AACTCGAGGAGAGAGG AGGG	GGGAATGAAAACAACA ATGGA	59.9	866	INTERGENIC	--	--	--
Ca4_P3_25718304	Ca4	25718304	GTATA/GTA	AACACAAAGGGTTGATT CGC	AACCTTGGCAACAAGT GGAC	60.0	568	DRR	Ca_16594	--	--
Ca4_P3_25725070	Ca4	25725070	CAAAAAAAAA/CAAAAAAAAA	TCTTCGAAATGCAACTT GGT	TTTAAATTTTGGAGG GGGT	58.4	130	INTERGENIC	--	--	--
Ca4_P3_25727547	Ca4	25727547	ATTTTTTTTT/ATTTTTTTTT	TGGGTGGATGGTAAGA AAATG	TCAACTCATGGCTTTC CACA	59.7	709	INTERGENIC	--	--	--
Ca4_P3_25744614	Ca4	25744614	TAAAAAA/TAAAAA	TTTGCAAAAAGGCTTCA CAA	GCATATCGAAGGATGC CATT	59.5	405	INTERGENIC	--	--	--
Ca4_P3_25754372	Ca4	25754372	AAAAATAAAATAAAATAA/AAAAATAAA ATAAA	AATGGGCGCTGTAAA TGTC	TCATTTAAACCACTGC GTCAA	60.0	750	INTERGENIC	--	--	--
Ca4_P3_25758636	Ca4	25758636	CTTTT/CTTTTT	TGCACCTCAGTTAAAT GGGC	AGAACTTGC GTGGTGA TTCC	60.1	530	INTERGENIC	--	--	--
Ca4_P3_25760041	Ca4	25760041	ATTTTTT/ATTTTTT	CACAACGGAATTTGGG TTTC	TTGAGCTTGCAACTTG ATCACT	60.2	565	INTERGENIC	--	--	--
Ca4_P3_25768326	Ca4	25768326	TAAAAA/TAAAAA	ATGTTTCGTGCAATGTT CAA	CACATGGCTGAACGAG AAGA	60.0	382	INTERGENIC	--	--	--
Ca4_P3_25774052	Ca4	25774052	TAAAAAAAAAAAA/TAAAAAAAAA	TGTCAAATCCAACGCAA AGA	TCGCAACCAACAAAG CATA	60.2	661	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 (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
Ca4_P3_25779217	Ca4	25779217	CTTAATTAATTAATTAATTAATTA/CTTA ATTAATTAATTAATTA	ATACCGAGATGGACAC CACC	TAACCCCTTCAACATCT GGGC	59.7	367	DRR	Ca_16597	R	NAC
Ca4_P3_25783388	Ca4	25783388	CTTTT/CTTTT	GCGTGATGCATGATCT AGGA	TCTTTTGATTCCGAGTT GGG	59.8	658	INTERGENIC	--	--	--
Ca4_P3_25803073	Ca4	25803073	ATTTTTTTTT/ATTTTTTTTT	TGAGCCTCAACAGCAA AATG	CTCCAAAGCTGCAATG TTGA	60.0	711	INTERGENIC	--	--	--
Ca4_P3_25806778	Ca4	25806778	CTTTTTTTTT/CTTTTTTTTT	CGTTACACTTGCCTATG GAACA	GGTCCGAAGTGTGACA AGGT	60.1	423	INTERGENIC	--	--	--
Ca4_P3_25822369	Ca4	25822369	CAAAAAA/CAAAAAA	TGTTTGAACCCGAGAC TTCAC	CGTGGCATTTGAAAA GCAT	60.1	611	INTERGENIC	--	--	--
Ca4_P3_25823927	Ca4	25823927	T/TG	CACAGGTGGTGC GTTG TTTA	TCACAACCACAACCAC ATCA	60.6	170	INTERGENIC	--	--	--
Ca4_P3_25830554	Ca4	25830554	CAAAAAAAAA/CAAAAAAAAA	ATCGTGACATTCCCAT TTT	TTCAAATTGCTCCTTCT GGG	60.2	621	INTERGENIC	--	--	--
Ca4_P3_25831604	Ca4	25831604	TCCCC/TCCCC	GGTGAACCGACACTGG TTTT	TCCAACATTTATGCAA GGCA	59.9	301	INTERGENIC	--	--	--
Ca4_P3_25834950	Ca4	25834950	AAGACGTTCCGTA/AA	TCGCTGCTTATTCATGT TCA	ACCACCAAGTGAGGATT TTGC	58.0	336	INTERGENIC	--	--	--
Ca4_P3_25843650	Ca4	25843650	T/TCAG	AACCTGTTGGCTAAAG CCCT	TCAATGGCCCTGAAG TTAC	60.1	862	INTRON	Ca_16601	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_25847698	Ca4	25847698	T/TG	CATGCTACCAAGCGA TTGA	ATCGATTTCGCGAGTC TTGT	59.8	370	INTERGENIC	--	--	--
Ca4_P3_25869082	Ca4	25869082	ATTTTT/ATTTT	TATTTGTCGATTTCGT GGA	TTATAAGTGCGGTTAG CGGG	60.1	693	INTERGENIC	--	--	--
Ca4_P3_25884525	Ca4	25884525	TA/T	AGCAACCAAAATCGAA CACC	GGGAAATTTTGAACC AATG	60.0	307	INTERGENIC	--	--	--
Ca4_P3_2589226	Ca4	2589226	GTTGCAAGTTGCAAG/GTTGCAAGTTG CAAGTTGCAAG	AAGATCGATCAGTTCCA CCG	ATTGGGAACCAACTGA CGAG	60.1	396	INTERGENIC	--	--	--
Ca4_P3_25897872	Ca4	25897872	GGGTACCGTGTA/GGTGTA	AGTGCCCAACTTTTAC CTTC	TCACGATGCACCAAG AATA	59.2	493	INTERGENIC	--	--	--
Ca4_P3_25906423	Ca4	25906423	TC/T	TAATGGCATTGGTACA GGCA	AAAAATCCTGAATGTC CCCC	60.0	472	INTERGENIC	--	--	--
Ca4_P3_25909415	Ca4	25909415	ATTTTTTTTTTTTT/ATTTTTTTTTTT	CTTGTGCTTCGACTGG ATCA	GCTCCGGCTGAGAACA ATAC	60.0	817	DRR	Ca_16605	R	--
Ca4_P3_25916811	Ca4	25916811	CTTTTTTTTTTT/CTTTTTTTTTTTTT	ATGGTAACAGATATCG CCGC	ATTGTAGCATTGCCCA AAGG	60.0	627	DRR	Ca_16606	I	--
Ca4_P3_25919215	Ca4	25919215	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT TTT	AAATCGACAGTCCTTG CCAC	TGCAGGCTCTTGAGCTT GATG	60.1	629	INTRON	Ca_16606	I	--
Ca4_P3_25927650	Ca4	25927650	AGG/AGGG	ATCACAACTGGGAACC CAAA	AAGCTCCAAGACCAGA TGGA	60.2	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 (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
Ca4_P3_25927721	Ca4	25927721	CTTTTT/CTTTTTT	GTTTCACGGAGAAAAT CCCA	AGCTCCAAGACCAGA TGGA	59.9	441	INTERGENIC	--	--	--
Ca4_P3_25941584	Ca4	25941584	A/AG	CGATCGTTGTTGGTAT GTCG	AGCTGACCAATGCGT AAGG	60.0	244	INTERGENIC	--	--	--
Ca4_P3_25947026	Ca4	25947026	GAAACACAAA/GAAAA	CACTAGAAGCGCGTGT CAGA	TTGTGAACGCAATGG TAAA	60.3	924	INTERGENIC	--	--	--
Ca4_P3_25956176	Ca4	25956176	ATTTTTTTTTTT/ATTTTTTTTT	ATATTGGGACCGTTA AGGG	TTTGGGTGTGTTGACT GCAT	59.9	784	INTERGENIC	--	--	--
Ca4_P3_25958010	Ca4	25958010	TTATATATAT/TTATATATATAT	TCGGGGAATCAATTC GTTA	TGGAAGTCATCGACCC ATT	60.3	673	INTERGENIC	--	--	--
Ca4_P3_25959074	Ca4	25959074	GCC/GC	TGAAGATGAAGAAGAG GGCAA	TGTGGCATAAGGAGGA GTTTC	59.9	376	INTERGENIC	--	--	--
Ca4_P3_25962811	Ca4	25962811	GTATATATAT/GTATATATATAT	TGGTTGGAAGCTCCAG AAGT	GAAAAGTGAGGAATC GCTG	59.8	275	DRR	Ca_16607	--	B3
Ca4_P3_25967972	Ca4	25967972	ATTTTTTT/ATTTTTTTTT	TTGTACCCTGTGCAAC CAA	TGGTTGGATACTTGCA ATGG	60.0	180	INTERGENIC	--	--	--
Ca4_P3_25968820	Ca4	25968820	GTTT/GTTTT	TTCTTCTGCCAAAAAT GCT	CCTCAAGCAGACCTTT GGAG	59.8	412	INTERGENIC	--	--	--
Ca4_P3_25969511	Ca4	25969511	ACC/AC	TCCCTTGCCCTAGGCC AGTA	GCAGATGTTCTCAACA GCCA	60.0	350	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
Ca4_P3_25970159	Ca4	25970159	AC/A	TGTTTGGTCTTGGTT TGTT	CACCTGCTATGGATGC AATG	60.2	709	INTERGENIC	--	--	--
Ca4_P3_25971278	Ca4	25971278	GATTGAAGAA/GA	GCTTCGCCAAGCTTAC AATC	CCAACGATCATCAAAG GGAT	60.0	268	INTERGENIC	--	--	--
Ca4_P3_25972652	Ca4	25972652	TGGG/TGG	TTGTCTCAACAATCTCC CCC	CTCAGTTCCTAGCACG AGGG	59.9	676	INTERGENIC	--	--	--
Ca4_P3_25975114	Ca4	25975114	TGGGG/TGGGGG	ACACATGTTGGCCAAT GAGA	GAGTCCGATTCCATG AGGA	60.0	621	CDS (FRAME SHIFT)	Ca_16608	--	--
Ca4_P3_25978445	Ca4	25978445	CT/CTTT	TGCCTCAAAGCTTCAT CTT	AGCACTCATCCTCGGG TAGA	60.0	435	INTERGENIC	--	--	--
Ca4_P3_25979689	Ca4	25979689	TG/TGG	GTCCTCGTCAGGAGGT TGAG	CCACTGTTGCTGGCAG ATAA	59.8	707	INTERGENIC	--	--	--
Ca4_P3_25982514	Ca4	25982514	CAATAATA/CAATAATAATA	GCGCAAAAACAAGAAG GAAG	GGTCCAGGTTGTTGG AGAA	60.0	290	INTERGENIC	--	--	--
Ca4_P3_25984075	Ca4	25984075	TA/TAA	CGATTTTAAACAGCGTG GGT	TGGGTCCATGTTCCAA TTTT	60.0	276	INTERGENIC	--	--	--
Ca4_P3_25984442	Ca4	25984442	TGAGAG/TGAGAGAG	AGATCCTGTTGACACG GCTT	CGGTGTTGTTGTGAT TTGC	59.7	524	INTERGENIC	--	--	--
Ca4_P3_25987244	Ca4	25987244	AATATATATAT/AATATATATATATAT AT	TCTACTCTCGTCGCAG CTCA	TGCTTAGGCATTACC CCAG	60.0	250	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
Ca4_P3_25987622	Ca4	25987622	TCC/TC	TTCAACTGGGTAAAT GCCT	TGTTCTAGTCCAGATC AAAACGA	59.4	323	INTERGENIC	--	--	--
Ca4_P3_25988978	Ca4	25988978	AAAGAAGAAGAAG/AAAGAAGAAG	AAGCTGGATGTGGACT TTGC	AGTTCCAATTGGCCTC CTTT	60.3	404	INTERGENIC	--	--	--
Ca4_P3_25989281	Ca4	25989281	TCCC/TCCC	AAGCTGGATGTGGACT TTGC	AGTTCCAATTGGCCTC CTTT	60.3	404	INTERGENIC	--	--	--
Ca4_P3_25989322	Ca4	25989322	GTTTTT/GTTTTTTT	GTACGCGATCTAGTCC CCAA	CCGGGGAGAAAGTTCT AGTG	60.1	168	INTERGENIC	--	--	--
Ca4_P3_25994448	Ca4	25994448	GTTTTTTTTT/GTTTTTTTTT	ATCCACAACCGAGTTA GCGT	TCGAGCCTTTTGTCT GATG	59.6	623	INTERGENIC	--	--	--
Ca4_P3_25994543	Ca4	25994543	GTTTTTT/GTTTTTTT	TTAAGATTGAGGGGTG TGGG	CACCACTTCATTCGGG ACTT	59.8	516	INTERGENIC	--	--	--
Ca4_P3_25994721	Ca4	25994721	AC/A	TTAAGATTGAGGGGTG TGGG	CACCACTTCATTCGGG ACTT	59.8	516	INTERGENIC	--	--	--
Ca4_P3_25995802	Ca4	25995802	ATTTT/ATTT	CCCTAAATCAAAGCAG CGTC	TGCACTGTTGTTGTTG CTGA	59.8	470	INTERGENIC	--	--	--
Ca4_P3_25995987	Ca4	25995987	A/AT	CCCTAAATCAAAGCAG CGTC	TGCACTGTTGTTGTTG CTGA	59.8	470	INTERGENIC	--	--	--
Ca4_P3_26000260	Ca4	26000260	GTTTTT/GTTT	GGGCATTGCTTTGTTTT TGT	CAATGGAAGTGGTTGT GTCG	60.0	414	INTRON	Ca_16610	C	--

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
Ca4_P3_26009631	Ca4	26009631	A/AC	GGAACCTCTCTTGTGG CAGC	TATTCCTCTGATTGGG TCGC	60.0	148	INTERGENIC	--	--	--
Ca4_P3_26015572	Ca4	26015572	ATTTTTTTTTT/ATTTTTTTTTT	TGCGAGGGCTAGCTTA AAAA	TGAGACAAAAGTTTGC GGTG	60.1	635	INTERGENIC	--	--	--
Ca4_P3_26018351	Ca4	26018351	TAAAAAAAA/TAAAAAAAAA	AGAACATGGTGGATGC ACAG	TCCAAGAGCTTGGTCT GACA	59.6	373	INTERGENIC	--	--	--
Ca4_P3_26033150	Ca4	26033150	TA/TAA	CCTTTGAACCAAGGAA GCCT	TGGCGTCCCAATTATT TTTC	60.6	528	INTERGENIC	--	--	--
Ca4_P3_26051597	Ca4	26051597	AATAT/AAT	GTCTTCCCTTGTCAAA CCA	TCAAAAATTTGGATTG GGGA	59.9	225	INTERGENIC	--	--	--
Ca4_P3_26051855	Ca4	26051855	CTTTTTTTTTTT/CTTTTTTTTTT	TTTAACGGACGTTGTA GGGC	CTTCCACGGGATGTGT TTCT	60.0	448	INTERGENIC	--	--	--
Ca4_P3_26069953	Ca4	26069953	ATTTAAATTAATAATTTAAATTA/ATT AAATTA	CATCCACCTAAAGTTT TACCCA	AACCGTGGGGGTATAA GGAC	59.3	895	INTERGENIC	--	--	--
Ca4_P3_26078815	Ca4	26078815	GTTTTTTTTT/GTTTTTTTTTTTT	TTATTGTGAGTCCGTG CAGC	GCTTTCAGACAAACCC TTGG	59.9	348	INTERGENIC	--	--	--
Ca4_P3_26091108	Ca4	26091108	ATTTTTTTTT/ATTTTTTTTTT	AGGTGCATTCTGAAG GTGG	TGTTCAAGATCATTC ATGCC	60.1	564	INTERGENIC	--	--	--
Ca4_P3_26091418	Ca4	26091418	CATATATATATAT/CATATATATATAT	AGGTGCATTCTGAAG GTGG	GGGGCATTTTGTGCA TATT	60.1	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
Ca4_P3_2609181	Ca4	2609181	T/TGTGCTATA	GCTTCTGCTAGGCATC CATC	ATGCATGTGCTGATGC TTGT	59.9	907	DRR	Ca_12062	--	--
Ca4_P3_26104167	Ca4	26104167	TTTTTTT/TTTTTTTATTTTTT	TTGAGATGATTGGCAA CCA	CGTGAACGGACCCAGT TACTA	60.0	589	INTERGENIC	--	--	--
Ca4_P3_26173966	Ca4	26173966	CATAT/CAT	AGAGTGCATGTGGGAT AGGG	TTCCATGATGCTCTTTT GGG	60.0	563	DRR	Ca_16612	--	HD-ZIP
Ca4_P3_26176783	Ca4	26176783	TAAAAAAAA/TAAAAAAAA	CACAATCAATCACGCC CTTA	TGTCATTTTTGGCGTA GTGC	59.5	500	INTERGENIC	--	--	--
Ca4_P3_26179133	Ca4	26179133	GTTTTTTTT/GTTTTTTTT	AGGAACTTTGTGTGGA TGCG	TGGAAATGCAATTCA ACCA	59.8	743	INTERGENIC	--	--	--
Ca4_P3_26179923	Ca4	26179923	ATTTTTTTT/ATTTTTTTT	CAAAACAACATCATGTTG GTCG	CCCATCATGAAATCCA AACC	59.1	976	INTERGENIC	--	--	--
Ca4_P3_26226774	Ca4	26226774	GGNNNNNNNNNG/GG	GCCAGCAGTTCTTCAG GTTT	AACATGGCCCAAGAAC AGAC	60.0	357	INTERGENIC	--	--	--
Ca4_P3_26259040	Ca4	26259040	ATTTTTTTTTT/ATTTTTTTTTT	TTCTCGAATCAATTCCG TCC	CTCAGAGGCCGACCTA TACA	60.0	888	INTERGENIC	--	--	--
Ca4_P3_26263716	Ca4	26263716	CAAAAAAAAA/CAAAAAAAAAA	CCTTGAGTTCGACACT CGGT	AGACAAACCATCCACC TTGC	60.3	670	INTERGENIC	--	--	--
Ca4_P3_26287529	Ca4	26287529	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT	AAGCCTGACCTACGGC CTAT	TGGCCTACTTATGGCC TGAC	60.1	537	DRR	Ca_25308	--	--

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
Ca4_P3_26301785	Ca4	26301785	GAAAAAAAAA/GAAAAAAAAA	ACCACTACGCCACACA TCAA	GTGACAGTACTGGGG GAAGC	60.0	428	INTERGENIC	--	--	--
Ca4_P3_26304368	Ca4	26304368	ATTTTTTTTT/ATTTTTTTTT	CCGATTACCTTAAACG CCA	TTTAAAGTCCCGACCC ATGA	60.0	508	INTERGENIC	--	--	--
Ca4_P3_26306719	Ca4	26306719	C/CA	CAACCCTTTGATTCTC CAT	AATGCCCATGTGAAAC CTTC	59.9	662	DRR	Ca_25307	S	--
Ca4_P3_26313656	Ca4	26313656	ATTTTTTTTT/ATTTTTTTTT	TGAGGTATGCCCAAAG AAGG	TTAGGCCGTAGTCAGG CTGT	60.1	837	INTERGENIC	--	--	--
Ca4_P3_26339385	Ca4	26339385	AA/AAGAAGTA	TCAAGACGTTGATCTC GTGC	CATCTTCATTGCCTCC CATT	60.0	397	INTERGENIC	--	--	--
Ca4_P3_26350658	Ca4	26350658	TGGGG/TGGG	CTCTGACATGCGACAA TGCT	GTTTGGTCGGGTAAAG GGAT	60.0	555	INTRON	Ca_25303	I	--
Ca4_P3_26354768	Ca4	26354768	AGGG/AGGGG	TGCTGGCAGGTTTATG TTTG	TCACTGCCTTCCTTAC GAGG	59.7	534	DRR	Ca_25303	I	--
Ca4_P3_26364469	Ca4	26364469	CA/CAAA	TATTTGCCATCTGCACC TCA	ATTGAAAAGGCCAGGA AACA	60.2	815	INTERGENIC	--	--	--
Ca4_P3_26369131	Ca4	26369131	ATTTTTTTTT/ATTTTTTTTT	TTCTGTGCATTTGAATG GGA	CCCCAAACCCTACGAA CATA	60.0	718	INTERGENIC	--	--	--
Ca4_P3_26398945	Ca4	26398945	AATTTAATTT/AATTTAATTTATCTATTT AATTT	GTGGCGAATTGATTTG TCCT	CGACGTAATCTGGGTT GGTT	59.9	413	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 (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
Ca4_P3_26404295	Ca4	26404295	ATTTTTTTTT/ATTTTTTTTT	TTGGGTCCTTGGTGG TTAG	CCCACTTGGTAAAGAC CACTG	59.8	430	INTERGENIC	--	--	--
Ca4_P3_26410577	Ca4	26410577	TGGAGGAG/TGGAG	ATGGCATGTGATTGAG TGGA	GATGACTCTTCGTGGG GGTA	59.9	425	INTERGENIC	--	--	--
Ca4_P3_26411287	Ca4	26411287	GTTT/GTTTT	TGTTCTGCTTAAGGGG CCTA	GATCAAGAGGTCACCG GTTC	59.8	841	INTERGENIC	--	--	--
Ca4_P3_26411531	Ca4	26411531	GAAAAAAAA/GAAAAAAAAA	TGTAACCAACATTGCT TTCTTT	CGCGCGGAAACAATA TTAT	57.9	681	INTERGENIC	--	--	--
Ca4_P3_26418036	Ca4	26418036	TCACACACACACACA/TCACACACA CACACACACA	CCAAAATCAAACACCA CCC	AACCCTGATTGACGCT GAAG	60.1	542	DRR	Ca_25299	--	--
Ca4_P3_26456492	Ca4	26456492	T/TG	GCGAGCATGAGAAGTT GTTG	AATTCAATGGGAAAA CCACA	59.6	713	INTERGENIC	--	--	--
Ca4_P3_26460247	Ca4	26460247	TCCC/TCC	GTGGCTGAAACAACG ATGG	TTTTTGGATAATGTTGC TTGTGA	59.1	423	INTERGENIC	--	--	--
Ca4_P3_26461127	Ca4	26461127	CAAAAA/CAAAA	TTTGCCCATGTTTTCT CTC	GGGCGTAAATCCAAC ACAT	60.1	486	INTERGENIC	--	--	--
Ca4_P3_26483173	Ca4	26483173	TAAAAAA/TAAAAA	TTTTGAAAACCAATGCA CCA	CGCTATATCACAGCTT GGCA	59.9	413	INTRON	Ca_25006	O	C2H2
Ca4_P3_26489826	Ca4	26489826	AC/A	TTGGTTGATCGGCTAAT TGA	TCCGAGTAACCCGTTT TGAC	59.1	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 (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
Ca4_P3_26492251	Ca4	26492251	ACTC/AC	CAAATGCACATGAGAA CCGT	AATGATCCGGAACCAT TTCA	59.6	519	INTERGENIC	--	--	--
Ca4_P3_26495554	Ca4	26495554	GAAAGTTGTTT/GAAAGTTGTTCAAAG TTGTTT	AACGATTATCCTGGTC CCC	CCCGAATACAAACCCA AGTC	60.0	844	INTERGENIC	--	--	--
Ca4_P3_26498981	Ca4	26498981	GC/G	GGTTTATTTCCGCAGTT TTCC	TCAACGGACAACACGC TAAG	59.8	321	INTERGENIC	--	--	--
Ca4_P3_26518861	Ca4	26518861	AT/A	GGGTTCACTTCACTCA AGGG	TGAAGCATATGTATTTT CACCACA	59.5	633	DRR	Ca_25005	R	NAC
Ca4_P3_26519944	Ca4	26519944	CATTATTATTATT/CATTATTATTAT T	GGCAGCGGGTACGTAA AATA	CATTGTGCAACAATG AGGG	60.0	414	INTERGENIC	--	--	--
Ca4_P3_26523067	Ca4	26523067	ATTTTTTTT/ATTTTTTTT	TATCTGCCAGGGAGAA AACG	TGCCATGAAACGAAAG AAAA	60.2	362	DRR	Ca_25004	P	--
Ca4_P3_26525402	Ca4	26525402	GTTTTTTTTT/GTTTTTTTTTTT	TGTAGCTACCGCATTG ATGG	GCTGCAAGGGATGATT TGAT	59.7	436	INTERGENIC	--	--	--
Ca4_P3_26547528	Ca4	26547528	AT/A	TCCAAAACCTGTATATC CTCAAGC	TTTGTGCTTCTGCAAC AAGG	58.8	815	INTERGENIC	--	--	--
Ca4_P3_26552272	Ca4	26552272	TAAAAAA/TAAAAA	TCCTGGTTCACTCAATG TGG	CTCAAGTTGAAGGCC AAAG	59.5	818	INTERGENIC	--	--	--
Ca4_P3_26581837	Ca4	26581837	TTTCCTTCCTTCCTT/TTTCCTTCCTTC CTTCCTT	GGAGAAGGAGGGAGAA ATGG	ATGCATTACGGGTGAA ATGG	60.0	263	DRR	Ca_25001	--	--

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 (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
Ca4_P3_26593036	Ca4	26593036	CAT/CATAT	AAAATCATGATCAAGGA GGCA	TTTGGTGGTGGTGGTA TGTG	59.5	254	INTERGENIC	--	--	--
Ca4_P3_26616894	Ca4	26616894	AACATTTTATACATTTTATACATTTTAT ACATTTTAACATTTTATACATTTTATA CATTTTATACATTTTATACATTTTA	TTGCTGGATTGAAAACC CTC	CCAAAACCCATCATAAT CCG	60.1	881	INTRON	Ca_25000	E	bHLH
Ca4_P3_26620833	Ca4	26620833	GTT/GT	AAAGAAGGAAGGGTCT TGCC	TCAAAATCGAACCAAT CACA	59.7	593	INTERGENIC	--	--	--
Ca4_P3_26621141	Ca4	26621141	TAAAA/TAA	CGGTGCCGTTTTAAGA GAAA	GCGATTCAAAGACAT GCAA	60.2	685	INTERGENIC	--	--	--
Ca4_P3_26622087	Ca4	26622087	ATTTTTTTTT/ATTTTTTTTTT	TACCCAATCAAAATGA CCC	TGCACCAACAGTATCG AACAA	59.5	363	INTERGENIC	--	--	--
Ca4_P3_26649182	Ca4	26649182	TA/TAA	TGAGTGAGATGCCAGT GGAG	TGAGTGGCTTCAAGAT TGACC	60.0	631	DRR	Ca_24999	L	--
Ca4_P3_26662668	Ca4	26662668	ATTTTTTTTT/ATTTTTTTTT	GTGACGTGGGGGAGTT AAGA	CAACGACCTTAACATTT GGTG	60.0	799	INTERGENIC	--	--	--
Ca4_P3_26664091	Ca4	26664091	TAAAAAAAA/TAAAAAAAAA	TGATACAATTGATTGCG CCA	TTTTTGTACGCGAGC TCTA	59.9	371	INTERGENIC	--	--	--
Ca4_P3_26696179	Ca4	26696179	AAAATGCAAATGCAAAT/AAAATGCAA TGCAAATGCAAAT	ATCACCCAGACAGAA TCCA	ATTTGACACCTCGTCG TTCC	60.3	439	DRR	Ca_28173	R	MYB
Ca4_P3_26749373	Ca4	26749373	TAA/TAA	TGGCTTTAGGAGCATC ACAA	CTATTGAGCCCTCGTC TTCG	59.4	140	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 (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
Ca4_P3_26749648	Ca4	26749648	ATTTT/ATTTT	CGAAGACGAGGGCTCA ATAG	GGATGGGATCATTGC TTTTT	60.0	599	INTERGENIC	--	--	--
Ca4_P3_26752542	Ca4	26752542	CATATATA/CATATATATA	TGAAGACTTTGGAGTG ACCG	CCGAAGATTTTGCAG TGTT	58.9	267	INTERGENIC	--	--	--
Ca4_P3_26753796	Ca4	26753796	GT/GATTTAT	AGAGCGGCAACTCAA CAAT	TGCAGGGGACATCTC TACC	59.9	613	INTERGENIC	--	--	--
Ca4_P3_26763494	Ca4	26763494	TAAAAAA/TAAAAAA	AAAAATACCGCGTCAT TCATT	TCGCTCAAAACACAA CGAG	59.8	572	INTERGENIC	--	--	--
Ca4_P3_26770441	Ca4	26770441	CAAAAAAAAAAAAAAAAA AAAAAA	TGCTGCAACATATGTC CCT	AATCCACATGCTAAGC TCGAA	59.2	731	INTERGENIC	--	--	--
Ca4_P3_26775300	Ca4	26775300	TAAAAAAAA/TAAAAAAAA	ACGGCGCTAAACCAAC ATAG	TTGTGTGCTTAACCTTT GCG	60.2	320	INTERGENIC	--	--	--
Ca4_P3_26785592	Ca4	26785592	ATT/AT	TGCACATGAATTTTGC TCC	TGCCACATACAATGTC AAGTCA	59.7	494	INTERGENIC	--	--	--
Ca4_P3_26847495	Ca4	26847495	A/AC	AGCTTCAAGTCGGATC GAAA	AAAAATCTTGTGGGAA TAATTCAA	60.0	216	INTERGENIC	--	--	--
Ca4_P3_26853441	Ca4	26853441	ATTTTTTT/ATTTTTTTT	TGAGATTGTCAATGTTG GCG	TGGAATGAAATCTTG AGGTATGA	60.7	393	INTERGENIC	--	--	--
Ca4_P3_26903304	Ca4	26903304	T/TG	ACTCGATTGGTCCATG CTTC	ATGTTTTGGACGCACA CAGA	60.1	532	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
Ca4_P3_26905366	Ca4	26905366	TAAAAAAAAA/TAAAAAAAAA	TGAAAGCCCAAACTAA TCAAGA	ATTGCTCGGTCGGTT AGTC	60.1	471	DRR	Ca_20443	R	G2-like
Ca4_P3_26953409	Ca4	26953409	CAAA/CAAAA	CAATGCATTCTTTTTG CCA	TACACCAAAGTCCAA CCAA	59.7	533	INTERGENIC	--	--	--
Ca4_P3_26955373	Ca4	26955373	CTTTTTTTTT/CTTTTTTTTTTT	TGAAGCTGATTGTTTGA CCG	CGTGTGTTGAAGCACC GATA	59.8	604	INTERGENIC	--	--	--
Ca4_P3_26970810	Ca4	26970810	TAAAAAAAA/TAAAAAAAA	GAAAAGCTGAAAGTGT ATTTTGGAA	AACAGTGCCGATGAAT AGTTTT	60.1	306	DRR	Ca_20452	A	--
Ca4_P3_27007761	Ca4	27007761	TAAAAAAAA/TAAAAAAAAA	TGTGATTCCTTGCTCGA GTG	TGCGCACATTTATCATT TAGTCA	60.0	445	INTERGENIC	--	--	--
Ca4_P3_27017251	Ca4	27017251	GTTTTTTTT/GTTTTTTTTTT	CCTTTGCATCTCAGGG ACAT	TGAGACCGGGTTTGAG TACC	60.1	453	INTERGENIC	--	--	--
Ca4_P3_27149358	Ca4	27149358	ATTTTTTT/ATTTTTTT	CGATGATGCTACCAGA GGGT	CGGGGATTCCCATATC ACTA	60.1	611	INTERGENIC	--	--	--
Ca4_P3_27161752	Ca4	27161752	ATTTTTTT/ATTTTTTT	TTTCAATGCAGTTCGAT TTTTG	TTTTCAAAATCCCGAC GTTA	60.1	504	INTERGENIC	--	--	--
Ca4_P3_27171856	Ca4	27171856	CAAAA/CAAAA	CGGCTATAAGCCAGGA CAAG	AAATCGTTTTGGTGGC TTTG	59.9	379	INTERGENIC	--	--	--
Ca4_P3_27174775	Ca4	27174775	TTGTTTCAAA/TTGTTTCAAAAGGATGT TTCAAA	ACCAAAAAGCTGGAGA GCAA	CCAAGCTCTTGGTGCT TGTT	60.0	512	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
Ca4_P3_27193093	Ca4	27193093	GTTATTTTTTATTTTTTATTTTT/GTTA TTTTTATTTTTTATTTTTTATTTTT	GTAGAATGCCCCAACA AAGC	TTTCATCTGCAATGT GTGA	59.6	463	INTERGENIC	--	--	--
Ca4_P3_27196099	Ca4	27196099	GAT/GATAT	CTGAAACTCACAGGT GCCA	TCTTCCTCTAACTCGC GGTC	59.9	591	INTERGENIC	--	--	--
Ca4_P3_27198549	Ca4	27198549	ACCCCC/ACCCCCC	TGCTTCAAAAATCATC GTG	AAGGCTTCGAAGGTT GACA	59.7	520	DRR	Ca_20458	--	NF-YB
Ca4_P3_27233281	Ca4	27233281	ATAATTCACAAGGTAATTAATTCACAA GGTA/ATAATTCACAAGGTAATTAATTC ACAAGGTAATTAATTCACAAGGTA	CCAACGCTATTGGGT TCAG	GCAGGAGAGAGAAAC GTGG	60.5	891	INTRON	Ca_20460	--	--
Ca4_P3_27260077	Ca4	27260077	GAAA/GAAAA	GCGTCCAAGTCTTGA GGAA	TTTGGGTTGCATAAT TTGA	60.4	498	INTERGENIC	--	--	--
Ca4_P3_27267123	Ca4	27267123	TAAAA/TAAAA	CCCTCAACTCAACTGA GATCC	TGCATTGGTTTGAATTT GGA	58.7	568	DRR	Ca_20461	R	--
Ca4_P3_27274392	Ca4	27274392	GAA/GA	AGTCCACCTTCCTCT GAT	TTGCCAACCGATTGTG TTTA	59.9	805	INTERGENIC	--	--	--
Ca4_P3_27283830	Ca4	27283830	GTTT/GTTTT	TATTGGTCGTCAAGCA GCAG	TTTCCAATCGATTTG CTTC	60.0	681	DRR	Ca_20463	--	--
Ca4_P3_27312714	Ca4	27312714	ATA/ATAATTA	AGTGGAATTTGTGGCT GCTT	TGATGGCGACTCATTT TTCA	59.7	546	INTERGENIC	--	--	--
Ca4_P3_27331583	Ca4	27331583	CAAAA/CAAAA	TGAAGCATTGATTCAT TTAGG	TTGTTGGTTTGGGATT GTTG	59.1	375	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 (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
Ca4_P3_27334621	Ca4	27334621	TGG/TGGG	CACGCTTACATGACATT CCA	TGTGGACTCCCAATTG AAAA	58.1	101	INTERGENIC	--	--	--
Ca4_P3_27349697	Ca4	27349697	AAA/AAAAAGAA	TGGGGCACAAAATATG TGAA	CCCCAGCATTCTTTAG ACCA	59.8	584	INTERGENIC	--	--	--
Ca4_P3_27365593	Ca4	27365593	GATTGA/GATTGAAGAAAATTTGA	GCCGAATGGTTAGATG GCTA	CAACCTGACAACCCGA GATT	60.1	905	INTERGENIC	--	--	--
Ca4_P3_27368144	Ca4	27368144	GAAAAAAAA/GAAAAAAAA	AGGCATTAGCTCGAC AACT	ATTTTGACATGGTCTT CCC	60.0	800	INTERGENIC	--	--	--
Ca4_P3_27368649	Ca4	27368649	ATTTTTTT/ATTTTTTT	GGAAGACCATGTGCA AAAT	TTGTTCCAAGCCCTAA ATGC	59.8	543	INTERGENIC	--	--	--
Ca4_P3_27375475	Ca4	27375475	T/TG	TGGCTGATGTGTGTTT GGAT	TGCAGCACAGGAAAAG AATG	60.0	548	INTRON	Ca_21323	--	--
Ca4_P3_27376069	Ca4	27376069	TAA/TAAA	ATCCTCTCCATTCCTTG CCT	TTGCTTTCACAGTCCA ATGC	60.0	304	INTRON	Ca_21323	--	--
Ca4_P3_27378491	Ca4	27378491	TAAAAAAAA/TAAAAAAAA	GGATCCGTCTCTGCA TAAA	TTGCACAGGTTGTTT GTTG	60.0	585	DRR	Ca_21323	--	--
Ca4_P3_27379933	Ca4	27379933	CAAAAAA/CAAAAAA	ATGGTACAAAGTGGA AGGC	GAGAAAAGCAGGTGA ATGC	60.0	748	DRR	Ca_21323	--	--
Ca4_P3_27381951	Ca4	27381951	AG/AGAAAGTGGTAGCG	GAAAAGATCGAATCGG GTGA	GTGGAGACACCGGAA GATGT	60.0	525	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
Ca4_P3_27383955	Ca4	27383955	GTTTTTTT/GTTTTTTT	CGTCGATGTTGATTCC CTCT	TTTCGCATCTTGCTTCA CTG	60.1	927	INTERGENIC	--	--	--
Ca4_P3_27395535	Ca4	27395535	TAAAAAAA/TAAAAAAA	ATTTTGTGTTGGCGTTT GAG	GCATCACGGTACCATA GGCT	60.0	542	INTERGENIC	--	--	--
Ca4_P3_27403057	Ca4	27403057	ATTTTTT/ATTTTTTT	CGCAACAACGAAGCAA AATA	GCACGGTTGAGTGAAA AAGG	59.9	579	INTERGENIC	--	--	--
Ca4_P3_27436244	Ca4	27436244	T/TAG	ACCGCTTGAGACCA AATC	CCATTTGGGACATTG TGTG	60.1	580	INTERGENIC	--	--	--
Ca4_P3_27491121	Ca4	27491121	ATTTTTTT/ATTTTTTT	ATGCAGCACCTAGTTTT GGC	CATGTTTCGTCGCTCTC ATGT	60.3	531	INTERGENIC	--	--	--
Ca4_P3_27491848	Ca4	27491848	ATTTTTTT/ATTTTTTT	TACGCGCTTCTTTTCAT TCA	CGTCCCCTTCCTCAAA CATA	59.6	503	INTERGENIC	--	--	--
Ca4_P3_27499638	Ca4	27499638	TA/T	ATATGATCTAGCGCCC ACCA	ATTTTGGCAGACCAAA GGTG	60.5	763	INTERGENIC	--	--	--
Ca4_P3_27508639	Ca4	27508639	T/TC	TCCAATGGAGATCAAT GCAA	AACATAATGCCATGCC CAAT	60.0	233	INTERGENIC	--	--	--
Ca4_P3_27513599	Ca4	27513599	ATTTTTTT/ATTTTTTTT	TGATGGGGTTTTGTGT GAGA	ATGCATTACACGACCG CATA	59.9	612	INTERGENIC	--	--	--
Ca4_P3_27516071	Ca4	27516071	CAAAGGTTTTTGAACCTGAAAGGTTTT TGAACCTGAAAGGTTTTTGAACCTGA/C AAAGGTTTTTGAACCTGAAAGGTTTTT GAACCTGA	TTGATCGAAGACGTTT GCAG	TATCACCCAAAGGAAG ACGG	60.0	201	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
Ca4_P3_27535888	Ca4	27535888	CTTTTT/CTTTT	TCCTTATTGTATGGCCC CAG	ATGCCGCTTGTTCT TCTT	59.8	496	INTERGENIC	--	--	--
Ca4_P3_27537181	Ca4	27537181	AGTGTGTGTGTGT/AGTGTGTGTGTGT GT	TTTCATCCTCTCTCACG GCT	TCTTCATGGCAACACT TCCA	60.0	478	INTERGENIC	--	--	--
Ca4_P3_27537614	Ca4	27537614	GAAA/GAAAA	TGGAAGTGTGCCATG AAGA	CGACTTCAAGCTTCAT CCGT	60.2	195	INTERGENIC	--	--	--
Ca4_P3_27539521	Ca4	27539521	TAA/TACATAGTGAA	CTTGTGAAAGCCTCAAA GCC	TTGATTTCGTGAGTTC ATTCAA	60.0	776	INTERGENIC	--	--	--
Ca4_P3_27539986	Ca4	27539986	ATA/ATAGATTA	TTGAAATGAACTCACGA AATCAA	CACCCTCGCTTAGAAA AACG	59.6	542	INTERGENIC	--	--	--
Ca4_P3_27548804	Ca4	27548804	TAAAA/TAAA	TTCCCCATTCTTAACAC CCA	TTCGCAACTCCACTCT TCCT	60.2	672	INTERGENIC	--	--	--
Ca4_P3_27563516	Ca4	27563516	CTTTTT/CTTTTTT	TTTGGTCAACTTTTTGG CCT	GGTTTGGGGTTGTCAA GCTA	59.6	599	INTRON	Ca_21314	--	--
Ca4_P3_27573953	Ca4	27573953	GAAAAAAAAA/GAAAAAAAAA	CGTGTGGGGATGCTTA ACTT	AACCACTCAAGTGTTT GGGC	60.0	453	INTRON	Ca_21314	--	--
Ca4_P3_27576276	Ca4	27576276	GAA/GAAA	TCGCACAAAAGGTTAG GTCA	GCAACCAATTCGCTGA AAGT	59.3	698	INTRON	Ca_21314	--	--
Ca4_P3_27594072	Ca4	27594072	CTTTTTTT/CTTTTTTTTT	ATCAGAGGTTGCGCAA AAAT	TTTCCTTCCAAATTAC GCC	59.7	668	INTRON	Ca_21314	--	--

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
Ca4_P3_27614005	Ca4	27614005	ATTTTTTTTTTTTT/ATTTTTTTTTTT	TAAAAGGAACATGGG CAGC	CCCACAGTCGATGTTG TTTG	60.1	821	INTRON	Ca_21314	--	--
Ca4_P3_27615030	Ca4	27615030	TAAAAAAAAA/TAAAAAAAAA	GCTGAGCAAGGATCT GAAT	TTTAATGCTGCCAATG ACCA	59.4	833	DRR	Ca_21313	--	--
Ca4_P3_27631111	Ca4	27631111	GTTTTTTT/GTTTTTT	ATCAACGCGATAATTG GAGC	TGCATGCAACAATCAA GAAA	60.1	813	INTERGENIC	--	--	--
Ca4_P3_27692193	Ca4	27692193	TAAAAAAA/TAAAAAAA	TTGGTCGCAATAAAAC TAACAAA	TGACAATTACATGGGG ACGA	59.9	247	INTERGENIC	--	--	--
Ca4_P3_27692676	Ca4	27692676	GACA/GA	TCGTCCCATGTAATTG TCA	TTGCATATTAGTATTGC AGTGCAAA	59.8	639	INTERGENIC	--	--	--
Ca4_P3_27698175	Ca4	27698175	CAAAAAAAAA/CAAAAAAAAAA	CTAACCTTGCATGGGG AAAA	ATTCATGGTGCTTTCTT GGC	59.9	274	DRR	Ca_21307	--	--
Ca4_P3_27744353	Ca4	27744353	ATTCAACCCCTCTT/ATTCAACCCC TCTTCAACCCCTCTTC	CCATCTTTGGGTGAAC CAGT	CCTCACC GCAACCACT ATTT	59.8	481	DRR	Ca_21304	--	--
Ca4_P3_27746278	Ca4	27746278	CTTTTTTTTT/CTTTTTTTT	AGTTTTCTGTGGGTTC CCG	TGCCACATCACCTAA ATCA	60.0	546	INTERGENIC	--	--	--
Ca4_P3_27761523	Ca4	27761523	CTTTTT/CTTTTTTT	TTTTGCGACGTTTTA TGC	GACACGACGATGATGA CCAC	59.7	120	INTERGENIC	--	--	--
Ca4_P3_27796696	Ca4	27796696	AATATATATATATATATATAT/AA TATATATATATATATAT	GGCAGAAGTGAAACAA TGATGA	TAATAAGGTGGTGGT CGGC	60.1	731	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
Ca4_P3_27872586	Ca4	27872586	CTTTTTTTTT/CTTTTTTTTTTT	GGGTTGAACGTGGTC AAGG	CGCCAAACTTGACTT CACTC	60.3	466	INTERGENIC	--	--	--
Ca4_P3_27878476	Ca4	27878476	ATTTTTTTTTTT/ATTTTTTTTTTT	ATCCTCACCTGCAAGA CCAT	TGTCTCGAATTACCCC GAAG	59.5	640	INTERGENIC	--	--	--
Ca4_P3_27902426	Ca4	27902426	T/TC	CTGATTTGGCTCTGAT GGCT	ATCATAGATCGCGAGC ATCC	60.4	686	INTERGENIC	--	--	--
Ca4_P3_27919988	Ca4	27919988	ATTTTTTTTTTT/ATTTTTTTTTTT	ATCAACGGATTGTGT GGGT	GTATGTGGGTTTGTAT GGGC	60.1	210	INTERGENIC	--	--	--
Ca4_P3_27923862	Ca4	27923862	CTATATATATATATAT/CTATATATAT ATATATATAT	CATTAATTTTGCAGGA GGC	AATGGGTCTAAGTGCA TGCC	59.7	783	DRR	Ca_21301	--	C2H2
Ca4_P3_27928820	Ca4	27928820	CACAAC/CACAACAAC	AGCGATGCATGTCTCA AGTG	AGCGCTTTGTGACCTC CTTA	60.0	754	INTERGENIC	--	--	--
Ca4_P3_27954238	Ca4	27954238	A/AT	ACTTCTTGACCATGCCA ACC	CCATTAGTGGTTGTG CCCT	60.0	466	INTERGENIC	--	--	--
Ca4_P3_27966402	Ca4	27966402	AA/AAGA	CCATTAACCAAGTTGTG CAAGA	ACACATTGGTCCGTGT TTGA	60.0	498	INTERGENIC	--	--	--
Ca4_P3_27971871	Ca4	27971871	GCTTCAC/G	TGTGTTTCGAGTTTCG CTG	TGCCATGACAGAACCA ATGT	60.0	412	INTRON	Ca_21299	T	--
Ca4_P3_27973163	Ca4	27973163	GTTTTTTTTTTT/GTTTTTTTTTTT	GTGCTCAAAATTTGGT GGCT	TTTGGGTGATTTTAAC CTGTCA	60.1	610	DRR	Ca_21299	T	--

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 (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
Ca4_P3_28020575	Ca4	28020575	TG/T	GGGAGCAAAAGCTTTG AATG	AATGAGACCTACGTCA CGGG	59.8	427	INTERGENIC	--	--	--
Ca4_P3_28020842	Ca4	28020842	GTTT/GTTTT	CCCGTGACGTAGGTCT CATT	CCAACCATTGTTGCTT CCTT	60.0	335	INTERGENIC	--	--	--
Ca4_P3_28026871	Ca4	28026871	TAAGAA/TAAGAAGAA	GACATCACACCAATTC GACG	TTTTGAAGGAGATGGG GTTG	60.0	885	INTERGENIC	--	--	--
Ca4_P3_28046427	Ca4	28046427	ANNNNNNNNNNNN/ANNNNNNNNNNN	TGTGTAACCATTGTGG GAGG	TGAGGATGGCCAAGTC TCTT	59.3	782	INTERGENIC	--	--	--
Ca4_P3_28052191	Ca4	28052191	CATAT/CATATAT	TTTGGACACGGATGAA GAAA	TTAGGCTAGCACTGCA TCCAT	59.1	860	INTERGENIC	--	--	--
Ca4_P3_28071934	Ca4	28071934	CTTTTTTTTT/CTTTTTTTTTTT	CCAGGAATCGACCATC AAGT	CTATTGACTTGGGCTC GGGA	59.9	681	INTERGENIC	--	--	--
Ca4_P3_28109349	Ca4	28109349	ATTTTT/ATTTTTT	CGGGGGTAGGGTTTGA GAGA	GCTGCTTGGTTGTGCT ATGA	60.3	491	INTERGENIC	--	--	--
Ca4_P3_28131693	Ca4	28131693	TT/TTCGGTGGCT	TAGCAAGAACACCATC GCAA	TTAACCCCAATTGCC GTTC	60.4	463	INTERGENIC	--	--	--
Ca4_P3_28148545	Ca4	28148545	ATACTTACT/ATACT	TGGTCATAATCGACGTT GGA	CTGCAAGCAGCAGAAG AACA	59.9	956	INTERGENIC	--	--	--
Ca4_P3_28153242	Ca4	28153242	CAA/C	TTGGCAGTGGTTCATT TCA	AAAAGCTTGCGAACAT CACC	60.1	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
Ca4_P3_28159950	Ca4	28159950	ATTTTTT/ATTTTTTT	AGTCAATGGTTGTGG CTCT	TGCAACCTCATACTGG GAAA	59.6	584	INTERGENIC	--	--	--
Ca4_P3_28160876	Ca4	28160876	TAAAAAAAAAAAAA/TAAAAAAAAA	TGTCAAAACAAACAACG TGCA	GTCCGTTTGTGATGGC TTTT	60.1	755	INTERGENIC	--	--	--
Ca4_P3_28160912	Ca4	28160912	TGG/TG	TGTCAAAACAAACAACG TGCA	GTCCGTTTGTGATGGC TTTT	60.1	755	INTERGENIC	--	--	--
Ca4_P3_28167031	Ca4	28167031	CAAAAA/CAAAAAA	TTGAGATGGTTGCTTT GCAG	GCCCATGGAGATTGA AAAA	60.0	661	DRR	Ca_23172	--	Dof
Ca4_P3_28169092	Ca4	28169092	GC/G	TTTTTGCCCATTCAAAC ACA	AAATGCGTCAGCCAG TAAG	59.9	829	INTERGENIC	--	--	--
Ca4_P3_28169919	Ca4	28169919	TGGG/TGG	CTTACTGGGCTGACGC ATTT	CCGGAAATTTAAGGCA CAAA	60.3	696	INTERGENIC	--	--	--
Ca4_P3_28170171	Ca4	28170171	TG/TGG	GCCTTAAATTCGGT GGTT	AACCTCATTGCCCAT GATA	60.2	235	INTERGENIC	--	--	--
Ca4_P3_28177214	Ca4	28177214	ATTTTTTTTT/ATTTTTTTTT	CCAATTCATGAAATCGG TCC	TTCTATGGGACAGCCC AATC	60.1	615	INTERGENIC	--	--	--
Ca4_P3_28179172	Ca4	28179172	TAAAAAAAAA/TAAAAAAAAA	CGGCTCACGTTTATTTG TTG	TTCCACATTTTCCCT CAA	59.2	485	INTERGENIC	--	--	--
Ca4_P3_28180097	Ca4	28180097	ATTTTTTTTT/ATTTTTTT	TCGAGCATGCTATAGT CCGA	ACCAATGTCCAACGGG AATA	59.5	869	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 (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
Ca4_P3_28180264	Ca4	28180264	TAAA/TAAA	GGAAGAGCGAGAAGGG AGAT	ACCAATGTCCAACGGG AATA	59.9	325	INTERGENIC	--	--	--
Ca4_P3_28184807	Ca4	28184807	ATTT/ATTTT	GACCTTTGTTGACCTTG CGT	TGTTGAGTTGGAGATG AAGCA	60.2	595	INTERGENIC	--	--	--
Ca4_P3_28184868	Ca4	28184868	AA/AATA	GACCTTTGTTGACCTTG CGT	TGTTGAGTTGGAGATG AAGCA	60.2	595	INTERGENIC	--	--	--
Ca4_P3_28205709	Ca4	28205709	TTATATATATA/TTATATATA	GGTGAATTCAACGTG AAGG	AACATTCTGGAGGCAT TTGG	60.4	673	INTERGENIC	--	--	--
Ca4_P3_28206465	Ca4	28206465	AACA/AACACA	CCAAATGCCTCCAGAA TGTT	TCCTTGCCAGAAGCTA TGCC	59.9	643	INTERGENIC	--	--	--
Ca4_P3_28209971	Ca4	28209971	T/TA	ATTGATGGAGCGAATC GAAC	AATTCCTCTTTTGGTG GGCT	60.0	891	INTERGENIC	--	--	--
Ca4_P3_28211715	Ca4	28211715	TCC/TC	AAATTTTGGGCCAATAC GTG	TCGTTGAAAATGTCT GCAT	59.7	683	INTERGENIC	--	--	--
Ca4_P3_28213499	Ca4	28213499	CTTTTTTTT/CTTTTTTTTT	ACTGACCTGACCTAGG CGTG	GTTGCAAAATTGGTGT CTGC	60.3	646	INTERGENIC	--	--	--
Ca4_P3_28254483	Ca4	28254483	CAACAA/CAACAAGACAAACAA	GGGGAACCTCTCAAGT CACA	CGTGGAACCAACCTT GTCT	60.1	703	INTERGENIC	--	--	--
Ca4_P3_28268353	Ca4	28268353	ATGTGTGTGTGTGTGT/ATGTGTGTGT GTGTGTGT	TCATGCATTCTCGAACC AAA	CTCGCTCCACACAATC TTCA	60.2	888	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 (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
Ca4_P3_28274294	Ca4	28274294	GAAAAAAAAA/GAAAAAAAAA	CCAGAAGCAGAAAAAC CAGG	TTTGAAACTGTCGCGA CTCA	59.8	631	INTERGENIC	--	--	--
Ca4_P3_28274340	Ca4	28274340	CAAAAAAAAA/CAAAAAAAAA	CCAGAAGCAGAAAAAC CAGG	TTTGAAACTGTCGCGA CTCA	59.8	631	INTERGENIC	--	--	--
Ca4_P3_28281450	Ca4	28281450	ATTTTTTTTT/ATTTTTTTTTTT	AATCGAACGACTGAGA ACGG	GTTCTTTTGCCACTT GCAT	60.3	261	INTRON	Ca_23166	TR	FAR1
Ca4_P3_28281644	Ca4	28281644	CTAT/CTATATAT	ATGCAAGTGGCCAAAA GAAC	ACCAAGAAATGCCTTC TGGA	60.1	405	INTRON	Ca_23166	TR	FAR1
Ca4_P3_28281945	Ca4	28281945	CTTTTT/CTTTTTT	ATGCAAGTGGCCAAAA GAAC	GCTGCCACATGAATAC AACC	60.1	673	INTRON	Ca_23166	TR	FAR1
Ca4_P3_28282579	Ca4	28282579	CA/C	TCATGTGGCAGCATTAA GGA	TTCCCCGAGTCTTTTG TTTT	60.2	620	DRR	Ca_23166	TR	FAR1
Ca4_P3_28284800	Ca4	28284800	AAAGAAGAAGAAGAAGAAG/AAAG AAGAAGAAGAAGAAG	TTGAATCCTCATTTCTG CCC	CCTTCCACCGAGTCAA CATT	60.0	813	INTERGENIC	--	--	--
Ca4_P3_28289460	Ca4	28289460	TAAAAAAAAAAAA/TAAAAAAAAA	TTGCATTGCACTTCTTT TGC	CGGTGATGCCTCTGTT TCTT	60.0	585	INTERGENIC	--	--	--
Ca4_P3_28295619	Ca4	28295619	ATT/AT	CAACCATCCCCTTTCTT TGA	CCACTTGACCCAATTA AGCA	59.9	545	INTERGENIC	--	--	--
Ca4_P3_28306538	Ca4	28306538	CTTTTTTT/CTTTTTTTTT	GGGTTTGTCTTTTTCG AGAA	AATTGTCCCATCCCTT ACCC	60.2	772	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
Ca4_P3_28322339	Ca4	28322339	A/ACCGT	TGCGTACACGAAAAG CAAC	TGTTGTTGCCGACTGA GAAG	59.9	333	INTERGENIC	--	--	--
Ca4_P3_28335781	Ca4	28335781	A/AT	CCCAGTTCCTTGAGCAT GACA	TGGACAAAACCTTGGT GCTTC	59.8	783	INTERGENIC	--	--	--
Ca4_P3_28337463	Ca4	28337463	AGTCTAT/A	ACAGCCGAGGACTTAA ACCA	GACCATCTGGTCAACG CTTC	59.7	768	INTERGENIC	--	--	--
Ca4_P3_28338890	Ca4	28338890	CAAAAAAAAA/CAAAAAAAAA	TATTTTCATGGGGCTCAA AGC	TAACCGCCTATTTTCTT GCG	60.0	555	INTERGENIC	--	--	--
Ca4_P3_28342637	Ca4	28342637	GCCC/GCCCC	TCACAAATCCTGGTGG TTGA	GGAAGAAAGCAATGTT GGAA	59.9	359	INTERGENIC	--	--	--
Ca4_P3_28346696	Ca4	28346696	A/AT	ACCACAGGTGAAAGAA ACCG	TTTCAACTCTATCCGT AGCCG	60.0	340	INTERGENIC	--	--	--
Ca4_P3_28349257	Ca4	28349257	TT/TTATGAGTAATACTAT	CTTTGCGATCAAATGGT CAA	TCAAGCTCAAAACGTG ATGC	59.7	592	INTERGENIC	--	--	--
Ca4_P3_28351973	Ca4	28351973	A/AT	CCCTCTTTTAAACGG AGACA	TGCATTGCAAACCTCAG AGG	59.6	326	INTERGENIC	--	--	--
Ca4_P3_28360547	Ca4	28360547	ATTTTT/ATTTT	ATGGACATAGCAATTG GCGT	GTCATTTTGGTGAACC GGAG	60.4	520	INTRON	Ca_23163	AYT	MYB
Ca4_P3_28362288	Ca4	28362288	TA/T	CAGCTGTTAGAGGGTG AGGG	TTCCATAATTCTTGCTT CTTCC	59.9	742	INTRON	Ca_23163	AYT	MYB

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
Ca4_P3_28367927	Ca4	28367927	GGA/GGAGA	GAAAAGACGGCGATGA AGAA	ACTATGGAGCTGGATG GCTG	60.3	803	DRR	Ca_23163	AYT	MYB
Ca4_P3_28379686	Ca4	28379686	TAAA/TAAAAAAA	TCGGATCTGAACCCATT AGC	TTTTCTTTCTTGTAATG TAAACTGCC	60.0	505	INTERGENIC	--	--	--
Ca4_P3_28390462	Ca4	28390462	TAA/TAAA	GTCATCAAAAGCCGAC GAAT	GGCCACAATTTTGAA GAGA	60.1	786	INTERGENIC	--	--	--
Ca4_P3_28390811	Ca4	28390811	CTTG/CTTGTTTGATTG	TGATGGGCACATGAAT CAAT	GGCCACAATTTTGAA GAGA	59.7	283	INTERGENIC	--	--	--
Ca4_P3_28402964	Ca4	28402964	CTTTTTTT/CTTTTTTT	CATTCTTCTTCATTAAG TGGGCA	TTGACGTGTCAACCTT GCTC	60.5	650	INTERGENIC	--	--	--
Ca4_P3_28403960	Ca4	28403960	TCTCCT/TCTCCTCCT	CGTTTAAGTCGACGTG TCCAT	TGCACTTGTTACGTG AGTG	60.0	721	INTERGENIC	--	--	--
Ca4_P3_28404551	Ca4	28404551	AAG/AAGAG	GGAATTCAATTGATTGG GGA	CGTGTGTGATGAACCAT CATTG	59.6	460	INTERGENIC	--	--	--
Ca4_P3_28407155	Ca4	28407155	ATTTTTTT/ATTTTTTTT	TTGGAACAATGGCCAC CTAT	CCTGGTTCCTTTATG ACCA	60.2	456	INTERGENIC	--	--	--
Ca4_P3_28407567	Ca4	28407567	CAAAAAAA/CAAAAAAA	TGGTCATAAAGGGAAC CAGG	GGAGGGGGTGAAATTA GGTGT	59.8	146	INTERGENIC	--	--	--
Ca4_P3_28408105	Ca4	28408105	AAAAGAAA/AAAA	TCAAAGTGTTGGAAG AGGG	CCCAACAATTTGAAGT GGCT	59.9	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_28408255	Ca4	28408255	GGGAAAAGGAAAAGGAAAAGGAAAAG/ GGGAAAAGGAAAAGGAAAAG	CAAAGTGGTTGGAAAA GGGA	AGCCTCGACAGGCTTA CAAA	59.9	666	INTERGENIC	--	--	--
Ca4_P3_28419575	Ca4	28419575	TCA/TCAACACAACCTCCA	TCTTGCTTTTCAAATTG CCA	GCTGGCTTGATGATAG GAGC	59.4	582	INTERGENIC	--	--	--
Ca4_P3_28422388	Ca4	28422388	TA/TAA	TGAAGGAACTTTGATG CCA	TTGGGTGATGGTAGTT TCAATG	59.2	534	INTERGENIC	--	--	--
Ca4_P3_28423269	Ca4	28423269	T/TA	TAGGTTTCCCATGTG GTGT	AGCACTTGCCCTTAG GAGT	60.1	697	INTERGENIC	--	--	--
Ca4_P3_28443084	Ca4	28443084	AAT/AATAT	CGATGAACCTGCGGTT TCTA	CCACATTGTTTCCAAC TCCA	58.9	658	INTERGENIC	--	--	--
Ca4_P3_28444987	Ca4	28444987	GTTTTT/GTTTTTTT	TGCACTGGCTCAGATG ATTC	TTTCATCCAAAGTTTT GACC	60.0	649	INTERGENIC	--	--	--
Ca4_P3_28454722	Ca4	28454722	TTAT/TTATTAT	GCCATTTGCCTAACCA AAA	CTTGGTTCCAACAATC TCCC	59.9	493	INTERGENIC	--	--	--
Ca4_P3_28483864	Ca4	28483864	CTGAAT/C	GAATGCCACCAGGAAA AGAA	TTGGTTTATTTGGGTT GGGA	60.1	392	INTERGENIC	--	--	--
Ca4_P3_28501292	Ca4	28501292	AAATATTTTATTATT/AAATATTTTATTA TTAATATTTTATTATT	GCACGCACACACATAT ACCC	TTTGCAGGCACAAAAG ACAG	59.9	747	INTERGENIC	--	--	--
Ca4_P3_28508068	Ca4	28508068	AT/A	TGAAGGCCTAATAACA CACCA	AGGTGGAGGCGTATGA TGTT	59.5	441	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
Ca4_P3_28510451	Ca4	28510451	TAAAAAAAA/TAAAAAAAAA	AGGAAATTCGCCAA GAAC	GCACATTTCCAAGGG CTTA	60.4	427	INTERGENIC	--	--	--
Ca4_P3_28510638	Ca4	28510638	GTCAAGATTGATCAAGATTG/GTCAA GATTG	TAAGCCCTTGAAAT GTGC	TTCGATGATCTTCTCT TCAACC	60.1	424	INTERGENIC	--	--	--
Ca4_P3_28524237	Ca4	28524237	ATTTTTTT/ATTTTTTTT	TTGGAAATGGTTTCTCC TGC	GCAAATGGTGTGTCA TTGC	60.1	579	INTERGENIC	--	--	--
Ca4_P3_28536428	Ca4	28536428	ATTTTTTTTT/ATTTTTTTTTT	TTGTAACACCCCGTTT TCG	CCTCAGATGAGAGCCA GGAC	60.8	433	INTERGENIC	--	--	--
Ca4_P3_28552997	Ca4	28552997	CTTTTTTTTT/CTTTTTTTTT	TTTGCATGGAGATGGT TTGA	TCATGCGGTTAAATG TGGA	60.0	437	INTERGENIC	--	--	--
Ca4_P3_28556813	Ca4	28556813	TAAAAAAAA/TAAAAAAAAA	GCAAAATTCATTCAA AATTCG	TGGTGGTGGGTGAAG AAGT	59.9	295	INTERGENIC	--	--	--
Ca4_P3_28590176	Ca4	28590176	CTTTT/CTTTTT	CCACCTCCACCATTCCT CTA	CAGCACCACAAACATC CAAG	59.9	476	INTERGENIC	--	--	--
Ca4_P3_28591975	Ca4	28591975	TTATATATATATATA/TTATATATATA TATATATATATA	ATCGATGCGACCACAT GTAA	TGGGGTTCAAAGAAAG GTCA	60.0	245	INTERGENIC	--	--	--
Ca4_P3_28601578	Ca4	28601578	AAAAGGATCAAAG/AAAAGGATCAAA GGATCAAAGG	TGCGATCGACAAGAAC ATTT	AGATGTTTGTGCGGA AGAT	59.3	377	INTERGENIC	--	--	--
Ca4_P3_28616334	Ca4	28616334	GTTTTTTTTT/GTTTTTTTTT	ATTGCATGTTGGAGGA AAGC	GGTGTACATGTGACAA GGCG	60.1	752	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
Ca4_P3_28622827	Ca4	28622827	ATGTGT/ATGTGTGT	ATATGGTTGCGCACAA ATGA	CGGCACACATTCAACA TTTC	60.0	475	INTERGENIC	--	--	--
Ca4_P3_28625916	Ca4	28625916	GAAAAAAAAA/GAAAAAAAAAAAAA	GAACTCTCGGACCAC CACT	AGAGTCTTCTGTTGCG CTCC	60.2	350	INTERGENIC	--	--	--
Ca4_P3_28662523	Ca4	28662523	ACC/ACCC	AGGGAGGACGAAAATG ACCT	ATTTCTGGAATCCCTT GGCT	59.9	214	INTERGENIC	--	--	--
Ca4_P3_28712353	Ca4	28712353	GAAA/GAA	AGGGAGGACAAAAACG ACCT	CGAAAAAGAAAACGGG AGAA	60.0	553	INTERGENIC	--	--	--
Ca4_P3_28714992	Ca4	28714992	GATAT/GAT	AGAGCCAACGCTCATA GGAA	TTAAAATCCCTCCTC GGCT	60.0	531	INTERGENIC	--	--	--
Ca4_P3_28792571	Ca4	28792571	GTT/G	GGGATCTCGGAAGTGT TGAA	TGCAACGTGGCTAAAC AAAG	60.1	146	INTERGENIC	--	--	--
Ca4_P3_28793395	Ca4	28793395	TAA/TAAAAACAA	CCAAAATTACACCAACG GTTC	TTGTTGCGATGCTCAT TCTC	59.2	275	INTERGENIC	--	--	--
Ca4_P3_28806476	Ca4	28806476	T/TA	TGTTTGTTTTTGCAAGC AGG	GCAAGAAGCCATCCAC AAGT	59.9	351	INTERGENIC	--	--	--
Ca4_P3_28806715	Ca4	28806715	CAAA/CAAAA	TGTTTGTTTTTGCAAGC AGG	CATCAACGCTTTTGG AGCC	59.9	624	INTERGENIC	--	--	--
Ca4_P3_28817710	Ca4	28817710	CTTTTTTT/CTTTTTTTT	CCTCCACGCCCTCATT ATTG	GCAATTCGGGCTTCTA GTTG	59.9	315	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
Ca4_P3_28821762	Ca4	28821762	CAA/CAAA	ATTCAGAATGGCGGAT CTTG	TAACATGCACTTTTGC GCTT	60.0	305	INTERGENIC	--	--	--
Ca4_P3_28822073	Ca4	28822073	TA/TAA	ATTCAGAATGGCGGAT CTTG	AACACCATTGCGGAA GAAG	60.0	646	INTERGENIC	--	--	--
Ca4_P3_28822607	Ca4	28822607	TAAAA/TAAA	CTTCTTCGCAAAATGGT GTT	TGTATTACCATGATTTT GTTGACTGA	60.1	448	INTERGENIC	--	--	--
Ca4_P3_28828821	Ca4	28828821	AAT/A	GGATTTATTGGGTTGAT CGC	GGCTTAGGCCACCACA AATA	59.2	507	INTERGENIC	--	--	--
Ca4_P3_28828876	Ca4	28828876	GTTTTTTTTT/GTTTTTTTTTTTTT	GTGGCCTAAGCCCTCA CAA	TCTTTATTGTGGCGG TCAA	61.2	108	INTERGENIC	--	--	--
Ca4_P3_28832888	Ca4	28832888	TGGTGTATA/T	CAGTTGTGCACTTTGAA TGTTG	AAAATCACATGGAGGA ACAAAAA	59.3	665	INTERGENIC	--	--	--
Ca4_P3_28833469	Ca4	28833469	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	TTTTGTTCTCCATGTG ATTTTT	CAACGTTTTATTCAAT TTCATGTG	59.7	426	INTERGENIC	--	--	--
Ca4_P3_28833682	Ca4	28833682	ATTGAAATAAACGTTG/ATTG	TTTTGTTCTCCATGT GATTTT	GAAAGAGCATGTGTG GCCA	59.7	503	INTERGENIC	--	--	--
Ca4_P3_28853222	Ca4	28853222	CAAAAAAAAA/CAAAAAAAAAA	TCCATTTTGGTCCATGA GAA	TTTTCTTCTTCGTCCT CGC	58.9	435	INTERGENIC	--	--	--
Ca4_P3_28855738	Ca4	28855738	TT/TTAAAT	TCGGATTCTTTCAATCC CTC	GTTTAATCACCCTGGG CCTT	59.1	386	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
Ca4_P3_28871485	Ca4	28871485	AA/AATTCATGAAAATA	CTCCTACTTGCGCACAA	ACAGTGCCTTCCATAA GCCT	60.1	233	DRR	Ca_23703	R	YABBY
Ca4_P3_28893508	Ca4	28893508	CTTTTTTTTTTTTTTTTT/CTTTTTTTTTT T	CCAAGCTCTTGGAGTT CGTT	TCTCAACGTGAGCCAC AAAG	59.5	706	INTERGENIC	--	--	--
Ca4_P3_28915111	Ca4	28915111	TAAAAAAAA/TTAAAAAAAAA	AAATGTTCCACATGATC GCA	TCCAAAAATAACGTTTT GCCA	59.9	400	INTERGENIC	--	--	--
Ca4_P3_28915187	Ca4	28915187	GTTTTTTTTT/GTTTTTTTTT	AAATGTTCCACATGATC GCA	TCCAAAAATAACGTTTT GCCA	59.9	400	INTERGENIC	--	--	--
Ca4_P3_28936822	Ca4	28936822	CTT/CT	TAAAGACATTGGGTGG AGGC	TGGACTTTGATGACTG CTCG	59.9	415	INTERGENIC	--	--	--
Ca4_P3_28949557	Ca4	28949557	CAAAAAAAAA/CAAAAAAAAA	TTTCATCATTTCTGGAG GCA	GTGAGGATGAGCTGAC ACGA	59.2	528	DRR	Ca_23705	J	--
Ca4_P3_28955741	Ca4	28955741	CAT/CATAT	TTTTAATGGGCTTGACC CAC	TTTCAAATGGGTAGAG GGCG	59.8	858	INTERGENIC	--	--	--
Ca4_P3_28965039	Ca4	28965039	ATTTTTTTTT/ATTTTTTTTTT	CTTTGGTCATACGGCA TGTTG	TTGAGTTGGGGGAGAA AAGA	60.0	168	INTERGENIC	--	--	--
Ca4_P3_28981567	Ca4	28981567	GAAAAAAAA/GAAAAAAAAA	GCCCTCAGATGAGAGT CAGG	AACTTTACCGCGATTG TTGG	59.9	778	INTERGENIC	--	--	--
Ca4_P3_28992327	Ca4	28992327	TC/T	CAAGTCCATGCAGTAA GCGA	GGAACCTGGAACCCG TAGA	60.0	836	INTRON	Ca_23706	--	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 (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
Ca4_P3_28992492	Ca4	28992492	CA/CAAA	GGCGGTACAATTGCTT GATT	GGAACCTGGAACACCG TAGA	60.0	592	INTRON	Ca_23706	--	NF-YB
Ca4_P3_28992636	Ca4	28992636	AAT/AATAT	GGCGGTACAATTGCTT GATT	GGAACCTGGAACACCG TAGA	60.0	592	INTRON	Ca_23706	--	NF-YB
Ca4_P3_28993058	Ca4	28993058	CTTT/CT	TCTACGGTGTTCAGG TTCC	AATGGATGGTTAACGA GTTGC	60.0	500	INTRON	Ca_23706	--	NF-YB
Ca4_P3_28996068	Ca4	28996068	CTTTTTTTTTTT/CTTTTTTTTTT	TAACAGCATTGCATTGG GAA	TTCCAACACTAAAGGG GTGC	60.1	243	DRR	Ca_23706	--	NF-YB
Ca4_P3_28997297	Ca4	28997297	GTT/GTTT	AGACGGAGGGAGTATC CGTT	CTGGGAGCTTCGAAA AAGT	60.0	784	DRR	Ca_23706	--	NF-YB
Ca4_P3_29008246	Ca4	29008246	GTTTT/GTTT	CCTACAATCCCAAGACA AGGA	ATTAATGCCCATGAAG GCAC	59.0	252	INTERGENIC	--	--	--
Ca4_P3_29036852	Ca4	29036852	CAAA/CA	TTGAGCCATGGATTG ATGA	TCCATTCATTCTTGC CATT	60.0	806	INTERGENIC	--	--	--
Ca4_P3_29037043	Ca4	29037043	GAAAA/GAAAAAA	CCATTGAGCTACACTGT GCG	TTGGACAACGCTTCAA ACTG	60.5	434	INTERGENIC	--	--	--
Ca4_P3_29046225	Ca4	29046225	TAAAAA/TAAAAA	TTTCAACGCGCTTTAGA CAAT	TGACCAGGCTTGTTAC TCAAA	59.9	740	INTERGENIC	--	--	--
Ca4_P3_29049004	Ca4	29049004	ATT/ATTT	GTTGAATGCCACCATG ACTG	TGGGGCATTCCATATT TTGT	60.0	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_29052231	Ca4	29052231	GTAATAA/GTTAATAA	TGTTTGCTTTGAGTTG GCA	AGAGGACACGTGTTGG AACC	60.4	584	INTERGENIC	--	--	--
Ca4_P3_29053469	Ca4	29053469	ACCCC/ACCC	CCTGTTGCAATGTTGAT TGG	ACATCAGAGAAATCAC CGCC	60.0	855	INTERGENIC	--	--	--
Ca4_P3_29053917	Ca4	29053917	ATTTTTTT/ATTTTTTTT	GGCGGTGATTTCTCTG ATGT	TGAAAGTTTCTCATGT GCATTT	60.1	548	INTERGENIC	--	--	--
Ca4_P3_29061010	Ca4	29061010	ATTTTTTT/ATTTTTTTT	AACGCGATGTGGAGGT TTAG	TTATATTGGCAACCGG CCTA	60.1	287	INTERGENIC	--	--	--
Ca4_P3_29065949	Ca4	29065949	AATATATATATAT/AATATATATAT	GGATCAAGATGCTCTA GTTCCAA	CATAACATTTGCGCCA CATC	59.7	547	INTERGENIC	--	--	--
Ca4_P3_29068157	Ca4	29068157	C/CTCAAATAG	CTTGGCTACCACCACG AAAT	ATCCAAGGGAGAAAGA AGGG	60.0	767	INTERGENIC	--	--	--
Ca4_P3_29070680	Ca4	29070680	T/TATTAA	ATACCAGACGCGATAG GTGG	GAACCTTACTATCGG TGGC	60.0	461	INTERGENIC	--	--	--
Ca4_P3_29085344	Ca4	29085344	AATCGATC/AATC	TCGCGAATCTGCTCTT GAAT	CGCCGCCAATTTTATT TTTA	61.0	556	INTERGENIC	--	--	--
Ca4_P3_29085408	Ca4	29085408	CTGG/CTGGAGATGG	TCGCGAATCTGCTCTT GAAT	CGCCGCCAATTTTATT TTTA	61.0	556	INTERGENIC	--	--	--
Ca4_P3_29085455	Ca4	29085455	TAAAAAAAAA/TAAAAAAAAA	GCAAGGTCTTCCCTT GTCA	CGCCGCCAATTTTATT TTTA	60.2	278	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
Ca4_P3_29085860	Ca4	29085860	TAAAAA/TAAAAAA	TAAAAATAAAATTGGCG GCG	TCCAATTCATTTCATG GGGT	59.9	348	INTERGENIC	--	--	--
Ca4_P3_29088324	Ca4	29088324	CAAA/CAAAA	CCCCTGTCTTTCAGATT AGCC	GGCTCAAGACTGCATT CACA	60.1	468	INTERGENIC	--	--	--
Ca4_P3_29094195	Ca4	29094195	TCTA/T	TCGGTAGCTGGCTGAA ATCT	TGCGTTGTCGCGTAAG TAAC	60.0	470	INTRON	Ca_23708	C	HD-ZIP
Ca4_P3_29094516	Ca4	29094516	ATTTTTTT/ATTTTTTTT	TCGGTAGCTGGCTGAA ATCT	TGCGTTGTCGCGTAAG TAAC	60.0	470	INTRON	Ca_23708	C	HD-ZIP
Ca4_P3_29100516	Ca4	29100516	GAA/GAAA	CCAAGGGGCACTGTG TACT	ACAGATCCATCGGGT TCAG	60.0	578	INTERGENIC	--	--	--
Ca4_P3_29100812	Ca4	29100812	GGTAGTA/GGTA	TCAAGAAATAGTGGG GCAG	TGGAGAACTCTTCG CTGT	60.1	840	INTERGENIC	--	--	--
Ca4_P3_29109089	Ca4	29109089	GAA/GA	TTGTTGGTTGGTCTCG TAAAA	AAGGCATACACATGGC AACA	58.2	379	INTERGENIC	--	--	--
Ca4_P3_29109343	Ca4	29109343	CAAA/CAAAA	CGAAGTCACCGTTGTG TCTC	CGCAATTGGAATACTC CCTC	59.3	398	INTERGENIC	--	--	--
Ca4_P3_29119825	Ca4	29119825	AT/ATAAATTGT	TTACACCTGTTTTAT GGGC	TTGTTTCTTCCCTTT GTCA	59.9	431	INTERGENIC	--	--	--
Ca4_P3_29121532	Ca4	29121532	CAAAAAA/CAAAAAAA	TTTGTGTCTTCTCGT CGG	TGTGTGAGATGCAAAA GCAA	59.0	571	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
Ca4_P3_29124667	Ca4	29124667	ATTTTTTT/ATTTTTTT	GAACTTTGGGACTTGG TGG	GAGCTCAAGTTATGGC CTGC	59.9	303	INTERGENIC	--	--	--
Ca4_P3_29155695	Ca4	29155695	ATTTTTT/ATTTTTTT	CAAATCGGTTGGTTTG ATCC	AAAAGATCTCGACCCT TTTGG	60.2	505	DRR	Ca_23711	--	--
Ca4_P3_29156658	Ca4	29156658	CATGCAATGCAAA/CATGCAAA	AGTTGGTTTGGTGGTG AAGG	GCATGGTAAAGGCTGT TGGT	59.9	841	DRR	Ca_23711	--	--
Ca4_P3_29157805	Ca4	29157805	GTTTTTTTTTTTTTTTTT/GTTTTTTTTTT TTT	TGCTGTTGTTGGTGGT TGTT	TCTCCACTCCTCTCTC CTCA	60.0	418	INTERGENIC	--	--	--
Ca4_P3_29158154	Ca4	29158154	T/TG	TTTGGGGAGACTGAAG ATGG	GCTCACGTTTTTGTAA GTCCA	60.0	713	INTERGENIC	--	--	--
Ca4_P3_29160022	Ca4	29160022	GAAAAAA/GAAAAAA	AACAAATGACATCGCA GGAA	GGAATGCATGAATTG AAACTG	59.1	461	INTERGENIC	--	--	--
Ca4_P3_29191237	Ca4	29191237	CTTTTTTT/CTTTTTTTTT	CCAACCTGGTTCCAACA ATCT	GGAGAAAAGTTAGGGG GTGC	58.9	119	INTERGENIC	--	--	--
Ca4_P3_29195942	Ca4	29195942	T/TA	TGTCATCTTCAGATGCA AACG	ACTGCACAATCCTGCA ACAG	59.9	718	INTERGENIC	--	--	--
Ca4_P3_29196512	Ca4	29196512	CTATAT/CTATATAT	AATCAACGGCAAATCG TTTC	ATGGTTTGATCCATCG GGTA	59.9	466	INTERGENIC	--	--	--
Ca4_P3_29211121	Ca4	29211121	AT/TA	GATGTTTAAGGTCTGTT TGGCA	AACTTCAGCCGTCATT GGTT	59.1	641	DRR	Ca_14151	--	--

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
Ca4_P3_29221169	Ca4	29221169	A/AG	TAACCATGGTCATCCCT CGT	ATGTTAACGTTCGGAG TGCC	60.2	374	INTERGENIC	--	--	--
Ca4_P3_29222326	Ca4	29222326	ATTTTTTT/ATTTTTTTT	TGCACCTCTCTATGTG CGTG	TTCGTTCCGGACAAAT CTTC	61.0	342	INTERGENIC	--	--	--
Ca4_P3_29233350	Ca4	29233350	TT/TTCT	TTGTCGTGAGAGGGAT AGGG	CTCCAGCCTTGATCA TTTT	60.1	381	INTERGENIC	--	--	--
Ca4_P3_29240532	Ca4	29240532	AA/AAGA	AGGGGGAGATTGTTGG AATC	TTCTAGCTTGGTCAA CAACAA	60.1	611	INTERGENIC	--	--	--
Ca4_P3_29241687	Ca4	29241687	TG/T	TCCTCAAAAGTTTGGG GTTG	ATCTCAAATTGAACCC GCAC	59.9	450	INTERGENIC	--	--	--
Ca4_P3_29243330	Ca4	29243330	CAAA/CAAAA	TGTGGCAGCTACGTTT AGTC	GTTGACCTCGACAAG GAAT	60.1	553	INTERGENIC	--	--	--
Ca4_P3_29245084	Ca4	29245084	ATA/ATACTTA	GCCCTTTGCAAGCTAT GAAG	TGGTGCAATTGGTTG GTAA	60.0	418	INTERGENIC	--	--	--
Ca4_P3_29245578	Ca4	29245578	T/TA	TTACCAACCAAATTGCA CCA	CCCTAATGGGCCAAAT TACA	59.8	583	INTERGENIC	--	--	--
Ca4_P3_29262137	Ca4	29262137	AAT/AATTAT	TTCAAAGGTGCATTGTC GAT	CACTGCGACGAAACTT ACCA	59.1	619	INTERGENIC	--	--	--
Ca4_P3_29280793	Ca4	29280793	TAAAAAAAAA/TAAAAAAAAAAAAA	TGGTCCATCAAAACAA GCTG	TCCTCGCCCAATTGT AGAC	59.7	662	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
Ca4_P3_29280898	Ca4	29280898	AAATAGATATTTTCTATAATAGATATT TTTCTATAATAGATATTTTTC/AAATAGA TATTTTCTATAATAGATATTTTTC	GGGTCCTTGATGTGAT GTAGG	TCCTCGCCCAATTGT AGAC	59.3	514	INTERGENIC	--	--	--
Ca4_P3_29314266	Ca4	29314266	TAAAA/TAAA	AGTCTTGCTTGCTTTG GCTT	CGAAACCAATTCTCTC CCAA	59.3	569	INTERGENIC	--	--	--
Ca4_P3_29314421	Ca4	29314421	GAAAAAAAAA/GAAAAAAAAA	AGTCTTGCTTGCTTTG GCTT	CGAAACCAATTCTCTC CCAA	59.3	569	INTERGENIC	--	--	--
Ca4_P3_29315886	Ca4	29315886	CTTTTTTTT/CTTTTTTTTT	CGTGGCAACCCAAGAC TTAT	TCATGTTCAAGAATC GGTCC	60.0	733	INTERGENIC	--	--	--
Ca4_P3_29319511	Ca4	29319511	A/AC	GAATCTTCGATGCCTT GGTC	TTGGGAAATGATTGCT TTTTG	59.6	531	INTERGENIC	--	--	--
Ca4_P3_29333372	Ca4	29333372	TTG/TTGAAAAACATATG	GATTCGGAGAACCAAG CATA	TCATTGCAGGTATGC AAAA	60.0	717	INTERGENIC	--	--	--
Ca4_P3_29338120	Ca4	29338120	GAAAAAAAAA/GAAAAAAAAA	TTAGAAGAAAGGGAAG GGGC	TGAGGTTCTGCAAGA GGTATT	59.7	637	INTERGENIC	--	--	--
Ca4_P3_29360599	Ca4	29360599	TAA/TAAA	CAAAGTAAGAGCGCAA CACG	TGCAAGTATCCACCAA AATGC	59.7	441	INTERGENIC	--	--	--
Ca4_P3_29360677	Ca4	29360677	TAAAAA/TAAAAA	CAAAGTAAGAGCGCAA CACG	TGCAAGTATCCACCAA AATGC	59.7	441	INTERGENIC	--	--	--
Ca4_P3_29361271	Ca4	29361271	TT/TTTTATATATATATAT	TTGGTGGATACTTGCA CAAAA	TGCAGTACCGTCCATA AATCC	59.1	693	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
Ca4_P3_29369624	Ca4	29369624	TAAAAAAAAA/TAAAAAAAAA	TCTCTTTGTGATTGGG GATG	AAATGTACGGCGGTTA GTGG	59.9	557	INTERGENIC	--	--	--
Ca4_P3_29369690	Ca4	29369690	TAAAAAAAAA/TAAAAAAA	TCTCTTTGTGATTGGG GATG	AAATGTACGGCGGTTA GTGG	59.9	557	INTERGENIC	--	--	--
Ca4_P3_29376833	Ca4	29376833	T/TA	ATTTTCCACCCCTAAG GCA	GCCGCGAGTTGTTCAA TTAT	60.7	507	INTERGENIC	--	--	--
Ca4_P3_29377748	Ca4	29377748	GAAAAAAAAA/GAAAAAAAAA	CATCCTTACGCGATCTC CAT	AATGATACGACCCAT TCCA	60.1	491	INTERGENIC	--	--	--
Ca4_P3_29379238	Ca4	29379238	CAAAAAA/CAAAAAA	ATGCAAGTGGCCTAG ACAG	CACTTCGTTTTGGAAT CGGT	60.3	630	INTERGENIC	--	--	--
Ca4_P3_29386753	Ca4	29386753	T/TG	AGGAGAAATGCGAACC ATTG	CGACTCCAGTGAATTC GTGA	60.1	391	INTERGENIC	--	--	--
Ca4_P3_29415806	Ca4	29415806	GACAC/GAC	TCTAGAATCAGGAGTG CCGC	GATGACCATTTCCATT GGG	60.5	463	INTERGENIC	--	--	--
Ca4_P3_29418053	Ca4	29418053	GAATAAATAAATAA/GAATAAATAA AAATAAA	TTGCTCCTACGTATCTC CCG	AACTTCCACCGTACAC CACC	60.2	836	INTERGENIC	--	--	--
Ca4_P3_29418531	Ca4	29418531	TT/TTAT	GGTGGTGTACGGTGGA AGTT	GTCAAGGCAGACCAGA AAGC	59.7	383	INTERGENIC	--	--	--
Ca4_P3_29419619	Ca4	29419619	ATTTTT/ATTTT	GCCCCCAAAAGAAAG TCTC	GGCATAAGCTTGCAAT GTGA	60.1	682	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
Ca4_P3_29444899	Ca4	29444899	GTTTTTTTTT/GTTTTTTTTT	TCGAAATTTTAGGCCAC GAC	CCAGAAGGCTACCACT ACGC	60.1	415	INTERGENIC	--	--	--
Ca4_P3_29463257	Ca4	29463257	GAAAAAAA/GAAAAAA	TGCTTGGTTCTTGAGC CTCT	ATGTTCGTGTTTTTC CCAA	60.1	297	INTERGENIC	--	--	--
Ca4_P3_29475056	Ca4	29475056	G/GA	GGTTCACCCAAAGATG GCTA	AGAGCAACACCCATCC TCAC	59.9	272	DRR	Ca_14157	R	--
Ca4_P3_29501722	Ca4	29501722	TGG/TGGG	ATGGAGGTGCAGGGAA GAAT	TGAGTGGAAAATGGCA TCAA	60.9	790	INTERGENIC	--	--	--
Ca4_P3_29509804	Ca4	29509804	GTTTTTTTTT/GTTTTTTTTT	GGCCGATAAGACAATC ATTCA	ATCGGAAAAACCTAT GGGA	59.9	420	INTERGENIC	--	--	--
Ca4_P3_29520331	Ca4	29520331	TATATATATAAG/T	AAAAATCGAAACACATG GGG	TTTCCGAAACTCAAAA GGG	59.7	320	INTERGENIC	--	--	--
Ca4_P3_29530159	Ca4	29530159	TAAAAAAAA/TAAAAAAAA	ACTGCCAGATCCAACC AAAC	CACACCACCCCCTTT CTCT	60.0	518	INTRON	Ca_14161	--	--
Ca4_P3_29582409	Ca4	29582409	TAAAA/TAAA	AGCTGTATTGGGCCTC CTTT	GCCGAATAAACCCCTC ACAA	60.1	212	INTERGENIC	--	--	--
Ca4_P3_29595669	Ca4	29595669	T/TA	TGCACGTAATTCGATT CTT	TAGCAACAGGCCAGAG AGGT	59.5	458	INTERGENIC	--	--	--
Ca4_P3_29603133	Ca4	29603133	ATTTTT/ATTTTT	CCATCAAATTTGTGATT GGTTTT	GGTCCACTCAAACGAC AACA	60.0	732	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 (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
Ca4_P3_29619182	Ca4	29619182	AG/A	TTGTCGTGGTGATTAAT GAAAAA	GCCGACACCTTCAATC AAAT	59.4	751	INTERGENIC	--	--	--
Ca4_P3_29620388	Ca4	29620388	ATTTTTTT/ATTTTTTTT	TGGGAGGATAGCATT TTGG	TATCTTCCACCAATGT CGCA	60.0	543	INTERGENIC	--	--	--
Ca4_P3_29624503	Ca4	29624503	CCACA/CCA	TGCACAAGACCATGCT AACC	CCTTGATTGTGGCACC TTTT	59.7	619	INTERGENIC	--	--	--
Ca4_P3_29630388	Ca4	29630388	TAAAAAAA/TAAAAAAA	TACGGATTTCAGAGCG GAGT	AGCTAGGCTTACCAAC GCAA	59.8	524	INTERGENIC	--	--	--
Ca4_P3_29642172	Ca4	29642172	ATTT/ATT	GAGTGCGCATCATTTGA AAAA	GTGACCAAAAGGGAGT TTCG	59.8	624	INTERGENIC	--	--	--
Ca4_P3_29646991	Ca4	29646991	GGATCG/GG	AGGATTCCGGTCTGTGT TTGG	TCAGGACTGCAATAA CCCA	60.0	555	DRR	Ca_14165	S	--
Ca4_P3_29648827	Ca4	29648827	CTTTT/CTTT	GCCTTCGGTTTATTGTT GGA	TGGAAATAGGCCATAC CGAG	59.9	714	INTERGENIC	--	--	--
Ca4_P3_29650782	Ca4	29650782	A/AT	ATTTTCCAGGTGCATT TCG	CCTAGAGCTTGGTTTG GCAG	59.9	492	INTERGENIC	--	--	--
Ca4_P3_29651625	Ca4	29651625	CTC/CTCAAAATC	GAGCAACAAACCCTTG TGGT	GGCCAAAAACATTGCT TTGA	60.0	833	INTERGENIC	--	--	--
Ca4_P3_29671539	Ca4	29671539	GTTATGG/GTTATGGACTTATGG	CACTTGTGTTGGAACG TTGG	TGCATGTCAGCCATAC CAAT	60.0	158	DRR	Ca_14166	Z	MYB_related

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
Ca4_P3_29672778	Ca4	29672778	ATATGATAGCCAAC/ATATGATAGCCAAC CTATGATAGCCAAC	CCCAACATGGCCTTAA AAGA	GTTAGCTGCTGCCAAA GGAC	59.9	346	DRR	Ca_14166	Z	MYB_related
Ca4_P3_29684929	Ca4	29684929	ATTTTTTTTT/ATTTTTTTTT	GCCCTGGCCTAAGAAT AACC	CAAGCCAACAGAACCT GGAT	59.9	562	INTRON	Ca_14166	Z	MYB_related
Ca4_P3_29689261	Ca4	29689261	CTATA/CTATATA	GAAACGGCTGCATACA AGGT	GGAAGCAACGAGGAT GTGAT	60.1	212	INTRON	Ca_14166	Z	MYB_related
Ca4_P3_29690022	Ca4	29690022	GAAAAAAAA/GAAAAAAAAA	GAGGATAAGCCATGGA TGTC	AGCAAGCCAAGAGAAT CGAA	59.9	524	INTRON	Ca_14166	Z	MYB_related
Ca4_P3_29700063	Ca4	29700063	ATTTT/ATTT	TGGCCTTATTGCTTT TGG	CCTACCCATACGTA CCCC	60.1	716	INTERGENIC	--	--	--
Ca4_P3_29703578	Ca4	29703578	A/AG	TTTGTATGTACGCGTCA TGTT	TTGGTTGTGTTGGTCG AGAA	58.2	488	INTERGENIC	--	--	--
Ca4_P3_29712197	Ca4	29712197	ATTTTTTT/ATTTTTTT	CAGCCTTCGAAATCC ACAT	GGGGGTTTGAGTAAGC AAAA	60.1	567	INTERGENIC	--	--	--
Ca4_P3_29712689	Ca4	29712689	CAAA/CAA	TTTGCTTACTCAAACCC CCA	AGTTCGGTAGTGGCTT CCCT	60.5	837	INTERGENIC	--	--	--
Ca4_P3_29768507	Ca4	29768507	ATTTT/ATTTT	CACACAATTGCGAAGT CTCG	TTGCTTTTCTTCTTCA TCGG	60.4	529	INTERGENIC	--	--	--
Ca4_P3_29774862	Ca4	29774862	T/TC	TGTGCTTTTCAAATCAT GCC	CATTGAGGAGCAGCA ACAA	59.7	826	DRR	Ca_14170	K	HD-ZIP

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
Ca4_P3_29776445	Ca4	29776445	TAAAAAAAAA/TAAAAAAAAA	TATTTTGGGCTGGT TTGT	TGGGCCACCCTATACC AATA	60.2	729	INTRON	Ca_14170	K	HD-ZIP
Ca4_P3_29811970	Ca4	29811970	AGGCGCGC/AGGCGCGCAGGGCGCG C	GCGTTTTTATGGTTGCT GGT	ACTTTCATGAAGACAC CGGG	60.0	152	INTERGENIC	--	--	--
Ca4_P3_29813940	Ca4	29813940	CTATATATATATATATATATATATATA TATAT/CTATATATATATATATATATA TATATATATATATATAT	CCACGTAATTATCACGC CAA	CCCTGAAGTCATTCCA GCAT	59.4	483	INTERGENIC	--	--	--
Ca4_P3_29826112	Ca4	29826112	ATTTTTTTTT/ATTTTTTTTT	TTTGACAAGCGCTGT AAAC	AATCTCATCAACTCGG TCGG	60.1	833	INTERGENIC	--	--	--
Ca4_P3_29826826	Ca4	29826826	TGTG/T	CGAACCTACGAGGCTA AACG	GGGTGTCGAAACATTC CATC	59.9	290	INTERGENIC	--	--	--
Ca4_P3_29864644	Ca4	29864644	ATTT/ATT	TTTCTCCGCTTTTGTC AAG	TATACAAGGCCTCTTG CGCT	60.4	725	INTERGENIC	--	--	--
Ca4_P3_29901176	Ca4	29901176	TAAAAAAAAA/TAAAAAAAAA	CGAATTCAATGGAGTT GCCT	TCGATCCCACCGAGAG ATAC	60.1	363	INTERGENIC	--	--	--
Ca4_P3_29916991	Ca4	29916991	TC/T	GAGCAACGTCTGTTT GGTT	GGAGGAGCAGAAGCA ACAAC	60.2	363	INTERGENIC	--	--	--
Ca4_P3_29924754	Ca4	29924754	TTATATATATATA/TTATATATATATATA	GGAATCCCCTGAAGG TAAA	AGAGGGTCAACTCTGT CCGA	60.1	915	INTERGENIC	--	--	--
Ca4_P3_29925363	Ca4	29925363	CAAAAAA/CAAAAAA	ATCGGACAGAGTTGAC CCTC	GAATGGGCTGGCTTGA CTAA	59.1	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_29930734	Ca4	29930734	TAA/TCAAA	GCTCATAATTGCGGGT CATT	AGGTATGGACAAAATT GCGG	59.9	547	INTERGENIC	--	--	--
Ca4_P3_29931074	Ca4	29931074	AGATGA/AGA	TGTGCACCAATATCTGC CAT	GAAGAAAACCCGGGAT CAGT	60.0	670	INTERGENIC	--	--	--
Ca4_P3_29931459	Ca4	29931459	TTTTATTTT/TTTTT	CCGCAATTTTGTCATA CCT	CCAAAAAGTAGGGGA GAGAA	59.8	545	INTERGENIC	--	--	--
Ca4_P3_29933754	Ca4	29933754	ATTTT/ATTTT	AGCCACACGATGTTGA TTGA	TGATTAGGAATCACC CGTT	60.1	845	INTERGENIC	--	--	--
Ca4_P3_29939743	Ca4	29939743	CAA/CA	TCCTTTTCGAGACTCAG GGA	GCACCACCTGTTTGAT TTCC	59.9	718	INTERGENIC	--	--	--
Ca4_P3_29944759	Ca4	29944759	TAAAAAAA/TAAAAAAA	AAATGCAATAGCAGGTT GGC	ACCGAAAATTTTATTG GCGA	60.1	309	INTERGENIC	--	--	--
Ca4_P3_29944817	Ca4	29944817	TCCC/TCCCC	AAATGCAATAGCAGGTT GGC	ACCGAAAATTTTATTG GCGA	60.1	309	INTERGENIC	--	--	--
Ca4_P3_29974650	Ca4	29974650	ACT/AACTCTTAATTGTCT	GGGTTTGTAAACCACAC CACA	GTTGAGTTGGCCGCAT TATT	59.2	416	INTERGENIC	--	--	--
Ca4_P3_29975043	Ca4	29975043	CTTTTTT/CTTTTTT	AATAATGCGCCAACT CAAC	CCAAGACAATCTTGG AATGC	60.0	491	INTERGENIC	--	--	--
Ca4_P3_29986497	Ca4	29986497	GTGCGAATACATGCG/GTGCG	AAAAAGGATATAAATAC CCGCAA	AAAAATCTTCTCCACAA GATGAA	58.1	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_29987350	Ca4	29987350	TTTCAA/TTTCAATTCAA	TCACCAAGCAACCAAG AAAA	CATAGGAAATGGTGGT GCCT	59.3	161	INTERGENIC	--	--	--
Ca4_P3_29987923	Ca4	29987923	GATGGTAT/GATGGTATGGTAT	GAGCAGAGCTGCCTAA TGCT	GGCGTTGTTGTAGAGT GCAA	59.9	419	INTERGENIC	--	--	--
Ca4_P3_30025836	Ca4	30025836	TAA/TAAA	GTGAACAATGACCAAG CCAA	CCTGTCTCAGACATC CAAA	59.5	383	INTERGENIC	--	--	--
Ca4_P3_30040584	Ca4	30040584	GAAAA/GAAAAAA	TAGCCGCGTTAAGTG AAGT	TGGAACAAGAGAGGGA TTGG	59.9	551	INTERGENIC	--	--	--
Ca4_P3_30044755	Ca4	30044755	TAGAGA/TAGA	GTGTGGAAAAAGACCA GGGA	CATCAACCACTTATGC ACGC	59.9	858	DRR	Ca_14181	--	S1Fa-like
Ca4_P3_30049126	Ca4	30049126	G/GAA	TGAGGGCAAACAATA TTCAA	TTTGACCAATGTGCAA TTCAA	58.3	771	INTERGENIC	--	--	--
Ca4_P3_30049460	Ca4	30049460	C/CTAGT	GAGTGGGAGAGAAATG TTTAGTGAA	TGACAAATCCCCTTTT CCAA	60.1	233	INTERGENIC	--	--	--
Ca4_P3_30053805	Ca4	30053805	ATTTTTTTTT/ATTTTTTTTTT	TTTGCGGTGTTTCTGTC TTG	CAACTAAGACGATGGC GGAT	59.9	557	INTERGENIC	--	--	--
Ca4_P3_30076786	Ca4	30076786	GTTTTTTTT/GTTTTTTTTT	GCACCTTCGCTAAAAG CATC	AAGCGCTCCCAAATAT GCTA	60.0	432	INTERGENIC	--	--	--
Ca4_P3_30077264	Ca4	30077264	ATTTTT/ATTTTTT	GCATATTTGGGAGCGC TTTA	TGGATGATTGTGACAA AATTGC	60.2	508	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 (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
Ca4_P3_30077287	Ca4	30077287	CTTTTTTTT/CTTTTTTTTT	GCATATTGGGAGCGC TTTA	TGGATGATTGTGACAA AATTGC	60.2	508	INTERGENIC	--	--	--
Ca4_P3_30081112	Ca4	30081112	CCCTT/CCCTTCCTT	CACGGGACAAATCTTT GACAT	TCGTCCAAGTTCATCA TCACA	59.8	941	INTERGENIC	--	--	--
Ca4_P3_30084699	Ca4	30084699	GTTTTTTTTT/GTTTTTTTTT	CGAAATTTTGAGCCG GAAA	AAGTTGCATTGTGGTG GTCA	60.1	277	INTERGENIC	--	--	--
Ca4_P3_30086898	Ca4	30086898	ACTTTCT/ACT	ACGCCGAAAAACACTTT CAC	TCCATTGCACTGTCCT TCAA	60.2	630	INTERGENIC	--	--	--
Ca4_P3_30091332	Ca4	30091332	GA/GAA	ACACAGTGGGGCATTT TAGC	AAAAAGGAAGAGGCAT TTTGAA	60.0	380	INTERGENIC	--	--	--
Ca4_P3_30092872	Ca4	30092872	A/AT	GATGCGACCATCTACT GCAA	TGTCAAAACAAACGAT GTGCT	59.8	347	INTERGENIC	--	--	--
Ca4_P3_30092938	Ca4	30092938	CT/CTTT	GATGCGACCATCTACT GCAA	TGATGTGTCCTAATA TTTTCCG	59.8	529	INTERGENIC	--	--	--
Ca4_P3_30093195	Ca4	30093195	AAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/AAATA ATAATAATAATAATAATAATAATA TAATAATAA	AGCACATCGTTTGT GACA	AACTGCATTCCTTTCT CCAA	59.2	656	INTERGENIC	--	--	--
Ca4_P3_30102122	Ca4	30102122	CTCTTCCAAT/CTCTTCCAATTCTCCA AT	TGATTCTTCAATTGCCA CCA	ACGAGAGACAAGTGAG GGGA	60.0	580	INTERGENIC	--	--	--
Ca4_P3_30102438	Ca4	30102438	CTT/CT	TCCCTCACTTGTCTCT CGT	GTGTTTGGGATTGGGA AATG	59.8	609	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 (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
Ca4_P3_30104588	Ca4	30104588	AATATA/AATA	TAGTATGTGGTGCCAC GGAA	TCCCTTTCATTACACA GCC	60.0	464	INTRON	Ca_14183	T	--
Ca4_P3_30111928	Ca4	30111928	CAA/C	CGAATTTGGATGGATT GTTT	TTGTAATCCCCATTG GTCA	57.4	897	INTERGENIC	--	--	--
Ca4_P3_30116632	Ca4	30116632	ATTTTTTTTT/ATTTTTTTT	GATCACGCCAGTTGT GGTA	TGTCGATTGCGAAGAG TTGT	59.6	896	INTERGENIC	--	--	--
Ca4_P3_30122125	Ca4	30122125	AA/AACATGTTA	ATGTCAATGGGCCACT TAGC	TCAAATCACCTCCAC AACA	60.0	441	INTERGENIC	--	--	--
Ca4_P3_30122538	Ca4	30122538	ATT/AT	ATGTCAATGGGCCACT TAGC	TTGTTTGTGTGCTTT GACCA	60.0	764	INTERGENIC	--	--	--
Ca4_P3_30122790	Ca4	30122790	A/AG	TGTTGTGGGAGGTGAT TTGA	ATCTTTTGGGAGGTA GCGG	59.9	741	INTERGENIC	--	--	--
Ca4_P3_30122891	Ca4	30122891	CAA/CAA	TGTTGTGGGAGGTGAT TTGA	GGGTCAAACCTCAAAG ACGA	59.9	862	INTERGENIC	--	--	--
Ca4_P3_30130046	Ca4	30130046	GTTTTTTTTT/GTTTTTTTTT	ATGGTTTGTGGTGTG GGAT	GCTTGACTGCAAAAT CGGT	60.0	463	INTERGENIC	--	--	--
Ca4_P3_30130092	Ca4	30130092	GAAAAAA/GAAAAAA	ATGGTTTGTGGTGTG GGAT	GCTTGACTGCAAAAT CGGT	60.0	463	INTERGENIC	--	--	--
Ca4_P3_30133481	Ca4	30133481	ATGTGT/ATGT	CGTCAATTGATGTCGT CACTT	TCCAGTGCCCTTCATT TCTC	60.0	559	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
Ca4_P3_30135919	Ca4	30135919	TTTGTG/TTTG	CTGATCATCGTTCCTT GGT	TTGAAGGAGGCACGTC TTTT	59.9	211	INTERGENIC	--	--	--
Ca4_P3_30138209	Ca4	30138209	CAAAAAAAAA/CAAAAAAAAA	GCATGCAACATGGCT CTAA	CAAATTGGTTGGGTC TTGG	59.8	553	INTERGENIC	--	--	--
Ca4_P3_30139366	Ca4	30139366	TGAAAA/T	GAACAAGTCAGAGGC TTGC	TGTGTGCCATTTCTG AAGA	60.0	321	INTERGENIC	--	--	--
Ca4_P3_30146206	Ca4	30146206	CTTT/CTT	TTTTTACCGCCAATGTC CTC	TGTTGTCCAACACCAA AATGA	59.9	596	INTERGENIC	--	--	--
Ca4_P3_30147920	Ca4	30147920	ATTTTTTTTT/ATTTTTTTTTTT	ATCACCACTTCTTGCA CCC	CATCTGCACGATTTTC CTTTT	59.9	536	INTRON	Ca_14185	--	--
Ca4_P3_30169936	Ca4	30169936	CAAAAAAAAAAAAA/CAAAAAAAAAA	CTAACGATTGCTTCGC CTC	TCCATGGAATACAAGT GGCA	60.0	405	INTERGENIC	--	--	--
Ca4_P3_30172265	Ca4	30172265	TC/T	CTCAACAGCCTTATGTG CGA	TGCGATGGAATAATGT GTCG	60.0	752	INTERGENIC	--	--	--
Ca4_P3_3017713	Ca4	3017713	ATTATTTAAATTTATTTAAATTTATTT TAAATTTATTTAAATTTATTTAAATTT/ ATTATTTAAATTTATTTAAATTTATTT TAAATTTATTTAAATTTATTTAAATTT ATTTTAAATT	GACAAATTAGTGGGGC AACC	TTGTATTGTTGGTGAG GCCA	59.3	902	INTERGENIC	--	--	--
Ca4_P3_30184517	Ca4	30184517	TA/T	CGAGGGGCGTAAAAAT CATA	GCGAGATTTGTTCCG TTGT	59.9	579	INTERGENIC	--	--	--
Ca4_P3_30184775	Ca4	30184775	TG/T	ACAACGGAACAAATCT CGC	GGGGGTTAGGAGTAA GAAAGGA	60.1	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
Ca4_P3_30185012	Ca4	30185012	TAAAAAAAA/TAAAAAAAA	ACAACGGAACAAATCT CGC	TTGGCACTGAGTTAGC GATG	60.1	583	INTERGENIC	--	--	--
Ca4_P3_30188259	Ca4	30188259	TAA/TA	CTCCAAAACATGGTATG CCC	CACCATCAGCAGCCTA AACA	60.2	690	INTRON	Ca_14186	--	SAP
Ca4_P3_30189123	Ca4	30189123	AAGAG/AAG	TTCGTTCTGAATTTT CGG	TGTTCCGAATGGAAGA CACA	60.0	391	INTERGENIC	--	--	--
Ca4_P3_30197839	Ca4	30197839	ATT/ATTTTTT	GCCCATGTTTAATTAGG CCC	GCAAATGACAGAGACA AAGGC	60.5	236	INTERGENIC	--	--	--
Ca4_P3_30200799	Ca4	30200799	AGGGG/AGGG	GGGTCATTGTTCTCA AACC	ATGGGGTCCTTCCAAA ATTC	59.2	908	INTERGENIC	--	--	--
Ca4_P3_30205980	Ca4	30205980	T/TGTGAG	TCCCACTGCATTGTAG GACA	AGCTCGAGGGATCAAA TCAA	60.1	537	DRR	Ca_14187	--	--
Ca4_P3_30206114	Ca4	30206114	ATTTTTT/ATTTTTT	GTGGCTCAGAAGTGCA TTGA	TTGCAAGCATCCATAT CCAA	60.0	832	DRR	Ca_14187	--	--
Ca4_P3_30206308	Ca4	30206308	ATTT/ATTTT	TTTGAAGGCAACGAAA ATGC	TTGCAAGCATCCATAT CCAA	61.1	517	DRR	Ca_14187	--	--
Ca4_P3_30206461	Ca4	30206461	TAAAAAAAAA/TAAAAAAAA	TCCCTCGAGCTATAGG ATGC	ATGCAATGGTTTATTC CCCA	59.4	643	DRR	Ca_14187	--	--
Ca4_P3_30206666	Ca4	30206666	TA/TAA	TCCCTCGAGCTATAGG ATGC	ATGCAATGGTTTATTC CCCA	59.4	643	DRR	Ca_14187	--	--

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
Ca4_P3_30207330	Ca4	30207330	GAA/GA	CCAATCACCAAACTACC GGA	GACGAAATTGTGTGCC ATTG	60.7	503	DRR	Ca_14187	--	--
Ca4_P3_30211443	Ca4	30211443	T/TA	ACATCAAACAAACAGC GCAC	CCGCTAAAATTGCCCA ATAA	59.8	714	INTERGENIC	--	--	--
Ca4_P3_30226696	Ca4	30226696	TTCTC/TTCTCTC	GCTTATGCAATGCACG AAAA	CATGGGTTGAAATGGA GACA	59.8	528	INTERGENIC	--	--	--
Ca4_P3_30226757	Ca4	30226757	GAAAAAA/GAAAAAA	GCTTATGCAATGCACG AAAA	CATGGGTTGAAATGGA GACA	59.8	528	INTERGENIC	--	--	--
Ca4_P3_30241127	Ca4	30241127	AT/ATT	ATCAGGCTCAATCGGT TGTC	GGAAAGTGAGGGAAC CAATG	60.1	262	INTERGENIC	--	--	--
Ca4_P3_30247800	Ca4	30247800	CAAAAAAAAA/CAAAAAAAAA	TTGAAGGCTTTGTGCA AGTG	TTCTCTTGGTTTGCCT GCT	60.0	388	INTERGENIC	--	--	--
Ca4_P3_3027721	Ca4	3027721	GAAAAAAAA/AAAAAAAA	TGGTAGCAACATCAG CAGC	GTTGGTCTTTTGGA AGGA	60.0	308	DRR	Ca_12100	R	NAC
Ca4_P3_30327391	Ca4	30327391	ATTTTTT/ATTTTTTT	CTCACGACTAAGGGTG GGAA	TTTTCTTCCTTGGG CTCT	60.1	497	INTERGENIC	--	--	--
Ca4_P3_30351190	Ca4	30351190	ATTTTTT/ATTTTT	CCGTGCACTCTACCA TCTA	CGAGAGGGAATGCCT ACAA	59.9	781	INTERGENIC	--	--	--
Ca4_P3_30351459	Ca4	30351459	CTTTTTT/CTTTTTTT	TCTTTGAAACACATCAC TTTCG	AAAATTGATCGGTGG TGGA	57.9	314	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
Ca4_P3_30355803	Ca4	30355803	ACATACATAACACAATCATAACA CAATCATAACATAACACAATCA/ACATAC ATAACACAATCATAACACAATCA	TGCATGACGTACGAAG CATT	GACCGTATAGCAGCTG AGCC	60.3	451	INTERGENIC	--	--	--
Ca4_P3_30371345	Ca4	30371345	GAAAAAAAA/GAAAAAAAAA	TCACGTGCTTGCAATTC TTC	TCACCGAAATTCAT TCGT	60.0	224	INTERGENIC	--	--	--
Ca4_P3_30382163	Ca4	30382163	CAAAAAAAAA/CAAAAAAAAA	TCTCCGATGATTGGTG AAAA	TTGGTATTGAAAGATT GGCT	59.0	696	INTERGENIC	--	--	--
Ca4_P3_30404870	Ca4	30404870	AATAACAT/AAT	TTAACTGTTGGTGCGC AGTC	CGTCACATTTAACACG CCAT	59.9	798	INTERGENIC	--	--	--
Ca4_P3_30408624	Ca4	30408624	TC/T	TGCCTACGTCGTGGGA TTAT	TCATCAATCCGTAA GCAA	60.4	361	INTERGENIC	--	--	--
Ca4_P3_30408872	Ca4	30408872	AA/AAAAGA	TTGCGTTACGGATTGA TGA	AGACTTTCGACCGACG CTAA	60.1	485	INTERGENIC	--	--	--
Ca4_P3_30409376	Ca4	30409376	AAAGAA/AAA	TTAGCGTCGGTCGAAA GTCT	ATGACTTTAGCGTCGG ATGG	60.0	441	INTERGENIC	--	--	--
Ca4_P3_30419460	Ca4	30419460	GGAAAGGG/GGAAAGGGAGAGATGA AAGGG	TGAGGTCAGCACATTC TTGC	TTTTAGCCCCCTCAC ACAT	60.0	272	DRR	Ca_14197	--	--
Ca4_P3_30421939	Ca4	30421939	AC/ACACC	TTTAACCCTTTGACTTC AAGGAA	TGGAATGTCACCTGGC AGAA	59.2	883	INTERGENIC	--	--	--
Ca4_P3_30462755	Ca4	30462755	GGAA/G	GAATTTTATTGCGATT CATGG	TCGGCTAAATTACATT CGTGG	58.5	513	DRR	Ca_14198	--	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 (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
Ca4_P3_30465071	Ca4	30465071	TAAA/TAA	CAAGCAAATTTGTGAG CACC	TCAAGCGACTCAAATC GTGA	59.3	399	INTERGENIC	--	--	--
Ca4_P3_30482085	Ca4	30482085	TGAA/TGAAGTTTAGAA	TTTGGAACAGAGGTTTT GCC	GGGTATGGGGACCAAT TTTT	60.1	720	DRR	Ca_14201	--	SBP
Ca4_P3_30502836	Ca4	30502836	ATTTTTTTT/ATTTTTTTT	AATGTAGCATGTGCGT AGCG	CAATTCATTGATTGTG TTGCAT	59.9	303	INTERGENIC	--	--	--
Ca4_P3_30504576	Ca4	30504576	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	TGACACATCAACAATCC AACAA	GTTGCCTGACAACATC ATGC	59.9	604	INTERGENIC	--	--	--
Ca4_P3_30523182	Ca4	30523182	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	TCCTCTCTACACCCACC CTG	AGCCGATTGTCTTCTG GATG	60.1	535	INTERGENIC	--	--	--
Ca4_P3_30528133	Ca4	30528133	ATTTTTTTTTT/ATTTTTTTTTT	TTTTCTCTCGAATTGTG TGA	ACGCATCGTACTCTTT GCAC	59.1	429	INTERGENIC	--	--	--
Ca4_P3_30535730	Ca4	30535730	GACCAAGATA/G	CCATTGAGAATTAGAAA ATCACCA	CCAAATTTCCCAAGGG TTCT	59.4	582	INTERGENIC	--	--	--
Ca4_P3_30535832	Ca4	30535832	TATAAATAAATAAATAA/TATAAATAA TAAATAAATAAATAAATAA	CCATTGAGAATTAGAAA ATCACCA	CCAAATTTCCCAAGGG TTCT	59.4	582	INTERGENIC	--	--	--
Ca4_P3_30536932	Ca4	30536932	GTTTTTTTTT/GTTTTTTTTT	ATCATTGAACGACCG AAAC	CGGATACAATGGCAAT CAAA	59.8	431	INTRON	Ca_14204	--	NAC
Ca4_P3_30537523	Ca4	30537523	CA/CATA	TTTGATTGCCATTGTAT CCG	CAAAATGGAAATGCAA GAACAA	59.4	803	INTRON	Ca_14204	--	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_30538166	Ca4	30538166	AAAGAAG/AAAGAAGAAG	TTGTTCTTGCAATTCCA TTTGT	CGCCATCTTCCTCTTC TTTG	60.0	380	CDS (large-effect mutations)	Ca_14204	--	NAC
Ca4_P3_30539573	Ca4	30539573	A/AATTG	CCGTGTAGCCAATTCA CCT	TACTCCAGGTTCTGCC CTTG	60.0	517	DRR	Ca_14204	--	NAC
Ca4_P3_30540068	Ca4	30540068	ATTTTTTT/ATTTTTTTT	GATTTATCGTCGCTCTT GCC	CAACTGGATCTGCCAC GTTA	59.8	268	DRR	Ca_14204	--	NAC
Ca4_P3_30542137	Ca4	30542137	TAAAAAA/TAAAAAAA	TAAGGCATGATAAGGC CGAC	GTCTGTACCCCGTGA TGAG	60.1	299	DRR	Ca_14205	--	--
Ca4_P3_30542725	Ca4	30542725	AT/A	ACTCATCACGGGTGAC ATGA	CCGAGTATGATGGTTG GCTT	60.0	767	DRR	Ca_14205	--	--
Ca4_P3_30542760	Ca4	30542760	AT/A	TGCCCAAGCTCAATTAA TCC	CCGAGTATGATGGTTG GCTT	60.0	362	DRR	Ca_14205	--	--
Ca4_P3_3055139	Ca4	3055139	CGG/CG	CAACGGCTACCACATG TCAG	CTAGCTTGCTTGCATG GTGA	60.2	481	INTERGENIC	--	--	--
Ca4_P3_30551565	Ca4	30551565	TAAAAAAAAAAAA/TAAAAAAAAA	CCACCGTTTCTAACACC ATTG	TGATATGGCAATCCCT GACA	60.3	813	INTERGENIC	--	--	--
Ca4_P3_30551689	Ca4	30551689	ATTT/ATTTT	CGGAAATGGACTTTAC GAATG	TGATATGGCAATCCCT GACA	59.5	548	INTERGENIC	--	--	--
Ca4_P3_30551948	Ca4	30551948	ATTTTT/ATTTT	TGTCAGGGATTGCCAT ATCA	CAACCAAAACATTCTG GGTG	59.9	480	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 (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
Ca4_P3_30551971	Ca4	30551971	GAAAAAAAA/GAAAAAAAAA	TGTCAGGGATTGCCAT ATCA	CAACCAAAACATTCTG GGTG	59.9	480	INTERGENIC	--	--	--
Ca4_P3_30558234	Ca4	30558234	GTTTTTTT/GTTTTTTT	GCGAAATCTAGGGGCA ACTT	TTGATAGATGCCAAA GGGG	60.6	725	INTERGENIC	--	--	--
Ca4_P3_30561689	Ca4	30561689	TAAAA/TAAAA	GGAGGCACCATACTT TCCA	AGAATGGCCACTTCAA GTCAA	59.9	198	INTERGENIC	--	--	--
Ca4_P3_30573766	Ca4	30573766	T/TC	CATTATGATCACAGAC ATGGTG	TCCTCTCGATCAAGC ATCC	60.3	259	DRR	Ca_14206	A	--
Ca4_P3_30583372	Ca4	30583372	AT/ATTATTGATAAATTTGT	AAAATGGGAGGCATG AACG	ACGCTCGTCAATTTCA AAAA	59.8	541	INTERGENIC	--	--	--
Ca4_P3_30583911	Ca4	30583911	GAAAAA/GAAAAAA	CCATTTTGGAAATTGAC GAGC	GCAATTGAGGTCACT CAACC	59.6	300	INTERGENIC	--	--	--
Ca4_P3_30595068	Ca4	30595068	GAAAAAAAA/GAAAAAAAAA	ATCTCACAGTGTGCGT CTGC	CCGTCAAGTGGATCAG TGAA	60.1	305	INTERGENIC	--	--	--
Ca4_P3_30595283	Ca4	30595283	CTGTGTGT/CTGTGT	ACGTGAATCTCGTCTT GCT	CAAAATTGTGGTTGCA CTCG	60.0	520	INTRON	Ca_14207	--	bHLH
Ca4_P3_30601684	Ca4	30601684	ACCTCCC/ACC	GGCAATAGAGAAAAAG GGGG	TTTCTACTTGTGTGTG GCCG	59.9	702	DRR	Ca_14207	--	bHLH
Ca4_P3_30604376	Ca4	30604376	CT/CTT	AATGCCCCACTTTTAAT CCC	CGGAGGCTACCGATAC CATA	60.0	185	INTRON	Ca_14208	T	--

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
Ca4_P3_30606887	Ca4	30606887	TAAAAAAAAA/TAAAAAAAAA	GCAATTTACGACGAC TCAA	ATGTGCAGTTTTGGC ACTG	60.0	294	INTERGENIC	--	--	--
Ca4_P3_30608454	Ca4	30608454	AC/A	TTGCCTCACGTGAAGA ATGA	CATTATGATGTTTGGC ACGC	60.4	631	INTERGENIC	--	--	--
Ca4_P3_30621604	Ca4	30621604	ATTTTTTTTT/ATTTTTTTTT	TGGGCTTCAATTTAGTC CTTG	CTGATGACAAAAGGGG GAGA	59.2	516	INTERGENIC	--	--	--
Ca4_P3_30646682	Ca4	30646682	AT/ATTCGT	GTGGCGAACCAAGGATA CATT	CTTGGCGCTCCTTTAA GTTG	59.8	260	INTERGENIC	--	--	--
Ca4_P3_30653740	Ca4	30653740	AC/ACC	TGCCCATTTGATGCTAAA CAA	GAATGATGTCGCGGTA GGAT	60.1	513	INTERGENIC	--	--	--
Ca4_P3_30655579	Ca4	30655579	TAAAAAAAAA/TAAAAAAAAA	TTTTCTGGCCTAGCTCC TTG	TGCTCAAAGCATGTTG TTTCT	59.6	488	INTERGENIC	--	--	--
Ca4_P3_30686877	Ca4	30686877	CTTTTTTTTT/CTTTTTTTTT	TTTGATCTTGAGTCCTC GGG	TGGGAAATTCAGAAAA CAACG	60.2	714	INTERGENIC	--	--	--
Ca4_P3_30687261	Ca4	30687261	TA/TATCA	TCATCATTCATAGCTTG GGCT	AAATTTCCCAAGCAAAA GGG	59.7	393	INTERGENIC	--	--	--
Ca4_P3_30691980	Ca4	30691980	AAACTTAACCTTAA/AAACTTAA	CACAATGCAGTCCATTA CGG	AACTCAACGGGGGTTA GGAG	60.0	577	INTERGENIC	--	--	--
Ca4_P3_30702309	Ca4	30702309	CAAAAAAAAA/CAAAAAAAAA	GATAACATCGTGCACTT GCG	GGGATAAATGGGCACA CATC	60.3	189	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
Ca4_P3_30752597	Ca4	30752597	TAAAAAA/TAAAAAAA	CGAGACACACATTTTC ACCA	GAGACACCCTTGTGCG TTTT	59.6	874	INTERGENIC	--	--	--
Ca4_P3_30753677	Ca4	30753677	ATTTTTTT/ATTTTTTT	TTGAATGACAAACATTG AACTACAGA	TGGGAATTTATTTCGC GAGT	60.0	347	INTERGENIC	--	--	--
Ca4_P3_30764018	Ca4	30764018	TTAATAATAATAATAATAATA/TTAA TAATAATAATAATAATAATAATA	TTGAGATCAGAGGGTG CAAA	TTGCAGGGATGTTGT CAAA	59.4	179	INTERGENIC	--	--	--
Ca4_P3_30772711	Ca4	30772711	CTTTTT/CTTTTT	TCAACGACGATCTTGT CAAA	GGCTTCAATTGGGACT CAAA	59.3	732	INTERGENIC	--	--	--
Ca4_P3_30772757	Ca4	30772757	ATTTTTTTTT/ATTTTTTTTT	TCGTACTTTGTTTGAT TGCG	GCACCTATGAACCGTC CAAT	58.9	907	INTERGENIC	--	--	--
Ca4_P3_30772971	Ca4	30772971	CAAAAAAAAA/CAAAAAAAAA	TTTGAGTCCCAATTGAA GCC	GCACCTATGAACCGTC CAAT	60.1	321	INTERGENIC	--	--	--
Ca4_P3_30773714	Ca4	30773714	CTTTTTTTTT/CTTTTTTTTT	ATCCGATTGGACGGTT CATA	GCAAATCAATTTATGC TGGAA	60.2	855	INTERGENIC	--	--	--
Ca4_P3_30774640	Ca4	30774640	TAAAAAAAAA/TAAAAAAAAA	CGAATCTGTAGCCGAA AAGC	TTGGGCTTATGTTACG AGTTCA	60.0	249	INTERGENIC	--	--	--
Ca4_P3_30774863	Ca4	30774863	T/A/T	CGAATCTGTAGCCGAA AAGC	GGAAAGACCCGAATA ATGA	60.0	770	INTERGENIC	--	--	--
Ca4_P3_30775212	Ca4	30775212	CTTTTTTTTT/CTTTTTTTTT	TGAACTCGTAACATAAG CCCA	TGGGAATGCTTCTTA TGGG	59.6	931	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
Ca4_P3_30776003	Ca4	30776003	GTATATATATATATATAT/GTATATAT ATATATATATATATATATATAT	AGAAAGCATTCCCAAG AGGC	AATGTTTTGGGTCTC CTCC	60.7	747	INTERGENIC	--	--	--
Ca4_P3_30801791	Ca4	30801791	ACTC/ACTCTC	GGAATCCCTACATGCC TTTG	ATTACATGCCATAGTG GGGG	59.4	404	INTERGENIC	--	--	--
Ca4_P3_30824879	Ca4	30824879	AT/A	ACCGAGTGTCGAACTC AAGG	ACCAGCAACCATAAAA ACGC	60.3	823	INTERGENIC	--	--	--
Ca4_P3_30868287	Ca4	30868287	TAAAAA/TAAAAAA	CAAAGAATCGTGAAG AGCA	CGATAGTGCCATGTTT GCAT	60.1	730	INTERGENIC	--	--	--
Ca4_P3_30883366	Ca4	30883366	ACTCT/ACT	TTGAAGCATGCATTTGA AGC	TGTGCTTTCTCTCTG GCCT	60.0	897	INTERGENIC	--	--	--
Ca4_P3_30883608	Ca4	30883608	GAAA/GAA	TGAAATTCATTACGCT CCA	TGTGCTTTCTCTCTG GCCT	60.2	495	INTERGENIC	--	--	--
Ca4_P3_30928717	Ca4	30928717	TAAAAAA/TAAAAAA	CAATGTCCATGTCGAC CAA	TCTGTCGCACCATCTC AGTC	60.4	949	INTERGENIC	--	--	--
Ca4_P3_30946923	Ca4	30946923	AG/A	CAACCAGACAGTCAGC CTCA	TTGCAACACAAGGTGA GAGG	60.0	963	DRR	Ca_14215	--	ERF
Ca4_P3_30952582	Ca4	30952582	CTTT/CTTTT	GGGTCCAACAATCTCC CTCT	GCCATTGCTTAACCA AAAA	60.3	499	INTERGENIC	--	--	--
Ca4_P3_30953391	Ca4	30953391	GCACATACATACATACAC/GCAC ATACACATACAC	TTTTTGGTTAGGCAAT GGC	TGACTACACCAATGCA CCCT	59.9	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 (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
Ca4_P3_30955630	Ca4	30955630	TAAAAAAAA/TAAAAAAAA	CAAAGCCATGTTTCTT CCA	TGAGCAAATGAGGCAA AATG	58.7	579	INTERGENIC	--	--	--
Ca4_P3_30959148	Ca4	30959148	TAAATAAAAAAAAAATAAAAA/TAAATAA AAAA	TGTTTTGAAAGATTAT GATGGGA	CACCTCAGGCACAATA AATCG	59.7	464	INTERGENIC	--	--	--
Ca4_P3_30959450	Ca4	30959450	CAAAAAAAAA/CAAAAAAAAA	TGTTTTGAAAGATTAT GATGGGA	TTGAACCGTTGGTGT TTTT	59.7	848	INTERGENIC	--	--	--
Ca4_P3_30968151	Ca4	30968151	CTTTTTTT/CTTTTTTT	CACATCCCTTGCCATT CTT	CCCGCATTTGTAACCA TCTT	59.9	827	INTERGENIC	--	--	--
Ca4_P3_31002155	Ca4	31002155	GAGACA/GAGACAGACA	GCTGTTGAAAGATGCA ACCA	TGACAAGCAAGTGATC GTCTG	59.8	607	INTERGENIC	--	--	--
Ca4_P3_31016630	Ca4	31016630	AAAAGTTTCTAAA/AAAAGTTTCTAAAG TTTCTAAA	CTTGCGTGAGTTTGG TTCA	TGAAAAGAGGAAGAAA GAGGAAGA	59.9	978	INTERGENIC	--	--	--
Ca4_P3_31024618	Ca4	31024618	TAAAAAAAA/TAAAAAAA	CGTCCTTGAAATCGTTT GGT	GCTCCCTTAACCAAAA TCCC	60.0	724	INTERGENIC	--	--	--
Ca4_P3_31051791	Ca4	31051791	TG/T	AAACAAATGCACCTTT GGAA	TTGATTTCGTTTCCTC GGAC	59.5	872	INTERGENIC	--	--	--
Ca4_P3_31101573	Ca4	31101573	TGTCATTCCC/T	AATCGGACAAGAAACC GATCT	AGTTGTGACCCTCCGA TACG	60.0	260	INTERGENIC	--	--	--
Ca4_P3_31104781	Ca4	31104781	TG/T	ACTGACGCTTTGTCAT GTCTG	GTGCTTGGGGTTTTGT CTGT	59.9	610	INTRON	Ca_14221	U	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_31107506	Ca4	31107506	CAGTTAGTTAGTT/CAGTTAGTT	GTGCACCATAGAATTG GCCT	GGGACTGAATCCGACT TGAA	60.0	668	INTERGENIC	--	--	--
Ca4_P3_31118703	Ca4	31118703	GA/G	CAGGCAATTTGTTTGAC CCT	TTGGATGCTACTAGTG GGGG	60.0	634	INTERGENIC	--	--	--
Ca4_P3_31140324	Ca4	31140324	TAAAA/TAAAAA	ACTTCCATTCGCTTCAG CAT	AAATGATTCTGGTGGG GACA	59.8	536	INTRON	Ca_14223	--	bHLH
Ca4_P3_31151009	Ca4	31151009	TAAAAAAAA/TAAAAAAAAA	GTATTGTTTGTTCGG CCC	CCATGGTTCATACG ACCC	59.3	565	INTERGENIC	--	--	--
Ca4_P3_31172943	Ca4	31172943	TA/T	TCGCCTAAGGTAAGGG CTTT	TTACCAATTCCCCC AAGA	60.2	421	INTERGENIC	--	--	--
Ca4_P3_31192815	Ca4	31192815	TGG/TG	TTGAAGGAGAAGCCAG AGTCA	TGAGGCATGCAGAAAC GTAG	60.1	238	INTERGENIC	--	--	--
Ca4_P3_31200114	Ca4	31200114	TA/TAGACCA	TTGTCTTAGGCAGCAC TGGA	TGGTGAACGAAAGTGA CGTG	59.6	903	INTERGENIC	--	--	--
Ca4_P3_31222344	Ca4	31222344	ATTTTTTTTT/ATTTTTTTTTTT	TTGAACGCTACATTCAC GTTG	TTGAAAATCCCAAATT GCC	59.8	748	INTERGENIC	--	--	--
Ca4_P3_31222775	Ca4	31222775	CAAAAA/CAAAAAAA	GAGGGCAATTTGGGAT TTTC	TGACAAGTTTATGTGT GGGGG	60.6	523	INTERGENIC	--	--	--
Ca4_P3_31226486	Ca4	31226486	GTTGGTGTTCATATCCAT/GT	TTCCCAATGGTGGACT GTCT	CTGTAGGGCCACCTCC AATA	60.4	458	INTRON	Ca_14227	C	--

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 (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
Ca4_P3_31228892	Ca4	31228892	TAAAAA/TAAAAAA	GAAGCCAAGTGATTGA AGGTG	CAGTGCACGGAAGGA CATA	59.7	870	DRR	Ca_14227	C	--
Ca4_P3_31230420	Ca4	31230420	TTCTCTCTCTCT/TTCTCTCTCT	CTTTCCATCTCACTCCC TCG	TAGCCGACAGGGTCTC AGTT	59.8	435	INTERGENIC	--	--	--
Ca4_P3_31248634	Ca4	31248634	ACC/AC	TGGGTCATTTCATTA TGTCG	TGCTATGCCTTTTGAT CGC	59.8	645	DRR	Ca_14228	--	Trihelix
Ca4_P3_31254902	Ca4	31254902	TAAAAAAAAA/TAAAAAAAAA	CCCTCTTCTCTGTTTG GTTTG	GGAACTGCTCTGGTA AGCG	60.1	338	DRR	Ca_14229	R	bHLH
Ca4_P3_31255343	Ca4	31255343	GAAAA/GAAAA	CGCTTACCAGAGCAGT TTCC	GAGAGAAGTGCTTTG CGGG	60.0	681	DRR	Ca_14229	R	bHLH
Ca4_P3_31258911	Ca4	31258911	GTT/GT	CAGGTCGTGCCAATTC TTTT	GGCTAGGATTGCAAC AGGT	60.1	264	INTERGENIC	--	--	--
Ca4_P3_31261697	Ca4	31261697	AGAAAC/AGAACTATATGAAAC	GAGCGAGCGCTAGTAA ATGC	TCGTCTCCTCTCATTT GTGAAA	60.3	617	DRR	Ca_14230	R	MYB_related
Ca4_P3_31261725	Ca4	31261725	T/TC	TTGAAATTGGAAGATGC GTG	TCGTCTCCTCTCATTT GTGAAA	59.7	560	DRR	Ca_14230	R	MYB_related
Ca4_P3_3126592	Ca4	3126592	TAAAAAAAAA/TAAAAAAAAA	AGGCAACATTTAAACG CCT	TCTCAACCGCCTCTCT CTTG	58.8	402	INTERGENIC	--	--	--
Ca4_P3_31268906	Ca4	31268906	TAA/TA	TCCAATCTATCTCGCAC TCG	GAAACCCAAACACG GAAA	59.0	491	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 (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
Ca4_P3_31275708	Ca4	31275708	ATT/ATTT	AACCACAAAACGTGCA ACTTC	TTGTGCGTTGTTGGTA TTTTG	60.1	533	INTERGENIC	--	--	--
Ca4_P3_31276483	Ca4	31276483	AAATA/AA	CACGTCGAATATCAACA AAACTT	TTCTCACAACCATACAA CCATGT	58.2	415	INTERGENIC	--	--	--
Ca4_P3_31278515	Ca4	31278515	T/TA	CTCTCGCCATTACAAA CAC	TAGGAAGTTGGACAGG TGCC	59.3	773	INTERGENIC	--	--	--
Ca4_P3_31281553	Ca4	31281553	CAA/CA	TAGTACCTGTACCCGC ACCC	ACAAAACGCCAATGAC ACAA	59.9	471	INTERGENIC	--	--	--
Ca4_P3_31290902	Ca4	31290902	GAAAAAAAA/GAAAAAAAAA	TCTGCAGTCATGAA CCAA	TTCATCCCAAGCAGGA AAAC	60.2	847	INTERGENIC	--	--	--
Ca4_P3_31291385	Ca4	31291385	A/ATTT	GTTTTCTGCTTGGGA TGAA	ACTCCGACAATGGAAC AAGG	60.1	339	INTERGENIC	--	--	--
Ca4_P3_31303190	Ca4	31303190	CTTTTTTTTT/CTTTTTTTTT	GAGGTCCCGTCCAACC TAAC	TCAGCACCGAGAGTGT CAAC	60.7	488	INTRON	Ca_14231	--	bHLH
Ca4_P3_31307742	Ca4	31307742	CAAAAA/CAAAA	GGTCGCGTAGACCTTC AGAG	AAGCATTGATCGTCT GGCT	60.0	166	INTERGENIC	--	--	--
Ca4_P3_31316566	Ca4	31316566	GAAA/GAA	CATTGTTTTGCTGTTGT GGG	CCTCACGAGCTGCTTT AACC	60.0	664	INTERGENIC	--	--	--
Ca4_P3_31319642	Ca4	31319642	GAA/GAAAA	CTTTGAGCACAAACAA GGCA	TCATCCGTGCAAAGTA TCCA	60.0	422	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
Ca4_P3_31348460	Ca4	31348460	TAAAAAAAAA/TAAAAAAAAA	GTCACCTTTTGGCGAT GTCT	AAACGCAACCTTTGAT AATCG	60.1	700	INTERGENIC	--	--	--
Ca4_P3_31349174	Ca4	31349174	TAAAAAAAAA/TAAAAAAAAA	TCGATTATCAAAGTTG CGTT	TCCAACCTACAATCCTTC CGC	59.6	779	INTERGENIC	--	--	--
Ca4_P3_31387262	Ca4	31387262	CTTTTT/CTTTTT	CGAAACCGTAACCTA CGAA	GCCACTTACAGCGTT TTTC	60.0	580	INTERGENIC	--	--	--
Ca4_P3_31445256	Ca4	31445256	ATT/ATT	AGATCTATGCATCGGC AACC	AGGGTACTACAGCTGC CCCT	60.1	338	INTERGENIC	--	--	--
Ca4_P3_31463046	Ca4	31463046	AAGTAGTAGT/AAGTAGT	TAAACGTGCGGAACG AAAT	GCTAACTGATGCAAG AGCC	60.5	716	INTERGENIC	--	--	--
Ca4_P3_31509721	Ca4	31509721	CATATATATATATATATAT/CATAT ATATATATATATAT	TGTTCACTAGCACCGTA GCG	TTATGGAGCCCCGATT AAAA	60.1	570	INTERGENIC	--	--	--
Ca4_P3_31523716	Ca4	31523716	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA/AAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAA	GAAACTCTCACAAGGG TGGC	TGGCTTTAGGAACCGT GTTT	59.7	832	INTERGENIC	--	--	--
Ca4_P3_31527261	Ca4	31527261	GTTTTTTTTTTT/GTTTTTTTTTTT	TGCACATCATCTGCGTT TTT	TCAGCCTTTGCACACA TGAT	60.3	189	INTERGENIC	--	--	--
Ca4_P3_31530944	Ca4	31530944	ATCTCTCTCTCTCTCTC/ATCTCTCT CTCTCTCTC	AAAGGAGGCTGGAAGG TCAT	TGCAGTGATGATGTTG TTCA	60.1	207	INTERGENIC	--	--	--
Ca4_P3_31534512	Ca4	31534512	TCCCC/TCCCC	CAAGCCAACGTGTGTT TGTT	GCAGGGATGTGAACCA AATAA	59.7	746	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
Ca4_P3_31560244	Ca4	31560244	TAT/TATGACTTATTAATAGTAAT	CGCTTGCGGAATACAGGTT	TTCCAAATCATGCGTTGAA	60.0	315	INTERGENIC	--	--	--
Ca4_P3_31562617	Ca4	31562617	CAA/C	ACTTTTGCAAGCACAAATCG	CGTTGTTAACAGAGCAGCGA	59.0	646	INTERGENIC	--	--	--
Ca4_P3_31565109	Ca4	31565109	CAGAGA/CAGA	TTGAATAGGGTTGCCTGGAG	GATGGACTGCATGGAGGTT	60.1	844	INTRON	Ca_15438	--	--
Ca4_P3_31566588	Ca4	31566588	GGAAAGAGA/GGAAAGAGAAAGAGA	GCAAAGAAAACATGCGATGA	TGATGTTTTATGTCGCGCAA	59.8	317	DRR	Ca_15438	--	--
Ca4_P3_31570022	Ca4	31570022	TGGGGGG/TGGGGGGG	TATTTTGATTTTGCTCGG	AGGAAGAGTGGAGTTCGAA	59.9	505	INTERGENIC	--	--	--
Ca4_P3_31611840	Ca4	31611840	GTTTTTTTTT/GTTTTTTTTTTT	CGTTTTCAGCTGAGCAATTC	TTGATCCATTGGGATTGTGA	60.0	392	INTERGENIC	--	--	--
Ca4_P3_31611867	Ca4	31611867	AAT/AATAT	CGTTTTCAGCTGAGCAATTC	TTGATCCATTGGGATTGTGA	60.0	392	INTERGENIC	--	--	--
Ca4_P3_31617249	Ca4	31617249	TAAAAAAAAA/TAAAAAAAAA	CACGTTTATCGTGAGGCAAA	CTATGCAACATGTCACACGC	59.7	597	INTERGENIC	--	--	--
Ca4_P3_31619550	Ca4	31619550	CTTATATTA/CTTA	TTGATTTGCCCTCCTCAT	TAATCTTGATTCCCAACCA	59.6	576	INTERGENIC	--	--	--
Ca4_P3_31619831	Ca4	31619831	CA/CAA	TATGAATTGGGTGGGAATC	TCACGAGCCACAAAGTAAAAA	59.4	285	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 (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
Ca4_P3_31620795	Ca4	31620795	TT/TTAAT	TGAACGTGGCTTATTTG TCG	GATCGCATACAACAAC CGTG	59.7	352	INTERGENIC	--	--	--
Ca4_P3_31620834	Ca4	31620834	AAAAAGAAAAGAAAAGAAA/AAAAAGAA AAGAAA	TGAACGTGGCTTATTTG TCG	GATCGCATACAACAAC CGTG	59.7	352	INTERGENIC	--	--	--
Ca4_P3_31625976	Ca4	31625976	ATTTTTTTTT/ATTTTTTTTTT	TGATTCCAACAATCATC CCC	CTACGACACGACTTCT GCCA	60.5	546	INTERGENIC	--	--	--
Ca4_P3_31626384	Ca4	31626384	ATG/ATGAAGTG	TGATTCCAACAATCATC CCC	TGGCTGCAGTTCTCAA CATC	60.5	624	INTERGENIC	--	--	--
Ca4_P3_31626899	Ca4	31626899	GTTTTTTTTT/GTTTTTTTTTT	GATGTTGAGAACTGCA GCCA	AACCCCCAGGTTTTGA AAGT	60.0	862	INTERGENIC	--	--	--
Ca4_P3_31626932	Ca4	31626932	ATTTTT/ATTTTT	GATGTTGAGAACTGCA GCCA	AACCCCCAGGTTTTGA AAGT	60.0	862	INTERGENIC	--	--	--
Ca4_P3_31630531	Ca4	31630531	AGG/AG	AGTTGAAGGTGCAAAC ACGA	AATTTACTTGAGGGT CGGG	59.3	288	INTERGENIC	--	--	--
Ca4_P3_31636819	Ca4	31636819	CAA/CAAA	TCTCAACATCTCGTAGC GCA	TTCATGATTCATTGGG TCATCT	60.7	771	INTERGENIC	--	--	--
Ca4_P3_31636858	Ca4	31636858	ATTTTT/ATTTTT	TGGTGATTAGATTTCG GCAA	TTCATGATTCATTGGG TCATCT	59.1	467	INTERGENIC	--	--	--
Ca4_P3_31641182	Ca4	31641182	CAAAAA/CAAAAAA	TTGTGATCGATCGAATC CTCT	GCTTCCTTCCATTCGG GTAT	59.6	423	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
Ca4_P3_31644451	Ca4	31644451	T/A/T	AATGTCGGGAGTTTTC ATCG	GCCATCTTAGGCTTTC CCTT	59.9	953	INTRON	Ca_15442	U	EIL
Ca4_P3_31649942	Ca4	31649942	CT/CTT	CGTGCCCTGCAGGTAT TTAT	ATTGACCGGTGGAAGA CATT	60.0	454	INTRON	Ca_15442	U	EIL
Ca4_P3_31649993	Ca4	31649993	GAAAA/GAAAA	CGTGCCCTGCAGGTAT TTAT	ATTGACCGGTGGAAGA CATT	60.0	454	INTRON	Ca_15442	U	EIL
Ca4_P3_31652021	Ca4	31652021	CTGTTGTT/CTGTT	CCATTACCCTTTCGTGA TGC	TGTCGCTTATGTTTGA GAACAA	60.3	442	DRR	Ca_15442	U	EIL
Ca4_P3_31652107	Ca4	31652107	TAAAA/TAAA	CCATTACCCTTTCGTGA TGC	TGAAAGCAAAGCCACG TATG	60.3	796	DRR	Ca_15442	U	EIL
Ca4_P3_31667051	Ca4	31667051	GAAAA/GAAA	TGAGCTTGATTCCCAA TTC	CAAGGGAAACCATTGG AAGA	60.0	646	INTERGENIC	--	--	--
Ca4_P3_31667470	Ca4	31667470	CTTT/CTT	TGATCTTCCAATGGTTT CCC	TTGGACAAAGCTCACA GCAC	59.7	197	INTERGENIC	--	--	--
Ca4_P3_31669067	Ca4	31669067	ATTTTTTT/ATTTTTTTT	ACTGAGCCTCACCAA AGAA	CCTTTGACTCACCCGT TAGC	59.8	641	INTERGENIC	--	--	--
Ca4_P3_31679449	Ca4	31679449	T/A/T	AATTTTCCACAACAACC GGA	TGCTCCATTCTCTTC CGTG	60.2	154	INTERGENIC	--	--	--
Ca4_P3_31712621	Ca4	31712621	CTATATATATATATATATATA/CTATA TATATATATATATATATATATATATA	TTTTTCAAAAAATCCAA AGGG	CAAAATGGACAAAATT GGGG	59.0	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
Ca4_P3_3174653	Ca4	3174653	A/ATATT	AATCAACGGTGGGAT ACAA	CGGACCTAAAAGCTTA TTTCACA	60.1	568	INTERGENIC	--	--	--
Ca4_P3_31759099	Ca4	31759099	CTTTTTTTTT/CTTTTTTTTT	TCTCCCACCATCCACT TAG	CTCCACCTCCCCTAT TCAT	59.9	847	INTRON	Ca_15447	R	bZIP
Ca4_P3_31772554	Ca4	31772554	AC/A	TTATCCTCGCCAATGAC CTC	ATTCCACCAACAATAT GGGC	60.0	561	INTERGENIC	--	--	--
Ca4_P3_31806633	Ca4	31806633	ATGTGACTAATTTT/ATGTGACTAATTT TGTGACTAATTTT	ACAAAAGCCTGGATAG CGAA	TCACATATACCCTTAAA ATCGCA	59.8	410	INTERGENIC	--	--	--
Ca4_P3_31810307	Ca4	31810307	ATAAAGTAAAGTA/ATAAAGTA	CAGATCCAGTGGTGCA GAAA	CCTCAAAGAGCTTGG GCTA	59.8	916	INTERGENIC	--	--	--
Ca4_P3_31822803	Ca4	31822803	ATTTTTTT/ATTTTTTTT	CACAGATTTCTCGAGG CACA	TCTAAGCTCATGTCC CGCT	60.0	841	INTERGENIC	--	--	--
Ca4_P3_31859170	Ca4	31859170	GATAATA/GATA	CCTCGATGGATAAGGG TGAA	AAAATTGTCGACCAAT CACTTG	59.9	418	INTERGENIC	--	--	--
Ca4_P3_31859597	Ca4	31859597	TAAAAAAAA/TAAAAAAAAA	GTTGGAGCCCCACTT TATT	TGCAAGCAGCATCAGA GAAC	60.2	793	INTERGENIC	--	--	--
Ca4_P3_31868533	Ca4	31868533	AGTGAGGTGAGG/AGTGAGG	CTAAGCCATTGGGCA TTGT	TGTCATCTATAAAGC CCCACA	60.0	155	INTERGENIC	--	--	--
Ca4_P3_31871158	Ca4	31871158	AACACACA/AACACACACA	AAGGTGTGTTGCTAAT CGGT	AAAAGGAATTTCTCAA TTGATGG	57.2	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_31885190	Ca4	31885190	CTATTTATTTATTTAT/CTATTTATTTAT TTATTTAT	GGGTCCCTTATGTGAT GCAG	CCCAATCCCAATCAA TCAC	60.3	352	INTERGENIC	--	--	--
Ca4_P3_31894163	Ca4	31894163	AAGAGAGA/AAGAGAGAGA	CCCCACCAACCAATC ATAG	AAACCCCGCATATCTT TTCC	60.0	928	INTERGENIC	--	--	--
Ca4_P3_31894568	Ca4	31894568	ATTTTTTTTT/ATTTTTTTTT	TTTGCTCGCACAACT AGG	GAAGGCCCTCAAAATC ATCA	60.1	645	INTERGENIC	--	--	--
Ca4_P3_31910459	Ca4	31910459	ATTTTTTTTT/ATTTTTTTTT	TCCATGACTTATTTGTT GTGGC	CTCAAATCTGTTTGG GGGA	59.9	315	INTERGENIC	--	--	--
Ca4_P3_31929869	Ca4	31929869	TAATAAATAAATAAATAA/TAATAAATA AATAAA	CCATGCTTTCAAAAATG CCT	TTTGAAGACTTTTGG GCTC	60.1	961	INTERGENIC	--	--	--
Ca4_P3_31934155	Ca4	31934155	ATTTTTTTTT/ATTTTTTTTT	ACAGTTTTACCTCCCAC CCC	GTCTTTTCTTCCCCTTT CCG	60.1	835	INTERGENIC	--	--	--
Ca4_P3_31934186	Ca4	31934186	TATTATTATTATTATT/TATTATTATTATT ATTATT	ACACTCTTTTCTCACCC CCA	GTCTTTTCTTCCCCTTT CCG	59.5	750	INTERGENIC	--	--	--
Ca4_P3_31938648	Ca4	31938648	TTA/T	AATGCTCTACAGGAGC TGGC	GAGGAGGTCCAGGAT GATGA	59.6	782	INTRON	Ca_15455	--	Dof
Ca4_P3_31950817	Ca4	31950817	ATTTTTTTTT/ATTTTTTTTT	GAGCAACAGTCAGTGG CGTA	CAACGCGAGCAAAATA TCAA	60.1	742	INTERGENIC	--	--	--
Ca4_P3_31962932	Ca4	31962932	T/TA	TGTGGAAAAGGAACAT GCAA	GATGTCACCACATCAC TGCC	60.1	444	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
Ca4_P3_31965959	Ca4	31965959	TAAAAAA/TAAAAAAA	TTCATTGCAAGTTCGGT GAG	TTCAAGCCCTTCCTTT CCT	59.8	627	INTERGENIC	--	--	--
Ca4_P3_31968115	Ca4	31968115	AAT/AATAT	CCAATGATAATGGGG TTTG	CCATTGCAGGTTTCAT TGTG	59.9	794	INTRON	Ca_15456	--	--
Ca4_P3_31969931	Ca4	31969931	ATTTT/ATTT	ATTCACGCAGTCAGCA CATC	TTCGAAGGGAGTATGC AAGG	59.9	574	CDS (FRAME SHIFT)	Ca_15456	--	--
Ca4_P3_31978850	Ca4	31978850	CAA/CAAA	ACATTCTTATGTCGGG GCAG	ACAGCCTTTTCTCCAT CCCT	60.0	605	DRR	Ca_15457	S	--
Ca4_P3_31988631	Ca4	31988631	GAA/GAAA	ATAAGAAGCAACAAGG CCCA	TGCAGTGGGTGCACAT TTAT	59.7	631	INTERGENIC	--	--	--
Ca4_P3_31989159	Ca4	31989159	ATTTTTTTTT/ATTTTTTTT	AGAGGTGGCAAAATTG ATGG	GGGAGTGGGAGGAAT CTTTC	59.9	557	INTERGENIC	--	--	--
Ca4_P3_31992893	Ca4	31992893	CTGAGTTAA/CTGAGTTAATGAGTTAA	TGACACAATTGCTTATG CGG	TTCCAACGGTCATAAA AGGC	60.7	869	DRR	Ca_15458	--	--
Ca4_P3_32003422	Ca4	32003422	CAAAAA/CAAAA	ATCAGCGAGGATGCAG AACT	AACTTGGGGATGAAAA ATGC	60.0	611	INTERGENIC	--	--	--
Ca4_P3_32005104	Ca4	32005104	GACTACTACT/GACTACT	CACTTGACAGGGGTGT TCCT	CATGTGACAACAAGCC TCCA	60.0	596	INTERGENIC	--	--	--
Ca4_P3_32005564	Ca4	32005564	TAAC/TAACCAAC	CATTGGAGGCTTGTGTG TCAC	AGGTGCACGCTTCAGC TATT	59.1	674	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 (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
Ca4_P3_32007324	Ca4	32007324	AT/ACCAATT	CCATTAGTCTTGCCCTT TGC	CAAATAAAATCATGGC TGCAC	59.7	450	INTERGENIC	--	--	--
Ca4_P3_32008196	Ca4	32008196	TC/T	TCTGAGCACACTTGTG GGAC	TTGCGAAGTCAAGCAA ACTG	59.9	418	INTERGENIC	--	--	--
Ca4_P3_32012018	Ca4	32012018	AT/ATT	GGACAAGAGAGAAGAG GGAAAA	ATCGGCTTGCTATGTT TGCT	59.0	380	INTERGENIC	--	--	--
Ca4_P3_32016200	Ca4	32016200	TGAGATACC/TGAGATACCGAGATACC	TCTAAATGTGGGTCGT GCAA	GAAGGATAAACATTGG GGCA	60.1	279	INTERGENIC	--	--	--
Ca4_P3_32018236	Ca4	32018236	A/AGG	GAAAGACAAATCGTTC GGGA	CCACTTCTTCCCAAT CCAA	60.1	431	INTERGENIC	--	--	--
Ca4_P3_32018461	Ca4	32018461	CTT/CTTT	GAAAGACAAATCGTTC GGGA	CCACTTCTTCCCAAT CCAA	60.1	431	INTERGENIC	--	--	--
Ca4_P3_32019814	Ca4	32019814	ATTTTT/ATTTTTTT	TGAAGCGGTAATAAGA AGAGTGG	CGCTGAATCTCATCAA AAGTTG	59.8	255	INTERGENIC	--	--	--
Ca4_P3_32034763	Ca4	32034763	ATT/ATTT	CGTCCACTTCCACTAC CGAT	ATTAAAATTTGGAGCG GGGA	60.0	553	INTERGENIC	--	--	--
Ca4_P3_32034803	Ca4	32034803	TAAAAAAAAA/TAAAAAAAAA	CGTCCACTTCCACTAC CGAT	ATTAAAATTTGGAGCG GGGA	60.0	553	INTERGENIC	--	--	--
Ca4_P3_32038234	Ca4	32038234	G/GA	ACAATGCCCGACTTTAC TGG	ACTATGAGGTTTTTGGT GGCG	60.0	812	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
Ca4_P3_32040799	Ca4	32040799	CCTCTCTCTCT/CCTCTCTCT	GCAGTGGTCCTCTTAATGGC	TGTTCTGCTTTGTACCCAA	59.7	241	INTRON	Ca_15459	--	--
Ca4_P3_32046867	Ca4	32046867	TAA/T	ACTAGTGCCTTTGAAGCCGA	GTTTCATGCAAAGAGCAGCAA	60.0	712	DRR	Ca_15459	--	--
Ca4_P3_32047003	Ca4	32047003	TTAATA/TTA	GCTGGTTTTTCATGGGTCAAT	GTTTCATGCAAAGAGCAGCAA	59.8	474	DRR	Ca_15459	--	--
Ca4_P3_32051935	Ca4	32051935	ATTTTTTTTT/ATTTTTTTTT	TTGAAGATGGTGAATGTGGAA	TATGACCCGTTGGATTCGAT	59.0	797	INTERGENIC	--	--	--
Ca4_P3_32053962	Ca4	32053962	ATTTTTTTTT/ATTTTTTTTT	TGCATGATTAGGGTTAGCTTTTC	ATGCTCCCCTGACATTCCTG	59.7	258	INTERGENIC	--	--	--
Ca4_P3_32056772	Ca4	32056772	ATT/ATTT	CCAGATCCACCACCAAAATC	ATAAAAGCGAAGCGAAGCAA	60.2	683	INTERGENIC	--	--	--
Ca4_P3_32056846	Ca4	32056846	TAAAA/TAAAAA	CCAGATCCACCACCAAAATC	ATAAAAGCGAAGCGAAGCAA	60.2	683	INTERGENIC	--	--	--
Ca4_P3_32057189	Ca4	32057189	AATATAT/AATAT	CGCTGCTCTTCCTTGTTCTC	AAAGCGAAGCGAAGCAATAA	60.3	294	INTERGENIC	--	--	--
Ca4_P3_32057442	Ca4	32057442	TAAAAAA/TAAAAAAA	TATTGCTTCGCTTCGCTTTT	GGGAAACTGCCCTAATTCT	60.1	451	INTERGENIC	--	--	--
Ca4_P3_32061418	Ca4	32061418	T/TGTTTTTTTA	ATCTGTGGCGAAGAGTCCAG	TGTTCAAGGGATCAAAAGGG	60.4	359	INTRON	Ca_15460	--	--

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
Ca4_P3_32067701	Ca4	32067701	GAAAAA/GAAAAA	TGTTGCATTCTGTCTG GAAG	CGAAGATTCGGTTGAT GGTT	59.8	701	INTERGENIC	--	--	--
Ca4_P3_32103137	Ca4	32103137	TAAA/TAAA	TAGATCATGCGGCTGT TTCA	ACCACCATTATCCGA GAAG	60.4	683	INTRON	Ca_15462	--	--
Ca4_P3_32105124	Ca4	32105124	TAAAAA/TAAAAA	TTTGGGGGTACAGAAG CAAC	GGCCATTATTGATCCC TTCC	60.0	477	INTRON	Ca_15462	--	--
Ca4_P3_32105685	Ca4	32105685	T/TC	GAGGAAGGGATCAATA ATGGC	TTGGATGATGGTGATT GATGA	59.8	650	INTRON	Ca_15462	--	--
Ca4_P3_32107042	Ca4	32107042	AAGAT/A	TTGCAACAAGCGGTAA TTGA	CACCACCATGCTCTTC AAAA	60.3	647	INTRON	Ca_15462	--	--
Ca4_P3_32117339	Ca4	32117339	CAAAAA/CAAAA	CCCCAACAAATGACG TCTC	TCCCAACTCTTCGTTC ATCC	60.4	410	INTERGENIC	--	--	--
Ca4_P3_32118643	Ca4	32118643	AAAT/A	GCCAAAGGTAACAAAG GCAA	TGATTTCTTCATTGCAT CGG	60.1	569	INTERGENIC	--	--	--
Ca4_P3_32121497	Ca4	32121497	TAAAAAAA/TAAAAAAA	TGGCATACGACCAACT CAAA	TTTGCTTTACAAGCTTG GGG	60.1	440	INTERGENIC	--	--	--
Ca4_P3_32136390	Ca4	32136390	TC/TCC	AAGCTTCTTAGGCTG TCCC	TCCTTTTCTCACTTCCC CTTT	59.8	637	INTERGENIC	--	--	--
Ca4_P3_32137832	Ca4	32137832	CAAAAAAA/CAAAAAAA	CGACAGCACATTAGAT AAACCG	ATGGATGATGGGCAGT AAGC	59.7	806	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 (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
Ca4_P3_32137903	Ca4	32137903	GAAAAA/GAAAAA	CGACAGCACATTAGAT AAACCG	ATGGATGATGGGCAGT AAGC	59.7	806	INTERGENIC	--	--	--
Ca4_P3_32139759	Ca4	32139759	AAAAGCTTT/AAAAGCTTTAAAGCTTT	TGTGGTTTGGATTGGG TTTT	ACTTCAAAAATTGAGG GGCA	60.1	736	INTERGENIC	--	--	--
Ca4_P3_32143162	Ca4	32143162	GAAAAAA/GAAAAAAA	AATTCCTTGTGTGTGC CTT	CCGTCAAGCAATGAT AACG	59.5	424	INTERGENIC	--	--	--
Ca4_P3_32143723	Ca4	32143723	G/GGA	CGTTATCATTGCTTGAA CGG	CGTACAAGAACAACAG GCAAA	59.2	581	INTERGENIC	--	--	--
Ca4_P3_32143997	Ca4	32143997	TC/T	TTTGCTGTGTTCTTG TACG	TTGAGCACTTACTGGT GGGA	58.9	381	INTERGENIC	--	--	--
Ca4_P3_32144702	Ca4	32144702	ATGAGTTTGAG/ATGAGTTTGAGTTTG AG	CCACACAGACCAACAA CGAC	GATGCAAGCTCCATCT GACA	60.0	461	INTERGENIC	--	--	--
Ca4_P3_32148957	Ca4	32148957	GAAAAAA/GAAAAA	AAGGTGGAAGAAAAGG CAAAA	TGCCATAACTGCACA ACAT	60.1	663	INTERGENIC	--	--	--
Ca4_P3_32149191	Ca4	32149191	CTTTTTT/CTTTTTT	CGGTGAAGGGACCACA CTAT	TGCCATAACTGCACA ACAT	59.8	404	INTERGENIC	--	--	--
Ca4_P3_32155616	Ca4	32155616	TAAA/TAA	CCGTACAACCAAGTCC CATC	GAAATGGAACGATCC CAAC	60.2	151	INTERGENIC	--	--	--
Ca4_P3_32167743	Ca4	32167743	A/AG	GCAGCATATGATCGCA AAAA	AAAGTCCCACTTGATG GTGG	59.8	565	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 (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
Ca4_P3_32169313	Ca4	32169313	ATTTTTTTT/ATTTTTTTT	TACGTTAACGGTGACC ACGA	GCACTTTGTAAACGTC CCGT	60.0	762	INTERGENIC	--	--	--
Ca4_P3_32179289	Ca4	32179289	CTTTTT/CTTTTT	GTTGGCATTCTCTTT GGA	TGGAAGTGAACATAAC CCCTTT	60.1	826	INTERGENIC	--	--	--
Ca4_P3_32179682	Ca4	32179682	CAATAATCAAAACAAA/CAATAATCAAAAC AAATAATCAAAACAAA	TTGCATACCTCATACCA TCCC	TTGATGCATTACCTCC CACA	59.7	731	INTERGENIC	--	--	--
Ca4_P3_32181885	Ca4	32181885	GTTT/GTTTT	AGATTTAAGGGAGGGG GCTC	CGAACAATTCGTCCTT GGTT	60.8	401	INTERGENIC	--	--	--
Ca4_P3_32185519	Ca4	32185519	ACCAAAA/ACCAAAATGGTCAAGGGAGCC AAA	GTGGTTCGGAACACGC TATT	ACATGGTTTGGCACA GTGA	60.0	480	DRR	Ca_15464	R	ERF
Ca4_P3_32187077	Ca4	32187077	CTGTG/CTGTGTG	TTAAACATTCAATTC CCG	GCTTGGTTTGTGGCAT GTTA	60.8	385	INTERGENIC	--	--	--
Ca4_P3_32202833	Ca4	32202833	TGA/TGAAGA	GATGAAGCCAATGATG CTGA	ACCCTGCAGCTACTTC CTGA	59.8	499	CDS (large-effect mutations)	Ca_15465	--	--
Ca4_P3_32206950	Ca4	32206950	CA/C	ATCTGGCAAACCTTCA AGA	GAGGAGGTGGAACCTG TGGA	59.7	852	INTRON	Ca_15466	E	--
Ca4_P3_32216199	Ca4	32216199	ATTTTTTTT/ATTTTTTTT	ATAAAGGTCAACGCAC GCTT	GAAATCAACGGATCTC CATCA	59.8	384	INTERGENIC	--	--	--
Ca4_P3_32216251	Ca4	32216251	GTTTTTT/GTTTTTTTT	ATAAAGGTCAACGCAC GCTT	GAAATCAACGGATCTC CATCA	59.8	384	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
Ca4_P3_32216472	Ca4	32216472	ACT/A	ATAAAGGTCAACGCAC GCTT	GAAATCAACGGATCTC CATCA	59.8	384	INTERGENIC	--	--	--
Ca4_P3_32218753	Ca4	32218753	AT/ATT	GCATTGAAGGGGTCAA CACT	GAGGGAGCAAATCGGT ATCA	60.0	390	INTERGENIC	--	--	--
Ca4_P3_32225930	Ca4	32225930	GAAAAAA/GAAAAAAA	TCGTCGCATTGGTGTA ATGT	TCCGTGAGGACACAAG TGAG	60.0	506	INTERGENIC	--	--	--
Ca4_P3_32227293	Ca4	32227293	AAAAA/AAAAATTAAAA	TCTTCACAACCCCTTGA ACC	TTCTTCCAAACGAGCC TCTC	59.9	868	INTERGENIC	--	--	--
Ca4_P3_32227770	Ca4	32227770	GT/GTGATATATGTT	GAAGAGAGGCTCGTT GGAA	CTAATGGCTCCCGAAT TCAA	59.6	474	INTERGENIC	--	--	--
Ca4_P3_32241433	Ca4	32241433	ATT/A	ACAATTGTTGCACCAC GAGA	ATCGCAAAAGTAGTCC CCCT	60.2	148	INTERGENIC	--	--	--
Ca4_P3_32242240	Ca4	32242240	TATTAAATTAATATTAAA	TGCTAATGCTTTTCAAG GGC	GCGATGCACAGGTAAA CAAA	60.3	482	INTERGENIC	--	--	--
Ca4_P3_32243226	Ca4	32243226	TAAAAAAA/TAAAAAAA	TTGAATCAATGGGGAC GAAT	GTCTTGCAATGCTCCA GTGA	60.1	405	INTERGENIC	--	--	--
Ca4_P3_32256317	Ca4	32256317	A/AC	AAACAAAACATCATCCTT CCCAA	CGTGAGTCTCGTTGAA GCAA	59.9	336	INTERGENIC	--	--	--
Ca4_P3_32263797	Ca4	32263797	CAAAAAA/CAAAAAA	ACACATGTCCCAGTTG ACGA	TGACGATGGAGGCTTT TAGG	60.0	682	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
Ca4_P3_32263961	Ca4	32263961	AAA/AAATAA	GATCAAATCCCCTATGT ATGTGC	TGACGATGGAGGCTTT TAGG	59.6	191	INTERGENIC	--	--	--
Ca4_P3_32264113	Ca4	32264113	TAAAAAAA/TAAAAA	CCTAAAAGCCTCCATC GTCA	TGAGAAATTGGTTTCT CTTCCTC	60.2	385	INTERGENIC	--	--	--
Ca4_P3_32264177	Ca4	32264177	GC/G	CCTAAAAGCCTCCATC GTCA	TGAGAAATTGGTTTCT CTTCCTC	60.2	385	INTERGENIC	--	--	--
Ca4_P3_32264980	Ca4	32264980	AAT/AATAT	GCACTTACCCTTCAATT GGG	AGGAGAGGTCCATTTC TCAGG	59.4	262	INTERGENIC	--	--	--
Ca4_P3_32266919	Ca4	32266919	GAAT/GAATCAAT	GTCCTCACTTGGCTTCT TGC	CAAATCTGCCAAAACC ACCT	60.0	567	INTERGENIC	--	--	--
Ca4_P3_32297893	Ca4	32297893	CTGAAT/CTGAATGAAT	GCGGTGCGATATTCTT TGTT	TGGAAAATGTTGGAGC ATGA	60.1	471	INTERGENIC	--	--	--
Ca4_P3_32298277	Ca4	32298277	T/TC	TCATGCTCCAACATTTT CCA	CCAAAACCAAACCTAA GGCA	60.0	587	INTERGENIC	--	--	--
Ca4_P3_32301466	Ca4	32301466	CAAAAAAAAA/CAAAAAAAAA	AACCATCCCACTTGATG GAA	TCAACCAGTTTTGCAA TCCA	60.2	186	DRR	Ca_15472	DO	MYB_related
Ca4_P3_32301599	Ca4	32301599	TAAAAAAA/TAAAA	TGGATTGCAAACTGG TTGA	CACGAGCTTACAAACC CACA	60.1	174	DRR	Ca_15472	DO	MYB_related
Ca4_P3_323024	Ca4	323024	TTATATATATATATATATATA/TTATA TATATATATATATATATATATA	TGAGTTCCTGCACCTC ACAA	TTCTTTTAAGTCCAATT CCCAG	60.4	378	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 (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
Ca4_P3_32322091	Ca4	32322091	AA/AAGA	CGAACTTGGAGACTGA ACGA	GATGGCCATGAATTGC TTTT	59.0	276	INTERGENIC	--	--	--
Ca4_P3_32335179	Ca4	32335179	AAAGAAGAAGAAGAAGAA/AAAGA AGAAGAAGAAGAA	AAAGTCCGTTTGTGAAT CCG	TGGGCATTCAAATCAA ACAA	60.0	507	INTERGENIC	--	--	--
Ca4_P3_32370221	Ca4	32370221	GTTTTTTTT/GTTTTTTTTT	GACCACACATGCGCAC TATT	TCATGCCCTTACGATC AACA	59.6	648	INTERGENIC	--	--	--
Ca4_P3_32384144	Ca4	32384144	AAAAAAATAAAA/AAAAAAATAAAAAATA AAA	GCTTGTGGTTGTCGGA TCTT	ATGAGTTGCTTTTGGT TCCG	60.1	667	INTERGENIC	--	--	--
Ca4_P3_32384172	Ca4	32384172	TAAAAA/TAAAAAA	GCTTGTGGTTGTCGGA TCTT	ATGAGTTGCTTTTGGT TCCG	60.1	667	INTERGENIC	--	--	--
Ca4_P3_32384505	Ca4	32384505	ATTTATTTTTATTTTTATTTTATT/ATTT ATTTTTATTTTTATT	CGGAACCAAAAGCAAC TCAT	CGCCTAATTTGTCCG CTAC	60.1	159	INTERGENIC	--	--	--
Ca4_P3_32388402	Ca4	32388402	ATTTTTTT/ATTTTTTTTT	TCAATTGCTTGTTCCT CTG	AGAGACATAACAAAGG GCCG	60.0	606	INTERGENIC	--	--	--
Ca4_P3_32388731	Ca4	32388731	GTTTAATTATTTA/GTTTAATTATTTAAT TATTTA	CGGCCCTTTGTTATGT CTCT	TTTGGGCGAATTCAT TTTA	59.2	692	INTERGENIC	--	--	--
Ca4_P3_32390488	Ca4	32390488	TAGAGAGAGAGAGAGAGAGAGATA GAGAGAGAGAGAGA	TGGCACAAAAATCCAA TCA	CCTCGTCGGAGCTATT AACG	59.9	836	INTERGENIC	--	--	--
Ca4_P3_32396185	Ca4	32396185	TCCC/TCC	TCGTCATTTCTTTGTTT GTTG	TCCAATTTCCGTGTC ATGT	60.0	346	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
Ca4_P3_32399880	Ca4	32399880	CATA/CATACAAATAAAATA	TTCTGTCCGAGTATGG GTCC	CATGATGTTTGTG TGCC	59.9	835	INTERGENIC	--	--	--
Ca4_P3_32409390	Ca4	32409390	TAAATAAAAAATAAAAA/TAAATAA AAAA	GACCCATACGAAGT GAAA	CGATGATTTTGGCGG ATTC	59.8	569	INTERGENIC	--	--	--
Ca4_P3_32412395	Ca4	32412395	TAAAAAA/TAAAAA	TTCAATCTCGCAGTTG TTG	GAAATCCAGTAGCAG TGCC	59.0	642	INTERGENIC	--	--	--
Ca4_P3_32414230	Ca4	32414230	ATATTTTATTTT/ATATTTT	CCACCAATAGGGAGAG AAGAAA	CTTTAAGCTCCGAAAC GACG	59.6	136	INTERGENIC	--	--	--
Ca4_P3_32415458	Ca4	32415458	CTTTT/CTTTT	AACATGGAGGTCATG GAAA	AACTTTGTCGATTAAG CACGG	60.2	435	INTERGENIC	--	--	--
Ca4_P3_32416231	Ca4	32416231	ATT/AT	CCCACCATTGAAATTTG GAG	GAAGGAGGGGAAATTT TGACA	60.2	680	INTERGENIC	--	--	--
Ca4_P3_32416840	Ca4	32416840	ATTTTTT/ATTTTTT	TTGCAGCCTTAATTAGC CAAA	GCATGACTTTGGTCG TGTG	59.9	436	INTERGENIC	--	--	--
Ca4_P3_32416873	Ca4	32416873	AG/A	TTGCAGCCTTAATTAGC CAAA	TCACCGATCAAAAGGA ATGA	59.9	645	INTERGENIC	--	--	--
Ca4_P3_32432090	Ca4	32432090	T/TA	TGATAAATTGGGTCAT GTATTTT	TTGGATCATAGATTCT GAATGATAA	57.9	564	INTERGENIC	--	--	--
Ca4_P3_32454180	Ca4	32454180	TAA/TAAA	GCGGATACATTTCTTT GGG	AAACAAGCGGAAGAGC TTGA	59.4	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_32458469	Ca4	32458469	TAAA/TAA	AATGGTCCAACCCCTTA ACC	TTTGACAATGTCGTG AAACA	59.9	526	INTERGENIC	--	--	--
Ca4_P3_32460179	Ca4	32460179	TTATATATATATATATATATAT/TT ATATATATAT	CGGAGATCCATAACAC GGTC	TTTGAAAGAGAAATCC ACCCA	60.3	242	INTERGENIC	--	--	--
Ca4_P3_32482372	Ca4	32482372	AGGGG/AGGGGG	TACCAAACCCCTTGGT CATC	TTTTGGGCGGAAATGT TTTA	59.6	583	INTERGENIC	--	--	--
Ca4_P3_32494139	Ca4	32494139	GATAT/GAT	CGTCATTACCCGTTGAA ACC	TGAGGAGCATAAATCA GAGAAAAA	60.2	786	INTERGENIC	--	--	--
Ca4_P3_32496585	Ca4	32496585	TATTTATTTTA/TATTTATTTTAAAT TATTTT	CCACAATCCACCGTCT ACCT	CCCAGACCCCTCATAA TCAA	59.8	565	INTERGENIC	--	--	--
Ca4_P3_32498847	Ca4	32498847	AG/A	TAGCACGGACCCCAAT TAAG	TGAACCCCATCAAAG GATA	60.0	897	INTERGENIC	--	--	--
Ca4_P3_32511208	Ca4	32511208	GAAAAAAAA/GAAAAAAAAA	ACTGTTTGCCAGAAA TGC	TGATGCATGTCAGAAA GGGA	60.1	475	INTERGENIC	--	--	--
Ca4_P3_32513097	Ca4	32513097	TGGGGGG/TGGGGG	GATTTGCATTGGCCTCT TGT	ACAGTGGTTGCCATTT CCTC	60.1	479	INTERGENIC	--	--	--
Ca4_P3_32515308	Ca4	32515308	ATGTG/ATG	GGCTATCGACCTAGGG AAGC	ACCAACAGAACCGCCA ATAG	60.2	347	INTERGENIC	--	--	--
Ca4_P3_32523443	Ca4	32523443	TAAAAAA/TAAAAA	GAAGGAGGAGGAGAGT GCAG	ATTGAACACGACGCAA ATCA	59.1	391	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
Ca4_P3_32525507	Ca4	32525507	CAAAA/CAAAA	GTCATGCATATGTTGG ACGC	AAGTTTCTTCCCGCT CACA	60.0	460	INTERGENIC	--	--	--
Ca4_P3_32530130	Ca4	32530130	TC/T	AAATACCATGCAACCCG TGA	CTTTGTGTGCAATTCA AGCC	60.2	928	INTERGENIC	--	--	--
Ca4_P3_32531473	Ca4	32531473	TAA/T	TAAAATGGATGCATCGA GCC	ACAAATCAACCAGTGT CGCA	60.9	662	INTERGENIC	--	--	--
Ca4_P3_32547296	Ca4	32547296	AA/AACATTTATCAATTA	TGCGAGATTTTGAGTTC AACC	TGCTTATCTTGAACGG GACC	60.2	325	INTERGENIC	--	--	--
Ca4_P3_32557354	Ca4	32557354	TAAATAAAAT/TAAATAAAATAAAAT	AGGCAAAATACATGCAA TCAT	TGCGTTTTGAGATTCG AAGA	57.1	497	INTERGENIC	--	--	--
Ca4_P3_32562355	Ca4	32562355	CTTTTT/CTTTTTT	AAATGGAGGAGAAGGA GGGA	CGGTGAATCCTTTACG GAGA	60.0	286	INTERGENIC	--	--	--
Ca4_P3_32593055	Ca4	32593055	TAAAAAAAA/TAAAAAAAAA	ATGCAACCCTTTACAA CGC	CAAGGAAGATGGTGT CGCT	60.0	658	INTERGENIC	--	--	--
Ca4_P3_32622503	Ca4	32622503	ACC/AC	TCAATGCCATGGAAG ACAA	TTCCATCTCCAACAAC ATCG	60.0	867	DRR	Ca_15485	O	--
Ca4_P3_32623000	Ca4	32623000	TAAAAAAAA/TAAAAAAAAA	TCGATGTTGTGGAGA TGGA	TCCATCTTTGGAGGA ATGG	60.0	566	DRR	Ca_15485	O	--
Ca4_P3_32630240	Ca4	32630240	TAA/TAA	GTTTCTCCCCAGTCCT CCTC	CTGAAATTGGAACGTG GGTT	60.1	533	INTRON	Ca_15485	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 (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
Ca4_P3_32639909	Ca4	32639909	AC/A	GCGTTACGGTCTTCTG CTTC	TTTGTTAATGCATCTGC CCA	60.0	453	INTERGENIC	--	--	--
Ca4_P3_32647144	Ca4	32647144	TAAA/TAA	TGCATTGTTTTCAAGGG TCA	CCTAATTGCACCCCAA AATG	60.1	611	INTRON	Ca_15487	--	--
Ca4_P3_32647560	Ca4	32647560	CTTT/CTT	TTCCCTGTTCCTCCATA CTT	AGAATACCCAGCAGC AATG	60.5	524	INTRON	Ca_15487	--	--
Ca4_P3_32647717	Ca4	32647717	TAAAAAAAAA/TAAAAAAAAA	GGGTGCAATTAGGGAT GAGA	AGAATACCCAGCAGC AATG	59.9	313	INTRON	Ca_15487	--	--
Ca4_P3_32650495	Ca4	32650495	AAGAG/AAGAGAG	TTTCAACAAAACCCAT GAAA	CACAACAACATTGAGG GTGC	58.0	603	DRR	Ca_15487	--	--
Ca4_P3_3265055	Ca4	3265055	GAAAAA/GAAAAA	GTTGCTGTTGCTGTGG CTGT	TTCCTGTGGGACAAGA AAGG	60.1	735	INTERGENIC	--	--	--
Ca4_P3_32663516	Ca4	32663516	TTTATTATTATTATTATTATT/TTTAT TATTATTATTATT	TGCGTTTCACTCTTCCT TCC	TGTAAGCCCAAAAC AAAA	60.4	257	INTERGENIC	--	--	--
Ca4_P3_32700117	Ca4	32700117	CTTTTTTT/CTTTTTTTT	TACGTGTCGCTTAGGC ACTG	CGTCTGTGCGGTGTA TTTG	60.1	461	INTERGENIC	--	--	--
Ca4_P3_32886390	Ca4	32886390	AC/ACC	AATCATCCCATGTTGCC ATT	CGAGATTTCACACCAA GGGT	60.0	519	INTERGENIC	--	--	--
Ca4_P3_32908126	Ca4	32908126	ATTTTTTTTTTTT/ATTTTTTTTTTTTT TT	TTGGGTAAAAAGGACG CAAC	GAGGGACCAAAATTGC AAAA	60.0	678	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
Ca4_P3_3304220	Ca4	3304220	AAATAATAATAATAATAATAATAAT AATAAT/AAATAATAATAATAATAAT AATAAT	AATATCGTCGGGAAAT GCTG	GAAAGTCGGTCAAAA AGCA	59.9	465	INTERGENIC	--	--	--
Ca4_P3_33113244	Ca4	33113244	GAAA/GAA	TGGGATTCTCTCTCC CACT	GGCAAACCTGTCCACT TGGT	61.0	274	INTERGENIC	--	--	--
Ca4_P3_33176272	Ca4	33176272	ATTTTTTTTT/ATTTTTTTTT	ATCCACGGACAATCCA TTTG	TGGATGTCTTGTCTG GGTTC	60.6	478	INTERGENIC	--	--	--
Ca4_P3_33195041	Ca4	33195041	T/TAGAATTCGGTGA	TTGTCCGTGAGAGACT GCAC	GAATCCTGGGCTGAAA TCAA	60.0	595	INTERGENIC	--	--	--
Ca4_P3_33207850	Ca4	33207850	TAAATAAAATAAAATAAAATAAA/TAAA TAAATAAAATAAAATAAAATAAA	TTGTTTCTCCCAGTTT TGG	GTGAAATCGTTCCTG AGGA	59.9	745	INTERGENIC	--	--	--
Ca4_P3_33251796	Ca4	33251796	GTTTTTTTTT/GTTTTTTTTT	ATCAAAGACATGCAAG GGCT	AGCACCTAGGGCATGG TATG	59.7	816	INTERGENIC	--	--	--
Ca4_P3_33256637	Ca4	33256637	ATTTTTTTTT/ATTTTTTTT	CATTGATCATGGTTCTT GCC	GGCTTGTGAAACAAA TGGAA	58.9	329	INTERGENIC	--	--	--
Ca4_P3_33270889	Ca4	33270889	AAGCTGGAAATCCA/AA	CAGGTTTCAGCACGATC AAGA	CTGGATGAGGAACTTG GGAA	60.0	127	CDS (FRAME SHIFT)	Ca_24019	--	--
Ca4_P3_33295958	Ca4	33295958	TAAAAAAAAA/TAAAAAAAAA	TGACCTCCCACTGCAT ACAA	AAGAGACCGCATACGT GGAT	60.1	532	INTERGENIC	--	--	--
Ca4_P3_33298619	Ca4	33298619	T/TTAG	AGCTCTAGACCACCT GCAA	TTTGGGTGGCATTCTT TTTC	60.0	448	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 (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
Ca4_P3_33304176	Ca4	33304176	GAAAAAAAAA/GAAAAAAAAA	TCCATCTCCAACAACAT CAAA	AAATTTGGATGGAGC CCTT	59.0	600	INTERGENIC	--	--	--
Ca4_P3_33308913	Ca4	33308913	GAAA/GAAA	TCATTTCCCTCGTTT CTG	TTGGCCAAACCTTTT GATG	60.0	183	DRR	Ca_24021	R	C2H2
Ca4_P3_33310326	Ca4	33310326	GAAAAAAAA/GAAAAAAAA	TGCCTTGCTTCTGGTT TTC	CGGTATATGTCACACT TCCGA	60.4	597	DRR	Ca_24021	R	C2H2
Ca4_P3_33312811	Ca4	33312811	CCGATCGA/CCGA	TTACAGGCAAGAAAT GTGC	CTGAATGGAAGTGGGA AGGA	59.8	131	INTERGENIC	--	--	--
Ca4_P3_33327000	Ca4	33327000	CA/C	AATATCCCGTCGAATG TGC	TTTATTGCAACATCGC CTTTT	59.8	662	INTERGENIC	--	--	--
Ca4_P3_33327822	Ca4	33327822	TAAAAAAAA/TAAAAAAAAA	CGAAAATTCGAATGGG TAGC	GGTCAAGTGTTCGCC AAAT	59.5	516	INTERGENIC	--	--	--
Ca4_P3_33328067	Ca4	33328067	GAAAAAAAA/GAAAAAAAA	CGAAAATTCGAATGGG TAGC	AGTATGATGGGTCAT GGGA	59.5	631	INTERGENIC	--	--	--
Ca4_P3_33329397	Ca4	33329397	TAAAAAAAA/TAAAAAAAA	ACGTGGTCTCACGATA AGGC	CTCCATGTGAAAGTGC CAAA	60.1	552	INTERGENIC	--	--	--
Ca4_P3_33344478	Ca4	33344478	CATTTATTTATTTATTTATTT/CATTTAT TTATTTATTT	AAGTTGATCTCAGAGC CCGA	ACAATCGGCTCACCAA TTTC	60.0	824	INTERGENIC	--	--	--
Ca4_P3_33346959	Ca4	33346959	TT/TTAT	TTTTCGGTTTGTTCAA GGC	GGAAACATTGGGAAA CCCT	60.1	766	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
Ca4_P3_33347892	Ca4	33347892	AGG/AG	AGCCCAAGACGATCAT CAAC	TCCTAAAAGACTGCCC GCTA	60.1	855	INTERGENIC	--	--	--
Ca4_P3_33348179	Ca4	33348179	ATT/AT	AGGTTGAGCGATTGGA GAAA	TCCTAAAAGACTGCCC GCTA	59.8	378	INTERGENIC	--	--	--
Ca4_P3_33348851	Ca4	33348851	T/TCTTATA	TTTGGCATCTTCTCAGG CTT	CTCGTGTCTGCACCTT CAAA	60.0	799	INTERGENIC	--	--	--
Ca4_P3_33353051	Ca4	33353051	TTG/TTGTG	ACCAATGCCGCTTAATT GAC	AGACGATCAATTGGTT TGCC	60.0	396	INTERGENIC	--	--	--
Ca4_P3_33413394	Ca4	33413394	ATTTTTTTTT/ATTTTTTTTT	TAGAGCGGGGCTCACT TAAA	GCGGAGATTGCCATAT CACT	60.0	447	INTERGENIC	--	--	--
Ca4_P3_33460204	Ca4	33460204	AAACTTAACCTTA/AAACTTA	CGAATGCACCTTGAAGA CGAA	GACAAAAGCTACGGTG GAGC	60.0	309	DRR	Ca_24024	C	M-type
Ca4_P3_33533176	Ca4	33533176	CAAAAAAAAA/CAAAAAAAAA	GAACCAAGAGGCGATT GAAG	TCCATTTGGGTGAAC CATT	59.8	216	INTERGENIC	--	--	--
Ca4_P3_33557759	Ca4	33557759	GTA/G	TACCCTTTGCTAGCCC CTTT	TTTTGAGGACTTTCGG GTTG	60.1	462	INTERGENIC	--	--	--
Ca4_P3_3355845	Ca4	3355845	CGA/CGATAAGGA	GTTGGGTATTGGTGTC CCAC	GAGGGTGATCAGCTTT CTCG	60.0	589	INTERGENIC	--	--	--
Ca4_P3_3356082	Ca4	3356082	A/AGCCAAGC	TCACCGGAAAGTAACT CGCT	ATCGATATTCTCCGCA CCTG	59.9	622	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 (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
Ca4_P3_33603011	Ca4	33603011	ACC/AC	CCTCTTCGAAC TTGTGA GGC	CCTTCGCACCAATAGC AAAT	60.0	552	INTRON	Ca_24027	R	--
Ca4_P3_33615467	Ca4	33615467	ATT/ATTT	GGTCCTTGTTGAGTCC AACG	CTCAAAACCTGAGCA TGGC	60.5	646	INTERGENIC	--	--	--
Ca4_P3_33615658	Ca4	33615658	AG/A	GGTCCTTGTTGAGTCC AACG	AATGGAATAGCGAGT GTGC	60.5	898	INTERGENIC	--	--	--
Ca4_P3_33617796	Ca4	33617796	AAAAGAA/AAA	CCCCGATTGGTCCTTT ATT	TGCTAGTTGTTGCGAC CAAA	60.0	765	INTERGENIC	--	--	--
Ca4_P3_33618635	Ca4	33618635	T/TGTAGTGAA	GTTTCGGCCAGATGCTG TAAT	CAGTTTGCTGCAACCA TCAT	60.1	277	INTERGENIC	--	--	--
Ca4_P3_33619158	Ca4	33619158	GTATATATATATATATATATATAT/	GAACATGCTGAAAACG GGAT	TGAGGGCAATGACAAA CAAA	59.9	122	INTERGENIC	--	--	--
Ca4_P3_33619321	Ca4	33619321	TAAAAAAA/TAAAA	GAACATGCTGAAAACG GGAT	CCAATCCAAGGTCAT CTGG	59.9	448	INTERGENIC	--	--	--
Ca4_P3_33620200	Ca4	33620200	TACACA/TACA	GCCATGCTACCATTTG GATT	TTACCGACGAACAAGC AGTG	59.8	603	INTERGENIC	--	--	--
Ca4_P3_33626156	Ca4	33626156	TG/T	AGGGAGTAGGAGGGG AGTGA	GCCTCTTTGATCGAGA ACCA	60.1	809	INTERGENIC	--	--	--
Ca4_P3_33633372	Ca4	33633372	GTTTTTTT/GTTTTTT	ACGAGGAAACATATCG TCCG	ATGTCCACACATTGGG TGTC	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_33646948	Ca4	33646948	AAGAGAGAGAGAGAGAGAGAGAGAG/AAAGAGAGAGAGAGAGAGAGAGAGAG G	TTTGTGATTGCTCCAGACC	GCTGATTCACCTGTGCAGGA	60.1	359	INTRON	Ca_24030	L	bHLH
Ca4_P3_33654066	Ca4	33654066	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	CTTGTGTTTGTGTGTGGG	TTTGTTGCGACACCAAACTT	59.9	711	INTERGENIC	--	--	--
Ca4_P3_33685602	Ca4	33685602	TT/TTAT	GAAGAGTTACGCGGACAAGC	AGGAAGAGTGAGATTGCGAA	60.0	768	INTERGENIC	--	--	--
Ca4_P3_33705709	Ca4	33705709	A/AT	ACAAACGCGATGTGAACAAA	TCCCCTTATTCAGAAAGCT	60.2	564	INTERGENIC	--	--	--
Ca4_P3_33713040	Ca4	33713040	C/CAAAAAGTT	GAGATGGTGCCATGAGTTGA	AGTGAAGGGATTGGATGCAG	59.6	393	INTERGENIC	--	--	--
Ca4_P3_33714267	Ca4	33714267	T/TCTTAATC	GAACACGTTGTTAGACCGGC	TGACAAAATGGGGAGAAAGG	60.6	713	INTERGENIC	--	--	--
Ca4_P3_33714529	Ca4	33714529	ATT/ATTGTT	CGTTGTTAGACCGGCTCTTG	TGGGCTGACATAATCACTAA	60.8	940	INTERGENIC	--	--	--
Ca4_P3_33715954	Ca4	33715954	A/AAAAAT	TTGGGTACGTTGGTGTAGCA	ATTGACTGGGCACCATGATT	60.0	634	INTERGENIC	--	--	--
Ca4_P3_33717821	Ca4	33717821	TAAAAAAAAAAAAAAAAAAAA/AAAAAAAAAAAA AAA	CCAAAAACCCCTCTTTTCC	CCACCAAAATTTGTCCAACC	59.8	730	INTERGENIC	--	--	--
Ca4_P3_33732916	Ca4	33732916	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	ACGGTTAACGGATTACAGCG	TGCACGTCTGTGAGAGATT	60.0	482	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
Ca4_P3_33733792	Ca4	33733792	AATATTTGTTTATATT/AATATTTGTTTATATTTGTTTATATT	CGTTATTCCCATATGAGAGGC	TGTGATGTTGGACGTGTGTG	58.5	280	INTERGENIC	--	--	--
Ca4_P3_33743516	Ca4	33743516	CAAAAA/CAAAAA	TGTAGCTGGTGTCACGAAG	AATGCAAGAATCCACCTTGG	59.9	435	INTERGENIC	--	--	--
Ca4_P3_33763932	Ca4	33763932	GTTTTTTTTT/GTTTTTTTTTTTTT	TTGAACACCTTGGGAAGAGG	CCCAAACCGCAAACATAAAA	60.1	787	INTRON	Ca_20373	--	--
Ca4_P3_33788165	Ca4	33788165	GAAAAAAAAA/GAAAAAAAAA	CGTGGGATGAGTGGAACTCT	TGAAGAAAAGGGCATGAACC	60.1	499	INTERGENIC	--	--	--
Ca4_P3_33828542	Ca4	33828542	AATA/AATATA	TACATTGGTGCAACCTGCAT	TTGCCATGACACACCTGATT	60.0	703	INTRON	Ca_20369	Q	--
Ca4_P3_33835105	Ca4	33835105	CAAAAA/CAAAAAAA	TTTTCACCAAATCACTTGAAAGAA	TCGAGCCTTATTGTGGATGA	60.0	654	INTERGENIC	--	--	--
Ca4_P3_33835153	Ca4	33835153	AAGCT/A	TTTTCACCAAATCACTTGAAAGAA	TCGAGCCTTATTGTGGATGA	60.0	654	INTERGENIC	--	--	--
Ca4_P3_33836766	Ca4	33836766	GAAAAAAAA/GAAAAAAAAA	GTTTTGTGATGGGGATGAC	CCATTGAAAAACGAACGACC	60.0	205	INTERGENIC	--	--	--
Ca4_P3_33843176	Ca4	33843176	TAAAAAAAA/TAAAAAAAAA	CGCTTCTTCTGTCCAACACA	TGGTGA AACCCACAAGACAA	60.0	291	INTERGENIC	--	--	--
Ca4_P3_33845460	Ca4	33845460	ATTTT/ATTT	TTCAAACGTAAAATTAAGTGCGA	TGTAGGGATGCTCAACTTGG	60.1	592	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
Ca4_P3_33857426	Ca4	33857426	AAAAATTAAT/AAAAATTAATTAAT AT	GTTTGTGATGGGGA TGAC	CAATTTGGCGTTGT CCTT	60.0	611	INTERGENIC	--	--	--
Ca4_P3_33884406	Ca4	33884406	GTTTTTTTTT/GTTTTTTTTT	AGGCTAGTGCATCATC CAGG	GTACCCCAATTTTCC CGTT	60.2	303	INTERGENIC	--	--	--
Ca4_P3_33912297	Ca4	33912297	ATATCT/AT	AGAATCCAAATCGAAG CCCT	ACCCGCTCTAAGTCCA AAGC	60.0	606	INTERGENIC	--	--	--
Ca4_P3_33921285	Ca4	33921285	ATGCT/A	TGGGTGGTTGACACT GAAA	CAGAGGAAAATGGGT CAGA	60.0	560	INTRON	Ca_20365	O	GATA
Ca4_P3_33922360	Ca4	33922360	CAAA/CAAAA	AGTCAGCCTGCGTAC AAGT	GCCAGACCAATAGTAG GCCA	60.2	365	INTRON	Ca_20365	O	GATA
Ca4_P3_33924249	Ca4	33924249	ATAGT/ATAGTAGT	CCGTCATTACATGTTGC TGG	TCGAGAGTTGCTCCTG GTTT	60.0	729	INTRON	Ca_20365	O	GATA
Ca4_P3_33953368	Ca4	33953368	CAT/CATATCATAT	TATTTGGGATTGTGG GCTC	AGATTAGGGCCTCAGG AACC	59.8	523	INTERGENIC	--	--	--
Ca4_P3_33972054	Ca4	33972054	AAACAACA/AAACAACAACA	TGAGTTCAAAATCGG GAAA	AATTGGCTAAGCAAGC TCCA	60.4	500	INTERGENIC	--	--	--
Ca4_P3_34006503	Ca4	34006503	GA/GAGTGTTA	ACAGAGGAAGCTGCCA CCTA	GAGTTCAACCAATGCG GTCT	60.0	653	INTERGENIC	--	--	--
Ca4_P3_34016739	Ca4	34016739	CTT/CT	TTGCTTTCTGAATGGCA GTG	TGGAAGGATGGGTTGA GAAG	60.0	492	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
Ca4_P3_34055460	Ca4	34055460	GAAAATTAATGAAAAATTAATGAAAA ATTAAT/GAAAATTAATGAAAAATTAAT	CGGTTGAATAAATGTG GCAA	ACCAGCTGAAGGCAAA AATG	59.4	524	INTERGENIC	--	--	--
Ca4_P3_34070757	Ca4	34070757	ATTTTTTTTT/ATTTTTTTTTT	TTCCACAAAATGAGCT CAAAA	GGAGATCAAAATGCC GACT	59.7	901	INTERGENIC	--	--	--
Ca4_P3_34083271	Ca4	34083271	AGGGG/AGGG	AAAGGGACCAATGGAT TTGA	AATCGGACTTACGGTG AACG	59.2	330	INTERGENIC	--	--	--
Ca4_P3_34086894	Ca4	34086894	ATTTTTTTTT/ATTTTTTTTTT	TGAAAGTTTGAAGGG TTGG	AATTCTTCCCGAAGC ATCC	59.9	431	INTERGENIC	--	--	--
Ca4_P3_34121290	Ca4	34121290	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA AAAA	GCATATTGGGAGAAAT GAGCA	GGATGCATGGGAGTTA CCAC	60.1	242	INTERGENIC	--	--	--
Ca4_P3_34169598	Ca4	34169598	TTATATATATATATATATATATATATA T/TTATATATATATATAT	TCAAAGTGGCTCACAA GTGC	TCGACTCAAGAAGGCA AGTG	60.0	781	INTERGENIC	--	--	--
Ca4_P3_34169705	Ca4	34169705	CAATGA/CAATGATAATGA	TCAAAGTGGCTCACAA GTGC	TCGACTCAAGAAGGCA AGTG	60.0	781	INTERGENIC	--	--	--
Ca4_P3_34188062	Ca4	34188062	GCCC/GCC	TTGTCGTGAGAATCGC GTAG	TGAGCCCTTGACTTAA TGCC	60.0	427	INTERGENIC	--	--	--
Ca4_P3_34227066	Ca4	34227066	A/AG	ACGGCAAAAACCACTG AAAT	TGAGGAAAATTGAGAC CGGA	59.5	327	INTERGENIC	--	--	--
Ca4_P3_34228273	Ca4	34228273	CTTT/CT	TGGAAGTTGGGAGAAA CACC	ACGATTCGTCACACAA TGGA	59.9	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 (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
Ca4_P3_34239824	Ca4	34239824	GTTTTTTTT/GTTTTTTT	GGTTTTACGGCAACAT CAGG	ACAAATCAGAGCTGGT CGCT	60.4	711	DRR	Ca_20356	L	--
Ca4_P3_34245869	Ca4	34245869	ATTTTTTTT/ATTTTTTTTT	AAAGAGAATGGGTGTG GGTG	ACTTGGGAACCCGAAG AAGT	59.8	212	INTERGENIC	--	--	--
Ca4_P3_34257490	Ca4	34257490	CTTT/CT	TCCATTTCCGAGAAATC CAT	CACAAAGACCAAGCC CAAT	59.3	490	INTERGENIC	--	--	--
Ca4_P3_34262481	Ca4	34262481	TAAAAAAAA/TAAAAAAAAA	GACCACCTACGCCACA CTTT	TGTTCCAATTCCTCGT GTCA	60.0	807	INTERGENIC	--	--	--
Ca4_P3_34262693	Ca4	34262693	AATATATATATATATATATATATATATATATATATATA ATATATA/AATATATATATATATATATATA	TCTTGCCACCAACAAAA CAA	TGTTCCAATTCCTCGT GTCA	60.1	223	INTERGENIC	--	--	--
Ca4_P3_34329843	Ca4	34329843	CTTTTTTTT/CTTTTTTTT	TGCAGACCCTTGAAA AAGT	GCCACTATTGGCTGGG TTAC	59.7	685	INTERGENIC	--	--	--
Ca4_P3_34339778	Ca4	34339778	ATTTTTTTTTT/ATTTTTTTTTT	CAGGATTTGGTTTAGC CATTTT	TGTGGAAGGAAAACCA GAGG	59.4	355	INTERGENIC	--	--	--
Ca4_P3_34375164	Ca4	34375164	ATTTTTTT/ATTTTTT	CAAATCTTCTCAAATC TTGACCAT	CTATCGACCAAGCCAC CATT	59.9	768	INTERGENIC	--	--	--
Ca4_P3_34388181	Ca4	34388181	GAAA/GAAAA	GTTGGTTCCCTAGCAC CGTA	CTGTCAATTGAGTTGC GACG	60.0	484	INTERGENIC	--	--	--
Ca4_P3_34405663	Ca4	34405663	GAAAAAAAA/GAAAAAAAAA	GTTCGAAACTGCAGC AACA	ATGATTATCAGAGTC CGCC	60.0	280	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 (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
Ca4_P3_34454517	Ca4	34454517	TAAAAG/TAAAAGAAAAAAG	AGGGGTGGTGATTCTC ACAG	ATTTTGGAGGACTTT CGGG	60.0	285	DRR	Ca_20352	--	B3
Ca4_P3_34458862	Ca4	34458862	CAAAA/CAAAA	CCAAACGTTCTCCAC AACT	GAGGATGCCAAAATGC CTAA	60.0	744	DRR	Ca_20351	--	--
Ca4_P3_34468802	Ca4	34468802	GTTTTTTT/GTTTTTTT	GGGAAGCTTGTTGCT TCTG	TAAGAGTGAGTGGGT GGGC	60.0	353	INTERGENIC	--	--	--
Ca4_P3_34471336	Ca4	34471336	ATTATTTATTTATTTAT/ATTATTTA TTTATTTATTTATTTAT	AACGTGACATTTTCGA AGC	TCAAGTTTTCGATATA GCCGT	60.1	577	INTERGENIC	--	--	--
Ca4_P3_34473954	Ca4	34473954	CTTTTTTT/CTTTTTTT	ACCCAAATCCAGTGTC TGC	GGCCTTGTCGAATGAT TGTT	60.0	839	INTERGENIC	--	--	--
Ca4_P3_34482261	Ca4	34482261	GCCGCC/GCCGCCGTAAACCGCC	ACGCCATCTGCCATAT GTTT	TTTGGGGTGATGGAAA TGAT	60.4	497	INTRON	Ca_20350	R	G2-like
Ca4_P3_34492879	Ca4	34492879	TAAAAA/TAAAAA	CTGATCAGTCGTTGGG AGGT	TGAGTTGATCGTTTCC ACCA	60.1	538	DRR	Ca_20350	R	G2-like
Ca4_P3_34525292	Ca4	34525292	TAAAA/TAAAA	GGACAACCTGGGAAAA GTGA	CTTCGATCCGTGTAAG CCAT	59.9	212	INTERGENIC	--	--	--
Ca4_P3_34566361	Ca4	34566361	TTTCT/TT	CGCCTAAGGACTATGC AAGC	AAAATCCAACAATCTCC CCC	60.0	761	INTERGENIC	--	--	--
Ca4_P3_34566424	Ca4	34566424	ATT/AT	CCCTGAGACTCACGAA GAGG	AAAATCCAACAATCTCC CCC	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_34756	Ca4	34756	AATATATATATATATATATA/AATATA TATATATATATATA	ACACATGACTTCCTTG CCC	TTGCAACAACAAAACT GCC	60.0	673	INTERGENIC	--	--	--
Ca4_P3_34885596	Ca4	34885596	A/ACGAT	GAATGTGGGGGCTGTT CTTA	TTAATCTCGGGCGAAA TACG	59.9	631	INTERGENIC	--	--	--
Ca4_P3_3493500	Ca4	3493500	TGAGAGAGAGAGAGAGAGA/TGAGAG AGAGAGAGAGA	TTCACGAAATTGGTCCC TTT	TGTCCTCCACTTGACAA AAAGA	59.4	529	INTERGENIC	--	--	--
Ca4_P3_34938595	Ca4	34938595	CATATATATATATATATATAT/CATAT ATATATATATATATAT	TTTAGAAGAGGGTCCT GCGA	AGGGAGGTTTGTTT GACG	59.9	774	INTERGENIC	--	--	--
Ca4_P3_35033996	Ca4	35033996	TTCCG/T	TTCAATGTCTCCAACCA CCA	TGCAACTGAGAAATTG CGAC	59.9	520	INTERGENIC	--	--	--
Ca4_P3_35213666	Ca4	35213666	TAAAAAAAA/TAAAAAAAAA	TGGAGGAAAAGAGGGT GATG	ATTGAGGGTGATTGGT TGGA	60.0	580	INTRON	Ca_20014	U	M-type
Ca4_P3_3529103	Ca4	3529103	GATATATATATATATATATATA/GA TATATATATATATATATATATA	ATGCACTTGGGCCAGA TTAG	AACTCGTTTGATATG GGCG	60.1	442	INTERGENIC	--	--	--
Ca4_P3_35319446	Ca4	35319446	ATTTTTTTTT/ATTTTTTTTTT	GGTCAGTTCATCCTAG GGCA	TTTTTGGTGCCTAAG TGGG	60.1	462	INTERGENIC	--	--	--
Ca4_P3_35345914	Ca4	35345914	GTTTT/GTTTTTT	TTTGTGAAGGGATTG GCTC	ATGCCTCTCTATGCAG CGTT	60.1	763	INTRON	Ca_20018	Z	NAC
Ca4_P3_35352556	Ca4	35352556	CTTTT/CTTTTT	CCATCAAAGTCCACGC CTAT	TCTCAGAGAACGACCT CCTATT	60.0	166	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 (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
Ca4_P3_35366554	Ca4	35366554	TTAGCTGATAG/TTAGCTGATAGCTGA TAG	TCGAAAAACAAAATAA CCCG	GATTACCATATACTCC TTCGCTT	59.0	498	INTERGENIC	--	--	--
Ca4_P3_35432013	Ca4	35432013	TTAT/TTATAT	TGTTCAACATCCACGAA CAA	TGCCATACTCATGTGCG GAAA	58.5	669	INTERGENIC	--	--	--
Ca4_P3_35432836	Ca4	35432836	TTATATATATATATATATATAT/TTATAT ATATATATATATATATAT	TTTCCGACATGAGTATG GCA	TTTGAAAGTAACACT GCACG	60.1	785	INTERGENIC	--	--	--
Ca4_P3_35433246	Ca4	35433246	TAAAAA/TAAAAA	CACGTGCAGTGTACT TTCCA	TGACGAATTTCAAAA CCTGC	59.8	491	INTERGENIC	--	--	--
Ca4_P3_35433291	Ca4	35433291	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATATA TATAT	CACGTGCAGTGTACT TTCCA	TGACGAATTTCAAAA CCTGC	59.8	491	INTERGENIC	--	--	--
Ca4_P3_35457008	Ca4	35457008	TTGC/T	AATTGCAGAAAAATGC GGTC	TTGTACCAGATATTGG CCCG	60.1	776	INTERGENIC	--	--	--
Ca4_P3_3548502	Ca4	3548502	TC/T	CACCTGCAGTGAAAAG ACCA	AGGCAGAAATGTGGAT GGAG	59.9	380	INTERGENIC	--	--	--
Ca4_P3_35523540	Ca4	35523540	AAT/AATAT	ACATAGCATCTGTCCTG GGC	TCATGGGTTCTGAACA GCAA	60.1	340	INTRON	Ca_22434	--	--
Ca4_P3_35708239	Ca4	35708239	GTTTTTT/TTTTTT	AAAGGACCAAGTCGGA AAAA	TGCTTCAAGATCAATC TGCG	58.7	578	INTERGENIC	--	--	--
Ca4_P3_35720299	Ca4	35720299	TTTATTATTATTATTATTATTATTAT TATTATTATT/TTTATTATTATTATTATTA TTATTATTATTATT	GCTATAGCTGGCGACT CCAC	ACTCTTCCAAAGTAGG CGCA	60.0	688	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
Ca4_P3_35779928	Ca4	35779928	AACACACACACACACA/AACACACA CACACACACACACA	GGCATATATGTCAATTA GGGGA	TGCTTTTGTGGTTGC TTTG	57.9	765	INTERGENIC	--	--	--
Ca4_P3_35822348	Ca4	35822348	TGG/TG	GATCAAATCGAGGACC GAAA	CGAACAAAACGATGGG AAGT	60.0	695	INTERGENIC	--	--	--
Ca4_P3_3582998	Ca4	3582998	TATAGATAGATAGATAG/TATAGATAGA TAGATAGATAG	CCACAAATGATGTGCC AAAG	TGGGTTTTAATTTTGC GGAG	60.0	326	INTERGENIC	--	--	--
Ca4_P3_35975112	Ca4	35975112	TTTATTATTATTATTATTATTATTAT TATTATTATTATTAT/TTTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTAT	AGCCAAAAGTGGGTA CGTG	TTTTGTGTAACGCCCA GTCA	60.0	193	INTERGENIC	--	--	--
Ca4_P3_3602818	Ca4	3602818	GTTTTTTT/GTTTTTTT	GAGCATCTCTAACGGG AGGA	TCGTCTTTTATGACCAA CTCCC	59.4	541	DRR	Ca_12158	--	--
Ca4_P3_36079126	Ca4	36079126	TTGTG/TTGTGTG	ATTTTGATGCTCACGGT TCC	CGGAGATGATGTTTCA GGTT	59.9	595	INTERGENIC	--	--	--
Ca4_P3_36079437	Ca4	36079437	TGTC AAGTCAA/TGTCAA	ATTTTGATGCTCACGGT TCC	GGCGTACCATGCTTTG ATT	59.9	979	CDS (FRAME SHIFT)	Ca_14855	--	--
Ca4_P3_36138277	Ca4	36138277	ATT/AT	ACCATGAAAGACATGG GAGC	CGGAGTACCCGACCAA ACTA	59.9	436	INTERGENIC	--	--	--
Ca4_P3_36175888	Ca4	36175888	AT/A	AGTTGCAGCGAGTCTG GATT	TCCGACATGCAACTCT TCAG	60.0	437	INTERGENIC	--	--	--
Ca4_P3_36299251	Ca4	36299251	ATTTT/ATT	AACCCAAGAGCGCACA TATT	GAGCCAAACACTGCAT CAGA	59.6	444	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
Ca4_P3_36300197	Ca4	36300197	GGTCGGCGTCGGCGT/GGTCGGCGTC GGCGTCGGCGT	ACATGTTGCCGTTGTC AAAA	AACCCAGGCCCAAAC AACT	60.0	312	INTERGENIC	--	--	--
Ca4_P3_36310356	Ca4	36310356	ATTTT/ATTTT	TTGATTCTTTTAAAT TTGCTCA	TTGGTGC GTTCTCTA AACA	58.5	765	INTERGENIC	--	--	--
Ca4_P3_36335652	Ca4	36335652	TT/TTAT	TCCCTTGTTTGGTGT TGA	ACCCTAGGGGTATGAG CGAT	60.0	470	INTERGENIC	--	--	--
Ca4_P3_36336918	Ca4	36336918	TAAA/TATAAAA	ACAACAAGGGTGACCT CCAC	TGCTTGCTATTCTGC GTCAA	59.9	736	INTERGENIC	--	--	--
Ca4_P3_36337139	Ca4	36337139	GC/G	TGCAATGTCAATATGAA CCAAA	CCACAACCACTCATCA CGAC	58.9	479	INTERGENIC	--	--	--
Ca4_P3_36337249	Ca4	36337249	TAAAATATTTGTTTCA/T	TGACGCAGAATAGACA AGCAA	CCACAACCACTCATCA CGAC	59.6	341	INTERGENIC	--	--	--
Ca4_P3_36337433	Ca4	36337433	AT/ATTTTTAACTAAATT	TTGACGCAGAATAGAC AAGCA	TGAGTTTGATCGCT TTGC	59.6	709	INTERGENIC	--	--	--
Ca4_P3_36390176	Ca4	36390176	TATAATAATAA/TATAATAATAAA	TATGCACGCTCTCTCTC CCT	AGGAGGAACCAAAACC GTCT	60.1	611	INTERGENIC	--	--	--
Ca4_P3_36394814	Ca4	36394814	AGAAGAT/AGAAGATAAAGAAGATGAA GAT	CCAAGTGTCTTCTCCC CAA	CTTCAATTCCTCAGAA GCGG	60.1	605	CDS (large-effect mutations)	Ca_14837	--	--
Ca4_P3_36410224	Ca4	36410224	A/AT	GGTGGGGTAGACACAT GGAA	TCAATGTAAGACTCATT TTATTTCCC	60.6	693	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
Ca4_P3_36424107	Ca4	36424107	TAAAAAAAA/TAAAAAA	GCAGTCGCACTGCACA TAAT	ACAACAGCGCTTGTC AAAA	59.9	788	DRR	Ca_14835	K	M-type
Ca4_P3_36427743	Ca4	36427743	TTT/TTTTCTT	ATGCATCTATTGAATGC CCA	TAGCATCCAGCGCTGT AAAA	58.9	148	INTERGENIC	--	--	--
Ca4_P3_36448542	Ca4	36448542	CTTT/CTTTT	CCAAATATGGACATTC ACGG	CTGCATGGCTTGAATA GCAA	60.1	928	INTRON	Ca_14833	S	--
Ca4_P3_36450396	Ca4	36450396	GTCTT/GTCTTCTT	GACACCAAATTGGGAA AGGA	GCGGTGACATGTACGA TTTG	59.8	710	DRR	Ca_14833	S	--
Ca4_P3_36450797	Ca4	36450797	TTGTGT/TTGT	ATCACAAGCGATGTCA GTGC	GCGGTGACATGTACGA TTTG	59.9	192	DRR	Ca_14833	S	--
Ca4_P3_36455905	Ca4	36455905	A/AC	GGTGGAGAGCTATTTG AGCG	AAGCAAACTTCAGGA GCGA	60.0	668	INTRON	Ca_14832	T	YABBY
Ca4_P3_36457501	Ca4	36457501	TT/TTGTTGAT	TGGGGGTCAATTTGAA TGTT	ACCAATCTGTGGACTG CTCA	60.0	516	DRR	Ca_14832	T	YABBY
Ca4_P3_36463027	Ca4	36463027	CAAAAA/CAAA	TCAGCCATATGACCAAT CCA	AAACCCCATTTGTTG TTGA	59.9	692	INTRON	Ca_14831	--	--
Ca4_P3_36465756	Ca4	36465756	TC/T	CAGGAATTCGATCAGG GAAA	GTTTGAAGCCTTGTC TTGC	60.0	256	INTRON	Ca_14830	E	--
Ca4_P3_36474350	Ca4	36474350	ACATAATTCA/ACATAATTCATAATTCA	CAAACCACATCACCTC CTT	GCTACACCGACCACCT GAAT	59.8	585	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
Ca4_P3_36478044	Ca4	36478044	AATATA/AATA	AAAGTGATAACCGATG AGTGACAA	AAGGCTCCACATGAAC AAGG	59.9	706	INTERGENIC	--	--	--
Ca4_P3_36496727	Ca4	36496727	ATTT/ATTTT	TGGCTTTACATTGTTT CCA	CAGTCTGCTTTATGG CTGA	60.1	500	INTERGENIC	--	--	--
Ca4_P3_36502639	Ca4	36502639	TCCCC/TC	GTGGCAAAATGGATCG AACT	GCCGTCTAGTGTTTCT TTAATGACT	59.9	551	INTERGENIC	--	--	--
Ca4_P3_36530142	Ca4	36530142	TAAAAAAAA/TAAAAAAAA	TTGGTGTAATTTGATTT CTTCCC	TGAACTGTGTAGCCAA AAACG	59.3	778	INTERGENIC	--	--	--
Ca4_P3_36537541	Ca4	36537541	TTT/TTTCTT	TCGAAACGCTTATCTTG GCT	GGGACCGCCTATGTAT GAGA	60.0	382	DRR	Ca_14825	--	B3
Ca4_P3_36545458	Ca4	36545458	GACACACACA/GACACACA	CCTCCGCAAAAAGGAT ATGA	GTCACATGGAAAGGGC ATCT	60.0	915	INTERGENIC	--	--	--
Ca4_P3_36565480	Ca4	36565480	T/TAAACCCC	CACGCTTTCTCCCAAAA CAT	GGCACTGAGATCAACA TGAGG	60.1	603	DRR	Ca_14822	--	--
Ca4_P3_36569199	Ca4	36569199	TTGTC/TTGTCCGTGTC	ATGATAGCATGTGCAC GGAA	TGTATGCTGAGGGGAT GTCA	60.1	656	INTRON	Ca_14821	DT	--
Ca4_P3_36588362	Ca4	36588362	TTTAAATATTAAATATT/TTTAAATATTA AATATTAAATATT	CCCCCTTCCAAAATTGA GAT	GAAGTGGCAGATGGTG ATTG	60.1	332	INTERGENIC	--	--	--
Ca4_P3_36589789	Ca4	36589789	TAAA/TAAAAA	TTTTAATCCTAAACAAA TGAGTCCAA	TGGAGGAACAATGAAT GTCG	59.4	496	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
Ca4_P3_36593400	Ca4	36593400	TAA/TAAGTAAGAAGAA	TTGCAAAACAATGCCA AAT	TCTCAGGTTGAGTTGA GGGG	60.0	430	INTERGENIC	--	--	--
Ca4_P3_36607300	Ca4	36607300	TTT/TTTTTTAGTT	ACGACATCCCACTCAA CCA	TGTGGGACGGATGGA GTATT	60.0	360	INTERGENIC	--	--	--
Ca4_P3_36608717	Ca4	36608717	TCC/TC	GCTCTGACCAAATCTG ACCC	TTCAGCAGCGTGAATC AAGT	59.7	361	INTERGENIC	--	--	--
Ca4_P3_36608761	Ca4	36608761	CGCTGCTG/CGCTG	GCTCTGACCAAATCTG ACCC	CTTCGCGACCATGGT AATC	59.7	601	INTERGENIC	--	--	--
Ca4_P3_36609336	Ca4	36609336	AC/A	CATGGTCGCGAAAGTC AATA	CAACACGACAACACAA AGGG	59.7	829	INTERGENIC	--	--	--
Ca4_P3_36616620	Ca4	36616620	AGTGTGT/AGTGTGTGT	TGAAGTGAGTGCAATC CAGC	TCTGGAACCAATTCCC TTTG	60.0	858	DRR	Ca_14818	I	WRKY
Ca4_P3_36620937	Ca4	36620937	CCATTCA/CCA	ACTATGCTCTTGTTGG CCC	TCAAATCATGTTGGA GGCA	59.2	622	CDS (FRAME SHIFT)	Ca_14818	I	WRKY
Ca4_P3_36622112	Ca4	36622112	AGTGTTACGTGTTACGTGTT/AGTGTT ACGTGTT	ACAAGTCAAAACCGCC TGAC	ATGCTGCCATCAGTAG GTCC	60.2	427	INTRON	Ca_14818	I	WRKY
Ca4_P3_36638657	Ca4	36638657	GAAAA/GAAAAA	CTGGGATTATGGGGTC ATTG	ATTACAGCTTAGTGGCA AGGC	60.0	446	DRR	Ca_14816	H	--
Ca4_P3_36638983	Ca4	36638983	TA/T	CTGGGATTATGGGGTC ATTG	ATTACAGCTTAGTGGCA AGGC	60.0	446	DRR	Ca_14816	H	--

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 (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
Ca4_P3_36643235	Ca4	36643235	T/TG	ACGCAATACATCTCAAG CCC	AATGGTAGCTGGGACA ATGC	60.1	811	INTRON	Ca_14816	H	--
Ca4_P3_36644531	Ca4	36644531	ACTCTC/ACTC	CAACACCAAATTGCCAA GTG	AGCTGCCTCAGTTCCA CTGT	60.0	870	INTRON	Ca_14816	H	--
Ca4_P3_36646334	Ca4	36646334	ACACTT/A	GGAACAAAGGTGGGAC AAAA	GGGGGATATGTGGTTC CAGT	59.8	823	INTRON	Ca_14816	H	--
Ca4_P3_36651037	Ca4	36651037	ACAAAATTGAGCTTCAAACCAAATTG/ ACAAAATTGAGCTTCAAACCAAATTG AGCTTCAAACCAAATTG	GCACATGGCTGGCTCT ACTA	ATGGGACCAGTGATGT TGGT	59.1	675	INTERGENIC	--	--	--
Ca4_P3_36726687	Ca4	36726687	ATTTTT/ATTTT	GCTTGTCCGCGTAAC CTTC	GGGGTGTGCAACCTT TAGA	60.0	283	INTERGENIC	--	--	--
Ca4_P3_36779245	Ca4	36779245	TATAATAATAATAATAATAATAATA ATAATAATAATAA/TATAATAATAATAAT AATAATAATAATAATAATAATAA	AGCTTAGTTCACATGG TCCG	CGGTGACATATGGGT CAG	59.3	621	INTERGENIC	--	--	--
Ca4_P3_3680781	Ca4	3680781	GTTTTTTTTT/GTTTTTTTTT	CCCAAAGACACATTTG GGT	TTGCAATGCCATTAA GCTG	59.7	452	INTERGENIC	--	--	--
Ca4_P3_3683925	Ca4	3683925	ATTTTTTTTT/ATTTTTTTTT	CGACTGACCACATGGA TTGT	CGAGTCATCTTATTGTT TGCCA	59.4	734	INTERGENIC	--	--	--
Ca4_P3_36911328	Ca4	36911328	GATATATATATATATATA/GATATATA TATATATATATATATATA	ATGTGAATCCCACCAG GAAA	TTACAACGCTTTGGCA ACAA	60.2	523	INTERGENIC	--	--	--
Ca4_P3_36952734	Ca4	36952734	ATTTTTTT/ATTTTTT	AACTCATGTGGTTTGTG GCA	ATGGGCCCTCTTTTGT CTTT	60.0	896	INTRON	Ca_14797	R	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_36953596	Ca4	36953596	AATATATATAT/AATATATATATATAT	AAAAGAGGGCCCATGA GATT	TGTGCATTGGGAACAA CACT	59.9	693	INTRON	Ca_14797	R	C2H2
Ca4_P3_36954611	Ca4	36954611	GGTGT/GGTGTGT	GGAGGATGGATGTGTG TGTG	TGGCACTCTCTTCTCC AGGT	59.8	580	INTRON	Ca_14797	R	C2H2
Ca4_P3_36956074	Ca4	36956074	TAAAAAAAA/TAAAAAAAAAAAA	TGTTCCAGGTTGATTCC TCC	TGATGGCAGGAAAAAT AAGG	59.9	963	INTERGENIC	--	--	--
Ca4_P3_36956803	Ca4	36956803	TAAAAAA/TAAAAAA	CCTTATTTCCCTGCCA TCA	CACCAATGGCTGAAAA TCCT	59.9	595	INTERGENIC	--	--	--
Ca4_P3_36960688	Ca4	36960688	ATATCTTTGTTATTAT/ATATCTTTGTAT TTATCTTTGTTATTAT	TTGATTTTGATGCAGT GGA	CAAATACCTGTTGCCG AGGT	60.0	818	INTERGENIC	--	--	--
Ca4_P3_36968132	Ca4	36968132	ATTTTTTTT/ATTTTTTTTT	GGCGAAAGTACCCAAA CAAA	GACTTCTGCAAAGGAC CTCG	60.0	426	INTERGENIC	--	--	--
Ca4_P3_36968275	Ca4	36968275	G/GTTAATAC	GGCGAAAGTACCCAAA CAAA	GACTTCTGCAAAGGAC CTCG	60.0	426	INTERGENIC	--	--	--
Ca4_P3_36969612	Ca4	36969612	CATATATATATA/CATATATATATATATA TATA	CATGGGCCAAAAATAAA AAGA	GAGCTGTGGAGAAGAA AAGCA	59.0	814	INTERGENIC	--	--	--
Ca4_P3_36969837	Ca4	36969837	CTTTTTTTTT/CTTTTTTTTTT	AGGTCATGCCATCAAA GACA	GAGCTGTGGAGAAGAA AAGCA	59.1	145	INTERGENIC	--	--	--
Ca4_P3_36972358	Ca4	36972358	CTTT/CTT	ACAACCAACAAAATGC GACA	AGCCTTGAGCGACCAC TTTA	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_36972540	Ca4	36972540	AATATATATATATA/AATATATATATATA TATATATA	TAAAGTGGTCGCTCAA GGCT	TCTACATTCAAATTGG GGGC	60.0	608	INTERGENIC	--	--	--
Ca4_P3_36973113	Ca4	36973113	CATAT/CAT	GCCCCCAATTTGAATGT AGA	ATTCAATTTGCGCGAG TGTT	59.8	621	DRR	Ca_14796	B	bHLH
Ca4_P3_36973873	Ca4	36973873	TA/TAGAA	TGTGGTAAAATGCGGT CAAA	TCGGGTCATCTGCATT ACAA	60.0	478	DRR	Ca_14796	B	bHLH
Ca4_P3_37013372	Ca4	37013372	TA/TACTTAAATGTTAA	CACGCTTTCAACTGTCC TGA	ATTGATCATCACATTG GCGA	60.0	421	INTERGENIC	--	--	--
Ca4_P3_37034054	Ca4	37034054	CTTT/CTTTT	GGAGGTTATCAATGGC TGGA	TGGAGTGAAAGGAAT GGAG	59.9	536	INTERGENIC	--	--	--
Ca4_P3_37035741	Ca4	37035741	TCC/TC	CCCAATGAAAGGCTCA CAAT	TCCCTTTACCTTGCCT CATTT	59.9	635	INTERGENIC	--	--	--
Ca4_P3_37035891	Ca4	37035891	AT/ATT	AAATGAGGCAAGGTAA AGGGA	AGAATGCGCTCATGCT TCAC	60.0	504	INTERGENIC	--	--	--
Ca4_P3_37040426	Ca4	37040426	TAAAAAA/TAAAAAAA	GCGCTACAGAGGCCT TCAC	GGTCATAACAAAGGGC CAGA	60.3	648	INTERGENIC	--	--	--
Ca4_P3_37042884	Ca4	37042884	A/AC	GCATGAGAATTTCCGT GTCA	TAAACCACACAGCAA ACGG	59.7	518	INTERGENIC	--	--	--
Ca4_P3_37043299	Ca4	37043299	T/TG	CCGTTTGCTGTGTGGT TTTA	TTGCAACAAGCAACC AAAG	59.6	298	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 (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
Ca4_P3_37046683	Ca4	37046683	A/AT	GCAAGTTGTCCAGCGT AACA	CCCATTCCCACTTCA ATT	59.9	870	INTERGENIC	--	--	--
Ca4_P3_37059204	Ca4	37059204	ATCTTCATTTTTCTTCATT/ATCTTCAT T	CAGTTCAACAATTTGAC TGAGAAA	ATGGGACGATGTGGAT CAAT	58.5	784	INTERGENIC	--	--	--
Ca4_P3_37076395	Ca4	37076395	A/AGT	TTCCAAATTGCAAAACA TGC	TGGTATTGTGGTGGA AAGA	59.5	370	INTERGENIC	--	--	--
Ca4_P3_37082858	Ca4	37082858	GTTTTTTTTTTT/GTTTTTTTTT	GAAGTTGTTGGGTTG GCAT	ATTGCAAATTGAGAGC CCAG	59.8	391	INTERGENIC	--	--	--
Ca4_P3_37083111	Ca4	37083111	ATTTT/ATTT	GAAGTTGTTGGGTTG GCAT	TTGCCATCTGGAGTC TTGA	59.8	798	INTERGENIC	--	--	--
Ca4_P3_37083670	Ca4	37083670	T/TGAACACAAC	TCTCAAGACTCCAGAT GGCA	CGTGCTCCATTTTATG GCAT	59.5	558	INTERGENIC	--	--	--
Ca4_P3_37089859	Ca4	37089859	TAAAAAAAAA/TAAAAAAAAA	ATATCGACAATGCGCA ACAA	CAACCAAGAGCGTTCT CCAT	60.1	853	INTERGENIC	--	--	--
Ca4_P3_37098592	Ca4	37098592	AAATAAT/AAAT	GTGCTATTGAGTGGTG CCAA	CGAATCTTCTTCAAAT GTTGACC	59.7	369	INTERGENIC	--	--	--
Ca4_P3_37098679	Ca4	37098679	GAAGATTCGATTAAGATT/GAAGATT	GTGCTATTGAGTGGTG CCAA	TCTTCTTCTTCTCAGC CTTGA	59.7	734	INTERGENIC	--	--	--
Ca4_P3_37104335	Ca4	37104335	TTTTATTT/TTTT	GTGAGCAAGGGGAGCA GTAG	CCTCCAAATGATGGCG TAGT	60.0	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_37105524	Ca4	37105524	AA/AACA	TTCAATGGTCTCTCAC CCC	ACGAAGGTCAAGCTCA AGGA	59.9	855	INTERGENIC	--	--	--
Ca4_P3_37117919	Ca4	37117919	AT/A	TACGAAATCGGCTGG ATAG	GCACGATAAATGCAAC CCTT	60.1	496	INTERGENIC	--	--	--
Ca4_P3_37119347	Ca4	37119347	TAAAAAA/TAAAAAAA	AAAACATGTGCGACCC TAGA	CCCAACCATTTTGAA CCAC	58.2	555	INTERGENIC	--	--	--
Ca4_P3_37121983	Ca4	37121983	ATTTTTTT/ATTTTTTTT	TCAACATGACCTCCTTA TGCTTT	TCCAACACTCCAAC ACCA	60.0	407	INTERGENIC	--	--	--
Ca4_P3_37128543	Ca4	37128543	TAAAA/TAAAA	TCGCACTTTTGAGATT GAA	TGCATCCATCGTCAAA TACAA	59.4	462	INTERGENIC	--	--	--
Ca4_P3_37128859	Ca4	37128859	G/GC	TTTGACGATGGATGCA TAAGA	TTTAGGTTGGCTTTGG ATGC	59.1	593	INTERGENIC	--	--	--
Ca4_P3_37131327	Ca4	37131327	TAA/TAATAGTTTAAAAA	CAACTCAAACACCTTC ATTCA	AATTTGCGAGCATTAC CTGC	60.0	633	INTERGENIC	--	--	--
Ca4_P3_37173541	Ca4	37173541	ATTTTT/ATTTT	TTTGGTGTAGGAGGAG GTCG	AAGGAGTTGTCGTGGA TTGG	60.1	665	DRR	Ca_15153	A	bHLH
Ca4_P3_37199729	Ca4	37199729	GG/GGTCG	GGCGACACTTCAATCC CTAA	AGGCCTTTTTCATTG GTCA	60.1	492	INTERGENIC	--	--	--
Ca4_P3_37199973	Ca4	37199973	GCC/GCCC	GGCGACACTTCAATCC CTAA	AATGCAAATTTATCAA ATGCAAA	60.1	940	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
Ca4_P3_37218174	Ca4	37218174	TTC/T	AATTCAAACAGCGCAAT GAA	TTATTTTCCCAACATC GGC	59.3	893	INTERGENIC	--	--	--
Ca4_P3_37221016	Ca4	37221016	A/AG	TGGTTGTCGACTTGTC TTGC	ATGCGGTAGCTTTTGA TTGC	59.9	468	INTERGENIC	--	--	--
Ca4_P3_37223150	Ca4	37223150	TT/TTAT	ACCTAACATGGGATTG AGCG	ATTTTAAAGCACGCC ATTG	60.0	757	INTERGENIC	--	--	--
Ca4_P3_37225875	Ca4	37225875	T/TG	TCAAATTGGAGTGGA TGAA	TTTGAAGAATGTCACG GTGAAG	58.9	685	INTERGENIC	--	--	--
Ca4_P3_37233320	Ca4	37233320	ATTTTTTTTT/ATTTTTTTT	CAACCAAACCTCCGA CAAGA	TATGAAATGACGCAGG TGGA	60.3	436	INTERGENIC	--	--	--
Ca4_P3_37247959	Ca4	37247959	TAAA/TAAAA	CGAATTTTGTGTACCGA ATTTTT	AGGAGAAATGAACATC CACG	59.3	553	INTERGENIC	--	--	--
Ca4_P3_37249911	Ca4	37249911	GAAAAA/GAAAAA	TCGTCGATGAGATCAA ATATGC	GGCACAAAAAGAGCTGG TCAT	60.1	251	INTERGENIC	--	--	--
Ca4_P3_37283555	Ca4	37283555	GT/GTT	TGAATGAAATATTGGAT ACGTTTATGA	GCAGGGCATTGTCTC TAGC	59.9	530	INTERGENIC	--	--	--
Ca4_P3_37283825	Ca4	37283825	T/TTTTAACA	TGCAACCTTTTGTATCT AGCA	GCAGGGCATTGTCTC TAGC	58.6	196	INTERGENIC	--	--	--
Ca4_P3_37302615	Ca4	37302615	TAAAA/TAAA	CATTGAGCCTGTTTCA CCA	TCCTTGCTTTAAAGG GGGT	59.7	667	DRR	Ca_15145	J	--

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 (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
Ca4_P3_37303497	Ca4	37303497	ATTTTT/ATTTT	CAGTCGAAATACCAGC CCAT	TTTCATTGCGGGACAT ACAA	60.0	113	INTRON	Ca_15145	J	--
Ca4_P3_37306375	Ca4	37306375	C/CCT	TCAATGAAGTCCCACG TGAA	TGCAGTCGAAACCAA AGTG	60.1	381	INTERGENIC	--	--	--
Ca4_P3_37312922	Ca4	37312922	GAAAAA/GAAAAAA	AATGCATGCAGTTCAAT TCG	TTATAAAACCTCCTCC ACAAAA	59.7	436	DRR	Ca_15144	O	--
Ca4_P3_37313817	Ca4	37313817	CTTTT/CTTTT	CCTTCTCAAGATCGCCT TTG	CCTTGCAACCATCATT TTCA	59.9	445	DRR	Ca_15144	O	--
Ca4_P3_37331887	Ca4	37331887	CAA/CAAAA	TGACCGACGACTACAA TTTCA	AATGGATCACAAAAAT CATGTGT	59.2	782	INTERGENIC	--	--	--
Ca4_P3_37333057	Ca4	37333057	CTTATT/CTT	TCTGTAATCGGTTTGG GCTC	CAATTCGTTCAAGTTC GGGT	60.1	905	INTERGENIC	--	--	--
Ca4_P3_37339630	Ca4	37339630	AC/ACC	TTGGGTCTTGCAAAGG AATC	TGCCATTGTGTGCAGG TATT	60.1	317	INTRON	Ca_15142	--	--
Ca4_P3_37345139	Ca4	37345139	TAA/TAAA	TTTGCTTTTAGGACTTG CACC	TGGACTCTGCAGAAA CACG	59.4	754	INTERGENIC	--	--	--
Ca4_P3_37346206	Ca4	37346206	TTTTATTTATTTATTT/TTTTATTTATTTA TTTTATT	GCCCCAACGTGAACAT TATT	TCAATAATGCTGCCAT CCAA	59.7	208	INTERGENIC	--	--	--
Ca4_P3_37362171	Ca4	37362171	GTTGT/GTTGTTTGT	CCATTGGTTTTTGCTTC GTT	CCACGCCTGGAGTTTA TTGT	60.0	947	INTRON	Ca_15140	S	--

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
Ca4_P3_37366698	Ca4	37366698	AAA/AAACCA	TTACCTCTGTTGCTTT GCC	ACCATGGACACCGTTT GTTT	60.2	430	DRR	Ca_15139	R	NF-YA
Ca4_P3_37377123	Ca4	37377123	TTA/TTATA	CCTTTTAGCTAATTGAT CGGAGA	ATATCGGGGGAGAAA TGAG	59.0	682	INTERGENIC	--	--	--
Ca4_P3_37385575	Ca4	37385575	TTT/TTTAATT	AAGCCTAGGACAACCT GCAA	CATGTGACCAATCCA ATCG	59.9	448	DRR	Ca_15138	T	HSF
Ca4_P3_37391739	Ca4	37391739	T/TC	TTGCTAGTTGCTGATGT GGC	TGGCAAATGTCACAAG GTGT	60.0	269	INTERGENIC	--	--	--
Ca4_P3_37397649	Ca4	37397649	AC/ACAATC	AATGAGGAACCAATGG TGGA	GCTTATGCATGCCCTT CATT	60.2	233	DRR	Ca_15137	R	MYB
Ca4_P3_37403650	Ca4	37403650	CTTTT/CTTTTT	CTTATCCAAAAGCGAG GCAC	TGAGTTGGACTACAAG CCATCA	59.8	597	INTERGENIC	--	--	--
Ca4_P3_37404660	Ca4	37404660	TAAAAA/TAAAAAAA	CGTTAAGGGTGAATT GGCTG	TGATGGACCCAAGCAT TTTT	59.5	702	INTERGENIC	--	--	--
Ca4_P3_37409343	Ca4	37409343	ATTTTTT/ATTTTTTT	TGAGGCAGTTTGAACA GTCG	ACCCGATTATCATGGA GCAA	60.0	347	DRR	Ca_15136	--	--
Ca4_P3_37417887	Ca4	37417887	TTT/TTTACCTT	AACCCGACCCGAAAT AAAC	ATTCTCCGGTACGGAC TCCT	60.1	338	INTRON	Ca_15135	--	--
Ca4_P3_37423475	Ca4	37423475	T/TGATTG	CATTGACCCAATTCATG CTG	TTATTGAGGGTGGATG GGAA	59.9	483	INTRON	Ca_15134	T	--

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
Ca4_P3_37443931	Ca4	37443931	CT/CTAT	CCGCATTTTCTTCATTA GGG	ACGTTAAGGCATGAGT TGGG	59.5	364	INTERGENIC	--	--	--
Ca4_P3_37455037	Ca4	37455037	AC/A	TTTTGATAGAGCCCAAT GGC	CAGCCTGATGAACAAA CCAA	60.0	282	INTRON	Ca_15130	S	--
Ca4_P3_37475806	Ca4	37475806	ATTTT/ATTT	TTCTATGGCTGCCGTT CTCT	GTCAAATTTCCCGTCC AAAA	60.0	557	INTERGENIC	--	--	--
Ca4_P3_37483206	Ca4	37483206	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AAAA	AAATTGGGTGATGTGG TGGT	CCTAGAAGATGAGGGT GCCA	60.0	424	INTERGENIC	--	--	--
Ca4_P3_37483889	Ca4	37483889	CA/CAA	TGGCACCTCATCTTCT AGG	TGCTTGGTTTAAGGGT TTGG	60.2	734	INTERGENIC	--	--	--
Ca4_P3_37490253	Ca4	37490253	TNNNNNNNNN/TNNNNN	TCTATGCGCTGATTCA GACAA	AACATCCCCATCAATT CATCA	59.6	799	INTERGENIC	--	--	--
Ca4_P3_37502468	Ca4	37502468	ATTTT/ATTTTT	GCAAGTTATTGGTCCA GCGT	AAAAGGGTCATTTGG TTCC	60.1	577	DRR	Ca_15128	--	--
Ca4_P3_37508480	Ca4	37508480	ATTTTTT/ATTTTTTT	CCACCATTATAAGGATG CGA	GCCAAAACGGAGAAGA AACA	58.5	513	INTERGENIC	--	--	--
Ca4_P3_37519504	Ca4	37519504	CTATTTATTTATTTATTT/CTATTT ATTTATTTATTT	GAAAAGGAGTTGCCA CCAA	TGGGGATACGTAGGAG CAAG	60.1	306	INTERGENIC	--	--	--
Ca4_P3_37542772	Ca4	37542772	TGGGGG/TG	AATTGAAGTACCCGCA CCTG	CAATCCAACGTGTC CCAT	60.0	693	INTRON	Ca_15126	--	--

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 (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
Ca4_P3_37554271	Ca4	37554271	TAT	AGTGGCTCAAACAAGG GATG	CTTCTTGTGCAAGGT GCAA	60.1	450	INTRON	Ca_15125	K	MYB_related
Ca4_P3_37607126	Ca4	37607126	T/TATTA	TTTCCTACAGCAAAG CATC	GCTGATTGGTGTGACA GGAC	59.4	454	INTERGENIC	--	--	--
Ca4_P3_37608001	Ca4	37608001	ACTCTCTCTCTCTC/ACTCTCTCTCTCTCTC	TTGGATTCTGACACAC ACA	TAAAAATTGGAGGGA GGGG	58.4	568	INTERGENIC	--	--	--
Ca4_P3_37609204	Ca4	37609204	GTGCT/GT	CGTGTCTGATGTCCA ACAC	AGCGCTGTAGCCGTTA TTTG	60.0	510	INTRON	Ca_15121	--	ERF
Ca4_P3_37619516	Ca4	37619516	A/AAG	TCTGGATGGTGACGAA ATGA	ACTCTACTCCGTCCT CTCA	60.0	613	INTERGENIC	--	--	--
Ca4_P3_37633640	Ca4	37633640	AAAGAA/AAA	TATCCGTTTGTCGCTT TTC	GAGCACTGGGCTTTT CAAG	60.1	844	DRR	Ca_15118	--	--
Ca4_P3_37646806	Ca4	37646806	C/CAA	GCTCTGGTGGGTGATT TGTT	ATGTTCCGTTGGAAAG CATC	60.0	641	INTRON	Ca_15117	T	LBD
Ca4_P3_37652154	Ca4	37652154	TTAGTA/TTA	ACCACGCCACAACAAG TGTA	GAGGGAACGTCCAAT GCTA	60.1	620	DRR	Ca_15115	T	TALE
Ca4_P3_37671559	Ca4	37671559	CAA/CA	TTTCCACCCAGAAAGC AATC	GCAAAACAGAGGCAAC ATCA	60.1	250	INTERGENIC	--	--	--
Ca4_P3_37678492	Ca4	37678492	TAAGAAGAA/TAAGAAGAAGAA	TGGAACATTTGAAGCA CCCT	ATTCTGGAGCCACAGA CCAC	60.5	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 (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
Ca4_P3_37683070	Ca4	37683070	ATTT/ATTTTT	CATTGATTCTTGCCATG CAG	AATGCGAAGGGTTGAG ATTG	60.2	630	INTERGENIC	--	--	--
Ca4_P3_37683443	Ca4	37683443	CGTCAGTGTCAAGT/CGTCAGT	CAATCTCAACCCCTTCGC ATT	ACAAGGCCACATTGTC ATCA	60.1	652	INTRON	Ca_15113	S	--
Ca4_P3_37683526	Ca4	37683526	CTTTTTTTTT/CTTTT	CAATCTCAACCCCTTCGC ATT	ACAAGGCCACATTGTC ATCA	60.1	652	INTRON	Ca_15113	S	--
Ca4_P3_37688244	Ca4	37688244	GTATTAA/GTATTAAATTATTAA	TTTAAAGTCCCCATCAC CCA	CCGAGCCTTACAAGGA CAAC	60.2	684	INTRON	Ca_15113	S	--
Ca4_P3_37688621	Ca4	37688621	ATCTTCTTC/ATCTTC	GGATTTCCTGTGAGCT GCAT	AGAATTGGAATGCCTG AACG	60.2	492	INTRON	Ca_15113	S	--
Ca4_P3_37696707	Ca4	37696707	TA/TATAGACATAA	AATGTTTTTGGTAATCC CGGT	AACATTGGTGGTGCAA GACA	59.5	607	INTERGENIC	--	--	--
Ca4_P3_37701270	Ca4	37701270	TG/TGG	GTCCAATGACTCCAA CTCC	TCCAATTAATGCGGTG TTCA	59.4	246	DRR	Ca_15111	F	--
Ca4_P3_37701400	Ca4	37701400	ATTTTTTTTT/ATTTTTTTTTT	TGAACACCGCATTAAAT GGA	GGGTTTTTGTTCGAAG ATTTTG	59.9	262	DRR	Ca_15111	F	--
Ca4_P3_37703548	Ca4	37703548	TT/TTAT	AACCACTCAGCACCGT TTTC	CCAACAGACCTTCCCC ACTA	60.2	239	INTERGENIC	--	--	--
Ca4_P3_37703661	Ca4	37703661	T/TA	AACCACTCAGCACCGT TTTC	CCAACAGACCTTCCCC ACTA	60.2	239	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
Ca4_P3_37703958	Ca4	37703958	C/CAAG	TAGTGGGGAAGGTCTG TTGG	TGTTGCTGCGTCTTGA AATC	60.0	733	INTERGENIC	--	--	--
Ca4_P3_37704228	Ca4	37704228	T/TG	AGGAGGGATCAAACCG AACT	TGTTGCTGCGTCTTGA AATC	59.9	472	INTERGENIC	--	--	--
Ca4_P3_37705943	Ca4	37705943	GA/GATAA	GCCGGGATGTTCTTTT TGTA	TTTACTGAATGCCATG CTGC	59.9	679	DRR	Ca_15110	C	MYB
Ca4_P3_37706000	Ca4	37706000	GCC/GCCTTAACC	GCCGGGATGTTCTTTT TGTA	TTTACTGAATGCCATG CTGC	59.9	679	DRR	Ca_15110	C	MYB
Ca4_P3_37706092	Ca4	37706092	TC/T	GCCGGGATGTTCTTTT TGTA	GAGGGGAGGCCTTCT CATAC	59.9	818	DRR	Ca_15110	C	MYB
Ca4_P3_37706158	Ca4	37706158	G/GA	GCCGGGATGTTCTTTT TGTA	GAGGGGAGGCCTTCT CATAC	59.9	818	DRR	Ca_15110	C	MYB
Ca4_P3_37707068	Ca4	37707068	C/CTGGCAAGGAGCTACT	TGAGGCCTTAGCTTCG TGAT	CACAAGGACCTGACGG TTTT	60.0	555	INTERGENIC	--	--	--
Ca4_P3_37707688	Ca4	37707688	T/TTC	AAAACCGTCAGGTCCT TG TG	TGAGCGTTTTCTCGGT CTTT	60.0	386	INTERGENIC	--	--	--
Ca4_P3_37709272	Ca4	37709272	CCT/CCTTTCT	GTCTATCGGAGAGCCA GTCG	CCCTTCACCTCTTTCA CCAA	60.0	109	INTERGENIC	--	--	--
Ca4_P3_37710905	Ca4	37710905	TGAGAGAG/TGAGAG	ACGTGTTGAGCTAAC CTGC	TGTGAGTTTGTTCGA AGAGC	60.3	854	INTRON	Ca_15109	--	--

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 (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
Ca4_P3_37712217	Ca4	37712217	GATATATATATATATATATATATATA TA/GATATATATATATATATATATATA TA	ACCGTTTGCTGCTTAAT GCT	TTAAATTTGGCCCTCC AATG	59.9	600	INTRON	Ca_15109	--	--
Ca4_P3_37716531	Ca4	37716531	ATG/A	TGCATAGATCCCATTC CCT	TTTACCTCACATTGGC CTCC	59.3	344	DRR	Ca_15109	--	--
Ca4_P3_37721837	Ca4	37721837	CT/CTGT	TACACGTCAAAGGCAA GTGG	GGGGAAGAGTGGCAT ATTCA	59.8	978	DRR	Ca_15108	R	NAC
Ca4_P3_37729255	Ca4	37729255	T/TG	TCAATGCACAAAACGT GGTT	GAGGCGCATCTAGCT TATG	60.0	794	INTERGENIC	--	--	--
Ca4_P3_37746382	Ca4	37746382	GTTTTT/GTTTT	TTGCAATAGGCATAGG ACCC	TTGTTTCTCCCAAGTT TGG	59.9	448	INTERGENIC	--	--	--
Ca4_P3_37769216	Ca4	37769216	TAA/TA	GGAAGTACGTGGAGGT GGAA	GAGACGAGGTGAACG GAGAG	60.0	441	INTERGENIC	--	--	--
Ca4_P3_37784787	Ca4	37784787	TAA/TAAA	CAAACGTGGTGTTTCA TAGCA	TCTCCACGTTTCCATC TTCC	59.8	836	INTERGENIC	--	--	--
Ca4_P3_3781804	Ca4	3781804	CATATTTTTTGTCAATATATTTTTTG TCAAT/CATATTTTTTGTCAATATATT TTTTGTCAATATATTTTTTGTCAAT	TGGTTGTGCGATATTG TGCT	TCAATGCATTTTCGAC ATTTTT	60.1	749	INTERGENIC	--	--	--
Ca4_P3_37824259	Ca4	37824259	CTAATCTTAGGAGATAATCT/CTAATCT	TTGCCAATTTTGTTCAG CAG	AAAGCTTAGGGCCCTT TTGA	59.8	696	INTERGENIC	--	--	--
Ca4_P3_37855733	Ca4	37855733	CTATAATTATATATAAATTATATA/CTA TAATTATATA	CGGTTCTGAAGCTTTGA TGTT	TTTGAATTGTATTGTGT TTAATCGAA	60.2	605	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
Ca4_P3_37859268	Ca4	37859268	AATT/AATTAGATT	CAAACGTGCCAGCTT CGTA	TGCCCTAGCTATTGCC AAAC	60.1	693	INTRON	Ca_15089	--	--
Ca4_P3_37860226	Ca4	37860226	TAAAAA/TAAAAA	TTTCATGGAGTGAAGG GAGG	CCAAGACCAGCATCAG ACAA	60.0	502	INTRON	Ca_15089	--	--
Ca4_P3_37860521	Ca4	37860521	CTTA/CTTAATTA	TGGTCCCTTGTTCCTT TTAG	AATGGACGGCTATGAG TTGC	60.1	739	INTRON	Ca_15089	--	--
Ca4_P3_37861985	Ca4	37861985	C/CAA	CTCCGTGGTACCCCTCC TACA	ACAATCCCTTGTGGAA GTGC	60.0	663	INTRON	Ca_15089	--	--
Ca4_P3_37866708	Ca4	37866708	TATAATAATAATAATAATAA/TATAA TAATAATAATAATAATAATAA	TCTTGAATTTGGGTGCA TTTC	GGTTGCTTTGAGACGG ATGT	59.9	687	INTERGENIC	--	--	--
Ca4_P3_37866908	Ca4	37866908	ATTTTT/ATTT	CAAAGCCATGGTTTCC CTTA	TTTCATCATAATGGAGT ACGGA	59.9	219	INTERGENIC	--	--	--
Ca4_P3_37871651	Ca4	37871651	ATTTTT/ATTTTT	ACCCTACCCATTGTCAA CCA	TGGATGGTTATGATT GCTGA	60.1	668	INTERGENIC	--	--	--
Ca4_P3_37877856	Ca4	37877856	ATTT/ATT	CGGGCCACATTCAAAC TACT	GCATTGGAATGCACTC ATCTT	60.0	476	INTERGENIC	--	--	--
Ca4_P3_37896451	Ca4	37896451	TG/T	TCATTGTGCTTGAGTT TGC	CACGGAAGAAGCAAGG AAAA	59.8	123	INTERGENIC	--	--	--
Ca4_P3_37909050	Ca4	37909050	GTTTTTTT/GTTTTTTTTT	TGCATTTTAGGTCCATG ATGA	ATTTGACCACCGAAAG ATGC	59.0	190	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
Ca4_P3_37919621	Ca4	37919621	TTTTTTT/TCAAAATTAATTTTT	CACACTTCAACTTAAG GGGTTG	ACAGGGGTGATGAGG ACAAG	59.9	573	INTERGENIC	--	--	--
Ca4_P3_37933855	Ca4	37933855	TATAATAATAAT/TATAATAATAATA ATAAT	CAATTGGCCGACATAC ACAC	GGGCAAACAGTCAAAG GAAA	59.8	494	DRR	Ca_15084	--	--
Ca4_P3_37935122	Ca4	37935122	CTTATTATTA/CTTATTA	TTTTGAAAGAAACAATC ATGCAG	GGTGGGATTGTGAAAT GGAC	59.3	731	DRR	Ca_15084	--	--
Ca4_P3_37936676	Ca4	37936676	CATATAT/CAT	CAACGTTTTCCAGTCA CCT	TTGGTCCAGCATCATT TTCA	60.0	613	INTRON	Ca_15084	--	--
Ca4_P3_37937708	Ca4	37937708	GTTT/GTTTT	CAAAGAGGTTGAAAC AAGGAGA	TGCCCGCTCTGAAAT TAAC	59.8	416	INTRON	Ca_15084	--	--
Ca4_P3_37939769	Ca4	37939769	TT/TTATTATTAT	ATGGGGGCTTATCGAA GAGT	GGGCTTGTGAAATGGA CCTA	59.9	729	INTRON	Ca_15084	--	--
Ca4_P3_37977728	Ca4	37977728	CGTGGTGGT/CGTGGT	GTTCCCACTTGTGTG CCTT	TGCATTTCATCACAGA CATTGA	60.0	543	INTERGENIC	--	--	--
Ca4_P3_37978815	Ca4	37978815	ATTCTATTCTTC	CAAACACGCCCTTACC ACTT	TGGTGATCGGAACTG ATGA	60.0	112	CDS (large-effect mutations)	Ca_13148	--	--
Ca4_P3_37980637	Ca4	37980637	A/AAT	GCTATGTCGCCACAAT CCTC	GGCAAAGCAATAATGG AAGC	60.6	652	DRR	Ca_13148	--	--
Ca4_P3_37989769	Ca4	37989769	C/CA	AAACAAACCGATCCTTA ATCTCC	TCAATTACCAAAAGGG CCAG	59.7	454	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
Ca4_P3_37990861	Ca4	37990861	ATTTTTTTT/ATTTTTTTTT	TCCATCGAGGAAAACG AATC	AAACGAGAAAAACGCA TTGG	60.0	666	INTERGENIC	--	--	--
Ca4_P3_38017794	Ca4	38017794	TTATAT/TTATATAT	ACAACCTTCTCATGCTCG CAA	GCGAAGGGAACATGT CATT	59.6	503	DRR	Ca_13143	E	--
Ca4_P3_38021208	Ca4	38021208	TA/TAAAAA	AAGATTGATTTTCATGG ATTGACA	TTGGTGGATGTGAGGA AACA	59.7	584	INTRON	Ca_13143	E	--
Ca4_P3_38028818	Ca4	38028818	T/TG	ACTCAACCCACAAAA GAG	GTTGAAATCCTGCCAC CACT	60.0	584	INTRON	Ca_13142	O	ERF
Ca4_P3_38046129	Ca4	38046129	TCA/TCACA	GGGAGGAAGGTGTCTT TGGT	TGGGTCCAAAAATTTT CAATG	60.3	358	INTERGENIC	--	--	--
Ca4_P3_38049243	Ca4	38049243	CAAA/CAAAA	GAGAGGACCACCTCT TTCC	TCACTCCGCTGCATGT CTAC	60.1	573	INTERGENIC	--	--	--
Ca4_P3_38064052	Ca4	38064052	T/TA	AAAGCTTCATCCTTCCA ACG	TGTGCGATTAGAAACA CTACCAA	59.3	351	INTERGENIC	--	--	--
Ca4_P3_38076613	Ca4	38076613	GTTTTTTT/GTTTTTTTTT	CGAAATTGCTGGTGGC TACT	GGGCATACAACTGTGC TTCA	60.3	720	INTERGENIC	--	--	--
Ca4_P3_38077899	Ca4	38077899	ATAATTAATTAAT/ATAATTAAT	AATGCTTTTGGTGGTCT TGG	CATAAGAGCGAGGTGC AACA	60.0	331	INTERGENIC	--	--	--
Ca4_P3_38085487	Ca4	38085487	AT/A	TCCCCTTCTTACGAAT CCC	CACTTGAAGAGGGCA ACAT	60.3	476	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 (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
Ca4_P3_38118268	Ca4	38118268	CAT/CATAT	GCCTTCAAACCAAGAA CCA	CGTTTGTTGCTATGAA ACCG	60.1	447	INTERGENIC	--	--	--
Ca4_P3_38120410	Ca4	38120410	AG/A	AAACCTGAACCACTACC CCA	CACTTCGCTCTCCAGA CTCC	59.3	460	INTERGENIC	--	--	--
Ca4_P3_38121246	Ca4	38121246	ATTTTTTT/ATTTTTT	TGAGCCATGGGACAAT TATG	AGATCCTTTTACAACG GCCC	59.4	583	INTERGENIC	--	--	--
Ca4_P3_38129704	Ca4	38129704	AATTATATATATTA/AATTA	AGTTATGGGTCCCAAT GCAC	TTGCCTTCTTATAGGC CCAA	59.7	433	INTERGENIC	--	--	--
Ca4_P3_38129851	Ca4	38129851	GAAAAAAAA/GAAAAAAAAA	AGTTATGGGTCCCAAT GCAC	GCCCCTTGCTCATTTT ATCA	59.7	595	INTERGENIC	--	--	--
Ca4_P3_38132858	Ca4	38132858	GTTTT/GTTTTT	CGTTAGACAAGTTGGC TGCTT	TTGTCTTGTCGTCGCA TTTC	59.6	173	INTRON	Ca_13139	--	ERF
Ca4_P3_38140746	Ca4	38140746	AGAGAT/A	GGTGGTGTTTTTCCCA GTTG	TGAAGCACACGCCTA TCTG	60.2	775	INTERGENIC	--	--	--
Ca4_P3_38170210	Ca4	38170210	TAAAA/TAAA	AGCTTTGCAGGACAAG ATCG	ATTGCAACCAACCAC ATCA	60.5	710	INTERGENIC	--	--	--
Ca4_P3_38170494	Ca4	38170494	TTG/T	TCTTTTGACCCTCTTTG TTGAGA	AAATACTGATTGCAAC CAAACC	60.3	434	INTERGENIC	--	--	--
Ca4_P3_38197317	Ca4	38197317	GAATAATAATAATAATAA/GAATAA AATAATAATAA	ATATGTCCAGGTGCAC GACA	TTCTTCAATGGTGGGC TTTC	60.0	559	INTRON	Ca_13134	GE	HB-other

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
Ca4_P3_38200388	Ca4	38200388	T/TA	ACATGGAGCGTTTGTG TGAA	TCTTGGGATCACCAAC CAAT	60.2	590	INTERGENIC	--	--	--
Ca4_P3_38200490	Ca4	38200490	GTTTTTTT/GTTTTTTTTTTTTT	ACATGGAGCGTTTGTG TGAA	TCTTGGGATCACCAAC CAAT	60.2	590	INTERGENIC	--	--	--
Ca4_P3_38231337	Ca4	38231337	AC/A	GGCCATCAGAGAATCT TCCA	TGCACTTTGGGAACA ACAA	60.2	580	INTRON	Ca_13131	--	--
Ca4_P3_38237743	Ca4	38237743	CTTTTTTT/CTTTTTTTTTTTTT	CTCCATAGCCACAACAA GCA	TCCACAGGTTGCAATC ACAT	59.9	604	INTRON	Ca_13131	--	--
Ca4_P3_38239017	Ca4	38239017	TAAAAA/TAAAAAA	CGGCTCGGGTATCAGA TTTA	TATTTGCAACCTTGAT GCCA	60.1	693	INTRON	Ca_13131	--	--
Ca4_P3_38240819	Ca4	38240819	ACCC/ACC	CTGGTGAAACTCCGTA TCCAA	TTGGATGTGCACGATG TTTT	60.0	258	INTRON	Ca_13131	--	--
Ca4_P3_38248300	Ca4	38248300	T/TTG	CGGAACCGAAATCGAA AATA	TTGAAACCAAAGCCAT CCTC	59.9	515	INTERGENIC	--	--	--
Ca4_P3_38294135	Ca4	38294135	A/AAT	AGATTTTGTTGCTGAAT GATGG	CAGGTCGCTGGATTCA AAGT	59.1	946	DRR	Ca_13127	--	--
Ca4_P3_38311578	Ca4	38311578	C/CTAGTAT	CGAGCAATAGGAGGCT GTTC	GGCACTTCAAAAAGAG GTGG	60.0	550	INTERGENIC	--	--	--
Ca4_P3_38318785	Ca4	38318785	ATTTTT/ATTTTTT	TGAATTAGGGTGGTTT GTTTAAGA	TCATTCTTTCACATTGA ATTGCT	59.0	832	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 (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
Ca4_P3_38321094	Ca4	38321094	GAAAAA/GAAAA	TCCTATGGTCGTAGGT GGCT	AGGAAAATGCAGGACC ACAC	59.6	935	INTRON	Ca_13122	C	bHLH
Ca4_P3_3833618	Ca4	3833618	T/TGACAGGATAG	GCCCAGATTTCCACAA CAGT	CAACCCATTCTTCATT GCT	60.0	919	INTERGENIC	--	--	--
Ca4_P3_38367094	Ca4	38367094	T/TAGATTGGAA	TCGTTTAGCGGTGAAA CTCA	CAAGCTCTTGCCATGT TTGA	59.5	158	DRR	Ca_13120	S	--
Ca4_P3_38368647	Ca4	38368647	A/ATTCTACTTTCAATT	TATGGTTGGATTTCCG CTC	TTGTCTTCCCGTTTA GTGG	59.9	751	INTERGENIC	--	--	--
Ca4_P3_38377327	Ca4	38377327	TTT/TTGAATT	TGATTGTGATGCACCG TAAAA	AGCGAAAGTTCTTGGA GGGT	60.0	470	INTERGENIC	--	--	--
Ca4_P3_38435446	Ca4	38435446	ATT/ATTT	AGCGACATTAACCAAC GACC	CAATTTCCCATCCAAT ACG	60.0	479	INTERGENIC	--	--	--
Ca4_P3_38438657	Ca4	38438657	TAATAAAAA/TAATAAAAAATAAAAA	TGGCACAAAAACGGT ACAA	TGTCCTTTTGCAACTTC ATCA	60.0	516	INTERGENIC	--	--	--
Ca4_P3_38450725	Ca4	38450725	AGT/AGTGT	GCCATGTCATTTCTGAC CCT	TTTCTGTTGATGCCTG CTTG	59.9	644	INTRON	Ca_13113	O	--
Ca4_P3_38457252	Ca4	38457252	CTGTGT/CTGT	CGATCACCAAGTCCCC TAAA	CCACTCCCTCCAATCT TCAA	59.9	344	INTERGENIC	--	--	--
Ca4_P3_38466655	Ca4	38466655	CT/CTT	CACCAATCGATGCAAA TGA	TCACAATGGTTCCTCA TCCA	60.1	627	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
Ca4_P3_38479454	Ca4	38479454	CAAAA/CAAA	GGTGGGATCCATTGAGTTG	CCGAAGGCTTTCTTCAACAG	60.2	676	INTERGENIC	--	--	--
Ca4_P3_38480745	Ca4	38480745	TGG/TG	GTGGAGCTTCTTTGGGTGAC	ATCACCACCGAAAACTTGG	59.7	844	INTERGENIC	--	--	--
Ca4_P3_38482887	Ca4	38482887	CAAAA/CAAAA	CAAAATGAGAGCGTTAAGGCAG	TGTCCTTCAATTCATTTCAA	60.0	501	INTERGENIC	--	--	--
Ca4_P3_38482961	Ca4	38482961	A/A	TTGGAAATGAAATTGAAGGACA	TTGTTGATTCTAACCTTGCTCA	59.4	193	INTERGENIC	--	--	--
Ca4_P3_38483484	Ca4	38483484	AATA/AATATATA	TGAGCAAGGTTAGAAATCAACAA	ACCATTGGTTTCCTTGCAC	58.9	470	INTERGENIC	--	--	--
Ca4_P3_38483773	Ca4	38483773	TAGAGAGAGAAA/TAGAGAGAGAAAGAGAGAGAGAAA	CAGTGTGCAAGGAAACCA	TCCAGAAGCAGCAAAGATGA	59.7	405	INTERGENIC	--	--	--
Ca4_P3_38484063	Ca4	38484063	TAGA/TA	TCATCTTTGCTGCTTCTGGA	CTACCTCATGCTTGGCATCC	59.7	299	INTRON	Ca_13111	K	MIKC
Ca4_P3_38484127	Ca4	38484127	TTTATT/TTT	TCATCTTTGCTGCTTCTGGA	CTACCTCATGCTTGGCATCC	59.7	299	INTRON	Ca_13111	K	MIKC
Ca4_P3_38484269	Ca4	38484269	ATTG/ATTGTTG	TCATCTTTGCTGCTTCTGGA	TGCCAGATCTGTTTCATGGAT	59.7	523	INTRON	Ca_13111	K	MIKC
Ca4_P3_38484662	Ca4	38484662	TA/TAA	GGATCCGATCTGCTCTCTTG	TCAACTTGCATGCCATCATT	59.9	239	INTRON	Ca_13111	K	MIKC

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PfII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_38484870	Ca4	38484870	CATATA/CATA	AATGATGGCATGCAAGTTGA	GCCTGTTTCTCCCGTAGT	60.1	268	INTRON	Ca_13111	K	MIKC
Ca4_P3_384893	Ca4	384893	AATATATATATATATATATATATATATATATATATAA/TATATATATATATATATATATATATATATATATATATA	CACACACAAC T GCGAC ATCTT	TCATGCTTGTTCTGGATTTCG	59.8	680	INTERGENIC	--	--	--
Ca4_P3_38495273	Ca4	38495273	ATTTTTGT TTTTT /ATTTTTT	GCACATGTGTGGTCCTCATC	TGTTGGTGTGGGTGATGTCT	60.0	680	INTERGENIC	--	--	--
Ca4_P3_38502864	Ca4	38502864	T/TA	AAGCGCAAAGAGATGGA AAA	TGAAC TTCAATTCG CAGC	60.0	889	INTRON	Ca_13110	G	--
Ca4_P3_38503644	Ca4	38503644	TTATATATATATAT/TTATATATATATATATATATATATATATATATATATAT	CGGCTTTGATGCATTGATAC	CCCCAACGTTTAGCCACTTA	59.1	506	INTRON	Ca_13110	G	--
Ca4_P3_38506244	Ca4	38506244	GCACC/G	AAAGGAGCAGTGACTG GCAT	AAAAGGGACGGAGG AGTAA	59.9	915	INTRON	Ca_13110	G	--
Ca4_P3_38508113	Ca4	38508113	TGGG/TGGGG	TGGGGTAGCTTCCGTCATAG	AAATTGGGGGAAATCA AAGG	60.1	549	INTRON	Ca_13110	G	--
Ca4_P3_38514954	Ca4	38514954	CAAA/CA	TGCCTACGTTTTTAGGCCAC	GGCCTGATGTTGCTTG GTAT	60.1	743	INTRON	Ca_13110	G	--
Ca4_P3_38523744	Ca4	38523744	ATTTTT/ATTTTTT	ACTTTGCGTTGGGAGA AAAA	CGTTCATTTTGAAACA GATTGG	59.7	601	INTRON	Ca_13110	G	--
Ca4_P3_38524170	Ca4	38524170	TG/T	CCAATCTGTTTCAAAT GAACG	GGTGTTAAGAGGAGT TGAAGTG	59.5	238	INTRON	Ca_13110	G	--

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
Ca4_P3_38536489	Ca4	38536489	GCAACAACA/GCAACA	GCATCCCTTCCAAC GTTA	TTCCAATCCATCCTCA CACA	59.9	818	DRR	Ca_13110	G	--
Ca4_P3_38545997	Ca4	38545997	ATTTTTTTTT/ATTTTTTTTT	CTCACGCGAGAAGTCA AGAA	GAGATTGGATAAAAAC ATCGCA	59.3	287	INTERGENIC	--	--	--
Ca4_P3_38558247	Ca4	38558247	ATTTTT/ATTTTTT	TGATGTGGAAATTTTG GCA	ATTTTCGAATGAACGG TTGC	59.9	705	INTERGENIC	--	--	--
Ca4_P3_38558416	Ca4	38558416	CAAAAAAAAA/CAAAAAAAAA	ACGCCGGAGTCATAAT GGTA	ATTTTCGAATGAACGG TTGC	60.4	583	INTERGENIC	--	--	--
Ca4_P3_38561994	Ca4	38561994	ATT/AT	GGACTGGACGTAACCC ACTG	GTTGTGGGCACTCTC TGAT	60.4	603	INTERGENIC	--	--	--
Ca4_P3_38563052	Ca4	38563052	T/TCA	ATTTCCCGCAGGAACG TAAT	GCAATCCATGCCTCCT AGTC	60.7	679	INTERGENIC	--	--	--
Ca4_P3_38564518	Ca4	38564518	T/TC	CGCTCAAATCCATTTTC ACC	TGTAGCATTGATGGG TTCAA	60.4	447	INTERGENIC	--	--	--
Ca4_P3_38567221	Ca4	38567221	GAATAAAA/GAA	GACAAAAATGAGAAAG ACCTGGA	AAATGCTGCCGAAGAA GCTA	59.6	824	INTERGENIC	--	--	--
Ca4_P3_38567924	Ca4	38567924	A/ATTAAGAG	TAGCTTCTTCGGCAGC ATTT	TGGCTTGCTTAAAGT CGAGA	60.1	316	INTERGENIC	--	--	--
Ca4_P3_38568495	Ca4	38568495	ATATT/ATATTATT	CGAAATTGACAAAATCA CAATCA	TGTCCATGAAGAAAGA GCCC	59.9	340	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
Ca4_P3_38573615	Ca4	38573615	GAATTGGAAATTGGAATTG/GAATTG GAAATTGGAAATTGGAATTG	CCGTTTGGTGTGAA AGGT	CCACGTGGCACTCATC TCTA	59.9	179	INTERGENIC	--	--	--
Ca4_P3_38573732	Ca4	38573732	ATTTTTTT/ATTTTTT	TGGGAATTGGAAATTG GAAA	ATCAACACGTTGGTT ACCG	60.1	219	INTERGENIC	--	--	--
Ca4_P3_38575831	Ca4	38575831	ATT/AT	TAACCCATCAGTCAGC CTCC	CATGCCACTTTTCCCA AATC	60.1	790	INTERGENIC	--	--	--
Ca4_P3_38578752	Ca4	38578752	ATTTTATATTTTTATATTTTT/ATTTTA TATTTTTT	AATCTCATTGCCTCGTT GCT	TGGAAGCACTCAAATC CACA	59.8	759	INTERGENIC	--	--	--
Ca4_P3_38588079	Ca4	38588079	GAAAAAAAA/GAAAAAAAA	GCTCACTCACATTAATC GCAACA	TCGATAATTTGATCTC TCCATCA	60.4	576	INTERGENIC	--	--	--
Ca4_P3_38618852	Ca4	38618852	CATAA/CA	GCCGACAGAGAAAATC CAAA	ATTGGGGAAGGCCTTG ATAA	60.2	532	INTERGENIC	--	--	--
Ca4_P3_38626236	Ca4	38626236	TCC/TCCCC	GGCTAAATTACATCTGC GGTC	GTTTCCCGAATTGGT CCTT	58.7	511	INTERGENIC	--	--	--
Ca4_P3_38626867	Ca4	38626867	TAATAAGAGTAAA/TAATAAGAGTAAAT AAGAGTAAA	AAGGACCAATTCGGGA AAAC	TCAAGAGATCGTGAA GCAA	60.2	707	INTERGENIC	--	--	--
Ca4_P3_38649950	Ca4	38649950	TAAAA/TAAAAAA	ACGCGGTAGCAGAAAA GATG	TGGAAGATCCTGTAC TTTTTGA	60.4	144	INTERGENIC	--	--	--
Ca4_P3_38656268	Ca4	38656268	AATATATATATATATATATA/AATATA TATATATATATA	TTGCTGCTTTCAGAAC CTT	GGGCTAAGTGCCCTT ATT	60.0	871	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 (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
Ca4_P3_38667296	Ca4	38667296	ATTTTCTAACACCTTTCTAA/ATTTCTAA	TGCTTGCATGTTAGGAGTGC	GCTTTGCCAGGCTTTATCTG	60.0	576	INTRON	Ca_13100	L	CPP
Ca4_P3_38684912	Ca4	38684912	TTGTGTAAACTCTG/TTG	AACCATGGGGCTATAGGCTT	GCTCAACACTTCGTCA TAGATTCA	59.8	487	INTERGENIC	--	--	--
Ca4_P3_38686412	Ca4	38686412	AA/AAGGTGGAAGA	AGGTCAAGCACCCACTTCAG	TTCACAATCTTCGGGTCTC	60.3	323	INTERGENIC	--	--	--
Ca4_P3_38705713	Ca4	38705713	ATTTTTTT/ATTTTTTTTT	TTGGGTACAACCTCCGT CACA	TCAAAATCTTCTTCAA TGCAA	60.0	715	INTERGENIC	--	--	--
Ca4_P3_38707255	Ca4	38707255	TG/TGCCGGTCCAAG	TGAACACCCCAATTTCCATT	TCGGTTTGAGTTAAGGTGGC	60.0	632	INTERGENIC	--	--	--
Ca4_P3_38708333	Ca4	38708333	GTTTT/GTTTTT	AATGCATGAAGCCACAACAC	TTCCAGCAGAGCCCA TAGT	59.6	404	INTERGENIC	--	--	--
Ca4_P3_38719493	Ca4	38719493	GAAA/GAAAA	TGTGCAATTTGCCAAAAGAA	TTCCACTTTCTCCCCCTTT	60.2	577	DRR	Ca_13098	GMW	NAC
Ca4_P3_38727283	Ca4	38727283	GAAAAAAAAA/GAAAAAAAA	GCTGATGGTGCAATTGTGTT	GCCTCACCGTGCACCTAAT	59.6	818	INTERGENIC	--	--	--
Ca4_P3_38728191	Ca4	38728191	A/AC	TCCATCTTCGTGTTCTTCCTC	TCGATTCACACCACTC GTGA	59.3	681	INTERGENIC	--	--	--
Ca4_P3_38729171	Ca4	38729171	TAC/T	AAAGGAGATGCTCCCCCTAA	CGTCACAATGACCTTCCCT	60.0	480	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 (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
Ca4_P3_38732253	Ca4	38732253	TATAAATAAATAAATAA/TATAAATAA TAAA	AATCTGGTTTGGTGCA AGG	GTTTGGGATTGTCAGG CTGT	60.0	458	INTERGENIC	--	--	--
Ca4_P3_38734850	Ca4	38734850	TAAAA/TAAAAA	GAGACCAATCTCATC CCCA	GCGAAATCGTGTGAAC CTCT	59.9	800	INTERGENIC	--	--	--
Ca4_P3_38734922	Ca4	38734922	CACACATAATATATACA/CACACATAAT ATATACACATAATATATACA	GAGACCAATCTCATC CCCA	GCGAAATCGTGTGAAC CTCT	59.9	800	INTERGENIC	--	--	--
Ca4_P3_38738477	Ca4	38738477	GTATAT/GTATATAT	TGGGGGAGTTCATAGG ATCA	TGGTGCGTTAAGATGT GGAA	60.3	216	INTERGENIC	--	--	--
Ca4_P3_38740713	Ca4	38740713	CAAAAA/CAAAA	ACAATTATTTACCTGC GGC	TTGAGGAAAAGAACCG TTGG	60.0	422	INTERGENIC	--	--	--
Ca4_P3_38741986	Ca4	38741986	TAATT/TAATTAATAAATAAATT	GCCATAAACACAACCCT TTCT	AAATACGAGCAAACAA AAACAAA	58.1	680	INTERGENIC	--	--	--
Ca4_P3_38744817	Ca4	38744817	CAAAAA/CAAAA	GAAGCACCATCGACCA CTTT	TGGTGCCACTAGGTGT ATTGA	60.1	194	INTERGENIC	--	--	--
Ca4_P3_38758073	Ca4	38758073	GTTTTT/GTTT	TAGACAGGTTGGTCCC TCCC	ACCGTACAATCAAACC GCTC	61.3	840	INTRON	Ca_13097	--	--
Ca4_P3_38758645	Ca4	38758645	AAA/AAACAA	GAGCGGTTTGATTGTA CGGT	AACATTGCCATTCCAA GACC	60.0	514	INTRON	Ca_13097	--	--
Ca4_P3_38766114	Ca4	38766114	AA/AAAAAAAAATATATATA	ACCGACAGCATCCTCA ATCT	CGCCAATTTAAACCA CGAT	59.7	677	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
Ca4_P3_38773383	Ca4	38773383	TAAAAA/TAAAAAA	CGGTTGAGTCATATTG GTTG	ATTTGGGAAACCGACA CTTG	60.4	591	INTERGENIC	--	--	--
Ca4_P3_38813013	Ca4	38813013	AC/A	TGGAATTCGAGAGGAT GACC	TGCCATCCAGTTTCA TTTG	60.0	519	INTERGENIC	--	--	--
Ca4_P3_38816584	Ca4	38816584	AATTTATATTTA/AATTTATATTTATATT TA	ATGCCTTTACATGCACA AAAT	GCAAATATTGTCTGCC AAAAGTG	57.2	724	DRR	Ca_13093	K	NF-YB
Ca4_P3_38823148	Ca4	38823148	CTTTTTTT/CTTTTTTTTTTT	TTGGATATTCATTGCAT CATCTAGT	GCATTGAGAATTGTCT TCCACA	59.0	888	INTERGENIC	--	--	--
Ca4_P3_38826268	Ca4	38826268	AT/ATTTT	CCCTTGTCATCTTTGTT GGC	TTGGCGTTGGACTGAT GTTA	60.5	156	INTERGENIC	--	--	--
Ca4_P3_38829588	Ca4	38829588	CATTATTATTATTATTATTATTATTATT TTATTATTATTATTATT/CATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATT	TGTGTGGTCATTGGAA TCACCT	TGAGAAGAGTTGTGGC GTTG	60.3	920	INTERGENIC	--	--	--
Ca4_P3_38829902	Ca4	38829902	GTT/GTTT	ACTAAGGAGAATTGGG CCGT	TGAGAAGAGTTGTGGC GTTG	60.0	245	INTERGENIC	--	--	--
Ca4_P3_38832483	Ca4	38832483	AAAGA/AAAGAAGA	CCCTTGACTCCGTTT ATCA	TCTTCCCAGTGTTC CATC	59.9	263	DRR	Ca_13091	S	--
Ca4_P3_38832626	Ca4	38832626	CAAA/CAA	CCCTTGACTCCGTTT ATCA	CATCGGTCGATTCCAT ATCC	59.9	795	DRR	Ca_13092	J	--
Ca4_P3_38883985	Ca4	38883985	ATAATT/ATAATTAATT	CCTCAAATTAATCATGT GTCGATT	AAACTACACCATGACC ACCCA	59.3	592	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 (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
Ca4_P3_38916952	Ca4	38916952	TAAAAA/TAAAAA	ATCCGTCGAGTCAAAA CACC	GCTATTAGAGAGGTCG GCCC	60.0	572	INTERGENIC	--	--	--
Ca4_P3_38917638	Ca4	38917638	CAAA/CAA	GGGCCGACCTCTCTAA TAGC	TGATGTTGCAATGGAC GTTT	60.2	535	INTERGENIC	--	--	--
Ca4_P3_38925649	Ca4	38925649	ATTA/ATTAATAATATACAATTTA	GAGTATGTGCCCCACT CCAT	TGCACGTTGAGACGAC AACT	59.8	496	INTERGENIC	--	--	--
Ca4_P3_38927088	Ca4	38927088	TAAAA/TAAA	TTTGAGGAAAAGGAAA GCCA	GGACCATTTTGCCAGT CAGT	59.8	200	INTRON	Ca_13085	--	--
Ca4_P3_38932264	Ca4	38932264	TT/TTACAAAAATAT	AAGCCGAACCTCAAGA ACCA	TGCCGTTTTCAACAAA ACAA	59.9	367	INTERGENIC	--	--	--
Ca4_P3_38936372	Ca4	38936372	ACTAATGCT/ACT	TACGCATTTACGTGCT CTC	TTCAAACATCATCGATT AGGG	60.0	597	INTERGENIC	--	--	--
Ca4_P3_38949892	Ca4	38949892	GT/G	TCAAATCAGTATGCGAA GCG	ACCCACACAACACACA TGCT	60.0	360	INTERGENIC	--	--	--
Ca4_P3_38954815	Ca4	38954815	CAGTTAGT/CAGTTAGTTAGT	CACTCTCAAATCGCCAT CAA	AGCATGTCACCCCAAA ACTC	59.8	839	INTERGENIC	--	--	--
Ca4_P3_38955357	Ca4	38955357	GATAAAATA/GATA	GAGTTTTGGGGTGACA TGCT	CATCCTGCACAATGCT GTTC	60.0	251	INTERGENIC	--	--	--
Ca4_P3_38955492	Ca4	38955492	TACACA/TACACACA	GAGTTTTGGGGTGACA TGCT	GCTCCCTTTAGATTCT CGTCA	60.0	498	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
Ca4_P3_38955534	Ca4	38955534	GTGGGT/G	GAGTTTGGGGTGACA TGCT	GCTCCCTTTAGATTCT CGTCA	60.0	498	INTERGENIC	--	--	--
Ca4_P3_38965155	Ca4	38965155	TATAATAA/TATAA	AGCCATGCCAGATTATT TGC	CAGTGCATCCATCTC TGAA	60.1	221	INTRON	Ca_13082	O	MYB_related
Ca4_P3_38965739	Ca4	38965739	TC/T	TTCAGAGATGGATCGC ACTG	TTTAAGCCACCCAAGG TTTG	59.9	536	INTRON	Ca_13082	O	MYB_related
Ca4_P3_38970599	Ca4	38970599	CCTT/C	AGCGTACGAGAAGGAG TCCA	ACCAAAATGGCAATGA GGAC	60.0	510	INTERGENIC	--	--	--
Ca4_P3_38984036	Ca4	38984036	TC/TCC	AAACCACGACACACCA ACAA	TCAAATGTGGTTAAAT GATGACTG	59.9	872	DRR	Ca_13081	H	--
Ca4_P3_38984191	Ca4	38984191	TCC/TCCC	TGTGAAATGGTTGCAC ATGA	TTGTAACCTGATTCGG AAAAATGA	59.5	843	DRR	Ca_13081	H	--
Ca4_P3_38994620	Ca4	38994620	ATGTATT/ATGTATTGTATT	GCATACCCTTTCCGG TCTT	GCATGCTCTAATCCAT TCCAA	60.3	769	INTERGENIC	--	--	--
Ca4_P3_38997590	Ca4	38997590	TCAA/T	ACCCACCACTGATTCC ATGT	TGCTTCAACTAGCAC TCGGG	60.1	480	INTERGENIC	--	--	--
Ca4_P3_39013061	Ca4	39013061	TAAAAA/TAAAAAA	ACCAACGGAGAGTTTG CCTA	TTCACTTCGACAGCAA AACG	59.7	613	INTERGENIC	--	--	--
Ca4_P3_39015473	Ca4	39015473	TTATATA/TTATA	AAGCCTTCGTATGGCT GTTG	CCTTTCCTTTGGGTGA AGAA	60.3	551	INTRON	Ca_13079	R	DBB

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 (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
Ca4_P3_39017863	Ca4	39017863	GTTTTTTTTT/GTTTTTTTTTTT	TCGTTGCGGTATGTGT CATT	TCCAAACATGGCTCTT CAAA	60.0	768	DRR	Ca_13079	R	DBB
Ca4_P3_39018704	Ca4	39018704	T/TGG	TGCTCTTAGCCACATCA TTG	TGCGAAACGCAATTAT TTCA	57.4	443	DRR	Ca_13079	R	DBB
Ca4_P3_39024713	Ca4	39024713	ATTTTTTT/ATTTTTT	AGAAGGGGATGCCAA AAGT	CCCAGAGTCCCAATTT CTCA	59.9	594	INTERGENIC	--	--	--
Ca4_P3_39033106	Ca4	39033106	GCC/GCCC	GGATTTCCCAACAGC AAAA	TGCTTACCAAAGGAA TTGG	59.9	523	INTRON	Ca_13078	A	--
Ca4_P3_39038460	Ca4	39038460	ACTTGCTTG/ACTTG	CCGGTCACATTCAATA GCCT	ATTGCGTTGTTTCTTC CAGG	60.0	411	DRR	Ca_13078	A	--
Ca4_P3_39044673	Ca4	39044673	AGTGTGT/AGTGT	AGGGGATTCTTTTGAC AGGG	GGAGAAGACGAACTG TCGC	60.3	794	INTRON	Ca_13077	O	WRKY
Ca4_P3_39063852	Ca4	39063852	TCACAC/TCACACAC	TTGCCACTTGATACAAT GAAGC	CGTGTGTTGTCAATT TTGC	60.1	453	INTERGENIC	--	--	--
Ca4_P3_39077079	Ca4	39077079	TGAAAAACACACGAAAAA/TGAAAAA A	TGGTCAAATAAACGTG GCA	TGAGTCGTGGACTATG TCGC	60.0	461	INTERGENIC	--	--	--
Ca4_P3_39081038	Ca4	39081038	CCACA/CCACACA	TGTTCAGGTTTCGGGA TTCT	CTCGAGAAGAGGGAG CAATG	59.5	469	INTRON	Ca_13074	PT	FAR1
Ca4_P3_3912089	Ca4	3912089	CTATATATATATATAT/CTATATATAT ATATATATATATATATAT	TCCCTTAATTTTGTGT TGTTGAA	GTTTGCAAGTACGTGG TGGA	59.8	457	INTRON	Ca_03861	--	--

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 (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
Ca4_P3_39165742	Ca4	39165742	TAAAAATAAAAAATAAAAA/TAAAAATA AAAAATAAAAAATAAAAAA	CGTATACCGTGCTCA TCAA	TGATGTGATTGTGCC ATGA	59.9	259	INTERGENIC	--	--	--
Ca4_P3_39186722	Ca4	39186722	C/CTCT	AAAATTCTGTTTGGGA CAAAA	CTTTGTTGACTTGGC CCAT	59.7	833	INTERGENIC	--	--	--
Ca4_P3_39257138	Ca4	39257138	ATTTTTTTTT/ATTTTTTTTTT	TTTGC GTTACGAATTG ATGA	TGAATTTCCCGACTT GGTC	59.2	181	INTERGENIC	--	--	--
Ca4_P3_39348944	Ca4	39348944	GTTT/GTT	AAGGGTTAGGCTTTGG GTTT	CCCTAAACCACCTC TACCACAA	59.0	604	INTERGENIC	--	--	--
Ca4_P3_3948347	Ca4	3948347	TAAAAAAAAA/TAAAAAAAAA	TTTGCA TTGCAATCAG TCAC	CAAGGGTATTTTACC ACACACA	57.2	514	INTERGENIC	--	--	--
Ca4_P3_39689187	Ca4	39689187	AC/ACC	ATTACCGACATTGCAGA GGG	CTCCATTCTGCCCTT GATA	60.0	329	INTERGENIC	--	--	--
Ca4_P3_39775285	Ca4	39775285	TTATATATATATATATATATATATATA TATATATAT/TTATATATATATATATATA TATATATATATATAT	TTGAGAAGTCGCAACA AACG	TGCACGAAGTTTAGGA AGGTT	60.0	831	INTERGENIC	--	--	--
Ca4_P3_39834326	Ca4	39834326	ACCCCC/ACCCCCC	TCAGTATTATGCGGAT GCCA	CCGACATCTGAGGGGA CTAA	60.1	231	INTRON	Ca_14923	E	--
Ca4_P3_39838128	Ca4	39838128	GT/GCAAT	TCACAATTCCTGGCAAT CAA	TGAAGATGGTGGATGG ATGA	60.0	502	INTERGENIC	--	--	--
Ca4_P3_3989437	Ca4	3989437	AATATATATATATATATATATAT/AAT ATATATATATATATATATATATATAT	TCCCGTTCCAAAACCTT TCA	TGATAGCACAAAAATCG TGGA	60.5	594	DRR	Ca_03854	G	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_3992081	Ca4	3992081	TAAAAA/TAAAAAA	TCGGACGTCTATGACA CAGC	CGATGGTTCTGGTTC GGTT	59.9	645	INTERGENIC	--	--	--
Ca4_P3_3993001	Ca4	3993001	CCC/CCCATTAATTAGACC	TTAGCATCGTGCTGTT CAG	TCTCCCCAATTTCCAA CAAG	60.0	480	INTRON	Ca_03853	--	--
Ca4_P3_3997061	Ca4	3997061	AG/A	GGAAGAAGAACGGTGC TCAG	GGTGCAAGCTTTCCT CT TG	59.9	468	DRR	Ca_03852	--	--
Ca4_P3_40004864	Ca4	40004864	TTATATATATATATATATATATATATA TATATATATAT/TTATATATATATATA TATATATAT	TTTTGACAGGCCAAACT CAA	ACTCTTAGGGTCCCC TGCT	59.3	713	INTERGENIC	--	--	--
Ca4_P3_40048822	Ca4	40048822	AATATATATATATATA/AATATATATA TATATA	CCAAGTTCAAATGGC GACT	AATTGGCCAACACTCGA AAAC	60.1	203	INTERGENIC	--	--	--
Ca4_P3_4008216	Ca4	4008216	TTATATA/TTATA	GCTTCCTAAGAAACCTC ATTCAA	TGGTTTTAATTTAGAGT TGATCCAAG	58.9	796	INTERGENIC	--	--	--
Ca4_P3_4008273	Ca4	4008273	TTTTAAAATATATTTAAAATA/TTTTAAA ATATATTTAAAATATATTTAAAATA	GCTTCCTAAGAAACCTC ATTCAA	TGGTTTTAATTTAGAGT TGATCCAAG	58.9	796	INTERGENIC	--	--	--
Ca4_P3_40111947	Ca4	40111947	GAATAATAATAATAATAATAATAAT A/GAATAATAATAATAATAATAATAATA	TGCAAGTTGCTATCCCA TTG	TTGCAATACGGATCAC AAAA	59.7	753	INTERGENIC	--	--	--
Ca4_P3_4011601	Ca4	4011601	AGT/A	TTTTGGGCTCCAATTT ACG	TGAATGGTTAATGGAT GACAGTG	59.9	348	INTERGENIC	--	--	--
Ca4_P3_4013283	Ca4	4013283	GTA/GTAAAGTGTGATGCTATA	TTGCCAACAAATAGTG TTTGTG	CTTGCCAAGCAAATC AACAA	60.0	508	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 (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
Ca4_P3_40143450	Ca4	40143450	AAATAATAATAATAAA/AAATAATAAT AATAATAATAA	TCGACGCATGTTTATC CAA	TTACCACTTCAAGTTG CCG	60.1	150	INTERGENIC	--	--	--
Ca4_P3_4024785	Ca4	4024785	TAATTTTAAATTTTAAAT/TAATTTTA AAATTTTAAATTTTAAAT	GAATGACCAATTTCCAG AATCA	ACCGAGCCATAGTGAC CAAC	58.9	625	INTERGENIC	--	--	--
Ca4_P3_40279996	Ca4	40279996	ATTTTTTTTT/ATTTTTTTTTT	ACTGGGCTCACTCTTG TGCT	TTTTCTCAAAGCCAAA CCG	60.1	600	DRR	Ca_14893	S	--
Ca4_P3_4028300	Ca4	4028300	GTATATATATA/GTATATATATATA	CATGGACACAACCTCAG TGCC	TTCTGAACCACCACC AACA	60.2	596	INTERGENIC	--	--	--
Ca4_P3_4029055	Ca4	4029055	GATCATCATCATCAT/GATCATCATCAT CATCATCAT	ACATTCTGTGTGGTG TGGT	ACATTCCAGTCCAAA CCCA	60.1	612	CDS (large-effect mutations)	Ca_03849	--	Dof
Ca4_P3_40320788	Ca4	40320788	GATATATATATATATATATATATATA TATATA/GATATATATATATATATATA TATATATA	CCTAGCCAATTCACAAA CCA	CGACCTTGTTGAGG ATGA	58.6	756	INTERGENIC	--	--	--
Ca4_P3_4032239	Ca4	4032239	AATATATATATATA/AATATATATATA	GCGTCGTTTGTAGTCG GGTT	AGCTGGGGTTGCTTTA CTGA	60.2	474	INTERGENIC	--	--	--
Ca4_P3_4032914	Ca4	4032914	A/AACATTCCGCTTG	ATCCAACTCCACCGTT GAC	CAGCACTTGTGAAGC TGCAA	59.8	357	INTERGENIC	--	--	--
Ca4_P3_40348298	Ca4	40348298	AATATATATATATATATATATATATAT ATATATA/AATATATATATATATATATAT ATATATATATATATATA	CCATCCTTCGAATTTGG CTA	TGGTTAAAGGCCAGGA TTTC	60.0	668	DRR	Ca_14889	PET	NAC
Ca4_P3_4036494	Ca4	4036494	TAAAAAA/TAAAAAAA	TGTTCTTTGGCCCTCTT TTG	GAAAGTTGTCAGACGG AGGTTC	60.2	781	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 (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
Ca4_P3_4037177	Ca4	4037177	GTTTTTTTTTTT/GTTTTTTTTT	AAAGTGAAAGCCACTC CCAA	AATGTCGCCACCACT TTTC	59.7	369	INTERGENIC	--	--	--
Ca4_P3_4041384	Ca4	4041384	A/AC	GGGTTTTGGTTGAAATT TTTG	TAATGACGACCAGCGA ATGA	58.4	540	INTERGENIC	--	--	--
Ca4_P3_40423953	Ca4	40423953	TTATATATATATATATATAT/TTATAT ATATATATATATAT	TTGACACTTTTTCTCTG ATGTTCA	TGAAATTCGTGAACGG ATGA	58.9	594	INTERGENIC	--	--	--
Ca4_P3_4044064	Ca4	4044064	TAAA/TAAAA	AAGATTGACTTGTGCAT CGC	AAGTTCCAACAAATGC ACCC	58.9	660	INTERGENIC	--	--	--
Ca4_P3_4044468	Ca4	4044468	GAAAAAAAA/GAAAAAAAAA	CTCGAGCCTAATGACTT CGC	AAGTTCCAACAAATGC ACCC	60.1	440	INTERGENIC	--	--	--
Ca4_P3_40460426	Ca4	40460426	ATTTTTTTTT/ATTTTTTTTTTT	CAGCGCTTGTAACCT CAGAA	AGCCAGGTTTGTCTCT AGCG	58.4	328	INTERGENIC	--	--	--
Ca4_P3_4046043	Ca4	4046043	TAAAA/TAAAAA	TGTTGGGTTTGTTCCT CCT	GCTTGATAATTTAAGG GCACCA	59.4	515	INTERGENIC	--	--	--
Ca4_P3_40461135	Ca4	40461135	TNNNNNNNNNNN/TNNNNNNNNNN	CGCTAGAACAAACCT GGCT	AAATGCCTGCCAAGA ACAT	59.5	485	INTERGENIC	--	--	--
Ca4_P3_4046386	Ca4	4046386	ATTTTTTT/ATTTTTTTTT	TGGTGCCCTTAAATTAT CAAGC	GGGGGTGTTTGGTTTT ACTC	60.3	660	INTERGENIC	--	--	--
Ca4_P3_40479668	Ca4	40479668	TCCC/TCC	CTCCCTAACCTTCTCC CTG	CGGATATTGGCTGGCT TGTA	60.1	622	INTRON	Ca_14877	I	--

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 (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
Ca4_P3_40480392	Ca4	40480392	CTTTTTTTT/CTTTCATCTTTTTTTT T	CGCACCTCTATCCTCA GACC	GAGAGGGTGGCAATG GATTA	59.8	580	INTRON	Ca_14877	I	--
Ca4_P3_40484412	Ca4	40484412	TATAATAA/TATAA	GAGGGAACCAGGATTT CTCC	ACCACCACCTTCACCA CAAT	59.9	764	DRR	Ca_14877	I	--
Ca4_P3_40491458	Ca4	40491458	AAG/A	TCCGTTAGATTGCTGAA TGC	CATCTCGAATGGCTTC CAAT	58.9	628	INTRON	Ca_14876	--	HD-ZIP
Ca4_P3_40494265	Ca4	40494265	GGAAG/GG	CGAAATGATCTTATAAA AATGGACAA	GCAATGCTCTCCAAG AATCA	59.7	451	INTERGENIC	--	--	--
Ca4_P3_40499362	Ca4	40499362	CA/CAA	TGAAACAAACAATTAAG TCCGTG	AAAGGGAAGTTTCTCG AGCC	59.1	802	DRR	Ca_14875	--	--
Ca4_P3_40499622	Ca4	40499622	ATTTTT/ATTTT	GGCCAAATTCATCCAA CAAA	GGGGTGGGTTGAAGA AAAAT	60.7	501	INTRON	Ca_14875	--	--
Ca4_P3_40505340	Ca4	40505340	A/AC	CGATGGTTAAGGGGAT GCTA	TGAAAGCCCAACACA ATGA	59.9	591	INTERGENIC	--	--	--
Ca4_P3_40506274	Ca4	40506274	CAGTATAATAGTA/CAGTATAATAGTAT AATAGTA	GTGGCTGTTTATGGAT TGGG	TGATCCCCCTTCATTCC TTCA	60.2	239	INTERGENIC	--	--	--
Ca4_P3_4050866	Ca4	4050866	TTA/TTATA	ATCATCCCTCATGGTG GAAA	CCTACTTCAAACGCCC ATGT	60.1	519	INTRON	Ca_03848	--	bHLH
Ca4_P3_40508933	Ca4	40508933	AAAATAAATAAATAA/AAAATAAAT AAATAAATAAATAA	GGGGAAAAAGAAAGGA AGGA	GTGGCTGCAAAAGCTA AAGG	59.5	294	DRR	Ca_14874	--	--

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
Ca4_P3_40519165	Ca4	40519165	TAAA/TAAAA	TTCTTACAATTACCAA CACGCA	TGTCGACCATGTGAAT TAGAGAA	59.6	488	INTERGENIC	--	--	--
Ca4_P3_40519544	Ca4	40519544	CTTTATTTA/CTTTATTTATTTA	ACAATTACCAACACGC ACA	TGTCGACCATGTGAAT TAGAGAA	57.5	483	INTERGENIC	--	--	--
Ca4_P3_40522888	Ca4	40522888	AAATATATATA/AAATATATATATTTTA GAATATATATA	GATGGGTTGGTTTGAT TTGG	CGACAATTTTGGTCTC TCCA	60.0	946	INTERGENIC	--	--	--
Ca4_P3_40526118	Ca4	40526118	A/AC	CACGGAATTGATCCCC TTATT	CCATGTCCTTAACTTCA TGCAAA	60.0	520	INTERGENIC	--	--	--
Ca4_P3_40534846	Ca4	40534846	GTTT/GTT	TAGGAGACTGCTCCG CAAT	TTCTCTTGCACGTTGA ATCG	60.0	639	DRR	Ca_14873	--	--
Ca4_P3_4055008	Ca4	4055008	CCACAC/CCAC	TTCGTTGTCATGCTCAG GTA	TCATCTAAATCGGTGC CAAA	57.8	855	INTERGENIC	--	--	--
Ca4_P3_40550485	Ca4	40550485	GGAG/GGAGAG	ACCCTGAGTGAGGGAG GATT	CACCCAACAAGAGCTT CCAT	59.9	533	INTRON	Ca_14870	--	--
Ca4_P3_40571626	Ca4	40571626	C/CTA	CACTCATCATAGCCCC CTGT	AGATGCACGACAATGC TTCA	60.0	711	INTERGENIC	--	--	--
Ca4_P3_40576705	Ca4	40576705	A/ATT	AAATTCTCTCCCTTTCC TTGC	TTTCATCTTCCATAGCC TCG	58.8	447	INTERGENIC	--	--	--
Ca4_P3_40584112	Ca4	40584112	ATATCGT/AT	TGATATGCGGTAGCCA TCAA	GACCCAAATCTGGCTT CAAA	60.1	547	INTRON	Ca_14868	K	--

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
Ca4_P3_40587958	Ca4	40587958	CAA/CAAA	CTTGACACAAATGCGA TCAT	GGGGTTTGTCAATCCA TAAAAA	60.7	464	DRR	Ca_14868	K	--
Ca4_P3_4060243	Ca4	4060243	TAAAAAAA/TAAAAAA	TGTGACCACGAAGTTTT GGA	CATTGTGTAAGGCAC CAGA	60.1	158	INTERGENIC	--	--	--
Ca4_P3_40622737	Ca4	40622737	CAAAA/CAAA	TTTGCAAATGATGACTT CCTACT	TGTTCAAAGCTCAACC CCTC	58.0	578	INTERGENIC	--	--	--
Ca4_P3_40639757	Ca4	40639757	AAATATTATAAATATTA/AAATATTA	CCCCTGCCAAAATACTT TCA	TCCTATGGAACCA AAGC	59.9	752	INTERGENIC	--	--	--
Ca4_P3_40640309	Ca4	40640309	T/TAA	TGCCATAATTGGTTGCA AAA	AAATGATCAAGTCAGG AAGAAAAA	59.9	605	INTRON	Ca_14865	--	--
Ca4_P3_40640542	Ca4	40640542	CA/CAAGTGA	TGCCATAATTGGTTGCA AAA	TGAATTTGATGTTGTT GAAGATGA	59.9	807	INTRON	Ca_14865	--	--
Ca4_P3_40647639	Ca4	40647639	TAA/TA	TATTGCTCTGGCTTGT GGTG	TCATGTTGGGTCAGAT GGAA	59.9	663	DRR	Ca_14865	--	--
Ca4_P3_40648444	Ca4	40648444	CTAATAATAATAATAA/CTAATAATA ATAA	ATTTGGTGAAGGCTGA TTGG	TGTGGTACCGGATAAT CACAAA	59.9	838	DRR	Ca_14865	--	--
Ca4_P3_40648481	Ca4	40648481	AG/AGG	ATTTGGTGAAGGCTGA TTGG	TGTGGTACCGGATAAT CACAAA	59.9	838	DRR	Ca_14865	--	--
Ca4_P3_40649020	Ca4	40649020	ATTTTT/ATTTTTTT	TGTGATTATCCGGTAC CACAAAC	TGTATTCAGGACCTCG CAGA	59.6	207	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 (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
Ca4_P3_40650076	Ca4	40650076	TG/TGTTGCCG	GTTCGACTTCGTCGCT AAGG	CCAGCTAAGCCACTTT CACC	60.0	258	CDS (large-effect mutations)	Ca_14864	T	--
Ca4_P3_40653220	Ca4	40653220	TAA/TAAA	TTCAGTTGGTGGGTTG ACCT	CAATGAGTGTGTTTATT GCGA	60.4	769	DRR	Ca_14864	T	--
Ca4_P3_4068418	Ca4	4068418	ATTTTTTTTT/ATTTTTTTTT	ATAGATGGTCGCATTCT GGG	TCATCAAATCCGTAAC GCAA	59.9	698	INTERGENIC	--	--	--
Ca4_P3_4068666	Ca4	4068666	ATTTTTTTTT/ATTTTTTTTTTTTT	TTGCGTTACGGATTGTA TGA	CAGAATTGACCAAGCG ATCA	60.1	569	INTERGENIC	--	--	--
Ca4_P3_40704105	Ca4	40704105	ATTTTT/ATTTTT	GGATCTCCACTGCCAG GTTA	TTTCGTTTCCCATTCTA CGC	60.1	648	INTERGENIC	--	--	--
Ca4_P3_40724110	Ca4	40724110	TAATGGAGAA/TAA	ATGGAGGGAGAAGGAA ATGC	CCATTTTCGATGCTTG GACT	60.4	398	INTRON	Ca_23910	S	C2H2
Ca4_P3_40730301	Ca4	40730301	GTTTTT/GTTTTTT	GGTGTTTGCGGGTTGA TATT	CGTCTTCACCTTATC CATGA	59.7	561	INTERGENIC	--	--	--
Ca4_P3_40734535	Ca4	40734535	GTTTT/GTTT	ATTAATGGTCACGACC CTGC	CACTCGCAAAGACCAG ATCA	59.8	293	INTRON	Ca_23909	--	--
Ca4_P3_40738290	Ca4	40738290	T/TTTTTAATATAAAC	TTTACCCGAGCCAATT CAG	GGGTTTGAGAGGTGA GTGTG	60.1	854	DRR	Ca_23908	R	NAC
Ca4_P3_40743126	Ca4	40743126	AATATATATATAT/ATATATATATAT ATATATATATATATAT	CACAAACACAACATGC GACA	ACCGCAACACACAAAA TTCA	60.2	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 (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
Ca4_P3_40746698	Ca4	40746698	CAA/CA	CAGTGTGTGTCCGAT GTCC	GTACCAGCAGCATTTG CTCA	60.0	410	INTRON	Ca_23907	R	--
Ca4_P3_40763607	Ca4	40763607	CAAAAA/CAAAA	GCTCTGCTTGATTGAAA ATGC	CCAATGCATGAAATTT GTTCTT	60.0	696	INTERGENIC	--	--	--
Ca4_P3_40765533	Ca4	40765533	TAAA/TAA	AATGAAAATGAAGCG GTGA	CAAAATGTCGTTGTCGC ATCT	60.4	241	DRR	Ca_23904	Q	--
Ca4_P3_40769867	Ca4	40769867	AACTTACTT/AACTT	TGCTACGCATGCTTGA GAAC	TAAAGTTTGATGCC CCTC	60.2	628	INTRON	Ca_23904	Q	--
Ca4_P3_40777635	Ca4	40777635	ATTTTT/ATTTTTTT	TAAGGTCCAAATCCA GGCA	GCTTAAGCTTTCCATT CAAAAGA	60.4	408	INTERGENIC	--	--	--
Ca4_P3_40783879	Ca4	40783879	TCTAATTG/T	TCTTTTCTATCACATG GTCAACA	AATGATGCCTCCATGC TTTC	58.7	732	INTERGENIC	--	--	--
Ca4_P3_40789596	Ca4	40789596	A/AATATAAT	ATGGCCATGTCCCAAT ATCT	TCAACAAAGAACAAAT GGGC	59.1	724	INTERGENIC	--	--	--
Ca4_P3_40790090	Ca4	40790090	GAAAAAAAA/GAAAAAAAA	GCCCATTTTGTCTTTG TTGA	TCATTGTCCAGTGAAG GCAA	60.0	667	INTERGENIC	--	--	--
Ca4_P3_40790403	Ca4	40790403	AT/ATCT	TGTTGATTTTGTGTC ACGA	TCATTGTCCAGTGAAG GCAA	57.7	472	INTERGENIC	--	--	--
Ca4_P3_40792698	Ca4	40792698	TAAAA/TAAAAA	TCAAATGCCAAATCCA TCA	GTCAAGCAAAATCCCA CGAT	59.9	532	INTRON	Ca_23903	--	--

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
Ca4_P3_40797470	Ca4	40797470	CAAAAAA/CAAAAAA	CAAGGTCCCAACAT CACT	ATGGACCATCGATTCT GGAG	59.8	610	INTERGENIC	--	--	--
Ca4_P3_40803911	Ca4	40803911	AA/AATAGTA	AGAGATAGCGAGGCAC CAAA	TGAATTGGTCATTTC CCTC	60.0	597	INTRON	Ca_23902	R	--
Ca4_P3_40805123	Ca4	40805123	AT/A	CCAAATCAACCAATT CCC	ACTTGAAGCCGAAGG TTTT	60.0	524	INTRON	Ca_23902	R	--
Ca4_P3_40807547	Ca4	40807547	TCAACAACAA/TCAACAACAA	CACCTGAAAGCTCCCT CAAG	CGACCTTGAAGGCTTA GTCTG	60.0	505	INTRON	Ca_23902	R	--
Ca4_P3_40808926	Ca4	40808926	TAAAAA/TAAAAA	CGGGAAGGATCTGAC ACTA	GTTGCATAACAACA GCGA	60.1	669	INTRON	Ca_23902	R	--
Ca4_P3_40809750	Ca4	40809750	A/AC	TGCAAGAACAATCCTT CCC	GCAGCTTTGGCAGTT CTCT	60.1	278	INTRON	Ca_23902	R	--
Ca4_P3_40810756	Ca4	40810756	GA/GAA	AGGCCTTCCGGTAAC AAGT	GTTGCGAATCAACTGC AAGA	60.0	394	INTRON	Ca_23902	R	--
Ca4_P3_40818336	Ca4	40818336	AA/AACA	GTTTGCGGTTATTGCT GGTT	GTTACTTGTGGGCTG GAAA	60.0	637	INTRON	Ca_23900	R	--
Ca4_P3_40819629	Ca4	40819629	TCAACAACAA/TCAACAACAAC AA	GGCCTGGAACACTTTC CATA	CAAGGGGTGAAAAAT CAGA	59.9	407	INTRON	Ca_23900	R	--
Ca4_P3_4083518	Ca4	4083518	ATATTAT/ATATTATTAT	TCTTATGAATGAGACAG AGGCA	CCAAGACCCGAGTTA GAGA	57.6	491	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
Ca4_P3_40837782	Ca4	40837782	A/AAT	TGAATTGTTGGGTCCT CAAAG	CAAAATACTGTTGAAA ATCATCTGAA	60.0	191	INTERGENIC	--	--	--
Ca4_P3_40842793	Ca4	40842793	TC/T	CTGGATTGAGTTGAGG CCAT	TGGACCAACCAAGCA CATA	60.1	568	INTERGENIC	--	--	--
Ca4_P3_40845528	Ca4	40845528	GCC/GC	TTTTCAAGCAAAATTG TCCC	TGCATAACGTCAAAG GCAA	59.1	476	INTERGENIC	--	--	--
Ca4_P3_40847080	Ca4	40847080	AATATATAT/AATAT	CCCACCCCATAAAAC ACTA	GGTGATTGTTTGAGCC ACCT	59.5	147	INTERGENIC	--	--	--
Ca4_P3_40847227	Ca4	40847227	GT/GTCAT	GGTGCTCAAACAATC ACCT	TGTCCAAAATCGGAA GAAAA	60.0	355	INTERGENIC	--	--	--
Ca4_P3_40851940	Ca4	40851940	AG/A	AAGCTATGTGGCAATT GGG	AATCATGCCTTTGAG TGGG	60.0	471	INTRON	Ca_23897	--	--
Ca4_P3_4086522	Ca4	4086522	GATATA/GATATATA	GCGTGCTTTATACGGA TGGT	TGATGGAGGCCTAAAC AAGG	60.0	499	INTERGENIC	--	--	--
Ca4_P3_40880303	Ca4	40880303	GA/GAA	GGAAGTTTCCAAGCA CGAG	AAGTTCCATTGCTTGC TGTT	59.9	411	INTERGENIC	--	--	--
Ca4_P3_40893226	Ca4	40893226	CTCTATCTAT/CTCTAT	TGAACTCGGCTAGGAG GAAA	TATATGGGGTCCATT CCTG	59.9	294	DRR	Ca_11020	R	G2-like
Ca4_P3_40893508	Ca4	40893508	AG/A	TGAACTCGGCTAGGAG GAAA	CGCAAGTGTGGACAA TGAT	59.9	703	DRR	Ca_11020	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 (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
Ca4_P3_40899332	Ca4	40899332	AT/ATATATTTAATTT	AGGACCTTGGACACAA CAGG	TTTGGCTATTTTCAGCC CATC	60.0	509	INTERGENIC	--	--	--
Ca4_P3_40901246	Ca4	40901246	AAA/AAATAA	GGGTATATTAATTTAAC AACTCCCTCC	TTAGGAGGTCGCATCT TCGT	59.7	462	INTERGENIC	--	--	--
Ca4_P3_40901320	Ca4	40901320	GAA/G	GGTCCGAGATACAACC TGCT	TCAATGAAAAACATGG TGCC	59.2	480	INTERGENIC	--	--	--
Ca4_P3_40907158	Ca4	40907158	TATACAT/TATACATAATACAT	TGTCGTTGAAATCAAG CAAT	ATCGTTTGGGTGAAGA ATCG	58.3	334	INTERGENIC	--	--	--
Ca4_P3_40922455	Ca4	40922455	CTTTTTTTTT/CTTTTTTTTTTT	CAGCATGCATCTGGAA AGAA	AATGAGCGGTGGTAT CTTG	59.9	534	INTRON	Ca_11016	R	--
Ca4_P3_4092489	Ca4	4092489	TAA/TAAAACGAA	TGAGGTGAGATGCAAG AGCA	AATTCACATGCGAAGC TCTG	60.7	142	INTERGENIC	--	--	--
Ca4_P3_40925099	Ca4	40925099	CTATATA/CTATA	TCATGAAACTTGAAAGG CCC	CATGAAGTAGGTTGAC CAGGC	60.1	317	DRR	Ca_11016	R	--
Ca4_P3_40929080	Ca4	40929080	T/TC	ATGGTGGGGTAAGCA ATCT	AAGAAGCGCGTATTGG TGTT	60.6	813	INTRON	Ca_11015	--	bZIP
Ca4_P3_40929966	Ca4	40929966	TAAAAAAA/TAAAAAAA	TCATCGTTGGTAAAAAT TTAGAGGA	TTAAGATGGTTGAGGC CTTATT	60.2	418	INTRON	Ca_11015	--	bZIP
Ca4_P3_4093453	Ca4	4093453	CTAATTAAGTAATAATTAAGTAA/CTAA TTAAGTAA	CGTTCATCCACTTTTAA GGCA	AAAAATCTAGGCGTTT TGGTC	60.1	746	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
Ca4_P3_40934743	Ca4	40934743	A/AGC	GCTCGTCAACAACGTG AGAA	TGCAGATTGCAAAGAC AAGG	60.0	689	INTERGENIC	--	--	--
Ca4_P3_40935397	Ca4	40935397	GAATATA/G	GATGGTGGAGGTAGGT GGTG	TGGTGGATCATTCTGTG AAAA	60.2	789	INTERGENIC	--	--	--
Ca4_P3_40943811	Ca4	40943811	GTTTT/GTTTTT	AGGGTTTGGTGTGAG ATGC	CGCACGAGATAATAAT GCCA	60.0	575	INTERGENIC	--	--	--
Ca4_P3_40944823	Ca4	40944823	CAAAGAAA/CAAAGAAAGAAA	GCACATTGGATGTTTG ATGG	TGGGTTTTGTTTGAAA TTTTTG	59.8	698	INTERGENIC	--	--	--
Ca4_P3_40950208	Ca4	40950208	AA/AATTA	CACGATTGGGGTGAAA AATC	TTGTTGGCATCAATGC AAGT	60.2	718	INTRON	Ca_11013	--	--
Ca4_P3_40954191	Ca4	40954191	CAAA/CAA	TTCACCATGTTCCGTC AAA	TGTTTCTCGAGTACGA AAGAATG	59.9	368	INTERGENIC	--	--	--
Ca4_P3_40955257	Ca4	40955257	GAAA/GAA	TTGTTTTGCGGTTACAA GCA	TCCGTTTTTATTTTGGT CGC	60.3	820	INTERGENIC	--	--	--
Ca4_P3_40958047	Ca4	40958047	GTTT/GTTTT	CCGTGTTGGTGTGTT GTTC	TTTGTGGGTGTTTGAG ACCA	59.9	558	INTERGENIC	--	--	--
Ca4_P3_40978550	Ca4	40978550	TC/TCATGTAGGGC	TTGGGTTTCTATTTTCG TCG	GCCAATCGATTACCTT CAAA	59.9	963	INTERGENIC	--	--	--
Ca4_P3_41015733	Ca4	41015733	TAAAAA/TAAAAAA	CAAAATTTGATGATCTC ACACGA	GCCCCATAAAAAGATG CTCA	60.0	504	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 (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
Ca4_P3_41027713	Ca4	41027713	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATATATAT	TGAATCCCAAAATTTGA ACCA	TTTGATCGCAAGGTT TAGG	60.2	637	INTERGENIC	--	--	--
Ca4_P3_41029578	Ca4	41029578	A/AC	TTTCTCTCCATCGACCC ATC	CCACGTGGGAAGTAGT CAGA	60.0	266	INTERGENIC	--	--	--
Ca4_P3_41029836	Ca4	41029836	AATATATATATATATATA/AATATATATA TATATA	TTTCTCTCCATCGACCC ATC	GAACCTTTGGGAAATC AGCA	60.0	760	INTERGENIC	--	--	--
Ca4_P3_4103235	Ca4	4103235	ACTC/ACTCCTC	AACATGGCAATTGATTG AAGG	AGTCCAAC TTCATTGC CTGC	59.8	496	DRR	Ca_03844	--	--
Ca4_P3_4104310	Ca4	4104310	ATTTT/ATTTT	AGGACCCAGCAAGGAA AACT	TAACAGCCCATTCCCA CTTC	60.1	722	DRR	Ca_03843	T	BBR-BPC
Ca4_P3_41061116	Ca4	41061116	ATT/AT	TTCTTCAGACCCATCTC TTGC	TCGTCGATGACTACGA TGGA	59.4	392	INTERGENIC	--	--	--
Ca4_P3_41116006	Ca4	41116006	CAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA A/CAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAA	TGTGAACCACATTGAAT CCTG	TGGATACCGGCAGTT TTTA	59.4	642	INTRON	Ca_10997	L	NF-YB
Ca4_P3_4115753	Ca4	4115753	TAA/TA	GGTGTGTGGGCTTT GTCT	CCCCCTTTTGGTCGT ATCT	60.0	821	INTERGENIC	--	--	--
Ca4_P3_41162022	Ca4	41162022	CATATATATATATATATATA/CATATA TATATATATATATATA	TTTGATTGTCTGCACC AAA	TGGTAGCCTTGAAC TT GTGC	60.1	261	INTERGENIC	--	--	--
Ca4_P3_41172721	Ca4	41172721	AC/A	TCAAGTTAAAGGTGGA GCGG	TTCTCCCTTTCTTTGA CAAC	60.2	761	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 (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
Ca4_P3_4117947	Ca4	4117947	ATTTTT/ATTTTT	AACTCGTGGGAGGT TCAC	TTTGCAATCTATCGA GGGG	60.0	955	INTERGENIC	--	--	--
Ca4_P3_4118588	Ca4	4118588	AATGCATTATG/AATG	CCCCTCGATAGATTGC AAAA	TAGGGTATAGCATGGG CAGG	60.0	301	INTERGENIC	--	--	--
Ca4_P3_4120892	Ca4	4120892	G/GA	ATGGTCGAAACCAATT GAGC	TTTGAGGAGATTGAGA TGGG	59.9	660	INTERGENIC	--	--	--
Ca4_P3_4126019	Ca4	4126019	AGCTTAAAC/A	TGGTTAGGGAGCAAAG GCTA	ATAAGGAAAGTGGGGG CATT	59.8	477	INTERGENIC	--	--	--
Ca4_P3_41268887	Ca4	41268887	AATATATATATATATATA/AATATATA TATATATATA	AAACCTCGTCAATTGG CTCA	CAATTGGTGAACAAT CGTG	60.6	299	INTERGENIC	--	--	--
Ca4_P3_4129605	Ca4	4129605	TAAAAAAAA/TAAAAAAAA	TTGACGAACCAACTCAT CCA	CCACGCACTACTTCAA CGAC	60.1	851	INTERGENIC	--	--	--
Ca4_P3_41306366	Ca4	41306366	CTTTTTTTTT/CTTTTTTTTTTT	GGTAGCATCCAACCAT CTAGACA	GGGGATGTGAACACTT AAGCA	60.4	157	INTERGENIC	--	--	--
Ca4_P3_4132036	Ca4	4132036	ATTTTT/ATTTT	GAGAGAGAAATACCAC AAATTGGAA	GATGAGAATGAAAATA GGAGGGA	59.9	376	INTERGENIC	--	--	--
Ca4_P3_41320371	Ca4	41320371	TGGGG/TGGG	TGGAGCATATGCGTAG CAAG	GCTTGCTTTTGCCCAT ACAT	60.0	761	DRR	Ca_10977	K	LBD
Ca4_P3_4134423	Ca4	4134423	CAAATAATTAAAAAATAAT/CAAATAAT	GGATTAGGTCGTTGTT TCCC	GGCGATAGTGATCCAG CCTA	58.4	856	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 (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
Ca4_P3_4136593	Ca4	4136593	TAGTAAG/TAGTAAGTAAG	GTGGATGAACCAATGG ACAA	CCGATCTAAATAAAAT TTGGGG	59.2	103	INTERGENIC	--	--	--
Ca4_P3_41376499	Ca4	41376499	TAAA/TAAAA	TATTCGCGAAATGGGT TTCT	CCTGCAGTTCTTCGT CTTC	59.5	447	DRR	Ca_10970	--	NF-YB
Ca4_P3_4142760	Ca4	4142760	CAAAAA/CAAAAA	ATCCATCCAATGATTCC CAA	TGATGGCCTGTTCTCT GTTG	60.0	422	DRR	Ca_03842	--	--
Ca4_P3_4150033	Ca4	4150033	GTTTTTTTT/GTTTTTTTT	TCTGCCGATGAGTTC GATG	CTCAACCCCTCCAT ATTT	59.8	133	INTERGENIC	--	--	--
Ca4_P3_4154282	Ca4	4154282	TCAAG/TCAAGGAAGTTGTCCAAG	CAATCCATTGAAAACCC CAC	ACTCTCAAGGCTGCCA AAAA	60.0	653	CDS (FRAME SHIFT)	Ca_03840	R	--
Ca4_P3_4155952	Ca4	4155952	AT/ATT	TTGGGCAATAGGAGAT GAGG	TTGCAAAGGAAATGG AAGG	60.0	542	INTRON	Ca_03840	R	--
Ca4_P3_4156202	Ca4	4156202	ACTT/ACTTCTT	TTGTGGTCCTTCCATT TCC	AGCTGCAAGGAGCTAT CCAA	59.8	316	DRR	Ca_03840	R	--
Ca4_P3_41581170	Ca4	41581170	GA/GATCA	ACAAAACTCCCAATGG TCG	TAGCCAACCACACATG GAAA	59.8	737	INTERGENIC	--	--	--
Ca4_P3_4162107	Ca4	4162107	AATTAAATT/AATTAAATTTATTAAATT	AGGGAGAGAGGCATGA GACA	ATGTGCGACATGAAAA CCAA	59.9	735	INTERGENIC	--	--	--
Ca4_P3_4162204	Ca4	4162204	GTTTTTTTT/GTTTTTTTTTT	AGGGAGAGAGGCATGA GACA	ATGTGCGACATGAAAA CCAA	59.9	735	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 (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
Ca4_P3_4163076	Ca4	4163076	GTTTTTTT/GTTTTTTT	TATTGCAGCAACACATG CAA	TGCAATCCATAGACT CCAAGA	59.9	854	INTERGENIC	--	--	--
Ca4_P3_4171930	Ca4	4171930	CCT/CCTCTGTCTTATCTCTCT	GAGGCATGAGACGGAG GTAG	GATTGACATGTTACAG CCAC	59.8	608	INTERGENIC	--	--	--
Ca4_P3_4173017	Ca4	4173017	ATTGTGTTTTTTTTTT/ATTT	GTCTGGGGCTGATGT TGTT	TCCTTGTTATTGGGGT GTCC	60.0	796	INTERGENIC	--	--	--
Ca4_P3_4173103	Ca4	4173103	TAAAAAAAAA/TAAAAAAAAA	GTCTGGGGCTGATGT TGTT	TCCTTGTTATTGGGGT GTCC	60.0	796	INTERGENIC	--	--	--
Ca4_P3_4173930	Ca4	4173930	GAAAAA/GAAAAA	GGACACCCAATAACA AGGA	TCTTGACATAAACTAT TTTCAGCG	59.6	699	INTERGENIC	--	--	--
Ca4_P3_4174299	Ca4	4174299	TGA/TGAGA	CAGAAATGTCTGAAAGT GTAGGGTT	TCGTCACATCGGTT GAAA	60.0	376	INTERGENIC	--	--	--
Ca4_P3_4174846	Ca4	4174846	TAAA/TAA	TTCAACCGATGAGTGA CGAA	CGATGTCCAACCCTCG TTAT	60.2	460	INTERGENIC	--	--	--
Ca4_P3_4176207	Ca4	4176207	TAAGTCAATGCATAA/TA	AGAGTCAGCCATCATC GACC	GGGAATGGGGATAGG TTCAT	60.2	709	INTERGENIC	--	--	--
Ca4_P3_4179576	Ca4	4179576	CTTTTT/CTTTTTTT	CCTATTGCTTGTTG GCAT	TGGTTGGTGATTGTT TGAA	60.0	522	INTERGENIC	--	--	--
Ca4_P3_41806206	Ca4	41806206	CTA/CTAATA	TGCCTTGAATCTCTCT TGGA	TGGAAAACCATAATTG AGCG	59.9	905	INTRON	Ca_10934	QR	B3

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 (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
Ca4_P3_41806539	Ca4	41806539	ATTTT/ATT	TGGTGCTTGTAGTTGA TGAGG	TTTGGGTCAGGACAAG AAGG	58.8	949	INTRON	Ca_10934	QR	B3
Ca4_P3_41806627	Ca4	41806627	ATT/AT	AACACATCCAAATCACA TGCT	ATTGGAGCCCACTTG TTTG	57.9	964	INTRON	Ca_10934	QR	B3
Ca4_P3_41808242	Ca4	41808242	TA/TAGA	TGCAAACTAGCCGAG TGAA	ATGCGCCGAAACACT TATT	59.6	498	DRR	Ca_10934	QR	B3
Ca4_P3_418090	Ca4	418090	CTTT/CTTTTTT	TGTGCGCGTACACTTT CTTT	CCAAGTTCCTTTTGAT GGGA	59.5	565	INTERGENIC	--	--	--
Ca4_P3_41823400	Ca4	41823400	A/AAT	GGAAATTTACTTGAATT CATGGCT	TGGAACAATTGAACAC CGTT	59.8	420	INTERGENIC	--	--	--
Ca4_P3_41823714	Ca4	41823714	TATT/TATTAATT	GGAAATTTACTTGAATT CATGGCT	CAATTGTTCTGTGTC GTCT	59.8	689	INTERGENIC	--	--	--
Ca4_P3_41823980	Ca4	41823980	CATCAGA/CA	CATCAAGACCAATTCCA GCA	CAATTGTTCTGTGTC GTCT	59.6	114	INTERGENIC	--	--	--
Ca4_P3_41826984	Ca4	41826984	TA/T	TGCACCTGAAAATTGAG ACC	AAACAAGCCCATGGAA AATG	58.7	508	INTERGENIC	--	--	--
Ca4_P3_41827335	Ca4	41827335	CATGA/CATGATGA	ATTTCCATGGGCTTGT TTG	TACGATGAATCTCGGG CTCT	59.8	619	INTERGENIC	--	--	--
Ca4_P3_41832968	Ca4	41832968	AATATATATATATA/AATATATATATA	TTTCCATTGCACTCACT CCA	CCTATCATGGCCTGAC CTGT	60.2	758	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 (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
Ca4_P3_4194540	Ca4	4194540	TAATG/T	ATCTTCGGCAAAAGAA GCAA	AGAGAAGACTCACTGG GGCA	60.0	840	INTRON	Ca_03838	R	--
Ca4_P3_4196255	Ca4	4196255	CTATAAATT/CTATAAATTAAATATAAATT	ATTGGCCGGAAATTGT ACTG	TCAGGGGACCATAAAA GAAGG	59.8	378	DRR	Ca_03838	R	--
Ca4_P3_4196538	Ca4	4196538	ATTTT/ATTT	ATTGGCCGGAAATTGT ACTG	TAACCCAAGGCCATAT CCTG	59.8	841	DRR	Ca_03838	R	--
Ca4_P3_42005183	Ca4	42005183	GTTATTATTATTATTATTATTA/GTT ATTATTATTATTATTATTATTA	GCAAGTGCACCCTTTG ATTT	TCACATCATCTCCCA AACA	60.1	447	INTRON	Ca_10921	PT	C3H
Ca4_P3_42078586	Ca4	42078586	AAGGCATGAAA/AAGGCATGAAACACA GGCATGAAA	TCTTTTGAACACTCCC CTG	CCAAAGGAAACCACGA CAAT	60.1	810	INTERGENIC	--	--	--
Ca4_P3_42120439	Ca4	42120439	TAAAAAAAA/TAAAAAAAA	CACAAGCATTGGAGTC CCTT	AACTCGTGGGTTGGAT TTTG	60.1	495	INTRON	Ca_10910	--	C2H2
Ca4_P3_42120489	Ca4	42120489	TAAAA/TAAA	CACAAGCATTGGAGTC CCTT	AACTCGTGGGTTGGAT TTTG	60.1	495	INTRON	Ca_10910	--	C2H2
Ca4_P3_42120574	Ca4	42120574	C/CG	CACAAGCATTGGAGTC CCTT	AACTCGTGGGTTGGAT TTTG	60.1	495	INTRON	Ca_10910	--	C2H2
Ca4_P3_4214660	Ca4	4214660	GAAAAAAAAA/GAAAAAAAAA	TACATAGCACGCTGAG GACG	CCAAGTTTTGGAGTA GAGCG	60.0	509	INTERGENIC	--	--	--
Ca4_P3_42213086	Ca4	42213086	TTATATATATATATATATATATATA TATATATATA/TTATATATATATATATAT ATATATATATATATATATATATA	CTCTGCATTGTTTCCC CAT	CCCTTATCGTGTTCG ACCT	59.9	752	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 (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
Ca4_P3_42325397	Ca4	42325397	AATATATATATATATATATA/AATATATA TATATATATATATA	AATGATCGTCTTCGGAT TGG	CGTTGAATCTTGTGGG TTCA	59.9	478	INTERGENIC	--	--	--
Ca4_P3_4242385	Ca4	4242385	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATATA TATATATAT	GAACCATTGAGAGGCC GTT	TCGGTTTCCGAGTAGT GGAC	60.1	359	INTERGENIC	--	--	--
Ca4_P3_42516686	Ca4	42516686	CAAAA/CAAAAAA	GTCTTTGCCATCTACC TCG	ATCTGCCAGAGCGATG TCTT	59.7	695	DRR	Ca_10897	--	Dof
Ca4_P3_42517427	Ca4	42517427	AATATATATATATATATATATATATAT ATATATA/AATATATATATATATATATAT ATATA	ATAATGTTCAGCACCC GAGG	GAGCTGTCCACGACAC TCAA	60.0	466	INTRON	Ca_10897	--	Dof
Ca4_P3_42546801	Ca4	42546801	CAAAA/CAAAAA	GTTGGTCAATATAAT TCCGC	CTAATATCATCGCCCC TTCG	59.6	686	INTERGENIC	--	--	--
Ca4_P3_42546916	Ca4	42546916	TTAAAAAATAAAAAA/TTAAAAA	AAAGTGAGGAGTTTTG CCCC	CTAATATCATCGCCCC TTCG	60.5	401	INTERGENIC	--	--	--
Ca4_P3_42548370	Ca4	42548370	ATTTTTTTT/ATTTTTTTT	CGTGCCTTTGTCGTCT CTTT	AGAGGCCCAATATCCT TGCT	60.4	528	INTERGENIC	--	--	--
Ca4_P3_42574723	Ca4	42574723	AGGG/AGGGG	TCGTCATCACACAAGG TGGT	CAGGTTGTAAGCAAAA GCCC	60.0	227	INTERGENIC	--	--	--
Ca4_P3_4261669	Ca4	4261669	TAAAAAATAAAAAA	TATGTTCAATGGATGG CGA	AAGGGCATTTTCATATT CGG	59.9	308	INTERGENIC	--	--	--
Ca4_P3_42644681	Ca4	42644681	GTATATATATATATATATATATATAT ATAT/GTATATATATATATATATATAT ATATAT	ACAGTTTTGGTCCCTC CCTT	CTTTACAACACGGACG CTCA	59.8	528	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
Ca4_P3_42672856	Ca4	42672856	CATTT/CATTTGGAGTATATTT	TGTTGTTGTTGTTGTTG TTGTTG	GGGCATAAAGACATGC CAAT	59.5	551	INTERGENIC	--	--	--
Ca4_P3_4269269	Ca4	4269269	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATAT	ACACGGTGATCGTCAG TGAA	ACACGTGACACTTACC TAGCAA	60.2	596	INTERGENIC	--	--	--
Ca4_P3_4273619	Ca4	4273619	ATTTTTTTTT/ATTTTTTTTT	GCGCCCGTTGAAAATA ATAA	ACACGTGTGGACGTGA TTTG	59.9	408	INTERGENIC	--	--	--
Ca4_P3_42776316	Ca4	42776316	TTTTTATTTATTTTATTTTATTTTATT/T TTTTTATTTATTTTATTTTATT	AGGAAATGCTAGGTTG TGCTG	AAACACCAAATCGGT GAGC	59.4	533	INTERGENIC	--	--	--
Ca4_P3_42845286	Ca4	42845286	ATT/AT	TTCTAGCTGGCTTTTCT CGC	CGATTGAACCAAATTC CAGG	59.9	804	INTERGENIC	--	--	--
Ca4_P3_42993153	Ca4	42993153	GCCC/GCC	ACAGTGTTTCGGATTCT GGG	GTTTCGTACCCCTCGA CAAA	60.0	757	INTERGENIC	--	--	--
Ca4_P3_43005724	Ca4	43005724	CTTTTTTTTT/CTTTTTTTTT	TTGTAGTTGTATTCAAT GACGAAGA	CAGAATTAATTTATTTG ACAACTCCA	58.0	628	INTERGENIC	--	--	--
Ca4_P3_43177763	Ca4	43177763	TCCCCC/TCCCCC	GTGCCAGTCGATTGCC TAAT	TGCCTTAAC TGACAAA GGGG	60.1	562	INTERGENIC	--	--	--
Ca4_P3_43252814	Ca4	43252814	TA/TAA	TGTTTTGAAAATTAATT GCTATTTGG	CCACAACAGAGAAGT GGCA	59.7	393	INTERGENIC	--	--	--
Ca4_P3_43304756	Ca4	43304756	A/ATATTG	TGAGCAAGCTGAAAGA AGCA	AACACTCCTGCACGAC ACAC	60.0	264	DRR	Ca_23682	K	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_43308710	Ca4	43308710	TT/TTAAT	ATCCTTGAGCAGCACCAAT	TGGACTACCAATGAAGGAATTG	59.7	611	INTERGENIC	--	--	--
Ca4_P3_43317546	Ca4	43317546	TAGAAGAAGAAGAAGAA/TAGAAGAAGAAGAA	CATGTGGAGTGATATGGCCT	TGCTTGGTAAAAAGAA TGACAAA	58.4	757	INTRON	Ca_23683	D	M-type
Ca4_P3_43318250	Ca4	43318250	T/TTA	AGTTCAGACGGCGAGA GAAG	CCCATGTATGGTTAGT GGGG	59.7	540	INTRON	Ca_23683	D	M-type
Ca4_P3_43339918	Ca4	43339918	ATT/ATTT	TCATTCTCTTCATCGAAGATTCA	TGGAGAATAATTAACAGAGCAGCA	60.2	565	INTERGENIC	--	--	--
Ca4_P3_43346773	Ca4	43346773	TAA/TA	TTTCCAATGGAGGTGATTCC	CTACATTTGCGCCTCT GTCA	59.7	324	DRR	Ca_23685	--	S1Fa-like
Ca4_P3_43349693	Ca4	43349693	TA/T	TATGGGGAAGAAACCA GCAG	TGTGGTTTCCCATACC AATTC	60.1	665	INTERGENIC	--	--	--
Ca4_P3_43369208	Ca4	43369208	CAGAG/CAG	TGTGAATGTTGCTGCC ATTT	ACAGCAATGCTTGTA TCCT	60.1	464	INTERGENIC	--	--	--
Ca4_P3_43389738	Ca4	43389738	TAA/TA	TCACATTGTGGAATGTT GAGAA	TCCATGTATAATTACG CCTTTAAGAA	59.0	232	INTERGENIC	--	--	--
Ca4_P3_43399815	Ca4	43399815	TC/T	AACAATTTCCAAGTCA ACCG	CCACAAGAGCAACAA ACATTG	59.0	597	INTERGENIC	--	--	--
Ca4_P3_43425153	Ca4	43425153	CGCATGCATG/CGCATG	TTAATCCGAAACGATCC GAC	AACTTTTGAAGTCAC GCCG	59.9	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_43426311	Ca4	43426311	CAA/CAAAA	ATTCACACATTGGCGT TGA	TCCGATGCATCTATTT GGA	60.0	629	INTERGENIC	--	--	--
Ca4_P3_43432356	Ca4	43432356	GTCACACTCA/GTCACACTCACACTCA	TGAGAAAGTCACATGGC TTGG	GAGGGACCAAGGGAA TCAAT	59.8	793	INTERGENIC	--	--	--
Ca4_P3_43440070	Ca4	43440070	TAAA/TAAAA	GACAATGGGCCAATTT GATT	GATTTTGCTTCCTGCT TTGC	59.6	699	INTRON	Ca_23689	--	--
Ca4_P3_43443823	Ca4	43443823	CA/CACCTTA	GCAAGAGTCTCCCTCG TTTG	CGCCTCGTAAACATAA TTGGA	60.0	391	DRR	Ca_23689	--	--
Ca4_P3_43445155	Ca4	43445155	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CAAAGGCTTGTTGTC CATT	GTCAATGCCAAATGGT TGAA	60.0	458	INTERGENIC	--	--	--
Ca4_P3_43450204	Ca4	43450204	A/AT	TTCTGTGTCAGCAAGAC CAAG	AGGGAGATTCTTGGAG AGAGC	60.0	194	DRR	Ca_23690	--	--
Ca4_P3_43485060	Ca4	43485060	ATT/ATTT	TTTTCCATATGATCACG CCA	TGGCCCAACATATAAA GGGA	59.9	388	INTERGENIC	--	--	--
Ca4_P3_43518348	Ca4	43518348	AATTTTTTTATTTTTTATTTTT/AATTTT TTTATTTTT	GTGAGTCATGGGACGG TTCT	CTAGTTGGCCCATGGA ATGT	60.0	749	INTRON	Ca_23694	--	bHLH
Ca4_P3_43535197	Ca4	43535197	A/ATTTTTTGATGG	TCGGGATTTTGATGTT GGTT	AGGAAAATGAATCATG GGCA	60.2	473	INTERGENIC	--	--	--
Ca4_P3_43535291	Ca4	43535291	CATTATTAT/CATTAT	TCGGGATTTTGATGTT GGTT	AGGAAAATGAATCATG GGCA	60.2	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
Ca4_P3_44083427	Ca4	44083427	TTATATATATATATATATATA/TTATATA TATATATATATA	TTGGCAGAGGTGAAGG TAGG	AAACCAACCATGCATA ACCC	60.2	565	INTERGENIC	--	--	--
Ca4_P3_44134460	Ca4	44134460	AAC/AACACAC	TACCAGATTGCCCCAC TTTC	GCCAAAACGGATGAAG TTGT	59.9	554	INTERGENIC	--	--	--
Ca4_P3_44295072	Ca4	44295072	T/TGTAGTA	ATGATGAATCGGTTTT GCC	AGTTTTTCCAACCTCA GCCA	59.8	305	CDS (large-effect mutations)	Ca_09103	--	--
Ca4_P3_44323786	Ca4	44323786	TATAGAATAGAA/TATAGAATAG AATAGAATAGAA	GCACCACGAACATCAA TGAG	CAAGGTAGCGAGGAAT AGCG	60.1	745	INTERGENIC	--	--	--
Ca4_P3_44344897	Ca4	44344897	ATTTTTTTTT/ATTTTTTTTT	TTGATTATTGATTACCC ACGGA	TACCCATTGATCCGAT TCGT	59.2	510	INTERGENIC	--	--	--
Ca4_P3_44428431	Ca4	44428431	CATATATATATATATATAT/CATATAT ATATATATATATAT	TGTTGCGGAAATGTTA GTTCA	TTCATCCATGCAATATT CAAAAA	59.2	699	INTERGENIC	--	--	--
Ca4_P3_44479699	Ca4	44479699	TTATATATATATATATATATATATA TAT/TTATATATATATATATATATA TATATATATATATATAT	CAATGATCCCAAAAT TAACCA	ATATTGATGGGGCCGA TTTT	59.9	701	INTERGENIC	--	--	--
Ca4_P3_44487366	Ca4	44487366	A/ATACATC	TGCGATTGAAGAGATA AACGAA	GAGATGCGGGGACAA GATTA	59.9	778	INTERGENIC	--	--	--
Ca4_P3_44488143	Ca4	44488143	AAATAATAAAT/AAATAATAATAA T	AAACCAATTGTTGATG GGA	GCGACCATCTGCTTTC GTAT	60.0	336	INTERGENIC	--	--	--
Ca4_P3_44491772	Ca4	44491772	ATAGCTAG/ATAGCTAGCTAG	GGCTGAATAATTGTGT CGGG	CACTGCCTTCCCATTT CCTA	60.3	314	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 (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
Ca4_P3_4450094	Ca4	4450094	ATTTTTTT/ATTTTTT	AAAACCAAGGAGGAGG AGGA	GTCGATCGAGTTGCTT CACA	60.0	312	INTRON	Ca_03813	T	WRKY
Ca4_P3_44507737	Ca4	44507737	TTTCTTCTT/TTTCTTCTTCTT	AGCGGTTGTTCAAAT GACC	AAAGCAAGTCCGACCA AAAA	60.0	421	INTERGENIC	--	--	--
Ca4_P3_44508264	Ca4	44508264	TTCCCTGAT/TAT	GAAATGGATTTTGGTC GGA	TGTCATCCGTGATAC ATGA	59.7	961	INTERGENIC	--	--	--
Ca4_P3_44509122	Ca4	44509122	GAAAA/GAAAAA	GCAGTGCTGAATTTTG GTGA	TGCAAAAGTTGTGTGA AACCA	59.8	494	INTERGENIC	--	--	--
Ca4_P3_44520768	Ca4	44520768	GA/GAA	TTTGTCTCTCTTCCTC GTG	AAGAGCACATGGGAA ATTG	59.0	513	INTERGENIC	--	--	--
Ca4_P3_44521022	Ca4	44521022	T/TA	CAATTTCCCATGTGCT CTT	GACATTTTGGATGATT TTGGA	59.9	290	INTERGENIC	--	--	--
Ca4_P3_44521070	Ca4	44521070	CAAAAA/CAAA	CAATTTCCCATGTGCT CTT	TGGACTTCAAATGAT TGTTG	59.9	418	INTERGENIC	--	--	--
Ca4_P3_44522624	Ca4	44522624	GAAAAA/GAAAAAA	GAAGTTGCTTGCTCCG ATTC	CCCTAGCAAGTGCTAA CCCA	60.0	675	DRR	Ca_09124	--	ERF
Ca4_P3_44522868	Ca4	44522868	A/AG	ACAATCCCTTCGTCCC TCT	CCCTAGCAAGTGCTAA CCCA	59.9	516	DRR	Ca_09124	--	ERF
Ca4_P3_44525079	Ca4	44525079	AGTATTTTCTTA/AGTATTTTCTTATG TATTTTCTTA	ATGACGTTGGTGATTG GACA	TGGAGTAATCCCTAAT CATTTCA	59.8	357	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 (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
Ca4_P3_44525239	Ca4	44525239	AAAAAGAA/AAA	ATGACGTTGGTGATTG GACA	GCGCTAGCAAAATAG CCAC	59.8	884	INTERGENIC	--	--	--
Ca4_P3_44530462	Ca4	44530462	TAAAAAAAA/TAAAAAAAAA	CTCAAGGGTTTTCCCA CAA	GCGATGCGTGTTCTTA AGAT	59.9	567	INTERGENIC	--	--	--
Ca4_P3_44532030	Ca4	44532030	TAAAAAAAA/TAAAAAA	AGATCCGCCACTGCAT TTAC	TCCACTCATCAGCCAT GAAG	60.1	803	INTERGENIC	--	--	--
Ca4_P3_44532080	Ca4	44532080	TC/T	CCTAGTCAAAATATCTC CTGCCA	TCCACTCATCAGCCAT GAAG	59.6	694	DRR	Ca_09125	L	--
Ca4_P3_44533123	Ca4	44533123	TAAAAAA/TAAAAAA	CAAAATGCCGTCACAG AATG	CCTTGGTTTCGATGCC TAAA	60.1	368	DRR	Ca_09125	L	--
Ca4_P3_44540317	Ca4	44540317	TAAAAAAAA/TAAAAAAAAA	CACTCGATTTGACCCCT CTC	CCTACGATCTTAGACA CGACCA	59.7	822	INTERGENIC	--	--	--
Ca4_P3_44540601	Ca4	44540601	TAAAA/TAAAA	AACAATGGGGTCTATC GTGTG	GGACCCATGGTCAAGA AAGA	59.7	678	INTERGENIC	--	--	--
Ca4_P3_44540632	Ca4	44540632	TAAA/TAAAA	AACAATGGGGTCTATC GTGTG	GATTGGAACCATCGAG GAGA	59.7	896	INTERGENIC	--	--	--
Ca4_P3_44540915	Ca4	44540915	CAT/CATTGTGTTAT	TTTCTTGACCATGGGTC CTT	TTGGCCAAAAACGGTA AAAA	59.4	272	INTERGENIC	--	--	--
Ca4_P3_44543641	Ca4	44543641	TAAAA/TAAAA	CAAAATATGTTGGGCCA ATCC	GATCAAGTCCAGGGTT GTGG	60.0	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 (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
Ca4_P3_44545143	Ca4	44545143	AATAT/AAT	TTTTCAGCCCATTCCTT TTG	TAATATGCAAGTGGAG GCCC	60.0	910	INTERGENIC	--	--	--
Ca4_P3_44551806	Ca4	44551806	ATTTTTTT/ATTTTTTTTTTT	CTATTCTGCTGTGGGG GTGT	CCATGGATAATTGATT CGGG	60.0	854	INTERGENIC	--	--	--
Ca4_P3_44555024	Ca4	44555024	T/TGAGATGGAGA	TTTCTCAAGGATCAAAA TGGG	TGACCTGACATATTCC CACC	59.0	629	INTERGENIC	--	--	--
Ca4_P3_44558843	Ca4	44558843	AT/A	CTCTTCCACTAATCCGC AGC	TGCATGATTTTCATTTC GATG	60.0	536	INTERGENIC	--	--	--
Ca4_P3_44559914	Ca4	44559914	TTATATATATAT/TTATATATATAT	GCGGGGCATAAACTGA TAGA	CATTTTCATATCACCAA ATCACG	60.1	465	INTERGENIC	--	--	--
Ca4_P3_44561281	Ca4	44561281	ATTTTTTT/ATTTTTTTT	TCAAATCAAAGAATCAA CAACAAAA	TTCGGTTAATTTTGCCA GGA	59.9	561	INTERGENIC	--	--	--
Ca4_P3_44563494	Ca4	44563494	CTTCTTTT/CTT	GGCAAATCACATGCTA GGCT	TCGTCCAATCTTGTGG TTCA	60.2	513	INTERGENIC	--	--	--
Ca4_P3_4456690	Ca4	4456690	TAAAAAAAAAAAAA/TAAAAAAAAA	GTTTTGCAAATGTGCCA TATAA	TCCATTGTCATATGAG GCAT	57.7	764	INTERGENIC	--	--	--
Ca4_P3_44567598	Ca4	44567598	AGG/AGGG	AAAATTTTACGAGGATG AAGAAGTT	CTCGTCCATGAATCGG TTTT	58.0	732	INTERGENIC	--	--	--
Ca4_P3_44569146	Ca4	44569146	AGT/A	CGGAATTGGGATGAGA AAGA	GGACCTGTTTGTGTGG TGTG	60.0	986	DRR	Ca_09128	--	--

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 (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
Ca4_P3_44578743	Ca4	44578743	GAAAA/GAAAAA	TCATGAAGGAAAGCCA AACC	ATGGCTTGCAAGGTCA TAGG	60.1	845	INTRON	Ca_09129	T	WRKY
Ca4_P3_44578984	Ca4	44578984	TAAGA/TA	TCCAAGCTACCTCTTG GCAT	ATGGCTTGCAAGGTCA TAGG	59.8	394	INTRON	Ca_09129	T	WRKY
Ca4_P3_44581219	Ca4	44581219	GAAAAAAAA/GAAAAAAAAA	ATGATCGCAAAATGGA GAGG	CCTTTTGGCTGTACTG AGGC	60.0	597	INTERGENIC	--	--	--
Ca4_P3_44581553	Ca4	44581553	AATA/AA	GCCTCAGTACAGCCAA AAGG	GATGATGAGGTGCTTG CTCA	59.9	282	INTERGENIC	--	--	--
Ca4_P3_44584688	Ca4	44584688	ATTTTTTTTTT/ATTTTTTTTTTTTT	TTCCTGGACCAAAATTG ACA	TGCGAAACTTCTAAA TGCAA	58.9	837	DRR	Ca_09130	--	--
Ca4_P3_44585709	Ca4	44585709	GAATTAAATATAAATTAAATATA/GAATT AAATATAAATTAAATATAAATTAAATAT A	TTTCTATTTGGGGCCTA GCA	TCTCATTGTCACCGTT GCAT	59.7	587	INTERGENIC	--	--	--
Ca4_P3_44588070	Ca4	44588070	ATTTTT/ATTTTTT	GACTTTGATGAGATACC ATGCAG	TGCTTTAAAGGAATC ATGCAA	58.7	700	INTERGENIC	--	--	--
Ca4_P3_44601700	Ca4	44601700	TAAA/TAA	TGCAGGGATGAAATTC AAAAA	AGGACACGGATTCAAT TGGA	60.4	380	INTERGENIC	--	--	--
Ca4_P3_44606783	Ca4	44606783	ATTTT/ATTTT	TTTCTTTCCTACATAGC CAACCA	TGCGTGAGAAATGATT CTTGA	60.0	926	INTERGENIC	--	--	--
Ca4_P3_44607654	Ca4	44607654	TC/T	CACGCTTTAGGTTTGG CATT	AACAAAATTGTCCGG AGAC	60.1	750	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
Ca4_P3_44611189	Ca4	44611189	TTCTC/TTC	TTTTTGCCCTATCACC AAG	CGGTACAAAGTGGGAT CTGG	59.9	621	INTERGENIC	--	--	--
Ca4_P3_44613140	Ca4	44613140	T/TA	CCATCGTTGAAACGTT GTGAT	TGCGAGTTTCTTTATCA TTTCC	60.8	428	INTERGENIC	--	--	--
Ca4_P3_44617698	Ca4	44617698	TAAAAA/TAAAAAA	GCGTGAACACTGCACA CTTT	CAAAAGGATTCAAACG CCTC	60.0	492	INTERGENIC	--	--	--
Ca4_P3_44621340	Ca4	44621340	GATTTTAAATTTTAAATTTTA/GATTTTA AATTTTA	TACGTGCCTCCTCCAAT TTC	TTACAGGGAAGCATGG AAGC	60.1	489	INTERGENIC	--	--	--
Ca4_P3_44622646	Ca4	44622646	CT/CTGTCAGTTT	TGTTGAGTCGCCGTTA AATG	ACGCAAAGCACACACA AGAG	59.7	701	INTERGENIC	--	--	--
Ca4_P3_44633134	Ca4	44633134	ATTTTT/ATTTT	TCCAAAACCTCAGCAA GTGA	ACAAATAATGGAGGCA ACGC	59.4	805	INTERGENIC	--	--	--
Ca4_P3_44640556	Ca4	44640556	TG/T	GTTCTCATGGCCGGTA GTGT	ACAATCAGGATCGGTC GAAG	60.0	698	INTERGENIC	--	--	--
Ca4_P3_44640891	Ca4	44640891	TA/T	TTGCACCAGATTTTATT GGG	CAAAATTTGCGACTTG CTCA	58.5	748	INTERGENIC	--	--	--
Ca4_P3_44654593	Ca4	44654593	GAA/GAATCTAA	CCCATTCTTTTGGGTCA TTTT	GAGCCACCGTGATATT GTCC	60.0	462	DRR	Ca_09137	R	NF-YA
Ca4_P3_44662720	Ca4	44662720	TAA/TAAA	TTGGGTTGAAACATGT CAGG	TTGATGTTGGTGGGAT GATG	59.4	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
Ca4_P3_44670060	Ca4	44670060	AC/ACC	TGCCTAAGACCCCAAA TCAA	GCCACTTCTGGAATCA CCAT	60.4	682	DRR	Ca_09140	E	--
Ca4_P3_44672472	Ca4	44672472	G/GTT	TTTGATCGAACAATCAC CGA	CACATTCACATTGAATT TTGGAA	60.0	407	DRR	Ca_09139	--	--
Ca4_P3_44675409	Ca4	44675409	CGATTGATTGATTG/CGATTGATTG	TGCTTCAGCACTCTGC ATCT	GTTTTGGAAGGTTTG CAGC	59.9	519	INTRON	Ca_09140	E	--
Ca4_P3_44676740	Ca4	44676740	T/TG	TAAGGGCCCCATCATG ACTA	GAACAACGGAGGAGG TGGTA	60.3	462	INTERGENIC	--	--	--
Ca4_P3_44678267	Ca4	44678267	CTAATTAATA/CTA	CATTTTGCCGATCAGA GTCA	GCAGGAACATGTGGG CTAGT	59.8	694	INTERGENIC	--	--	--
Ca4_P3_44679413	Ca4	44679413	CATA/CATATATA	AATCCTCTATGGATGCC GTG	TTGTGGGATTAAGT CGAAAAA	59.9	707	INTERGENIC	--	--	--
Ca4_P3_44679485	Ca4	44679485	TCATG/TCATGCATG	AATCCTCTATGGATGCC GTG	TTGTGGGATTAAGT CGAAAAA	59.9	707	INTERGENIC	--	--	--
Ca4_P3_44680416	Ca4	44680416	TTTATTATTATT/TTTATTATTATTATT T	TGCCATCTTAAGTGACA CGC	AGGAACACATTGTGGG TGGT	59.9	206	INTERGENIC	--	--	--
Ca4_P3_44685070	Ca4	44685070	TAAAAAA/TAAAAAAA	TGTTTAGAGTCAGTGG GCTTCA	CCCCTTAATTACTTGT GTTGGG	59.9	129	INTERGENIC	--	--	--
Ca4_P3_44691108	Ca4	44691108	TTAATAATAATAATAAT/TTAATAAT AATAATAAT	CGAAAAATGGAGCAATG AGGT	TGGGTTGAAAAATAAA TGGAGG	60.1	539	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
Ca4_P3_44691175	Ca4	44691175	TCCC/TCC	ACGAAAATGGAGCAAT GAGG	TGTGTTGGGTGAGTG AAAA	60.1	912	INTERGENIC	--	--	--
Ca4_P3_44694055	Ca4	44694055	TTAT/TT	GAACGAGCTTGCAATG ATGA	AATCTTGAATGCCCGA TTTG	60.0	245	INTERGENIC	--	--	--
Ca4_P3_44694278	Ca4	44694278	ATTTTT/ATTTTTTT	GAACGAGCTTGCAATG ATGA	TGGAGAATTAAGCAAA GGGG	60.0	602	INTERGENIC	--	--	--
Ca4_P3_44694688	Ca4	44694688	TAGA/TAGAGA	GATTCGATCATCTGGG GAAA	AGGCTTCTGGTGCTGT TCTT	59.8	539	INTERGENIC	--	--	--
Ca4_P3_44694709	Ca4	44694709	TAGAGAG/TAGAG	GATTCGATCATCTGGG GAAA	AGGCTTCTGGTGCTGT TCTT	59.8	539	INTERGENIC	--	--	--
Ca4_P3_44706448	Ca4	44706448	CAAAAAAAAA/CAAAAAAAAA	ACTACTCCTCCCCTGG GAAA	GGTACTAGAGTTGCGG TGGC	59.9	811	INTRON	Ca_09141	O	--
Ca4_P3_44706474	Ca4	44706474	CAAAAAAAAA/CAAAAAAAAA	ACTACTCCTCCCCTGG GAAA	GGTACTAGAGTTGCGG TGGC	59.9	811	INTRON	Ca_09141	O	--
Ca4_P3_44706655	Ca4	44706655	GAAA/GAA	AATAACAAAGCACGC CTGG	GGTACTAGAGTTGCGG TGGC	60.1	576	INTRON	Ca_09141	O	--
Ca4_P3_44708231	Ca4	44708231	CAAAAAAAAA/CAAAAAAAAAAA	AGTCCAGTGGGCTGAA ACAG	CAAGTTCATTGCACCG TTTTT	60.3	759	INTERGENIC	--	--	--
Ca4_P3_44710328	Ca4	44710328	TTCTCTCT/TTCTCT	AGGAAGTGTCGCGGTT AAGA	TTTTTGTTGAATGGTG GAAAT	59.9	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
Ca4_P3_44710559	Ca4	44710559	GAAAAA/GAAAAAA	AGGAGTGGATGAGCCA AAAA	GGTGCTAAGTTCAAAC ACACAAA	59.7	822	INTERGENIC	--	--	--
Ca4_P3_4471270	Ca4	4471270	TTA/T	TTGGAATAGGAGCAGG ATGG	GGAGGACCGTGATCAA ATGT	60.0	424	INTRON	Ca_03810	GOT	--
Ca4_P3_44714173	Ca4	44714173	T/TC	AAGCTGAAATCGCTGA GAGC	TGGTACCCCATCCAAG GTAA	59.9	414	INTERGENIC	--	--	--
Ca4_P3_44714845	Ca4	44714845	A/ACACCC	GAAATGAGGAAGAGCA CCCA	GGCGTAGTGC GTGTG TAAA	60.2	457	INTERGENIC	--	--	--
Ca4_P3_44718399	Ca4	44718399	GGAGTGGTT/GGAGTGGTTGAGTGGT T	CAAAGATCGCGTCAAT GAGA	TGCAGTCGATAAATTC ACGC	59.9	617	INTERGENIC	--	--	--
Ca4_P3_44725079	Ca4	44725079	TTGT/TT	TTCAACCCCTTTTAGT GAA	TGCTTTAGTGTGGGG GTGG	57.2	838	INTERGENIC	--	--	--
Ca4_P3_44726033	Ca4	44726033	GTTTT/GTTT	TTCATGGCATCACAACC AAT	TATCCTCTCTCACGGT CCCA	59.8	155	INTERGENIC	--	--	--
Ca4_P3_44726266	Ca4	44726266	TAAA/TAAAA	TTCATGGCATCACAACC AAT	CAATTGCGGGTGGATT ATTT	59.8	751	INTERGENIC	--	--	--
Ca4_P3_44727882	Ca4	44727882	AATTTT/AATTTTAAATATTTT	CTCATTTTGCCAGTCCA TTT	TTGATCTCGTGTGAA TACTCG	57.7	379	INTERGENIC	--	--	--
Ca4_P3_44730412	Ca4	44730412	GAAA/GAA	AATGTAACAATTGCCGC ACA	TGTGGTTCCACCAATT TGAA	60.0	271	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 (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
Ca4_P3_44738779	Ca4	44738779	TT/TTAT	GGTTGCCTCTTTTACAT GGG	TCATGCATGGTTGGAA AAGA	59.4	649	INTERGENIC	--	--	--
Ca4_P3_44747851	Ca4	44747851	ATTTTTTT/ATTTTTTTTT	TGGACTTGTGAAGCAA GCCT	CTTCCCGTGTGCTT ACAT	61.0	580	INTERGENIC	--	--	--
Ca4_P3_44748836	Ca4	44748836	GATTAAATTAATTAATTAATTAATTAAT TAATTAATTA	CGCGTGTGATCATGAA AAAT	TTGCCTTTGTTTTCT TCA	59.5	732	INTERGENIC	--	--	--
Ca4_P3_44750728	Ca4	44750728	CAAAATTAATAATTAATA/CAAAATTAATA	CGGTCTAGGAAAAACA CCACA	AAAACCTAATGTTTGAC GAGTTGG	60.0	845	INTERGENIC	--	--	--
Ca4_P3_44750767	Ca4	44750767	TTAATAATAATAATAAT/TTAATAATAAT AATAATAAT	CGGTCTAGGAAAAACA CCACA	AAAACCTAATGTTTGAC GAGTTGG	60.0	845	INTERGENIC	--	--	--
Ca4_P3_4475741	Ca4	4475741	CTATATA/CTATA	ACCATCATCTGAGTCCA GGC	TCAAGGGTTGGTCCAA GAAG	60.1	673	INTRON	Ca_03810	GOT	--
Ca4_P3_44766738	Ca4	44766738	CTTTTTTT/CTTTTTT	CTTTGCATGTGATTGTT GGG	GAGCTAGGGCATTGTT CAGC	60.0	727	INTERGENIC	--	--	--
Ca4_P3_44771286	Ca4	44771286	CT/C	ATCGGATGTAAATTC CCC	TTGCTTCAGTTGGTGC ATTC	59.9	411	INTERGENIC	--	--	--
Ca4_P3_44776874	Ca4	44776874	TTAT/TT	GCCTCACTTTTATCCCC CTC	AACCTTACGATCCAAA GCCA	59.9	644	INTERGENIC	--	--	--
Ca4_P3_4478589	Ca4	4478589	TAAGTTAAAGTTAAAGTTAAAGTTAAAGTTA AAA/TAAGTTAAAGTTAAAGTTAAAGTTAAAA	TGTAGACGCGCAGAGA GAGA	AATCATTTGCCTGGTG CTTT	60.0	593	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
Ca4_P3_44787142	Ca4	44787142	CTGT/CTGTGT	TGGCTTCATTTCCATG TCA	ATTCCAAGAATAGCCG CCTT	60.0	246	INTRON	Ca_09144	--	S1Fa-like
Ca4_P3_4480276	Ca4	4480276	AA/AAGA	TGGTCACATGGAGGAT GAAA	GGTATTTTGACATGAA TATCCCTT	59.9	160	DRR	Ca_03809	--	S1Fa-like
Ca4_P3_4481679	Ca4	4481679	TAAAAAAAA/TAAAAAAAAA	TTTTGCTTTTGATTACT TTCTTTT	GTTCCGCCTCTTCTAC CTCC	57.2	314	DRR	Ca_03809	--	S1Fa-like
Ca4_P3_4482906	Ca4	4482906	C/CG	GATCACCACCACCTTG ATCC	ACTTGAAGTCGCCCTA GCAA	60.2	649	INTRON	Ca_03809	--	S1Fa-like
Ca4_P3_44833451	Ca4	44833451	CAAAA/CAAAAAA	AATACCCCAAAAAATG CCA	CGATCGGGAGAAACAG TGAT	60.1	417	INTRON	Ca_09148	K	--
Ca4_P3_44838837	Ca4	44838837	TC/T	TGAAGGAATGCTTCTTT GTTTG	GATGATTGCAACCAAC ATGG	59.4	304	INTERGENIC	--	--	--
Ca4_P3_44845646	Ca4	44845646	TCAAACAAAC/TCAAAC	AGTCCACACAAGCCTT CACC	GGAGCTTTTTCGTATG TGCC	60.2	797	INTERGENIC	--	--	--
Ca4_P3_44850456	Ca4	44850456	ATCTTTTT/ATCTTTTCTTTTT	GTTCCAACCAGGACCT GAAG	AGCTGGAGAGCAGAAT TCCA	59.5	746	INTRON	Ca_09149	--	--
Ca4_P3_44863007	Ca4	44863007	GAAAAAA/GAAAAA	TGAGCATGCAAAGTCC AATC	CAACCTCCAGTTTC ACAT	59.8	285	INTERGENIC	--	--	--
Ca4_P3_44865492	Ca4	44865492	TA/TAGA	TGACCATTGTGTGAAAA TGAGA	TGGTCGTAAAGTCAT TGGA	59.0	685	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 (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
Ca4_P3_44870852	Ca4	44870852	TCCC/TC	CGCGGGGATACGTTAG TTTA	GGCATGTCTAGCAGCA ATCA	60.0	572	INTRON	Ca_09151	R	--
Ca4_P3_4487086	Ca4	4487086	ATA/ACAGAAATATATTA	GGCCAAATGAAGGACT CAAA	CGTACGACGTCCTTCG TCAA	60.1	932	DRR	Ca_03808	--	--
Ca4_P3_44871777	Ca4	44871777	TTCACCACAAATAT/TT	TATTGGCGATTGGTTT GTGA	TTGCCAACCTTTGAAC AGTG	59.9	627	DRR	Ca_09151	R	--
Ca4_P3_44873586	Ca4	44873586	A/ATATAGCCCTATG	TGAAGGAGTTTGAAGC AGGAA	AGAAGCTTCAATGGTG TGGG	60.0	190	INTERGENIC	--	--	--
Ca4_P3_4487412	Ca4	4487412	AT/ATTAATAAAGT	TCAGACTCTCCCGAAC GATT	CGTACGACGTCCTTCG TCAA	59.8	281	DRR	Ca_03808	--	--
Ca4_P3_44887114	Ca4	44887114	GAAACAAA/GAAACAAAAACAAA	ATTAGGGGGTTGGGTG TTTT	AAAGGGCCACTCATGT TTTG	59.4	519	INTERGENIC	--	--	--
Ca4_P3_44887376	Ca4	44887376	TA/T	CAAAACATGAGTGGCC CTTT	AGTGTGGGTAACGGGT ATGG	60.0	487	INTERGENIC	--	--	--
Ca4_P3_4489505	Ca4	4489505	TTATA/TTA	AGTGGTCTGCAACATA GGGG	GAAATGCAAAATGCCT TGGT	60.0	698	INTRON	Ca_03808	--	--
Ca4_P3_44897706	Ca4	44897706	ATTTTTTTT/ATTTTTTTTTTT	ATTTGTTGGAGGATGG GTCA	CACTCTGTTCACGGC AAAA	60.2	623	INTERGENIC	--	--	--
Ca4_P3_44898118	Ca4	44898118	ACTAATATCTAA/ACTAATATCTAATATC TAA	TTTTGCCGTGAACAAGA GTG	CGATTGCACACGAGGA TATG	59.9	753	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
Ca4_P3_44901004	Ca4	44901004	GT/GTGTAT	AGCTTCAAGTGGCTGA AGGA	ATGAACACGGGCGTAT CTTC	60.1	527	DRR	Ca_09152	--	C2H2
Ca4_P3_44905023	Ca4	44905023	CAAAA/CAAAAA	TACAGTGTGTGGTGC CGTT	GACCAGTAAATGCCTT CCCA	60.1	516	INTRON	Ca_09153	--	--
Ca4_P3_44905077	Ca4	44905077	TTCTCT/TTCT	TACAGTGTGTGGTGC CGTT	GACCAGTAAATGCCTT CCCA	60.1	516	INTRON	Ca_09153	--	--
Ca4_P3_44917486	Ca4	44917486	AATATATATATA/AATATATATATATA	TTCCACCTTCAATGCAA CAA	TTTGGAATTGGTCCAA GAGC	60.1	899	DRR	Ca_09155	Q	--
Ca4_P3_44922267	Ca4	44922267	CTTTTT/CTTTTTTT	TGATTTGAGGGAGTTG GAGTG	CCCAATGTCCCGAT TCTG	60.1	676	INTERGENIC	--	--	--
Ca4_P3_44927225	Ca4	44927225	TTT/TTTATT	CGGGAGATACGTAGGA GCAA	GCTTGTGCATATCCCA ACCT	60.2	438	INTERGENIC	--	--	--
Ca4_P3_44933948	Ca4	44933948	TATCCAATTAAT/TAT	TGCGGCTCTTTGAGA CTTT	CCTCACTCTCGTTCAC CCAT	60.1	875	INTERGENIC	--	--	--
Ca4_P3_44940291	Ca4	44940291	TAGAGAGAGA/TAGAGAGAGAGA	CAATTATTTGGTGCAA AGCA	TGCTCTGATATGAGGC GTTG	58.7	538	INTERGENIC	--	--	--
Ca4_P3_44948033	Ca4	44948033	TAAGCT/TAAGCTATTTTCACAAGCT	ATAGGGGCTGCAAAGA GGTC	TCCTTTCATGCTTGTG CATC	60.6	975	INTRON	Ca_09157	G	--
Ca4_P3_44949173	Ca4	44949173	AA/AAATTA	TGACGTGTCCCGTAAC CTTT	ATAAGCCCATGTTGCG ACTC	60.4	565	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
Ca4_P3_4499622	Ca4	4499622	ACTAGCTATCCGCTAGCTA/ACTAGCT A	CCCGTCCCTAAACTCT CCT	CGTTCCACGGTTTGGT AGTT	59.6	657	INTRON	Ca_03808	--	--
Ca4_P3_45053104	Ca4	45053104	ATTTTTT/ATTTTTTTT	ATTGCCCTTCTTGCTTT CCT	TACCCCACTTTGGAGG AGTG	60.2	785	INTRON	Ca_09167	K	GATA
Ca4_P3_45059546	Ca4	45059546	AAACTACTT/AAACTACTTAAACTAC TT	CCCATTTCCTTGTGTG TTCTG	ATGATGTTGTGCATG TGCC	59.5	117	INTERGENIC	--	--	--
Ca4_P3_45059808	Ca4	45059808	TTA/TTATA	GCCACATGCAACAACA TCAT	AAATCCCCGAGCTTTG ATTC	60.4	595	INTERGENIC	--	--	--
Ca4_P3_45066858	Ca4	45066858	GATATATATATA/GATATATATATA	GGAGGGACCATGTTTT TGTG	TTCACTCTTGGCATC TTGA	60.2	544	INTERGENIC	--	--	--
Ca4_P3_4507040	Ca4	4507040	C/CTATTTAGCTG	GCGAGACGTGGAATTT TGTT	CTCTTCAGTTTTGGTC CCCA	60.1	319	INTERGENIC	--	--	--
Ca4_P3_4507391	Ca4	4507391	T/TTA	TTTGGGGACCAAACT GAAG	GCATATACGAGGAGAC CCGT	59.9	156	INTERGENIC	--	--	--
Ca4_P3_4507561	Ca4	4507561	AAT/AAATAT	TTTGGGGACCAAACT GAAG	TCCGAGCAACCACT TTCA	59.9	698	INTERGENIC	--	--	--
Ca4_P3_45081374	Ca4	45081374	ATTTT/ATTTT	TCGTTTTCTTCAAAGG TGG	TGCTGAGTTATGGCGT CTTG	60.1	917	INTERGENIC	--	--	--
Ca4_P3_45097980	Ca4	45097980	T/TTTTGA	CCCAATTCAATCCTCC AGA	GAGGCGGGGTGTATC ACTAA	59.9	454	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
Ca4_P3_45102000	Ca4	45102000	AATATATATATATATATAT/AATATATAT ATATATAT	CCGGAGCTTGAACGAA AATA	TCGCGTAATACTCAAA CCAAA	60.2	627	INTERGENIC	--	--	--
Ca4_P3_45102037	Ca4	45102037	CAATAATAATAATAATAAT/CAATAA TAATAATAATAATAATAAT	CAGCACATCACAAATCAT CCA	TCGCGTAATACTCAAA CCAAA	59.0	335	INTERGENIC	--	--	--
Ca4_P3_45108280	Ca4	45108280	A/ATT	CAGAAACAGTGAGCCA AGCA	AAAAACATTCCTCGCT TTTA	60.2	188	DRR	Ca_09170	--	--
Ca4_P3_45113591	Ca4	45113591	GATTATTATT/GATTATTATTATT	TTCGAGGAACCTTCGCA ATCT	TTATGTCAAGGCTCTC CGCT	60.0	652	DRR	Ca_09171	--	MYB_related
Ca4_P3_45115919	Ca4	45115919	CTT/CTTATT	TGCAGTGTTTGATTACG GGA	GGTGAAGATGATTCAA TTTCCTTT	60.1	774	INTERGENIC	--	--	--
Ca4_P3_45116369	Ca4	45116369	TA/T	AAAGGAAATTGAATCAT CTTCACC	GCAATTCCTGCTTTCT GTTT	59.7	385	INTERGENIC	--	--	--
Ca4_P3_45122277	Ca4	45122277	TAA/TAAA	GCGAGCGTATTGGTAT TGGT	ATGTGACAAATTGGGG GAAA	60.0	551	DRR	Ca_09172	T	--
Ca4_P3_45126116	Ca4	45126116	CGTTGTGTGTT/CGTTGT	AACATTGGGACTGCAC ACAA	GGCGGATGACGAGAAT ATGT	60.0	913	DRR	Ca_09173	T	NAC
Ca4_P3_45132405	Ca4	45132405	CT/CTTT	AGCTCGATCGGAGACA GGTA	GCAAAGTTGTAGTTT CGGC	60.0	347	INTRON	Ca_09175	S	--
Ca4_P3_45145450	Ca4	45145450	GAAAAAAAAA/GAAAAAAAAA	GCCTTGCTGGATTGC ATT	GAAAAACAATTGGCT ATTCACC	60.1	926	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
Ca4_P3_45153271	Ca4	45153271	CT/CTT	GACTGAGCCTTGCATC AACA	CATTGCGGTTTAGAAG GCAT	60.0	511	INTRON	Ca_09178	B	NAC
Ca4_P3_45154998	Ca4	45154998	CTGTG/CTG	ATGATGTGTGCAAACG GAAA	CTCACACGTGGAAGT GCAG	60.0	544	INTRON	Ca_09178	B	NAC
Ca4_P3_45159393	Ca4	45159393	GTTT/GTTTTT	TGGAGGCTTGCTTCAG ATTT	GACTTGTCCTGAAGG GCAT	60.0	793	INTRON	Ca_09179	P	--
Ca4_P3_45161056	Ca4	45161056	T/TG	GGATTGTGGAATTGGA TTGG	CAAGACACGTGCACAC ACAG	60.0	496	INTRON	Ca_09179	P	--
Ca4_P3_45165137	Ca4	45165137	A/AC	TTGTTCTTCTCCCCCT TCT	TTCAGCCCGCTAGCTA TGAT	60.0	669	DRR	Ca_09179	P	--
Ca4_P3_45166587	Ca4	45166587	AATAT/AAT	TTGTGTGCTGCAAGGT TCTT	ACACCAAATTCGGCAA ACTC	59.5	518	INTERGENIC	--	--	--
Ca4_P3_4516907	Ca4	4516907	AC/A	AAAATGCGTTTCACTCG GAC	GCACACTTGTGCTTGG AAGA	60.1	304	INTERGENIC	--	--	--
Ca4_P3_4516975	Ca4	4516975	ATT/A	AAAATGCGTTTCACTCG GAC	GCACACTTGTGCTTGG AAGA	60.1	304	INTERGENIC	--	--	--
Ca4_P3_4517051	Ca4	4517051	ATTT/ATTTT	AAAATGCGTTTCACTCG GAC	GCACACTTGTGCTTGG AAGA	60.1	304	INTERGENIC	--	--	--
Ca4_P3_4517104	Ca4	4517104	GATGAATTTATTAAT/GATGAATTTATT AATGAATTTATTAAT	AAAATGCGTTTCACTCG GAC	GCACACTTGTGCTTGG AAGA	60.1	304	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
Ca4_P3_4517245	Ca4	4517245	AAGA/AA	AAAATGCGTTTCACTCG GAC	CCGTTTTTCGTCACAA TTCA	60.1	550	INTERGENIC	--	--	--
Ca4_P3_45182355	Ca4	45182355	AATATATATATATATATATAT/AAT ATATATATATATATAT	TCATTGTCTTGGTCTTC CCC	GTGGTATTTAGTAAAAT GAATGTGTCA	59.9	428	INTERGENIC	--	--	--
Ca4_P3_45185940	Ca4	45185940	T/TG	TACTCGAGCACATGCA AACC	CTTTGAGGCTCCATA GCTG	59.9	510	INTRON	Ca_09180	K	TALE
Ca4_P3_45194041	Ca4	45194041	CAATA/CA	GAGCGAGTCAAAACCG AGTC	GCAAGCAATCAAGTAA AAATGG	60.0	597	INTERGENIC	--	--	--
Ca4_P3_45198346	Ca4	45198346	CGG/CG	TTGACTGAATGGAAAG CCAA	ACAATCAAGCGTCGGA AAAC	59.2	569	INTERGENIC	--	--	--
Ca4_P3_45199389	Ca4	45199389	TA/TAA	GCCAAACTCGTTGATT GGTT	TGTGGGTCTCATAAGG ACGA	60.0	573	DRR	Ca_09182	--	--
Ca4_P3_45201732	Ca4	45201732	TAA/TAAA	GTGAACTCCGGTTTG AGGA	GCACCAAGCACAGAAC AAAA	60.1	699	INTRON	Ca_09182	--	--
Ca4_P3_45205185	Ca4	45205185	TC/T	GGAAATGGGAGGAGG GAATA	TCGTGTTTTGAATAAAC AGGAAAA	60.1	300	INTERGENIC	--	--	--
Ca4_P3_45205721	Ca4	45205721	ACC/AC	CGTATTTTGCTTAAT ATTTCCTAA	CCTCCAACCCACTGAT CCTA	59.7	451	INTERGENIC	--	--	--
Ca4_P3_4521076	Ca4	4521076	AATATATATATATATATA/AATATATA TATATATA	CCACAGAAAATGTTGG GCTT	TCGTAAAATAGTTGGC CGGA	60.0	568	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 (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
Ca4_P3_45210841	Ca4	45210841	CAAA/CA	TGGATCTTTTGTGTCC CCT	ATGCTAAGCCACCAAC CAAC	59.4	680	DRR	Ca_09183	O	--
Ca4_P3_45221189	Ca4	45221189	GTTTTT/GTTTT	GCACTCAAAGAGCACC ATCA	CTGGCTCCGAAATCTA TTGG	60.0	505	DRR	Ca_09184	A	C2H2
Ca4_P3_45222131	Ca4	45222131	TA/TAA	CCACCTTGTTCCCACTC CTA	TCCAATGAATTTGGAG AGCC	60.0	334	DRR	Ca_09184	A	C2H2
Ca4_P3_45222380	Ca4	45222380	TA/T	TTAGCCAATCACCCCAA AAC	ATACGAAGCAACAAGC ACCC	59.8	353	DRR	Ca_09184	A	C2H2
Ca4_P3_45223304	Ca4	45223304	ATTACT/ATGAATTACTTACT	TGAAGAGGGGAAATAT GCAA	GAAAACGCTTTTATCAT CATCCA	58.2	442	INTERGENIC	--	--	--
Ca4_P3_4522341	Ca4	4522341	ATTTTTTTTTT/ATTTTTTTTTT	TTTGTCTGTGTGTTT TATGTTT	GGGCCGAAAATTTGTC ATT	57.7	276	INTERGENIC	--	--	--
Ca4_P3_45223941	Ca4	45223941	AGG/AGGG	CAGTTGATTGCATGCC TTATTT	TAGTAACATGCTGCAC CGCT	59.1	493	INTERGENIC	--	--	--
Ca4_P3_45226065	Ca4	45226065	CTTTTTTTTT/CTTTTTTTTTT	GAAAGACGGCTTGTTG CTTC	GAGACCGGCCAGGAA CTAAT	60.0	688	INTRON	Ca_09185	S	--
Ca4_P3_45226893	Ca4	45226893	TTC/TTCGTC	ATTAGTTCCTGGCGG TCTC	GGAGAGAGGACCCAC AAACA	60.5	868	DRR	Ca_09185	S	--
Ca4_P3_45228406	Ca4	45228406	ATTATT/ATTATTATTTTATT	GAGAGGGTGGCTAGTT GCTG	TTGACCCATTTTCGTAT CACTG	60.0	672	DRR	Ca_09185	S	--

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 (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
Ca4_P3_45228759	Ca4	45228759	CAATATATCTAATATATC/CAATATATC	TCAGTGATACGAAATG GGTCA	TTTGGTGATTGGCACA ACAT	59.0	484	INTERGENIC	--	--	--
Ca4_P3_45232759	Ca4	45232759	TAAAAA/TAAAAA	TGGCAAAATCCTTCACA ACA	AACGATGCAACCTTAC CCTG	60.1	181	DRR	Ca_09187	A	--
Ca4_P3_4523289	Ca4	4523289	TT/TTATAT	TGATAGAAAAATGATGC AAGAAGG	AATTTCCATGCCAACT GGA	59.6	454	INTERGENIC	--	--	--
Ca4_P3_4523557	Ca4	4523557	GAAAA/GAAAAA	GATTGATGCGAAGGAG GGTA	AACACCAACCACTCA CTCA	60.0	490	INTERGENIC	--	--	--
Ca4_P3_45236013	Ca4	45236013	CATGTGCGAACAATG/CATGTGCGAAC AATGTGCGAACAATG	CAAACCTGAAAAGGGC ACAT	TAACGATGGGATTGT CCAT	60.0	461	INTRON	Ca_09187	A	--
Ca4_P3_45245377	Ca4	45245377	TC/TCC	AGCATTGGAACCCAAA TGAG	AAAAACGCAGTATCCA TACAAAA	59.9	797	DRR	Ca_09188	--	B3
Ca4_P3_45247621	Ca4	45247621	TA/TAA	GTTGGAAGCCATGGTG AACT	TTTTGGTTTTCAAGTAT TGCA	60.0	430	INTERGENIC	--	--	--
Ca4_P3_45250720	Ca4	45250720	GTTTTTTTTT/GTTTTTTTTTTT	GGGACCCCAAAAGAA ACTT	TCCGAGGTCAACACA AAAT	60.2	706	INTERGENIC	--	--	--
Ca4_P3_45261057	Ca4	45261057	ATT/A	TGTATGTGGGAAATGG CAGA	CATAAAGCGGGTGAAG GGTA	59.9	816	DRR	Ca_09189	O	--
Ca4_P3_45265560	Ca4	45265560	TC/T	GGAAAGTCTCGATGGT TGGA	GCCCAATGAAGCAAA ACAT	60.1	664	INTRON	Ca_09190	--	--

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
Ca4_P3_45267760	Ca4	45267760	GT/GTAATCGTAATT	ATTGATGGCAAGAAAG GTGG	TTTCAGGCATATAGG GTGC	59.9	758	INTRON	Ca_09190	--	--
Ca4_P3_45269812	Ca4	45269812	TTATAT/TTAT	GAAGCATGGATGCTGG ATTT	TGACAGGCAACATTAT CCGA	60.0	742	DRR	Ca_09190	--	--
Ca4_P3_45274571	Ca4	45274571	T/TG	TCGAACGACAATCCAC ACAT	CGTGGGGGAAATTTT CTTT	60.0	518	DRR	Ca_09191	O	--
Ca4_P3_4527820	Ca4	4527820	GAAAAAAAA/GAAAAAAAA	TTTTCACGATACGGC TTTT	AATGTGCATCTGCCAC CATA	58.9	163	INTERGENIC	--	--	--
Ca4_P3_4527882	Ca4	4527882	AGG/AG	AAAAAGTTGGAGAAGG CGAA	AATGTGCATCTGCCAC CATA	58.9	118	INTERGENIC	--	--	--
Ca4_P3_45289876	Ca4	45289876	GAAAAAAAAA/GAAAAAAAAA	AAGCGAGCATCAGAGA AAGC	CTTGATGGCAAAACCC AAGT	59.9	269	INTERGENIC	--	--	--
Ca4_P3_45308407	Ca4	45308407	ACCAT/ACCATCCAT	TGTTAATCCAAACATGG CCC	GTTAGCAACATGTGCA TCGG	60.6	267	INTERGENIC	--	--	--
Ca4_P3_4532626	Ca4	4532626	GTATTATTA/GTATTA	TGAACCCCAAAATCAC CAT	CAAACATAGCGGGC ATTT	60.0	684	DRR	Ca_03806	--	--
Ca4_P3_4532666	Ca4	4532666	TAAAA/TAAAAA	TGAACCCCAAAATCAC CAT	CAAACATAGCGGGC ATTT	60.0	684	DRR	Ca_03806	--	--
Ca4_P3_45331096	Ca4	45331096	TAT/TATGAT	CACATGTCCATTCGGA GTGT	TCGACCAAGTATCAGC AAACC	59.4	748	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 (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
Ca4_P3_45335482	Ca4	45335482	ATTTT/ATTT	GTTCCGATCACATGGC TTCT	TGAGACGCTTTCGTCA CAAC	60.1	406	INTRON	Ca_09198	L	--
Ca4_P3_45341608	Ca4	45341608	AAGAGAATCGGA/AAGAGAATCGGAGA GAATCGGA	GCTGGACAAGTCTGCC AAG	CTAGTGTGCAGTGGTG CCAT	59.6	874	DRR	Ca_09198	L	--
Ca4_P3_45343872	Ca4	45343872	TCC/TCCCC	ATTAAGCGGAACAGAA GCGA	ATGCTGGAATTGTCTG GGAG	60.0	662	INTRON	Ca_09199	F	--
Ca4_P3_45350416	Ca4	45350416	ATTTTTTTTT/ATTTTTTTT	TGCATTTCCCTATTAA TGCAA	GTCTTGGTAGCGAGT TGGA	59.5	684	INTERGENIC	--	--	--
Ca4_P3_45351213	Ca4	45351213	A/AGT	TCAATCGTGTGCAAAAT CAC	TCATTTATTCGACTGTC GGC	59.7	446	INTERGENIC	--	--	--
Ca4_P3_45363153	Ca4	45363153	ATTTTTTT/ATTTTTTTT	GGCAAAACCAAGAGA ACCA	GATTTTGGCTGCTTA TGCG	60.1	400	INTERGENIC	--	--	--
Ca4_P3_45368976	Ca4	45368976	ATTTTTTT/ATTTTTTTT	TGAATTGGTTGAGTGA AAGGAA	CAATGAACTTTATGAA AGATAATGA	59.6	618	INTERGENIC	--	--	--
Ca4_P3_4537550	Ca4	4537550	AATAT/AATATATAGATAT	TGCATCGCCCATATCAA TAA	TATTGGACCGACCTG AAAA	59.9	511	INTERGENIC	--	--	--
Ca4_P3_45380400	Ca4	45380400	ACTACG/A	TTGCCGTTAATTCTTGG AGC	GTGGAGAAAACAACAA CGGG	60.2	774	INTERGENIC	--	--	--
Ca4_P3_45382285	Ca4	45382285	AATAT/AAT	CCTCAATGGAGGAACA AAGG	GCTGCGCACATCATCT CTAA	59.5	448	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 (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
Ca4_P3_4538536	Ca4	4538536	T/TC	CCGTACCAAAACAATC GTCC	TGCATCTATTCCAACC GTCA	60.2	597	INTERGENIC	--	--	--
Ca4_P3_45385545	Ca4	45385545	ACT/ATTATATATCT	CACCCATAATACTTTAT GAGATGGAA	CACAAATTAAGGGAAG GCGA	59.6	363	INTERGENIC	--	--	--
Ca4_P3_45388943	Ca4	45388943	TGGGGG/TGGGG	TGCTCATGGCTCAAGT TTGT	GAAAAATCGGAAGCTG GACA	59.4	465	INTERGENIC	--	--	--
Ca4_P3_45399782	Ca4	45399782	AG/A	GTTTGACAGCAAAGCG GAAT	ACAGCTTGCAACTGAT GTGG	60.3	334	INTERGENIC	--	--	--
Ca4_P3_45401996	Ca4	45401996	TAAAAAAAA/TAAAAAAAA	TTGATAGTGGCTGGCA CAAA	GGGGTTTTGTTTTGG TTTT	60.3	480	INTERGENIC	--	--	--
Ca4_P3_45404851	Ca4	45404851	GTTTCTTTTTTCT/GTTTCTTTTTTCTTT TTTCT	TTTCTTTTGTGTTTGCA GCG	GGGAGGAAAGTTGAAG TTGAAA	60.0	400	INTERGENIC	--	--	--
Ca4_P3_45407639	Ca4	45407639	TAA/TA	TCCCTTTGAAATTGTGG AGG	TAGCAACGCCAGTTGC ATAG	59.9	536	INTERGENIC	--	--	--
Ca4_P3_45411021	Ca4	45411021	AG/A	TGGTCCAACCTCATG GTCA	TTTAAAAGAACCACCC GCAC	60.1	760	INTERGENIC	--	--	--
Ca4_P3_45414589	Ca4	45414589	CTT/CTTT	TGCATAAATGCACGAT GAAAA	GTTCAAACCGGCAATG TCTT	60.1	740	INTERGENIC	--	--	--
Ca4_P3_45416085	Ca4	45416085	AAAAGAA/AAA	CCAATTCATGGTACAAG GGG	CCTGTTAACACACCCC CCAC	60.0	404	INTRON	Ca_09202	K	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 (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
Ca4_P3_45416148	Ca4	45416148	CAAAA/CAAA	CCAATTCATGGTACAAG GGG	CCTGTTAAACACACCC CCAC	60.0	404	INTRON	Ca_09202	K	TALE
Ca4_P3_45416537	Ca4	45416537	CTATAGT/CT	GTGGGGGTGTGTTAA CAGG	TCCATTCCATTTTGAA AGC	60.1	358	INTRON	Ca_09202	K	TALE
Ca4_P3_45421314	Ca4	45421314	CTTTTT/CTTTTTTTTTTT	TTCAACGGAGTTACAG CAAAAA	CAAAATGTCACCCTTAG TTGACG	59.8	257	DRR	Ca_09202	K	TALE
Ca4_P3_45431503	Ca4	45431503	TGAGAGA/TGAGA	GAGGGCAAGACCAAGA TCAA	TCACATGAATGCACAC AACAA	60.2	742	INTERGENIC	--	--	--
Ca4_P3_45431951	Ca4	45431951	AATATATATATATATATATA/AATATA TATATATATATA	TTTGTTGTGTGCATTCA TGTG	ATCACTTTTGTGCGTG GAAA	59.0	598	INTERGENIC	--	--	--
Ca4_P3_45441612	Ca4	45441612	CTATATATATATATATATATATATA TATAT/CTATATATATATATATATATA TATAT	TCTTGTCGCCTTTCCAA ACT	ATGGGTTTCATGTTTGA CCGT	59.9	225	INTERGENIC	--	--	--
Ca4_P3_45441733	Ca4	45441733	T/TTTAA	ACGGTCAAACATGAAC CCAT	ATTGTCGTGAGAATCG AGGC	60.1	525	INTERGENIC	--	--	--
Ca4_P3_45476868	Ca4	45476868	GAGAAAGAAAGAAAGAAAGAAAGAA GAAAGAAAGA/GAGAAAGAAAGAAAGA AAGAAAGAAAGAAAGAAAGAAAGA	AGCCCAATTGACAAAAC TGG	ACTCCATATGACGTGG CACA	60.0	571	INTERGENIC	--	--	--
Ca4_P3_4547758	Ca4	4547758	CAAA/CAAAAA	TTGCTAATTTTCGGATG CCT	TCTCGAGTTCAATGCG TCAC	59.7	617	INTRON	Ca_03803	--	--
Ca4_P3_4549797	Ca4	4549797	TTTC/TTTCTTC	GGGCAATTTGGAAGTT ACGA	TCTGCGCTATAAGCTG GGTT	59.9	383	INTRON	Ca_03803	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PilI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_45505990	Ca4	45505990	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT A/AATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTA	GAATCACGCAGCATTC AAAA	CGGAGATTGCAAGTAA AAGAGTC	59.8	402	INTERGENIC	--	--	--
Ca4_P3_45532146	Ca4	45532146	TTTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT/TTTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATT	GAAACCAGGAACCAA GACA	ATAGCGGAGACTTTGG GGTT	59.9	632	INTERGENIC	--	--	--
Ca4_P3_45582823	Ca4	45582823	GTIIIIIIIIIIII/GTIIIIIIIIIIII	TGGGATGTGACTAAAT GCCA	GGGACCAACAATAAAA ACGAAA	60.1	366	INTERGENIC	--	--	--
Ca4_P3_45586091	Ca4	45586091	GTIIIIIIIIIIII/GTIIIIIIIIIIII	GGAGGTCATGTGCTCC TCAT	TTTGCCCTTGATCTG GGAC	60.1	473	INTERGENIC	--	--	--
Ca4_P3_4561606	Ca4	4561606	AG/A	GGAACATGGCAAGGAA GTGT	TCGGCCCATTTAGCTC ATAC	60.0	609	INTRON	Ca_03802	UZ	--
Ca4_P3_45645932	Ca4	45645932	GT/G	AACTTGATGCCGAGTA GCGT	GCCGAATAAACCCCTC ACAA	59.9	713	INTERGENIC	--	--	--
Ca4_P3_45692476	Ca4	45692476	TAAAAAAAA/TAAAAAAAAA	TGTTGTTGTCGAATG GAAT	CACAAAGGCGTCAAAA CTCA	60.0	804	INTERGENIC	--	--	--
Ca4_P3_4570498	Ca4	4570498	GAAA/GAAAA	ACTGTTGCTCCTGGTG AGGT	TCATGGGACTGGACAA AACA	59.8	559	INTRON	Ca_03801	--	--
Ca4_P3_45740248	Ca4	45740248	TTATATATATATATATATATATAT/TT ATATATATATATATATATAT	ACCAAATCATAACCGAC CCA	TTGTTTTAAATCCGCAT CACA	60.1	375	INTERGENIC	--	--	--
Ca4_P3_45756329	Ca4	45756329	TC/TCAC	TATTTTGGATTTTGGCT CGG	AACAGAGGGGTGTGG AGTTG	59.9	512	DRR	Ca_18385	--	--

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 (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
Ca4_P3_4582555	Ca4	4582555	ATTT/ATTTT	TTGAATTTAAATCCGGG ATGA	GCTGCTTCACCTTCAC CTTC	59.2	816	DRR	Ca_03800	T	--
Ca4_P3_4588591	Ca4	4588591	TAAAAAAAA/TAAAAAAAA	TTTTCTCCATCGTTGA TCC	GACCACGTGTACCGTT GAAA	59.9	785	INTERGENIC	--	--	--
Ca4_P3_4589409	Ca4	4589409	AATTATTA/AATTATTAGATTATTA	TCATTTTCCGGCTGAGT ACA	TCGAAAGTTGGCTTTT CACA	59.3	832	INTERGENIC	--	--	--
Ca4_P3_4589677	Ca4	4589677	GACA/GA	TGGATTATCAATTGGGT AGGAA	AACGGAGGCAGTAATT GTCG	58.3	817	INTERGENIC	--	--	--
Ca4_P3_4590029	Ca4	4590029	C/CAT	TTTCGCTCAATGTGAAA AGC	CCACGATAACGATGTG ATGC	59.0	749	INTERGENIC	--	--	--
Ca4_P3_4593293	Ca4	4593293	A/ACTAAT	TGGATCAACACGTGGA AAAA	ACAATTGTTGCCAGGG GTAA	59.9	667	DRR	Ca_03798	--	--
Ca4_P3_4593540	Ca4	4593540	CTAATTAATTAA/CTAATTAA	TTGAGGAATGTAAGGA TGCCA	TTAATGGCGGCTACGT TTTC	59.4	928	DRR	Ca_03798	--	--
Ca4_P3_4594832	Ca4	4594832	GAAA/GAAAAATAAA	TATGAGTGGGGATGAT GGGT	CCTTGTTTCCCGCACA TAAT	60.0	403	INTERGENIC	--	--	--
Ca4_P3_46001807	Ca4	46001807	GATAATAATAATAATAATAATAATA ATAATAATAATAATA/GATAATAATAATA ATAATAATAATAATAATAATAATAATA	TTGCTCTACGTATCCC CAG	CTCAATCGTGGGTGAC CTTT	60.1	385	INTERGENIC	--	--	--
Ca4_P3_46004838	Ca4	46004838	TAAAAA/TAAAAAA	TGATTTCATGAGAGGA TTTTGTT	GCTCGATTGATGTAA GGGC	59.0	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 (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
Ca4_P3_46144676	Ca4	46144676	TAAAA/TAAAAA	AGTTGGAAGTCGTCGA CAAAA	GTTGCGCCCATGAACT AAAT	59.8	253	INTRON	Ca_18357	--	NF-X1
Ca4_P3_46377599	Ca4	46377599	CATATATATATATATATATATATATAT ATATATAT/CATATATATATATATATA TATATATAT	ATGGGAACCCACAAC AATC	CCACATGCTATTTAAT CTTTGGA	59.5	732	INTERGENIC	--	--	--
Ca4_P3_46378685	Ca4	46378685	GTTATTATTATTAT/GTTATTATTATTAT TAT	TCAACCTCTCACTCCAA CCA	AGGATAACATGCTTTG GTGTTG	59.2	551	INTERGENIC	--	--	--
Ca4_P3_46493029	Ca4	46493029	AATATATATATATATATATATATA/AA TATATATATATATATATATA	GGGAAAGTGATATTGG GGGT	CAAAGCTCCTTCAATT GTCTTG	59.9	407	INTERGENIC	--	--	--
Ca4_P3_46494989	Ca4	46494989	GATGATATAT/GAT	TGAATTCGACTTGATT CCAA	CTTGTTTGAACCCAT TGCT	58.2	622	INTERGENIC	--	--	--
Ca4_P3_46496090	Ca4	46496090	TAAAAAAAA/TAAAAAAAAA	AAAGTGGGGTCAACTT TTTGAA	TGTCAAGGAGACCCAC CACT	59.9	481	INTERGENIC	--	--	--
Ca4_P3_46508599	Ca4	46508599	AATATATATATATATATATATA/AATA TATATATATATATATA	AAAGGGGGAGTATTGT TGGG	CAAAGCTCTTTCATAAT TGCTTGA	60.0	492	INTERGENIC	--	--	--
Ca4_P3_46537753	Ca4	46537753	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATA	CAGCGAAATGTTAAGT GCTTTT	CGTTCTCTCCTCCCT CCTC	58.6	610	INTERGENIC	--	--	--
Ca4_P3_46555948	Ca4	46555948	TATTTTAATTTTAATT/TATTTTAATT	GCTATGGGTTCAAGTTT CGG	CACCTCCCTTAATGTC CTGG	59.6	785	INTERGENIC	--	--	--
Ca4_P3_46638195	Ca4	46638195	TTATATATATATATA/TTATATATATA TATA	GCGTGGAAATGAGCAA TTTT	GATTGAATTGCGGTGA AGGT	60.1	328	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
Ca4_P3_46674801	Ca4	46674801	A/AG	GGATGACTCGAAACGG TGTT	TTACCCAAAACCCCAA ATCA	60.0	667	INTERGENIC	--	--	--
Ca4_P3_46677829	Ca4	46677829	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATAT ATATATATA	TCCTCTCATAACGGGG TTTG	GGATGCAGATTTTCCT CGAA	59.9	330	INTERGENIC	--	--	--
Ca4_P3_46707184	Ca4	46707184	AATAT/AATATATAT	AGGGATGGATTA AAAA CGGG	AGATTTAGAGGGGGCA CACA	60.0	302	INTERGENIC	--	--	--
Ca4_P3_46711100	Ca4	46711100	TAAAAA/TAAAAA	CCTTTTCTTGGTGGG GAAT	TGTATGACGATGTC ACTTTGAA	60.2	629	INTERGENIC	--	--	--
Ca4_P3_46711273	Ca4	46711273	AATA/AA	TTGACCAAAATCGCTG CTAA	AGACTAATGACCTCGC CACG	59.4	880	INTERGENIC	--	--	--
Ca4_P3_46711486	Ca4	46711486	ATTTTTTTTT/ATTTTTTTTTT	AAAGGTGATTCGCTAT CGG	ATGCTTTTTACCATCC TCG	59.2	915	INTERGENIC	--	--	--
Ca4_P3_46711628	Ca4	46711628	GTTATAG/GTTATAGACTTATAG	TCATTTACTCGTGCATG AAAGTT	ATGCTTTTTACCATCC TCG	58.8	685	INTERGENIC	--	--	--
Ca4_P3_46716313	Ca4	46716313	GTA/G	AGATTGACGAGGAAGC TGGA	GCATGGGGATAAAAGC AAGA	60.0	592	INTRON	Ca_19246	S	--
Ca4_P3_46716677	Ca4	46716677	TAAA/TAA	AGATTGACGAGGAAGC TGGA	CTCTGCTTG CAGGGTT AAGG	60.0	947	INTRON	Ca_19246	S	--
Ca4_P3_46730464	Ca4	46730464	CTTTTT/CTTTTTT	CATTAGTCCACGTTGCT TCG	TAACAGACCCGTGCAA TGAG	59.3	271	INTRON	Ca_19245	P	--

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
Ca4_P3_46732510	Ca4	46732510	G/GCA	CGGTATAGCCTGGGAA ATGA	GATGGAAGGAATGCCA AAGA	59.9	766	DRR	Ca_19245	P	--
Ca4_P3_46734440	Ca4	46734440	CACAT/CACATTCATCTACAT	TGATTCCCTTCGAACA AGC	CCACTCCCAGATCTTT GCAT	60.2	748	INTRON	Ca_19244	--	bZIP
Ca4_P3_46759531	Ca4	46759531	CG/C	TGGATTTTGTGAAGA TGATGA	TCTTTGCGGTGCCTT AACT	59.4	173	INTERGENIC	--	--	--
Ca4_P3_46770853	Ca4	46770853	AT/A	AAGTCAAGGAACACG GATG	AAAGCAAAGCCACCAA AATG	60.0	575	INTRON	Ca_19241	OE	WRKY
Ca4_P3_4693642	Ca4	4693642	GAAAAAAAAA/GAAAAAAAAA	CTCGCTACATTCCACC CAGT	CTTAGGAGTGGTGCTC CTCG	60.1	643	INTERGENIC	--	--	--
Ca4_P3_47193005	Ca4	47193005	TTTAT/TTTATTAT	CAATGTGGGTGAATTT GCTG	GATTCTGGCAAATTCG TCGT	60.0	287	INTRON	Ca_10862	--	--
Ca4_P3_47193746	Ca4	47193746	CTACT/CTACTCCTCCCTTTACT	TGAAATCCCTCCTTC CCT	AATCCTCCAAGTCCAA CTGC	60.0	162	INTRON	Ca_10862	--	--
Ca4_P3_47197291	Ca4	47197291	CATACCGATACCGA/CATACCGA	CCATGACAAAATAGGA GGCAC	TTACCAAGTGTTGCT TCCA	59.4	467	DRR	Ca_10862	--	--
Ca4_P3_47206262	Ca4	47206262	A/ATAT	TCACCATTCAATCATTT TTGG	CCCAGAAAGATTTTA CGCA	58.3	550	INTERGENIC	--	--	--
Ca4_P3_47206655	Ca4	47206655	CTTTTTT/CTTTTT	TGCGTAAATCTTTCTC GGG	TGATGAAGTCGTTGAA GTTAGGA	60.2	454	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
Ca4_P3_47211846	Ca4	47211846	TG/TGG	TTGAAATGCAACCTTGT CCA	AAGCCCCTGCTTTGAT TTCT	60.1	774	DRR	Ca_10861	--	LBD
Ca4_P3_47211909	Ca4	47211909	GCTTGACTCTTGACTCTTGACT/GCTT GACTCTTGACT	CAGCGGGGGAATATTA TCAA	AAGCCCCTGCTTTGAT TTCT	59.8	542	DRR	Ca_10861	--	LBD
Ca4_P3_47226196	Ca4	47226196	GAAAAAAAA/GAAAAAAAAA	TAGCCTTGACCCAAAC CAAC	CCATTCAAATCCTTCAT GGC	60.0	684	INTRON	Ca_10859	F	--
Ca4_P3_47228872	Ca4	47228872	T/TA	CCCTCATCCACACCTG TTTT	TGATTTTGATGAAAAGT TTGCGC	59.8	489	INTERGENIC	--	--	--
Ca4_P3_47238699	Ca4	47238699	ATTT/ATT	TTTTGATCGAATCTGAC CCA	TCGGCCATTTTCTTCA ATC	59.0	659	INTERGENIC	--	--	--
Ca4_P3_47239694	Ca4	47239694	A/AT	TCAATTTGCATTGGTC GAA	TGAAACGTTTTTAATGA TTTGATTG	60.1	491	INTERGENIC	--	--	--
Ca4_P3_47239747	Ca4	47239747	A/AT	TCAATTTGCATTGGTC GAA	AATGATGCACGACAAT TAAGC	60.1	655	INTERGENIC	--	--	--
Ca4_P3_47239785	Ca4	47239785	T/TA	TCAATTTGCATTGGTC GAA	CGTTGATTAATGATGC ACGA	60.1	663	INTERGENIC	--	--	--
Ca4_P3_47242175	Ca4	47242175	AAATAATAATAATAATAATAA/AAAT AATAATAATAATAATAA	CGCTCCTAATCCACAC CAT	TTTCTCGCATGCATTCT CAC	60.0	835	INTERGENIC	--	--	--
Ca4_P3_47249263	Ca4	47249263	GAAA/GAA	TTCTCTTCTTCTACGG CCA	TCAAAATTGATTCCAA CCTCA	59.9	663	DRR	Ca_10856	--	B3

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
Ca4_P3_47249646	Ca4	47249646	TTAATTCTATAATTAATACTAATTCTAT/ TTAATTCTATAATTAATACTAATTCTAT AATTAATACTAATTCTAT	TTGAACAATTTGAGGTT GGAAA	GATTGATTGATGGG ACCG	59.5	258	DRR	Ca_10856	--	B3
Ca4_P3_47306163	Ca4	47306163	AATATATATATATATATATATAT/AATAT ATATATATATATATATATATATAT	GCAAATATCGGTCAATC ATCA	GCATGGAGAAATTGGA AGGA	58.4	545	INTERGENIC	--	--	--
Ca4_P3_47410517	Ca4	47410517	CAAAA/CAAA	TTCTAACGCAAGGCA GGTT	GAAGCTATGGTGAGA CCCA	59.9	304	INTERGENIC	--	--	--
Ca4_P3_47457546	Ca4	47457546	CATTATTATTATTATTATTA/CATTATTA TTATTATTATTATTATTA	GTTGGGATGAAACT GGAA	CCTGGAAACATTAATT CCCC	59.8	543	INTERGENIC	--	--	--
Ca4_P3_4763939	Ca4	4763939	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA/TAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAA	ATGGTAATCACGTTGG GAGG	AGAATGTTGCACAATC AAGGAA	59.7	809	INTERGENIC	--	--	--
Ca4_P3_47669226	Ca4	47669226	AG/A	GATTCACCCAAAGTGG GCTA	AGCTGCTAAATCCTCC GTCA	59.9	611	INTERGENIC	--	--	--
Ca4_P3_47685878	Ca4	47685878	AATATATATATATATA/AATATATATATA TATATATATATATA	AAATTAAAGTTTCAAA CACGG	CCGACGAAATAAGTCC CTCA	57.3	667	INTERGENIC	--	--	--
Ca4_P3_4769266	Ca4	4769266	TTATATATATATATATAT/TTATATAT ATATATATATATAT	ATACCGATGCAGTACC CGAG	TGTTTGCCAACCATAT GTGAA	60.0	375	INTERGENIC	--	--	--
Ca4_P3_47757234	Ca4	47757234	CTATATATATATATATATATATATAT/ CTATATATATATATATATATATATATA TATATAT	TCTGTGTCCTTTCTT GCT	CCTTGGGTTGCTGAAA ATTG	60.0	203	INTERGENIC	--	--	--
Ca4_P3_47762380	Ca4	47762380	CT/CTTT	TGCTGGTTTTAATTTTG GGG	ATTGTGGGGTCTGAAA GTGC	59.8	727	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
Ca4_P3_47961387	Ca4	47961387	TG/T	GCTGCTCTATGCATTG CTG	GAGCATGGACGTTTGG ATT	59.7	527	DRR	Ca_10794	--	ARF
Ca4_P3_47982672	Ca4	47982672	TC/TCC	CCAACTCCAATCAAAT GGG	CAAATGAGAATTTTCT GGGCA	60.2	483	INTRON	Ca_10790	U	ARF
Ca4_P3_47991117	Ca4	47991117	GTTTTT/GTTTTTTT	ATTAGCCACGACGATG GTTC	TGGTGTACATGTAGGC GTGC	60.0	564	DRR	Ca_10789	--	B3
Ca4_P3_48074355	Ca4	48074355	TG/T	GGTCGACATGACATCA CTAAATG	AGTGTCAAAGGGGGA GGAAG	59.4	601	INTERGENIC	--	--	--
Ca4_P3_48202910	Ca4	48202910	AAATAA/AAA	TCGTCCTTACACCGGA AAAC	CAAGTTTCGGTTGACT ATACACG	60.0	638	INTERGENIC	--	--	--
Ca4_P3_48206793	Ca4	48206793	CAT/CATAT	TATTTGGCCAACAGGA AAGG	AGAGCTGATTTGGTTC CTCG	59.9	893	INTERGENIC	--	--	--
Ca4_P3_48208929	Ca4	48208929	TC/T	AAGTTTTGAATACCGC AAAAT	AAGCTGCGATGGGACA ATAC	57.0	490	INTERGENIC	--	--	--
Ca4_P3_48218216	Ca4	48218216	TATTA/TATTAATTA	CAACTTGAATTTGGTTT GGCT	TCTGTCGGCAGATAAC CCTT	59.1	885	INTERGENIC	--	--	--
Ca4_P3_48218409	Ca4	48218409	CATAT/CAT	AAATTTGAAGTCCGGC ATGA	CGAGTGAGTGCAGCTG GTTA	60.4	359	INTERGENIC	--	--	--
Ca4_P3_48243356	Ca4	48243356	CCTTCT/CCT	TGCATTTGTTGGACGC TTAG	AAATCGATAGTTTTGG CCCC	59.9	601	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
Ca4_P3_48247972	Ca4	48247972	TA/TACAA	AAAATTGCCCTGTTCC TTG	TCCAGTAGCAAAATGG CACA	59.1	195	INTRON	Ca_10763	--	--
Ca4_P3_48254564	Ca4	48254564	ATAAAA/ATAAAAAGTAAAA	GGAGTCGACGAAACCA ACTC	TTTTCTGTCCGCAAAT CTGA	59.7	730	INTERGENIC	--	--	--
Ca4_P3_48254866	Ca4	48254866	AT/A	AATCAGATTTGCGGAC AGAAA	CGTATTTGCAAAAATTC ATTCG	59.7	269	INTERGENIC	--	--	--
Ca4_P3_48268958	Ca4	48268958	AA/AAGA	CAATCTTGCCTTCCCAA AAA	AATTGCTGCTGCTGAG GTTT	60.0	914	INTRON	Ca_10760	Q	B3
Ca4_P3_48279856	Ca4	48279856	A/AC	TATCCTCCAACACCCG AGAC	CGATTTTAACTTTACCG TGACCA	59.9	673	INTERGENIC	--	--	--
Ca4_P3_48301621	Ca4	48301621	CCT/C	GGCAAAGGCAGAGAAG ATTG	GGGAACAAAACAGCTT CCAA	60.0	187	CDS (FRAME SHIFT)	Ca_10758	J	--
Ca4_P3_4830250	Ca4	4830250	A/ATTATTATAGTTAT	CAACATGGGCAACAAG ACAC	CCCTTCCCTTCATC ATTT	60.0	273	INTERGENIC	--	--	--
Ca4_P3_48309823	Ca4	48309823	CAAATTTAAATTT/CAAATTT	TGCCTCCACAAACGTC ATTA	TGAAAACCCTAATCTC CGCA	60.1	832	INTERGENIC	--	--	--
Ca4_P3_48310392	Ca4	48310392	CACCGTTAGTTTT/C	TTTCTGCTGCGGAGAT TAGG	TCGAAGCAAAAACACA TTGC	60.5	419	INTERGENIC	--	--	--
Ca4_P3_48314680	Ca4	48314680	ATTT/ATTTTT	GTAATGCGTTTGACCT GCAA	ATAGGCGCATCTCAAT CACC	59.7	649	DRR	Ca_10756	--	BBR-BPC

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 (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
Ca4_P3_48314994	Ca4	48314994	CGAGTAGAGT/CGAGT	TGCGCCTATCTCTGT GTG	TTCGATCCATTTACCA CCC	60.2	365	DRR	Ca_10756	--	BBR-BPC
Ca4_P3_48317503	Ca4	48317503	CATATATATATATATATATATAT/CAT ATATATATATATATATATAT	CAAATCGGAAATCATG GGA	TGGACTTCTTCACCTTT CCA	60.6	731	INTERGENIC	--	--	--
Ca4_P3_48318546	Ca4	48318546	ATTTTATTTTT/ATTTT	TGTCTTTTGTGATATA CTTATTGC	CTCACCGTTTCACGTG ATTG	58.0	867	INTERGENIC	--	--	--
Ca4_P3_48323352	Ca4	48323352	CCAAACACAAACACAAACAC/CCAAAC ACAAACAC	TTTCTGCAGCCGAATT TTT	CATTGAAATTGCTTTC CCC	59.8	625	DRR	Ca_10755	--	bZIP
Ca4_P3_48332119	Ca4	48332119	ATTTT/ATT	AAAGTGCATTAAACGG CCAC	TGTTCTCGAAGGATT GGTC	60.0	455	DRR	Ca_10753	J	--
Ca4_P3_48339026	Ca4	48339026	ATT/ATTT	TGCCAACATGCATCTAT CGT	TGCATGACACATCTAT CAAATACG	60.1	419	INTERGENIC	--	--	--
Ca4_P3_48340135	Ca4	48340135	TAAA/T	TCCAAACAAAGTGGAG ATGC	TTGGTCCCTGGTAGCT TACG	58.7	369	INTERGENIC	--	--	--
Ca4_P3_48351278	Ca4	48351278	TAATTCCAATTCCAATT/TAATTCCAATT CCAATTCCAATT	GACACGTGATGTCTCT GTAATGG	AATGTATGTATCGAGA GCGCC	59.5	651	INTERGENIC	--	--	--
Ca4_P3_48391760	Ca4	48391760	TCC/TCCC	TTCCATTGGGAGAGTC ACCT	ACCGGTTTATGGATCC CAAT	59.5	615	INTERGENIC	--	--	--
Ca4_P3_4839788	Ca4	4839788	A/ATTTT	ACGTAATACTTTGTGGC GGC	TCTCTCTTTGTGACG GCTT	60.0	138	DRR	Ca_03775	--	--

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
Ca4_P3_48404970	Ca4	48404970	GTTTAATTT/GTTTAATTTTAATTT	TTGCATGACTGCTTTTG GAC	TTGTCATTGTTGCGGT TTGT	59.8	514	INTERGENIC	--	--	--
Ca4_P3_4840884	Ca4	4840884	AC/A	TTGGGCCTTTGTGGAG TAAG	TACCAAAGTGGTGATG GTGG	60.1	496	DRR	Ca_03775	--	--
Ca4_P3_48411520	Ca4	48411520	ATTTTTTT/ATTTTTTTTT	CTACAGGTCGCACGTT CTCA	TCGAAACAGACTTTTT GGGC	60.0	795	INTERGENIC	--	--	--
Ca4_P3_48414498	Ca4	48414498	ATCAATTTCA/ATCA	ATGAGCATAGCATGTG CCAG	ATGCACCCATTACAT TCAA	59.9	664	INTERGENIC	--	--	--
Ca4_P3_48441010	Ca4	48441010	TAA/TAAA	TCCGAGTCACAGATCC ATCA	TCATGCATTAATGTCAA CCTCA	60.2	338	INTERGENIC	--	--	--
Ca4_P3_48443075	Ca4	48443075	ATTT/ATTTT	CCGGTTGTTAGCTTGT TTGC	CAATAGGATGGATGGT TGGG	60.7	609	INTERGENIC	--	--	--
Ca4_P3_48453417	Ca4	48453417	ATATTTATTTATTTATTTATT/ATATTTAT TTATTTATTTATTTATT	ACCACCACCACCACTA CCAT	CACCTCCCCCTGTTTA TTCA	60.0	561	INTERGENIC	--	--	--
Ca4_P3_48453751	Ca4	48453751	A/AT	GTTCCACCACCGCAAA TATC	GGTGGTGGTAGGAAAA GCAA	60.2	742	INTERGENIC	--	--	--
Ca4_P3_48454259	Ca4	48454259	CTTTT/CTTT	TTGCTTTTCTACCACC ACC	CAGCAGAGTCCAATTC AGCA	60.0	376	INTERGENIC	--	--	--
Ca4_P3_48454771	Ca4	48454771	GTGCTGTTGCTGTTGCTGTTGCT/GTG CTGTTGCTGTTGCT	TGCTGAATTGGACTCT GCTG	TCACTTGATCCTCCAA ACCC	60.1	548	INTRON	Ca_10747	--	--

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
Ca4_P3_48461232	Ca4	48461232	TAGAG/TAG	TGCAAAGTTCGATCGG AATAA	AATTCTCACCACCAC CCAC	60.6	483	INTERGENIC	--	--	--
Ca4_P3_48465591	Ca4	48465591	GAAA/GAAA	ATAATGATCCCGTTG GACA	GCCTTTCCTTGACAGT CTGC	60.0	699	INTRON	Ca_10746	LA	--
Ca4_P3_48465859	Ca4	48465859	GTTTTTTTTT/GTTTTTTTTT	TGTGTGTCTCAGTGGT GGGT	GCCTTTCCTTGACAGT CTGC	60.0	619	INTRON	Ca_10746	LA	--
Ca4_P3_48473482	Ca4	48473482	TG/TGG	CTCCACGGGGTAACCC TAAT	TAATGGAACCATGACC ACCC	60.1	652	DRR	Ca_10745	L	bHLH
Ca4_P3_48493001	Ca4	48493001	CTTTTT/CTTTTTT	TGGATTCTTTTTGGCTA GAACC	TTGTTAGCCTGTCGCT CTCA	59.6	456	INTERGENIC	--	--	--
Ca4_P3_48495755	Ca4	48495755	T/TTTTG	CGATCTTCCACCGTCA GATT	CAATCCAAGCAACCGA AACT	60.1	684	INTERGENIC	--	--	--
Ca4_P3_48497163	Ca4	48497163	AAATAAT/AAAT	ATGTTGCAAAACATGAG CCA	ACAAAATCGCCGATGG TAAC	60.1	768	INTRON	Ca_10742	V	GRAS
Ca4_P3_48507473	Ca4	48507473	AT/ATATGTT	GGAATTCTGCACCCAA CAAT	GCCCACTCCTATCTGA CTCG	59.8	428	INTERGENIC	--	--	--
Ca4_P3_4851248	Ca4	4851248	TAA/TA	GGAATGCATGGTATCC AACC	CAGCACTTCTCCCTTT TCCTT	60.0	678	INTERGENIC	--	--	--
Ca4_P3_4851664	Ca4	4851664	CAGGAAAAGGAAAAGGAAAAGGAAA GG/CAGGAAAAGGAAAAGGAAAAGG	TGGCATAGCAACAGA GAAGG	GGCCAAATAAATGATG GCAC	60.4	311	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
Ca4_P3_48518535	Ca4	48518535	AATAT/AATATAT	TGGTGGTTGACCACAA AAGA	ATCATCTTTGGCAGTA GCGG	60.0	927	INTRON	Ca_10740	--	C2H2
Ca4_P3_48518860	Ca4	48518860	TATGTAATAAATTGAT/TAT	CATCAAGCTGTTTCGTCA TGC	ATCATCTTTGGCAGTA GCGG	60.4	287	INTRON	Ca_10740	--	C2H2
Ca4_P3_4852153	Ca4	4852153	TATTTAATTT/TATTT	TGGCTCCAACAACATCT TCA	ACCCCTTGGTCCAAC AAAT	60.2	549	INTERGENIC	--	--	--
Ca4_P3_48574983	Ca4	48574983	AAAAATTAAATTAAATTAAA/AAAAATTAAA TTAAA	GCAACAATTGAATCAAC CCC	CTTCATGAATTGCACC ATGC	60.2	705	INTRON	Ca_23007	P	--
Ca4_P3_48576925	Ca4	48576925	AT/ATT	ATCTCACCCCAAGACAA CCA	TCATTCCAGAAGGAGA TGGG	60.4	211	INTRON	Ca_23007	P	--
Ca4_P3_48577228	Ca4	48577228	A/AC	AACACATCCGGGATCC ATTA	TGATGACGAAGACGAA GACG	60.0	303	INTERGENIC	--	--	--
Ca4_P3_4858835	Ca4	4858835	G/GGT	TTCAGGCCAATTTTACG AGG	ATGTTCAATTTCTTCGC GCT	60.1	753	INTRON	Ca_03773	--	--
Ca4_P3_4859197	Ca4	4859197	GTCT/GT	TCCAGTTTTGGTTGCT GAGA	TAGGCATCACCGTTGT GTGT	59.4	737	INTRON	Ca_03773	--	--
Ca4_P3_4859261	Ca4	4859261	TATTAATTAATTAATTAAT/TATTAATTA ATTAAT	TCCAGTTTTGGTTGCT GAGA	TAGGCATCACCGTTGT GTGT	59.4	737	INTRON	Ca_03773	--	--
Ca4_P3_48596162	Ca4	48596162	CATATATATATATATATATATATATATAT ATATA/CATATATATATATATATATATAT ATATATATA	TGAGATTAATCGGTGG GAGC	CACTGCAAAATGTTGA AGCAA	60.0	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 (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
Ca4_P3_48632628	Ca4	48632628	CTATATATATATATATA/CTATATATA TATATATATATA	CCATGCGAGAAATTGA GGAT	TTTCCCTTTTTCAC CCA	60.0	438	INTERGENIC	--	--	--
Ca4_P3_48662498	Ca4	48662498	A/ATATATCAAAC	CGTTATAATATCGGTT TTGATTAGA	AAATAAATAGCGCTGG CACC	59.8	609	INTERGENIC	--	--	--
Ca4_P3_48664333	Ca4	48664333	G/GGGTTGGAGGTAT	GTGCCGCATTATCCT TAGT	AAACTGGTTGACGGGA TCTTT	60.1	504	INTERGENIC	--	--	--
Ca4_P3_48670171	Ca4	48670171	AATTTA/AATTTATTTA	TATCTCCATGGCGTCA CAAA	CTGCGCCGACTAACAA TACA	60.1	589	INTERGENIC	--	--	--
Ca4_P3_48670468	Ca4	48670468	GATA/GATAAAATCTTATA	CTGTATTGTTAGTCGG CGCA	CCGACCCAACACGTTA TGA	59.9	620	INTERGENIC	--	--	--
Ca4_P3_48683487	Ca4	48683487	TAAA/TAAAA	GTGTTTGTGCGATGAT TTGG	TGGCATCATAAATTTGT GTGTGTA	60.0	200	INTERGENIC	--	--	--
Ca4_P3_48684109	Ca4	48684109	TAAA/TAAAA	CGACAAAATTTAGTTGA ATCTCTATGA	GTGCAAAATATCAACGC CCTT	59.2	649	INTERGENIC	--	--	--
Ca4_P3_48684917	Ca4	48684917	ATTTTTTTT/ATTTTTT	ATCGCAACAACGCATT AAA	ATCCAACACCCAAACC CATA	59.2	838	DRR	Ca_23019	R	--
Ca4_P3_48685664	Ca4	48685664	AAAGTTAAG/AAAGTTAAGTTAAG	ATGGGGTGGAGGAAAA TAGG	GGGTGATTGATCGTTC AAAAG	60.0	757	DRR	Ca_23019	R	--
Ca4_P3_48685955	Ca4	48685955	TGAA/T	GGCAAAGCCTATCACT GCTC	CTCCAAAAATGGACGG ATTG	60.0	810	DRR	Ca_23019	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 (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
Ca4_P3_48692254	Ca4	48692254	GTGATAT/GTGATATGATAT	TCCCGACATTGTGGGT TAAT	TTGTGAAATGTTGAT GGTCTTG	60.1	749	INTERGENIC	--	--	--
Ca4_P3_48694696	Ca4	48694696	ACG/A	AAATGTGGGCCAATGG ATTA	GGGCTGTTGTTCGTCA AAAT	60.0	620	INTERGENIC	--	--	--
Ca4_P3_48708820	Ca4	48708820	AC/ACTTGACCATTTTC	CGGCGACATTGAGTTT GTAA	GCACGTGTTGAAATGT CTGC	59.7	630	DRR	Ca_23020	Q	Nin-like
Ca4_P3_48708876	Ca4	48708876	TTTTATTT/TTTT	CGCCACTTGTATTTCAA GCA	GCATCAGCTCTCCAG CTTC	59.9	517	DRR	Ca_23020	Q	Nin-like
Ca4_P3_48716729	Ca4	48716729	AATA/AATACATGGTTACATA	GACCAGAAAGCCCAAT TGAA	CCGATTCGTGGTCTGT TTTT	60.1	576	INTRON	Ca_23021	U	--
Ca4_P3_48724001	Ca4	48724001	GATATATATATATATA/GATATATATATA TATATATATA	TTCTTCAGGTGGTTGC TTCC	TTTTGGTTCGTGGCTT TTTC	60.2	154	INTERGENIC	--	--	--
Ca4_P3_4873540	Ca4	4873540	TACACACACACACACAC/TACACAC ACACACACAC	CACCACCCAAGAAAG GAAA	ATGATTGCTCCCTAGC AGGA	59.9	466	DRR	Ca_03771	Z	NAC
Ca4_P3_48758329	Ca4	48758329	C/CAAGT	TGCTCAATTCGAACACA ATCA	AAGCGACTAACATGAT TTTCCA	60.3	904	INTRON	Ca_23023	--	FAR1
Ca4_P3_48769759	Ca4	48769759	A/AATC	TTTCAATGAAGCCTAGT CCG	TTAAGGTCGCGCATGA TTGT	58.0	605	INTRON	Ca_23023	--	FAR1
Ca4_P3_48772855	Ca4	48772855	T/TA	GGTTGGAAACGGA AACA	CATTGGTCGGACTAAC AACTCA	59.8	696	DRR	Ca_23023	--	FAR1

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
Ca4_P3_48789337	Ca4	48789337	GTATA/GTATATA	TTTCCTTGTTGTGGAAT TTGC	ACCGTCAAATTTTTCG ATGC	60.0	555	DRR	Ca_23024	--	FAR1
Ca4_P3_48793977	Ca4	48793977	TAAAA/TAAAAAA	TTACGGTCGAAAATGAA GGG	TCGGGTAGCACAATCT TCAA	59.9	640	INTERGENIC	--	--	--
Ca4_P3_48794099	Ca4	48794099	TAA/TA	TTACGGTCGAAAATGAA GGG	TCGGGTAGCACAATCT TCAA	59.9	640	INTERGENIC	--	--	--
Ca4_P3_48798808	Ca4	48798808	TTATAT/TTATATAT	AACGAAAGAGAAATGG AATATGAA	ATGCTGCAAAGAACAA CGTG	58.3	534	INTERGENIC	--	--	--
Ca4_P3_48813159	Ca4	48813159	TAAAA/TAAAAA	TGGCTTCACCAATGATT TGA	AATGGGATCAACAAAG GCAA	60.0	322	INTERGENIC	--	--	--
Ca4_P3_48837715	Ca4	48837715	ATT/ATTT	TGTGTAACGGGTAAGA AATACGG	CAAATACATCATCAC GCGG	60.2	630	INTERGENIC	--	--	--
Ca4_P3_48849335	Ca4	48849335	TATAACAAT/TATAACAATAATAACAAT	TTGGGTGTATAATGATA GCGAAA	GAGGGACTAGCTACCC CGAT	58.6	441	INTERGENIC	--	--	--
Ca4_P3_48850057	Ca4	48850057	GA/GATCA	GCATCAATATGAATCAC CAATCA	TGACGATTTTATTTACG CCAA	59.7	857	INTERGENIC	--	--	--
Ca4_P3_4888138	Ca4	4888138	CTT/CT	AAAAGCCTCACCAGGG ATCT	TGCCATCTTTCTTGCT GTTG	60.1	698	INTRON	Ca_03769	Z	NAC
Ca4_P3_4891737	Ca4	4891737	AATTATTATTATTATTATT/AATTATTAT TATTATTATTATT	TGCCTTGATCGTTCCA TCA	TTCTGCTTTTCTTTC CGA	60.1	540	INTRON	Ca_03769	Z	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_4891996	Ca4	4891996	GAAAAAAAA/GAAAAAAAAA	TCGGAAAGAAAAGCA GGAA	GGCAAATTGCTACTGA AGGG	59.9	265	INTRON	Ca_03769	Z	NAC
Ca4_P3_4892454	Ca4	4892454	C/CT	CAGTAGCAATTGCCCC TCC	GCTTGGATTGATGGAC AGGT	59.7	552	INTRON	Ca_03769	Z	NAC
Ca4_P3_4893509	Ca4	4893509	CTTT/CTTTT	CAGCGTTTTGTCGCA GTAA	GCCGAAGTTGAAGGAC AGAG	60.1	480	INTERGENIC	--	--	--
Ca4_P3_48939492	Ca4	48939492	ATCT/ATCTCT	TGTCTCATGATTGTCCA GGG	CCCATTGTGCAGGAGA ATTT	59.5	249	DRR	Ca_20762	R	NAC
Ca4_P3_4897344	Ca4	4897344	ATTT/ATTTT	CTCTGCAGCCTTGATT GGTT	ATGGAGTATGGGGCTG TGAC	60.4	278	INTRON	Ca_03768	K	--
Ca4_P3_48975362	Ca4	48975362	GAAAA/GAAAAA	TGGTTGGGATTTTGG GTAA	GACCCTCTCCTCTCAA TCCC	60.0	672	INTERGENIC	--	--	--
Ca4_P3_48975458	Ca4	48975458	AC/A	TGGTTGGGATTTTGG GTAA	GACCCTCTCCTCTCAA TCCC	60.0	672	INTERGENIC	--	--	--
Ca4_P3_4900827	Ca4	4900827	CT/CTT	TCCAAATTTTGACCATT GTCTG	TGAACCAACATCATA TGCC	59.8	536	INTERGENIC	--	--	--
Ca4_P3_4902894	Ca4	4902894	TAATAAAATAAAATAAA/TAATAAAATA AAA	CCCCGTGAGTTGAATT TTGT	AAATCAGGGCAAATG GTGA	59.8	748	INTERGENIC	--	--	--
Ca4_P3_49073579	Ca4	49073579	GTT/GT	GTGACTTGGAGGGAGT GGAA	ATCCGCTAACCAATCA CAGC	60.1	453	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 (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
Ca4_P3_4908883	Ca4	4908883	T/TA	CAAACCTTTTCCCACGC AAT	TCATCATTGTGCCGTC ATT	60.0	318	DRR	Ca_03767	F	--
Ca4_P3_49160495	Ca4	49160495	TGGGTTTAGG/TGGGTTTAGGGTTAG G	CCGGGGAGAATAGGAA GAAC	CCCCAACCCCTAAACC CTAA	59.9	459	INTERGENIC	--	--	--
Ca4_P3_4917872	Ca4	4917872	ATTTTT/ATTTTT	TCAATGTCATCACAA TGCC	AAGTTGATGAAAATTG GCGG	59.3	522	INTERGENIC	--	--	--
Ca4_P3_4923832	Ca4	4923832	CAAAA/CAAA	AGGTGAGGCAGGCAGT AAAA	TTTTTCGGACTTGGTC CTTT	59.9	783	INTERGENIC	--	--	--
Ca4_P3_4925562	Ca4	4925562	TT/TTCT	GAAAGATGCCCTAAGG AGCC	ATGCCAATTGCTTTATT GGG	60.2	893	INTERGENIC	--	--	--
Ca4_P3_4934099	Ca4	4934099	ATTTTTTTTT/ATTTTTTTTT	TGTGCAACTTTTAAATT CAATTCG	CAACAAACGAGGGACC AGTT	60.4	657	INTERGENIC	--	--	--
Ca4_P3_5028595	Ca4	5028595	GTTTTTTTTT/GTTTTTTTTT	TGATAAAAGGGGAAA ATCC	CGCATCCCAGATCTA ACAT	57.8	163	INTERGENIC	--	--	--
Ca4_P3_5190499	Ca4	5190499	GTTTTTTT/GTTTTTTT	CGCGTGCAAAAAGTTG TTTA	GATCCTTGAGCAGTTG AGCC	59.9	674	DRR	Ca_03734	E	--
Ca4_P3_526483	Ca4	526483	TGAGAGAGAGAGAGAGAGAGAGAG AGAG/TGAGAGAGAGAGAGAGAGA GAGAGAG	GGGATTTTAAAAACG CTCA	AAACGGTGTGGTCCAA AAAG	60.1	524	INTERGENIC	--	--	--
Ca4_P3_5306497	Ca4	5306497	CGGGG/CGGG	ATGGGAGAACGCTGCA TTAC	TAGATGATCGCACGAG ATGC	60.1	257	DRR	Ca_03727	QR	B3

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
Ca4_P3_5472447	Ca4	5472447	TGAGATAGAGATAGAGATAGAGATAGA GA/TGAGATAGAGATAGAGATAGAGAT AGAGATAGAGA	GATACGAATTCGGTG CTCC	TTGAAATTTTGTCA CTCCAAA	59.5	677	INTERGENIC	--	--	--
Ca4_P3_5618841	Ca4	5618841	TTTATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT A	GTGTTCTGATGTTTG CCA	GCAACTTCGAGATGCG ACTT	59.5	752	INTERGENIC	--	--	--
Ca4_P3_5629484	Ca4	5629484	CATATATATATATATATATATATATAT AT/CATATATATATATATATATATATA TATATAT	TATCGCAAACCGGTCA ATTT	GGGCACGTGGATTT GTCT	60.3	906	INTERGENIC	--	--	--
Ca4_P3_5642060	Ca4	5642060	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATA TATATATATAT	TGGTGGTTGTTGTCT CTCA	CACCATGATTGGGGA TAAG	60.1	463	INTERGENIC	--	--	--
Ca4_P3_5670743	Ca4	5670743	CGGGG/CGGG	CACCCAAACCACTAA CTCG	GTGCATGATCAGATCG CTGT	60.4	647	INTRON	Ca_03681	BDT	MYB_related
Ca4_P3_5712745	Ca4	5712745	CTTTTTTT/CTTTTTTT	TGTTCCCTCAAAAGGAA TGC	AACAATGTGAGAGCTT CCCC	60.1	714	INTERGENIC	--	--	--
Ca4_P3_571676	Ca4	571676	CTATATATATATATATATATATAT/CT ATATATATATATATATATATATATAT	GTGGTGGCCATAATGC TTCT	TGCGCTTAGCTTTGAT TCCT	60.0	731	INTERGENIC	--	--	--
Ca4_P3_5793201	Ca4	5793201	TAAAA/TAAA	GA CTGCCACCGACCAC TTAT	GGTCACACCGTTCAGC TTTT	60.0	469	INTERGENIC	--	--	--
Ca4_P3_5931137	Ca4	5931137	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATT/ATATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT	CCAGCCCAATTTACATG CTT	CCGCCCATTTCAACTT TTTA	60.0	527	INTERGENIC	--	--	--
Ca4_P3_6117419	Ca4	6117419	AG/A	TCGGACAATTTTATGCC TCC	ATCAAAGGACGACCCA GTTG	59.9	743	DRR	Ca_03633	--	--

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
Ca4_P3_6182357	Ca4	6182357	TTATA/TTATATA	ACAACCAATGATCGAA GCC	TGGCCCTCTAATTCTG CACT	59.9	743	INTRON	Ca_03625	K	TALE
Ca4_P3_6209314	Ca4	6209314	TTATATATATATATATATA/TTATATA TATATATATA	AAACTGTTAGACTTTGC AGGATGA	TCGCCCTTAAATTTG ACAC	59.4	205	INTERGENIC	--	--	--
Ca4_P3_6280527	Ca4	6280527	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTAT/TTTATTATTATTATTATTATTA TTATTATTATTATTATTATTAT	ATTACAGGCTGCCAAC AACC	TCAACAAACACAGCAG CAGA	60.0	336	INTRON	Ca_03615	E	--
Ca4_P3_6324755	Ca4	6324755	ATTAATAATTTAATAATTTAATAATT/AT TAATAATTTAATAATT	TGGGTGGAACATGACA GAGA	ATTTTGCCATTTGGGA TTGA	60.1	588	INTERGENIC	--	--	--
Ca4_P3_6526377	Ca4	6526377	AATATATATATATATATAT/AATATATAT ATATATAT	AGCACGGCCGACTTTTA TTTT	ATGCCAACTTTCAGC CATC	61.0	706	INTERGENIC	--	--	--
Ca4_P3_6530860	Ca4	6530860	CATATATATATATATATAT/CATATATAT ATATATAT	AATTGTGGGTCTGACG TAAAAA	ATCCACAAACCAATG AAGC	58.5	728	INTERGENIC	--	--	--
Ca4_P3_6542618	Ca4	6542618	TAAAAAAAAA/TAAAAAAAAA	CCACTTTGGTCTGCCA TTCT	GCTCACGCGTTAAAG ACTC	60.1	706	INTERGENIC	--	--	--
Ca4_P3_6549650	Ca4	6549650	TAAAAA/TAAAAA	TTTCGAAAATGCCAAAC CTC	AGCCACAGACCTCTC AAAA	60.1	370	INTERGENIC	--	--	--
Ca4_P3_6596665	Ca4	6596665	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GAAGTGCAAGTATTG GGGC	TTGGGCAAGATAAAA TCCG	59.6	405	INTERGENIC	--	--	--
Ca4_P3_6603972	Ca4	6603972	TAAAAA/TAAAA	ACATCCCAACCCCTTTC ACT	TTGTCGGACCAAGTCA ACTG	60.6	140	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
Ca4_P3_6699109	Ca4	6699109	TT/TTCTTGTCAGT	AAGCGAAATGGTTGG ATCA	TGCGTGCGTATAGGCT ATTTT	60.4	172	CDS (large-effect mutations)	Ca_03576	--	WRKY
Ca4_P3_6732926	Ca4	6732926	TTTTTTTT/TTTTTTTTT	AAAAACACTCGCCGTG AGAT	TCCAACCGTGAACCTCA TCAA	59.7	435	INTERGENIC	--	--	--
Ca4_P3_6907181	Ca4	6907181	TTATATATATATATATAT/TTATATATAT ATATAT	TTTGAAATGGCGACTTC CTT	CCAAATGGCAACTTCC AACT	59.7	569	INTERGENIC	--	--	--
Ca4_P3_6923630	Ca4	6923630	AATATATATATATATATATA/AATATATA TATATATATATATA	CGTTTGGTCTATCGTC GGTT	AGTGGGGGACTGTGTT GAAG	60.0	277	DRR	Ca_03547	Z	--
Ca4_P3_6965934	Ca4	6965934	AATATATATATATATATATA/AATATATA TATATATATA	TGTTTGGAAGCTCTTAC CCC	CCCTCCAAACTAAAATT TTCTCC	60.0	584	INTERGENIC	--	--	--
Ca4_P3_6966183	Ca4	6966183	TAAAAAAAA/TAAAAAAAAA	TTTTGAGCCAAAATCA CCTG	TAGATGGGAGGAGTTC CGCT	60.1	964	INTERGENIC	--	--	--
Ca4_P3_6998635	Ca4	6998635	CGGGGG/CGGGG	ACTTTGCGTGTGATAA CCC	GGCAGCGAAAAGATCA AATC	60.0	345	INTERGENIC	--	--	--
Ca4_P3_7089091	Ca4	7089091	GA/GAACAAAAGAGATTCACA	CTTTGCATACCCCTCTC GAC	TTGGGAGGATTGGTTT CAAG	59.7	644	INTERGENIC	--	--	--
Ca4_P3_7106451	Ca4	7106451	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATATA TATATATATATATAT	GGAGTCGCCACCAAAG TTTA	ACAACGACTCAAATGC GACA	60.1	512	DRR	Ca_03527	--	--
Ca4_P3_7110091	Ca4	7110091	ACT/ACTCT	GTTGCACTGCAGCATC AAAT	AGAAGACTAGTCGGCG AACG	59.9	513	DRR	Ca_03526	--	--

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
Ca4_P3_7132134	Ca4	7132134	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CACACCAGGGGAGACT CACT	GTCTCCCTACCCAC ATT	60.2	595	INTERGENIC	--	--	--
Ca4_P3_7180004	Ca4	7180004	ATTTTTTTT/ATTTTTTTT	ATGGTTACCAGCTTTG GCCT	TATAGTGGTGTTTGG CACG	60.9	427	DRR	Ca_03517	--	GRAS
Ca4_P3_719535	Ca4	719535	TTTTTTTAAAAAATTTTTTAAAAAT/TTT TTTTAAAAAT	GCAACAAGTCAGCAAC GGTA	CATGTTTGATTCCATT TCCA	59.9	675	INTERGENIC	--	--	--
Ca4_P3_7213997	Ca4	7213997	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GCATGCAAAATTTTATA TTGTTATTGT	TGCTCATGTCTCTCG GTCAA	58.9	849	INTERGENIC	--	--	--
Ca4_P3_7221356	Ca4	7221356	ATTTTTTTTT/ATTTTTTTTT	ACAAACTCGTCTCCG CCTA	AAGCCAATTCGATTGT GTCCG	59.9	836	INTERGENIC	--	--	--
Ca4_P3_7278135	Ca4	7278135	TTATATATATATATATATATATATATATA TATATAT/TTATATATATATATATATATA TATAT	GGGACAATCCGCTTTG ATTA	TGGATTTTGCCTCCTT CATC	59.9	468	INTERGENIC	--	--	--
Ca4_P3_730137	Ca4	730137	TTATATATATATATATATATAT/TTATAT ATATATATATATAT	GTCAACCTTGGTGCTT GGTT	AAGTATTTCCGCCTGT CACG	60.0	775	DRR	Ca_07702	G	--
Ca4_P3_7359661	Ca4	7359661	ATTTT/ATTT	ATGTGGGAACAATTGA AGGC	CGCAGCAACATTCAAG AAAA	59.8	578	INTERGENIC	--	--	--
Ca4_P3_7360660	Ca4	7360660	TTTTATTTATTTATTTATTTATTTATTTA TTTA/TTTTATTTATTTATTTATTTATTTA TTTA	ACTACGAAAACGGTCA TCCG	CAAGCATGCTCTATCT CTTACG	60.0	380	INTERGENIC	--	--	--
Ca4_P3_7388463	Ca4	7388463	CAAAAAAAAAA/CAAAAAAAAAA	TTTTCTCTAATCCCCGA CTCA	TGTTGTTGTCAAACAC CTCAA	58.8	565	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 (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
Ca4_P3_7591008	Ca4	7591008	CATATATATATATATATATATATATA/ CATATATATATATATATATATATATAT A	CCATCCACAGTTTCTC CGT	GACACGGTTGTTAAT TATAATCGC	60.0	817	INTRON	Ca_03476	--	MYB
Ca4_P3_7710147	Ca4	7710147	AATATTATTATATATTAATATTATTAT ATATTATTATATATTA	TCGTTACCCCTCTCGT CATC	ACAGAATGCCTCATTG GTGG	60.1	927	DRR	Ca_03470	R	Nin-like
Ca4_P3_7773804	Ca4	7773804	CTTTTTTTTT/CTTTTTTTTTTTTT	CTTTGCCACGGTTCAAT TCT	GGACAAAAGTTGGCA AAGG	60.1	226	DRR	Ca_03463	--	--
Ca4_P3_7783679	Ca4	7783679	GATATATATATATATATATATATATA TATATA/GATATATATATATATATATA TATATATATATATA	GGAATATTCATTTGCAT GTTGG	GACAAAACGTGCGACA AAAA	59.2	639	INTERGENIC	--	--	--
Ca4_P3_7798738	Ca4	7798738	CA/C	CATTAAGTGCCTGT TTGAA	TCTGTGCACTCCACCT GTTC	60.0	758	INTRON	Ca_03459	--	--
Ca4_P3_7825515	Ca4	7825515	TAAAAAAAAA/TAAAAAAAAA	TGCACAAAATAAAAC ATTTCAA	AAAGGATGGAAGCCCA TTTT	58.7	959	DRR	Ca_03457	G	NAC
Ca4_P3_7835255	Ca4	7835255	AAATATAATATAATATAATATAATATA/ AAATATAATATAATATAATATAATATA TATAA	GCATATTCATGGCATAC CCC	CAACCAGTGATGTTGG TTGC	60.0	865	INTRON	Ca_03455	--	--
Ca4_P3_7937193	Ca4	7937193	TAAAAAAAAA/TAAAAAAAAA	GCTCCGGTCAAACACA ATTT	GAAATTTGAAAGGCAT GGGA	60.0	403	INTERGENIC	--	--	--
Ca4_P3_7978076	Ca4	7978076	TATCTAAATCTAAAT/TATCTAAATCTAA ATCTAAAT	GCATCCATGAAACGA CCTT	CCCTTACGTGGTAACA TAACACA	60.1	847	INTERGENIC	--	--	--
Ca4_P3_8003681	Ca4	8003681	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATATAT	AATGTGTCTCGCCGT TAAA	TAGGGGGATGATGTG GAAAA	60.5	565	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
Ca4_P3_80132	Ca4	80132	G/GA	CCGTTTGGATTGTCAG GACT	TCGTTGAAAGCTGGAG GTCT	60.0	382	INTERGENIC	--	--	--
Ca4_P3_8098817	Ca4	8098817	ATTTT/ATTT	CAAATGGGCCTAAAGA GCTG	GCCTCGGGGATGTTAG TGTA	59.8	463	DRR	Ca_03422	T	--
Ca4_P3_8109119	Ca4	8109119	TAAAAAA/TAAAAAAA	TAATCCACGTGTTGAG GGGT	AAGGAACCACTGGTGC TATTT	60.2	449	INTERGENIC	--	--	--
Ca4_P3_8109188	Ca4	8109188	CTTTTTTTTT/CTTTTTTTTT	TAATCCACGTGTTGAG GGGT	CAAATTTTTTAAACAAA ACCGACA	60.2	804	INTERGENIC	--	--	--
Ca4_P3_813651	Ca4	813651	ATTATTATTATTATTATTATTATT TATT/ATTATTATTATTATTATTATT ATTATTATTATT	TGTCACATTTATTCAAC CGCA	TGACTCAAAGTGCAAC CAGC	60.0	862	INTERGENIC	--	--	--
Ca4_P3_8167017	Ca4	8167017	CAAAA/CAAA	GGGTGGGTTTAGAGGA CCAT	TTCTTGAATGGGCAA AACC	60.1	259	DRR	Ca_08305	V	GRAS
Ca4_P3_8167238	Ca4	8167238	ATCTT/ATCTTCTT	GGGTGGGTTTAGAGGA CCAT	TGAAGCTTTTGTCTAC AAGGAA	60.1	737	DRR	Ca_08305	V	GRAS
Ca4_P3_8167347	Ca4	8167347	ATATTATTTT/ATATTATTTTATTATT TTTA	GGGTGGGTTTAGAGGA CCAT	TGAAGCTTTTGTCTAC AAGGAA	60.1	737	DRR	Ca_08305	V	GRAS
Ca4_P3_8169626	Ca4	8169626	TAAATAAAAA/TAAATAAAAAATAAAAA	TATGGCACCTCCAGTT GAAA	TGTTAAATCCTCCAGA CGGC	59.1	858	INTERGENIC	--	--	--
Ca4_P3_8170540	Ca4	8170540	TAAAAA/TAAAAA	TCAACCCCTTTGTAGTT TCACA	CTGCCAACTCCAAAAG ATACC	59.5	713	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
Ca4_P3_8171433	Ca4	8171433	ATATTCAGAATTAT/ATAT	TCAATTTGGTCTTTCCG CTC	AAAGTTTGTCTCCAGT CCCA	60.2	451	INTERGENIC	--	--	--
Ca4_P3_8172016	Ca4	8172016	T/TC	CTAGTGTTCGGCAACA AACG	GCCTCAATTGGAGTTT GCTC	59.4	204	INTERGENIC	--	--	--
Ca4_P3_8173142	Ca4	8173142	TAAAAAAAA/TAAAAAAAA	TCCATCACACAATTGAA GGC	TGAATGTATCGCGTTG TTGG	59.5	569	INTERGENIC	--	--	--
Ca4_P3_8173292	Ca4	8173292	GT/G	TCCATCACACAATTGAA GGC	TGAATGTATCGCGTTG TTGG	59.5	569	INTERGENIC	--	--	--
Ca4_P3_8173963	Ca4	8173963	TTAT/TTATAT	GAAGCTCGCTTTATCCA ACG	TCCACGGAATTTTCTG CTTC	60.0	147	INTERGENIC	--	--	--
Ca4_P3_8174018	Ca4	8174018	TAA/TAAA	GAAGCTCGCTTTATCCA ACG	TCCACGGAATTTTCTG CTTC	60.0	147	INTERGENIC	--	--	--
Ca4_P3_8178683	Ca4	8178683	TCCC/TCCCC	CGTCATTGATTGGTGT GGTC	GCCTTGTGAGATTGGA TGCT	59.8	574	DRR	Ca_08307	R	B3
Ca4_P3_8183910	Ca4	8183910	TAAA/TAA	AACTCAATCCAACCAAG CCA	TCACCACACCAACCTC AAAA	60.5	548	INTERGENIC	--	--	--
Ca4_P3_8183976	Ca4	8183976	TAAAAAAAA/TAAAAAAAA	AACTCAATCCAACCAAG CCA	TCACCACACCAACCTC AAAA	60.5	548	INTERGENIC	--	--	--
Ca4_P3_8185194	Ca4	8185194	AGTGTGT/AGTGTGTGT	TGGTCTGGTTGGCCAA TACT	CCCAACCTCTGGACAC CTAA	60.4	212	DRR	Ca_08308	T	--

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 (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
Ca4_P3_8186328	Ca4	8186328	CTATATATATATA/CTATATATATATA	TGCTTTTCATTTCAGAA ATCC	TTTCACCTCCTGGTAG ACGG	60.2	626	DRR	Ca_08308	T	--
Ca4_P3_8192071	Ca4	8192071	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	GAATGCGTATTCAAGG GTCTAA	TTTTTGACGTTGCGTTT TCC	58.3	240	DRR	Ca_08309	R	--
Ca4_P3_8193266	Ca4	8193266	TAAAAAAAAA/TAAAAAAAAA	GCATCTCTCCAAGATGT CTGC	TGGGAATTGGGAGCTA TCAG	60.0	620	DRR	Ca_08309	R	--
Ca4_P3_8203863	Ca4	8203863	TAAA/TAA	GCTGCACAACCTACAC CAAA	ACAAAGCCTTGTTTGG TGGG	59.8	471	INTRON	Ca_08310	T	MYB_related
Ca4_P3_8204473	Ca4	8204473	CAA/C	GAGTCCAATTCTCTGG CAGC	TTGTAATTCGGAAGGT TGCC	60.0	213	INTRON	Ca_08310	T	MYB_related
Ca4_P3_8205973	Ca4	8205973	ATCTT/ATCTTCTT	CGTGTCCAACATCAAAA ACG	TTCCAAAGAACCTACG GTGG	60.0	378	CDS (large-effect mutations)	Ca_08310	T	MYB_related
Ca4_P3_8206232	Ca4	8206232	GTATA/GTATACTATA	CAAGGGGTGAAGTTG CATT	TTGAAGCCACCCTCTG ATCT	60.0	763	INTERGENIC	--	--	--
Ca4_P3_8207569	Ca4	8207569	ATTTTTTTTT/ATTTTTTTT	CTCGTGTCTTTGTGCG TTGT	TCTCTATCTCAGCG TCACTTT	59.9	549	INTERGENIC	--	--	--
Ca4_P3_8208104	Ca4	8208104	ATTTTTTTTT/ATTTTTTTTTT	TGTTGCAACATTTTTA CATAGTG	GTGGAGATCGATGCTT GGTT	59.0	532	INTERGENIC	--	--	--
Ca4_P3_8210483	Ca4	8210483	GATAT/GATATAT	GGCCAGGAAATCAACT TCAA	ATGAATTGCATGCATG GTGA	60.1	439	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
Ca4_P3_8210730	Ca4	8210730	TCC/TC	GGGGATACTTGCCTCA ATCA	TGATGCTATTCATTTG CGG	59.9	814	INTERGENIC	--	--	--
Ca4_P3_8211793	Ca4	8211793	AG/A	CCAATATGTGATGGTT GTTTGG	CTACAATGGAATGAGG CGCT	60.0	473	INTERGENIC	--	--	--
Ca4_P3_8216116	Ca4	8216116	ATTTTTTT/ATTTTTT	TCAAAATGCACGAGATT AGCA	CGAAGCGGATTGCAAC TAAG	59.5	745	INTERGENIC	--	--	--
Ca4_P3_8216693	Ca4	8216693	AG/A	CGAATCCGCTTCGTGT TAAT	CGACCCGCTTAATATG TGGT	60.1	507	INTERGENIC	--	--	--
Ca4_P3_8217219	Ca4	8217219	AG/A	ACCACATATTAAGCGG GTCG	ATGTTGGTGTGGTGG AGGT	59.8	781	INTERGENIC	--	--	--
Ca4_P3_8220440	Ca4	8220440	AAATTATTT/AAATTATTTAATTATTT	CGGTGAAGCAACGTAG AACA	ACAGTTTTGGGTGCAA AAGG	59.9	688	DRR	Ca_08312	--	--
Ca4_P3_8221295	Ca4	8221295	TACACAC/TACAC	AACACAAGGAGGGAAC CACG	TTGTGGTGGAAGATC ATGG	60.0	136	DRR	Ca_08312	--	--
Ca4_P3_8225755	Ca4	8225755	AAAT/A	GTAGAAGAGGGGAAGG TGGC	GTGTACGGCGGATTC TTGT	60.1	611	INTERGENIC	--	--	--
Ca4_P3_8226133	Ca4	8226133	CATATATAT/CATATAT	ACAAGAAATCCGCGT ACAC	CCCCTAATTCCACTT TACCA	60.0	613	INTERGENIC	--	--	--
Ca4_P3_8227216	Ca4	8227216	ATT/ATTTT	AATCGAATCGCCTTGG TGTA	GCGACATCATTTAAAT AAATCACA	60.5	223	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
Ca4_P3_8232418	Ca4	8232418	TAT/TATAAT	CAGTATGGACGAATGG GAGG	GGTCTACTCTCGAACC ACCG	60.3	563	INTERGENIC	--	--	--
Ca4_P3_8237892	Ca4	8237892	TAAAAAAAAA/TAAAAAAAAA	TCCAATCCTCAACCTCG TTC	CTTGCGTGTTCCCAAT TTTT	60.1	364	INTERGENIC	--	--	--
Ca4_P3_8239012	Ca4	8239012	CTTTT/CTTT	TTCTCGATCCACAAAA CAAAA	CAACCTCCTCAAATTG GACA	59.6	636	INTERGENIC	--	--	--
Ca4_P3_8281442	Ca4	8281442	TATA/T	TTTGCTATCTTTTCCC CACA	CAATCGCAAGGATAAT GGCT	59.7	328	INTERGENIC	--	--	--
Ca4_P3_8282938	Ca4	8282938	ATTTTTTT/ATTTTTTT	TTGCATGCATTGAGATT TAAAGA	TTTTGTTCGTTTATT GTAACCAA	59.7	607	INTERGENIC	--	--	--
Ca4_P3_8293335	Ca4	8293335	A/AAT	CAATGGTTTTGCTTTTG GCT	TTCTCGAATGCGAAGA GTCA	60.1	492	INTERGENIC	--	--	--
Ca4_P3_8294555	Ca4	8294555	TATACATA/TATA	TCGTGTGACCCCAACA ACTA	GTGATCGATGGCTTTT TGGT	60.0	484	INTERGENIC	--	--	--
Ca4_P3_8295749	Ca4	8295749	ATTTTTATT/ATTTTTATTATTTTTATT	TCAACCCTCATTCAACC ACA	CCTGCGACAATCTGAA GGAT	59.9	840	INTERGENIC	--	--	--
Ca4_P3_8295853	Ca4	8295853	TAA/TA	GCAGGTGGGAATGGTT CTAA	TGTCTGGTGGATGAAA CCAA	59.9	805	INTERGENIC	--	--	--
Ca4_P3_8297213	Ca4	8297213	TAAAAAA/TAAAAAA	GGGTTTTGTTGAAAA TTTGAT	TGGTGCTAACATGTGG CTAA	58.4	676	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
Ca4_P3_8300267	Ca4	8300267	TATAAAA/TATAAAATAAAA	GCTTCTTGGGCATTGA TTGT	ACAAATGAAACGCAGC TTCC	60.1	605	DRR	Ca_08319	S	--
Ca4_P3_8307784	Ca4	8307784	ATTT/ATT	TACACCCATTGACGTG GCTA	TCAATCATGTCTGCAT ACCG	60.0	694	INTERGENIC	--	--	--
Ca4_P3_8309234	Ca4	8309234	TCAACACAA/TCAACACAACACAA	GAATTTAAGAGGAAGG CGATGA	TTCACCCTAATTCGTA GGCG	59.7	450	INTERGENIC	--	--	--
Ca4_P3_8309328	Ca4	8309328	TTGGTGGT/TTGGT	CATCCCAGGATCAACA CTCA	TTCACCCTAATTCGTA GGCG	59.5	272	INTERGENIC	--	--	--
Ca4_P3_8309498	Ca4	8309498	A/ACC	CATCCCAGGATCAACA CTCA	TTCACCCTAATTCGTA GGCG	59.5	272	INTERGENIC	--	--	--
Ca4_P3_8311844	Ca4	8311844	TG/T	TTACTCCCTCCTTCCCA TGA	ATGGATGGGGGATAAA AAGG	59.5	433	INTERGENIC	--	--	--
Ca4_P3_8312228	Ca4	8312228	GTTAT/GT	CCTTTTATCCCCATC CAT	TAACCGCATCTCCAAA TTCC	59.8	705	INTERGENIC	--	--	--
Ca4_P3_8313629	Ca4	8313629	ATTTTTTTTTTT/ATTTTTTTTTTT	CTGGTGACTGGTTGT TG TG	GGCAGACAGGAGAGG GAGTA	60.0	563	INTERGENIC	--	--	--
Ca4_P3_8315749	Ca4	8315749	TAGA/TA	CCTTTACAAAAGTGCC CCA	TCTCGGTTGATGTCAT TATGCT	60.0	853	INTERGENIC	--	--	--
Ca4_P3_8315933	Ca4	8315933	CTT/CTTATT	GGACCCGTGATGCTGT TTAT	TCTCGGTTGATGTCAT TATGCT	59.8	586	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
Ca4_P3_8316304	Ca4	8316304	GTTTTTTT/GTTTTTTT	GCATAATGACATCAACC GAGAG	AAAAGAAATGGTTGTT TCTCGTTC	59.6	235	INTERGENIC	--	--	--
Ca4_P3_8316423	Ca4	8316423	TAAAAAAA/TAAAAA	GCATAATGACATCAACC GAGAG	CACGAGTGACACGCCA TTTA	59.6	794	INTERGENIC	--	--	--
Ca4_P3_8316722	Ca4	8316722	ACTCT/ACT	GAACGAGAAACAACCA TTTCTTTT	CACGAGTGACACGCCA TTTA	59.9	583	INTERGENIC	--	--	--
Ca4_P3_8320140	Ca4	8320140	C/CG	CTTTGCCCCCATCCATA TAA	AGGCTGAAGACTTCGA CGAG	59.6	358	INTERGENIC	--	--	--
Ca4_P3_8320529	Ca4	8320529	CAAAATTA/CAAATATAAATATTA	AAAATCTTCGGTGCT CCA	TTTTCCCAAGTTGAA GTGG	59.5	668	INTERGENIC	--	--	--
Ca4_P3_8321641	Ca4	8321641	A/AGAACCGCT	GGACCATTCAAAAATC GACG	CCTGCTTGATGCATGT CACT	60.3	108	INTERGENIC	--	--	--
Ca4_P3_8325629	Ca4	8325629	CTTTTTTTTT/CTTTTTTTTT	ACGGGGCTGTTACTTT ACCC	TTCTCAATGGGTGCGT ACAA	60.2	739	INTERGENIC	--	--	--
Ca4_P3_8331477	Ca4	8331477	TTA/TTATA	AAGGGTATGCTGCCAT GAAC	TGCTGCTACTGGCAAA AATG	60.0	666	DRR	Ca_08320	--	--
Ca4_P3_8333720	Ca4	8333720	GTA/GTATA	CCACACGTAGTGTTTT GGCA	TCACACATCACGCAA ACTT	60.6	346	INTERGENIC	--	--	--
Ca4_P3_8333830	Ca4	8333830	ATTTTTTTTT/ATTTTTTTTTT	ACGTAGTGTTTTGGCA AGGG	TCACACATCACGCAA ACTT	60.0	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_8334346	Ca4	8334346	TCACTATATTAACACTATATTAAC/TCA CTATATTAAAC	AAGTTTGCGGTGATGT GTGA	CAGCGTTATTACAAAT GCCGT	60.2	438	INTERGENIC	--	--	--
Ca4_P3_8342083	Ca4	8342083	AATCATCAT/AATCAT	TGATCAAATCCCCAAGA AGC	CCAATCTCTTCTGCTC CCCT	60.0	951	INTRON	Ca_08321	--	--
Ca4_P3_8345936	Ca4	8345936	AAAATCAC/AAAATCACTAAATCAC	CATACCTCGATGCACC TCCT	TGTGCGACCAAAGGTT ACAA	60.1	213	DRR	Ca_08322	--	--
Ca4_P3_8348600	Ca4	8348600	TAAAAA/TAAAAA	TCAAGCAAAGGCTTCG AGAT	AAACGGCTTGTTGGTTG TTTC	60.1	551	INTRON	Ca_08322	--	--
Ca4_P3_8372871	Ca4	8372871	T/TG	TCTTTTCTGCCCCACT AGC	CAGCTGAGTTGTGAGG TCCA	59.5	150	INTERGENIC	--	--	--
Ca4_P3_8373461	Ca4	8373461	AAC/AACCAC	TGAGCATAAAGTGGA TTGG	GTCGGTCTTTGTGGAG AGGA	59.7	398	INTERGENIC	--	--	--
Ca4_P3_8373669	Ca4	8373669	TAGAAA/TAGAAAGAAA	TGAATTGGATCCTCTCC ACC	AAGCCGAGTCTGGCCT ATTT	59.9	680	INTERGENIC	--	--	--
Ca4_P3_8377059	Ca4	8377059	CAA/CAAA	TAGTGACGTGTTTGG GGCA	TCAGGATTCAAATGGA CGAA	60.0	249	DRR	Ca_08327	KL	--
Ca4_P3_8381452	Ca4	8381452	TAAAAAA/TAAAAAAA	CAATCCGTTAAGGACC TGGA	GATGATTCCCTTGCTG GAAA	59.9	388	INTRON	Ca_08327	KL	--
Ca4_P3_8382072	Ca4	8382072	AT/ATTT	TTTCCAGCAAGGGAAT CATC	GCATTCAAATCTGGGT TGGT	60.0	534	INTRON	Ca_08327	KL	--

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 (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
Ca4_P3_8382639	Ca4	8382639	ATTTTTTTTT/ATTTTTTTTT	TGGTGCAATAAATGAGT CGG	GGGATGGTAGCAAGG AAACA	59.5	378	INTRON	Ca_08327	KL	--
Ca4_P3_8389681	Ca4	8389681	CATA/CA	CGGCAAAACATGAAGAT CTGA	CGTGGCTTAACCTTGG ACAT	59.8	312	INTRON	Ca_08327	KL	--
Ca4_P3_8390760	Ca4	8390760	CG/CGG	TCCCTAATCAGAACCAT CGC	CGTCGCTATTCTGACT CCCT	60.0	238	INTERGENIC	--	--	--
Ca4_P3_8400811	Ca4	8400811	GAATTACTAAT/GAATTACTAATTACTA AT	CTTAAGCATCAAAGCC CGAG	CCTCAATTGCCACCAA AACT	60.0	469	INTRON	Ca_08329	O	B3
Ca4_P3_8400838	Ca4	8400838	CAAAAAAAAA/CAAAAAAAAAA	CTTAAGCATCAAAGCC CGAG	CCTCAATTGCCACCAA AACT	60.0	469	INTRON	Ca_08329	O	B3
Ca4_P3_8401589	Ca4	8401589	TG/T	AGTTTTGGTGGCAATT GAGG	TGAAAATTGATCAGGG TCAAAA	60.0	769	INTERGENIC	--	--	--
Ca4_P3_8407015	Ca4	8407015	CTATATAT/CTATAT	TGCTAATCATCCGTGCT CTG	GTGGATGAGCAACCAC CTTT	60.0	521	INTRON	Ca_08330	O	B3
Ca4_P3_8408638	Ca4	8408638	TC/T	CGCTGAAACAATTGCA GAAA	GGGAGGTCCACTCAAA GTGA	60.0	450	INTERGENIC	--	--	--
Ca4_P3_8408879	Ca4	8408879	TAAAA/TAAAAA	TCACTTTGAGTGGACC TCCC	TCCTACAAAATCACGG ACACC	60.1	469	INTERGENIC	--	--	--
Ca4_P3_8408977	Ca4	8408977	AT/ATT	TCACTTTGAGTGGACC TCCC	TCCTACAAAATCACGG ACACC	60.1	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 (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
Ca4_P3_8409923	Ca4	8409923	AAGAG/AAG	CGCATCAATACGACGA ACAA	ACCACCACTTTGTAGC CACC	60.7	509	INTERGENIC	--	--	--
Ca4_P3_8414127	Ca4	8414127	CAAAAAAAAA/CAAAAAAAAA	TACACGTTTCGGCAGAT CTTG	ATGCACATGGTTCTGA CCAA	60.7	761	INTERGENIC	--	--	--
Ca4_P3_8415318	Ca4	8415318	AG/AGGG	ACTTTGCCACCTCATCT GCT	TTGTTGAACACCCACA TGCT	59.9	221	INTERGENIC	--	--	--
Ca4_P3_8424082	Ca4	8424082	GAAA/GAAAA	CGCCACACTTAGATGA CGAA	AACGATTAGCGAATGT TGGG	59.9	433	INTERGENIC	--	--	--
Ca4_P3_8425720	Ca4	8425720	TAAAAAAAA/TAAAAAAAA	GGGATTTGTCGATGC ACTT	GGCACAGGGTTTTTC AAGA	59.9	340	INTERGENIC	--	--	--
Ca4_P3_8441953	Ca4	8441953	GTTTGTA/GTTTGATTTTTGTA	AGCAGGAGAGCTGAGA TTGG	TACTGTGTATCGGGGC AACA	59.7	731	INTRON	Ca_08335	R	--
Ca4_P3_8447485	Ca4	8447485	GATGTCAATTTAA/G	CAGGCATTGGACACTT TTCA	AAACCTCATGGCACAA CTCC	59.7	294	INTRON	Ca_08335	R	--
Ca4_P3_8454109	Ca4	8454109	C/CATTTT	TTCTTTGGGTCTCCCAA CAC	TTATGAGCTTTGGATT GGGC	59.9	631	DRR	Ca_08337	R	MYB
Ca4_P3_8458330	Ca4	8458330	A/ATC	GAGTTCTTTGAAGGGC TCACA	TCCCCTACCCAAAATT GGAA	59.5	569	INTERGENIC	--	--	--
Ca4_P3_8459318	Ca4	8459318	ATTTTTTT/ATTTTTTT	TCAGAAATTGAAAATGA AATGGC	GTTTGTGGTAGTAGA CCTGTGG	60.3	836	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 (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
Ca4_P3_8459775	Ca4	8459775	G/GA	TGGACCACAGGTCTAC TACCAA	TGTACCACTTTGGTG ACCG	59.5	260	INTERGENIC	--	--	--
Ca4_P3_8459845	Ca4	8459845	ATTTT/ATTTT	TGGACCACAGGTCTAC TACCAA	TGTACCACTTTGGTG ACCG	59.5	260	INTERGENIC	--	--	--
Ca4_P3_8462210	Ca4	8462210	T/TTGTTTGA	TCCGTGCACTTATTTT CCC	ATTTCAGCCAAGTGA GGTG	59.9	471	INTERGENIC	--	--	--
Ca4_P3_8466945	Ca4	8466945	CT/C	AGGACACCAATTGAAT GGC	TGATGATGGTGTGCTT TGGT	59.8	625	INTERGENIC	--	--	--
Ca4_P3_8468674	Ca4	8468674	AGATTC/A	CCGAACATAACATCCCA ACC	AGAACCCTCAAATCG GAGT	60.1	851	INTERGENIC	--	--	--
Ca4_P3_8472031	Ca4	8472031	ATTT/ATTTT	CTTCAACTTGCGCCAAT ACA	GTGGCAACGTATGACA TGGT	59.9	682	DRR	Ca_08339	G	--
Ca4_P3_8475153	Ca4	8475153	ATTT/ATT	TGGACCGTACATTTTC GTGA	GTGGTAGCAGAAGGA GCAGG	60.0	829	INTRON	Ca_08339	G	--
Ca4_P3_8476352	Ca4	8476352	AC/A	AGTGGGACTGTGGGAC AAAG	TGCATGTTTGCCTCTA GGTG	60.0	761	INTRON	Ca_08339	G	--
Ca4_P3_8476596	Ca4	8476596	GAAAAA/GAAAAAA	ACCTGCAGATGGAAGC TTGT	TGCAGTGTGTGCGTGA TAGA	59.9	459	INTRON	Ca_08339	G	--
Ca4_P3_8478290	Ca4	8478290	A/AT	TTTAGCTTGCCAAAACA GCA	CCTTTCTCGTACGTC TCGC	59.6	607	INTRON	Ca_08339	G	--

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
Ca4_P3_8481188	Ca4	8481188	ATCTCTCTCTCTCT/ATCTCTCTCTCT	AGGGAAAAGTACCGGC AAAT	ATAGATCCAAACGGCA CAGC	59.8	463	INTERGENIC	--	--	--
Ca4_P3_8482101	Ca4	8482101	C/CTCATGTTGAAG	GGTTTTGTGCGCTTTTC AAT	TGACTCTCCTCCTCTC CTCAA	60.1	403	DRR	Ca_08340	R	--
Ca4_P3_8483100	Ca4	8483100	CTTTTTTTTT/CTTTTTTTTT	ATTCGAGGAAAAGGG AGGA	TTTCAGAGGGGCAAT TGAG	60.0	515	DRR	Ca_08340	R	--
Ca4_P3_8486769	Ca4	8486769	CAGAAAGA/CAGAAAGAAAGA	CAACTGCACATGCACA CAAG	ACAGCAGGGCTGAATA TTGG	59.9	733	INTRON	Ca_08340	R	--
Ca4_P3_8486971	Ca4	8486971	AT/ATT	CAACTGCACATGCACA CAAG	ACAGCAGGGCTGAATA TTGG	59.9	733	INTRON	Ca_08340	R	--
Ca4_P3_8490497	Ca4	8490497	TAAAAAAAA/TAAAAAAAAA	TATGCCTTAGCGGTTTT TGG	GGTCCTTTGATCCAC GTTA	60.1	498	INTERGENIC	--	--	--
Ca4_P3_8490694	Ca4	8490694	TTATATATATATATA/TTATATATATATA TATATATA	TATGCCTTAGCGGTTTT TGG	GGTCCTTTGATCCAC GTTA	60.1	498	INTERGENIC	--	--	--
Ca4_P3_8491035	Ca4	8491035	AAGA/AA	TAACGTGGGATCAAAG GACC	ATATGAAACCAACAAC CCCA	59.8	385	INTERGENIC	--	--	--
Ca4_P3_8497257	Ca4	8497257	TAAACTGAAGAACT/TAAACTGAAGAA ACTGAAGAACT	AGCGTGAGAGGAACCT GTGT	GACTGGCAACAGCAAT TTGA	59.9	564	INTRON	Ca_08341	--	CPP
Ca4_P3_8503853	Ca4	8503853	AATTTTATTTT/AATTTTATTTTATTTT	CAGACATTTGAGCCGT TGAA	ACCACTTTTATCATTG ACTCCA	59.8	421	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
Ca4_P3_8504070	Ca4	8504070	GGTAGA/G	CAGACATTGAGCCGT TGAA	TTTCGAGTGCCGCTTAC TTTT	59.8	916	INTERGENIC	--	--	--
Ca4_P3_8513082	Ca4	8513082	GTTCTTC/GTTC	CTTCCTCTTCGGCAGT CAAC	AACACTGTCTCGGCC ATAC	60.0	356	CDS (large-effect mutations)	Ca_08343	YU	--
Ca4_P3_8514326	Ca4	8514326	CTTTT/CTTTTT	TGTCGTGCGGTAAGTT TGAC	GAAGCAAAGCTAGGG GTGTG	59.8	449	DRR	Ca_08343	YU	--
Ca4_P3_8514546	Ca4	8514546	A/AG	TGTCGTGCGGTAAGTT TGAC	GAAGCAAAGCTAGGG GTGTG	59.8	449	DRR	Ca_08343	YU	--
Ca4_P3_8514652	Ca4	8514652	CTTTTTTTTTTT/CTTTTTTTT	CACACCCCTAGCTTTG CTTC	CACGAACGCCTGTGAA CTTA	59.9	547	DRR	Ca_08343	YU	--
Ca4_P3_8514977	Ca4	8514977	G/GT	CACACCCCTAGCTTTG CTTC	CACGAACGCCTGTGAA CTTA	59.9	547	DRR	Ca_08343	YU	--
Ca4_P3_8516971	Ca4	8516971	AT/ATGTCAAATTAAGCTT	AAAAATGAGGGGCGTG AGTA	AGGTTGAGCCCCTTGA AAAT	59.6	392	DRR	Ca_08344	--	--
Ca4_P3_8521823	Ca4	8521823	AACA/AA	AATTTGGCAAAAGGAG ATGC	AATAGGGGGACCAAAA CTGC	59.2	816	INTERGENIC	--	--	--
Ca4_P3_8522151	Ca4	8522151	TG/T	TGTGATTGTTAGGATGA TGACG	CCAAACTGGGGAGAA ACAA	58.5	288	INTERGENIC	--	--	--
Ca4_P3_8614404	Ca4	8614404	TAAAAAAA/TAAAAAAA	GTAGCCCCACCATGAT TTTG	TCAAACATAAAGATTG CTTGCA	60.2	787	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
Ca4_P3_8616583	Ca4	8616583	GATGT/GATGTATGT	GCGAGAATACAATTTCC AGCA	ACTCGATCGTGGAAGC AAGT	60.2	324	DRR	Ca_08355	O	--
Ca4_P3_8617685	Ca4	8617685	GTTTTTTTT/GTTTTTTTTTTT	CCAGCCAACCATTTCT GTTT	ATTGCGTGAGATTGG TTCC	60.0	504	DRR	Ca_08355	O	--
Ca4_P3_8623305	Ca4	8623305	CAAAA/CAA	CCTTGCATGGTGGTAC TCCT	GCCACAACCTTATAAC CGCT	60.0	511	INTERGENIC	--	--	--
Ca4_P3_8623394	Ca4	8623394	CTAT/CT	CCTTGCATGGTGGTAC TCCT	GTGACCACACCACAC AAAT	60.0	714	INTERGENIC	--	--	--
Ca4_P3_8625981	Ca4	8625981	TA/TAA	GGTTTGAATGTCAACAC CCT	TTTTGGAACCTTGAAC CCACAC	57.3	293	INTERGENIC	--	--	--
Ca4_P3_8626276	Ca4	8626276	CAAA/CAAAA	TGTGGAGTTCAAGTTC CAAAAG	ATTCTGCACTAGTGG CGCT	59.3	602	INTERGENIC	--	--	--
Ca4_P3_8626895	Ca4	8626895	G/GT	CTCCCTCCCCTTCATTC TTC	CATCAGTAGCAGGTGG AGCA	60.0	378	INTERGENIC	--	--	--
Ca4_P3_8636225	Ca4	8636225	GTT/GTTT	GGGAAACCAAGGAGTG TGAA	GCATGCGATCGTAATT CCTT	59.9	771	INTERGENIC	--	--	--
Ca4_P3_8637240	Ca4	8637240	GACA/GACACA	TTTGATAGTTTTGGTGC CTCG	GTCCCCATTACATT TTTG	60.1	442	INTERGENIC	--	--	--
Ca4_P3_8641591	Ca4	8641591	ATTTTT/ATTTTT	TGGTGATTGGGAACTC CATT	TCACGAAATCTAAATCA CGCA	60.2	305	DRR	Ca_08357	--	--

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
Ca4_P3_8647825	Ca4	8647825	CAA/CA	AATGGCTTCGCTATTG CCTA	AAGGACTGCGAACCTC AAAA	59.8	734	INTRON	Ca_08358	--	G2-like
Ca4_P3_8650948	Ca4	8650948	TTAAAAAATAAAAAATAAAAA/TTAAAA AATAAAAAA	TTTAAATTGAATGTGTT CGCGT	ACCACACATGATTCT GCCA	59.5	785	INTERGENIC	--	--	--
Ca4_P3_8651348	Ca4	8651348	CAT/CATAT	GCATTATCCCTTGCT ACG	TGGGGGCACTTTAGAA CTTG	59.6	185	INTERGENIC	--	--	--
Ca4_P3_8689670	Ca4	8689670	A/ATCTC	TGCAAATTTGGTGA CAGA	TGTACATTTGCAGAA GAAAAA	59.2	300	INTERGENIC	--	--	--
Ca4_P3_8690461	Ca4	8690461	TAAAAA/TAAAA	CACACTTTAAGATTGT TCCCA	GCATGCGTGC GTAA AATA	60.3	674	INTERGENIC	--	--	--
Ca4_P3_8690768	Ca4	8690768	TAAAAAA/TAAAAA	GTTTTAATGCAAGCCAT GTAGA	GGTGTTTTGATGCGAA GTGA	57.1	397	INTERGENIC	--	--	--
Ca4_P3_8690790	Ca4	8690790	GAAAAAA/GAAAAA	TTTAATTGCGAGGGAG TAAAAA	GGTGTTTTGATGCGAA GTGA	58.0	335	INTERGENIC	--	--	--
Ca4_P3_8691223	Ca4	8691223	ACCC/ACCCC	CACGCATGCATGTTCT TCT	CAGAGTCCAGACACAC CGAA	59.9	668	INTRON	Ca_08365	G	--
Ca4_P3_8691733	Ca4	8691733	ATATT/AT	TTCCGTGTGTCTGGAC TCTG	TCACAAATAACAACG CCAA	59.9	460	INTRON	Ca_08365	G	--
Ca4_P3_8694140	Ca4	8694140	TC/T	ATTTGTGCCATCCTCC ATC	GAAGCTTCCAGTACC GACG	59.8	360	INTRON	Ca_08365	G	--

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 (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
Ca4_P3_8698891	Ca4	8698891	AAGAGTAGTAGAGTAGT/AAGAGTAGT	AAGCTGGCCACTGTAA GCAT	TCACAATCTCGACAAC CCAA	59.9	246	INTRON	Ca_08365	G	--
Ca4_P3_8703614	Ca4	8703614	CTCTTCTT/CTCTT	TTGGGTGTGGGGATTG TTAC	AATGCCCTGTTGGGTA CAAA	59.6	568	DRR	Ca_08366	J	NAC
Ca4_P3_8706854	Ca4	8706854	TAAAAA/TAAAAA	CGAATTACGAAAAAGG CAGG	ATCTCTCCGACCATGT GGAA	59.7	935	INTERGENIC	--	--	--
Ca4_P3_8710207	Ca4	8710207	CAAAA/CAAA	GAGTTGGTGATTCTCT CAATGC	CGATGAATGTTCTAAT CAACGC	58.8	725	INTERGENIC	--	--	--
Ca4_P3_8711163	Ca4	8711163	CTTTTTTTTT/CTTTTTTTTT	CGCACCCTCTCATCA CCTA	CTTGCCAAACCAACC TTGT	59.9	826	INTERGENIC	--	--	--
Ca4_P3_8711880	Ca4	8711880	ACTC/ACTCTC	CAAGGTTTGGTTGGCA AAGT	GGGGGTGTTTCCATGT TATG	60.0	429	INTERGENIC	--	--	--
Ca4_P3_8712182	Ca4	8712182	CAACAACAACAACAACAACA/CAA CAACAACAACAACAACAACA	ACTGCAGAGGGAGATG GAGA	CCCTTGATTGTCTTG TGCT	59.9	190	CDS (large-effect mutations)	Ca_08367	R	C2H2
Ca4_P3_8727347	Ca4	8727347	TAAAAAAAAAAAAA/TAAAAAAAAA	CGGGTCTCTTGACTC TTCG	TCATCTTATTTGGGCA TTCA	60.0	563	INTERGENIC	--	--	--
Ca4_P3_8728353	Ca4	8728353	TTTATT/TTTATTATT	AATCCAACGCTCTTTCA ATCA	GGAACCAACACGAT GAAT	59.7	343	INTERGENIC	--	--	--
Ca4_P3_8730794	Ca4	8730794	ATTTTTTTTT/ATTTTTTTTT	TTCACCAACACCCCTC AAA	ATTTTGAAGAACAAT CCGC	60.0	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
Ca4_P3_8731216	Ca4	8731216	TAAAAAA/TAAAAAAA	ATTCTGCGGATTGTTCT TCC	ACAATTGTGTGGGTGT GCAT	59.1	508	INTERGENIC	--	--	--
Ca4_P3_8733054	Ca4	8733054	TGGG/TGG	AAAAATCACCCAAAATT AACATCT	CAC TTCCTTGCTCCC TCTG	57.2	867	INTERGENIC	--	--	--
Ca4_P3_8741602	Ca4	8741602	T/TACATC	TGGTGAACACGTATGC CAGT	AACCTCCTTTTGACCC ACAA	60.0	771	INTERGENIC	--	--	--
Ca4_P3_8741921	Ca4	8741921	AATA/AA	ATTGTTGCGGAAAAGTT TGA	AACCTCCTTTTGACCC ACAA	58.3	408	INTERGENIC	--	--	--
Ca4_P3_8742911	Ca4	8742911	AAT/A	AGGTGCTCCACCAAAA TCAG	CCACATCTTAATGTTTT GTTTGGT	60.1	547	INTERGENIC	--	--	--
Ca4_P3_8750740	Ca4	8750740	TAAAAAA/TAAAAAAA	AGAATCAAAGAGCCAAT GTGC	TTGGCATACTTCCCAT CCAT	59.3	863	INTERGENIC	--	--	--
Ca4_P3_8753314	Ca4	8753314	TGCTGGAACGCTGGAAC/TGCTGGAAC	TTCTTTCCAGTCATTT CGG	CCAAATGGAGCTTCCA CCTA	60.0	841	INTRON	Ca_08371	--	NAC
Ca4_P3_8754248	Ca4	8754248	T/TCGTAGATGATG	CATGGAAAATTTGCGAT CCT	TAAGAAGGAAGTGC GC CACT	59.9	139	INTRON	Ca_08371	--	NAC
Ca4_P3_8757082	Ca4	8757082	GATGGATATGGATA/GATGGATA	TGAGTTTTTGCCAAATT CAA	GCAGGTGCAGAAAGAT TACCA	59.1	605	DRR	Ca_08371	--	NAC
Ca4_P3_8757256	Ca4	8757256	CATATA/CATATATA	TGGATATGGTGAGAT ACGAA	AGGTGCATGAGTATCA ATGTCAA	59.0	595	DRR	Ca_08371	--	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca4_P3_8757388	Ca4	8757388	CTTTTTTTTTTT/CTTTTTTTTT	AAAGATGACAATTGAG GCCA	GTTTGTTCAGGTGCA TGAG	58.1	804	DRR	Ca_08371	--	NAC
Ca4_P3_8758399	Ca4	8758399	TAA/TA	CATAGCAGCTTCGATG CAAA	TCACAATTTGACAACC ACGG	60.1	297	INTERGENIC	--	--	--
Ca4_P3_8758495	Ca4	8758495	A/AG	TCACCATTCTGTGAGTT GGAA	TGCTCATGTCTTCTAAA GATCCA	60.1	762	INTERGENIC	--	--	--
Ca4_P3_8762153	Ca4	8762153	ATTTTT/ATTTT	TCATAAAGCTGTTGCCA AAAA	ATAGAGTGGGGTGTG CCAG	58.5	546	INTERGENIC	--	--	--
Ca4_P3_8762736	Ca4	8762736	ATTTTT/ATTTTTTT	CTGGCAACACCCCACT CTAT	TTCAAGCTAAATGGA CCCG	60.0	617	INTERGENIC	--	--	--
Ca4_P3_8768314	Ca4	8768314	GTTTTTTTTT/GTTTTTTTTTTT	CTCACCCCTTCTCCTCC TCC	AACGTCGTCGTCATTC ACTG	60.2	399	INTERGENIC	--	--	--
Ca4_P3_8769706	Ca4	8769706	AGTCT/A	TTAGCACCGGAACCTTC CAT	ATCGGAATCCAGGTGA GTTG	59.6	452	INTERGENIC	--	--	--
Ca4_P3_8774335	Ca4	8774335	CT/C	GACGATTGCGAATTTG AGGT	TGATTTATGTTTGTGG CGGA	60.1	295	DRR	Ca_08373	C	--
Ca4_P3_8774388	Ca4	8774388	TAAAAA/TAAA	GACGATTGCGAATTTG AGGT	TGATTTATGTTTGTGG CGGA	60.1	295	DRR	Ca_08373	C	--
Ca4_P3_8775167	Ca4	8775167	ATT/ATTT	TGTTCCCTGCAATTCAC ATC	ACGGGTCTCGATCAAT GTGT	59.5	360	DRR	Ca_08373	C	--

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 (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
Ca4_P3_8785179	Ca4	8785179	AGGTTTTATT/A	ACAATGACAGGCAAGG AAGG	GGAACTTTCACACTC CCAA	60.1	274	DRR	Ca_08374	I	G2-like
Ca4_P3_8789366	Ca4	8789366	CAAAA/CAAA	TTCTTGGAAGATCCACA GCC	TCATTGATTGGGCTTT CCTC	60.2	719	INTRON	Ca_08375	R	NF-YA
Ca4_P3_8795294	Ca4	8795294	CT/CTAAATATGT	GAAAGACAGCACCCCA AAAA	TCAACCGTTGGAATAT CACG	60.1	666	DRR	Ca_08376	--	M-type
Ca4_P3_8795841	Ca4	8795841	A/AC	GTGGTCATGTGACCCT CGAT	GTAGCCCATGCCCTCA TAAA	60.8	873	DRR	Ca_08376	--	M-type
Ca4_P3_8816656	Ca4	8816656	AT/A	ATCGTTGTCGTAGATTG GGC	TTGGATCAAAATCTGA AGCG	60.0	789	INTERGENIC	--	--	--
Ca4_P3_8836388	Ca4	8836388	CTTG/CTTGAGTTTTG	TGACCTGTAGGGCCGT AATC	TCACCAAATCGAAGCT CAAA	60.0	508	INTERGENIC	--	--	--
Ca4_P3_8840055	Ca4	8840055	TTAAT/TT	TCATTTAAGAATGCAAA ATCACTTG	AGTCCACTTAGCCTGT CCGA	59.6	581	INTERGENIC	--	--	--
Ca4_P3_8841401	Ca4	8841401	ATTTTTTTT/ATTTTTTT	TTTGGTGACATTTTAGC AAAGAC	TCTTCTTCATTCACTTG TTTGCA	58.4	229	INTERGENIC	--	--	--
Ca4_P3_8858467	Ca4	8858467	TTACTAA/TTACTAATATTATAATACT AA	TTGGTTTCCAAGTCCC ATC	TTCAACTTCGAGCAAA AGGG	59.8	602	INTRON	Ca_08382	--	MIKC
Ca4_P3_8859654	Ca4	8859654	CAA/CAAA	TTCACCAAAGCCTCTTG CTT	TATGCGCTCGTTTTGA AGTG	60.0	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
Ca4_P3_8860985	Ca4	8860985	TAAAAAAAA/TAAAAAA	TGCAACCAACTCACATC CAT	TGCAACTTTTGAGATG CAATTT	60.0	324	DRR	Ca_08383	C	--
Ca4_P3_8864397	Ca4	8864397	A/ATT	TTCACCAAAGCCTCTTG CTT	GTAAAGCTCCCTTTCC CCAC	60.0	657	INTERGENIC	--	--	--
Ca4_P3_8864736	Ca4	8864736	TGGGG/TGG	TTTTTGGCTTATGGGGT GAG	TCAGCGTATTGCGAAA CAAC	59.9	912	INTERGENIC	--	--	--
Ca4_P3_8867611	Ca4	8867611	AT/A	AGCTCCCATACCAGGA CCTT	GAGCCACCATTTTCC TCCA	60.0	374	INTERGENIC	--	--	--
Ca4_P3_8869508	Ca4	8869508	GC/G	CCCTCCCCTCAAAGA AAAG	TGGAGGAGAAGTTTGG GGTG	60.0	653	INTERGENIC	--	--	--
Ca4_P3_8870614	Ca4	8870614	TAAAA/TAAA	AAAACATCGGAGTCCA CGTC	TTTTCCTGTTTATTT TTCG	60.0	522	INTERGENIC	--	--	--
Ca4_P3_8871044	Ca4	8871044	CATAAAAT/CATAAAATTATAAAAT	AAAACATCGGAGTCCA CGTC	AATTTATTGCGGCAA ATTC	60.0	699	INTERGENIC	--	--	--
Ca4_P3_8876702	Ca4	8876702	A/AAGGAAT	ACTTCCCATGCCTTTGT GTC	TTGGTGGTGTGATGC TGTT	60.0	393	INTRON	Ca_08385	U	B3
Ca4_P3_8880111	Ca4	8880111	AC/A	AAGGACAGAGACGAT CCAA	CATAATCGGCCTGATT GTTGT	59.7	830	INTERGENIC	--	--	--
Ca4_P3_8880284	Ca4	8880284	ATTTT/ATTTTT	CCAATGAAAATGGAAC CAACA	TTTTTGTATAATCGGC CTG	60.6	523	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
Ca4_P3_8882798	Ca4	8882798	ACT/ACTAATGCT	CCAAGTGCATTGACG ACTA	TTCTCCATAAATTCAA CATTGG	59.9	754	INTERGENIC	--	--	--
Ca4_P3_8884654	Ca4	8884654	ATTTTTTTT/ATTTTTTT	ACCTGACCTATTCCCAT CCC	GTCGATCTCGCTCACT CCAC	60.0	866	INTERGENIC	--	--	--
Ca4_P3_8891264	Ca4	8891264	AAATTAATTAA/AAATTAA	AATTCAAAGTGCGAGTT GGG	CCCGATGTGTACCCTC TGAT	60.1	753	DRR	Ca_08386	--	--
Ca4_P3_8891981	Ca4	8891981	CAAA/CAA	ATACACCACAACGCGT CAAA	AAGCATGGTATTCGGG AGTG	60.0	204	DRR	Ca_08386	--	--
Ca4_P3_8892700	Ca4	8892700	AAGA/AA	CCTCAGCCGCTACTCA GCTA	CATGTCGTCAACCCTA ATCG	60.8	958	DRR	Ca_08386	--	--
Ca4_P3_8893972	Ca4	8893972	GTTTTTT/GTTTTTTT	AGGTGTTTTGGTTGGA GGTG	GGAAAGCCAGCCATAC TTCA	59.9	967	INTERGENIC	--	--	--
Ca4_P3_8894416	Ca4	8894416	CTATATATATATAT/CTATATATATATAT ATATAT	TGATATCCGGTTTGGG TGTT	CTCCCGTTATCCGAAA CAGA	60.1	569	INTERGENIC	--	--	--
Ca4_P3_8895815	Ca4	8895815	G/GA	CCGCGTATTATGTCAT GTTTTG	GCCTTTTGCAGTTTAG CGAC	60.3	691	INTERGENIC	--	--	--
Ca4_P3_8897355	Ca4	8897355	TA/T	GATCCACTCAGGGTCG TGTT	ACTTTTGCATCTGGAT GGCT	60.0	461	INTERGENIC	--	--	--
Ca4_P3_8901196	Ca4	8901196	GT/GTTT	CCCTCCATTACAGGGG ATTT	AAGCTCATCACCGATC ATCC	60.0	813	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
Ca4_P3_8901492	Ca4	8901492	TTATATGTTATA/T	GCAACAAATTATCTTGC CGTC	AAGCTCATCACCGATC ATCC	59.6	334	INTERGENIC	--	--	--
Ca4_P3_8904444	Ca4	8904444	CA/CTCTTAA	AAGAAAACCCACCACA CTCG	ATGATTCTGCATTCTC GGC	60.0	865	INTERGENIC	--	--	--
Ca4_P3_8907266	Ca4	8907266	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATT/ATATTATTATTAT TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATT	TGCCAAGTAGCTGAAC CACA	TTATCCATCCCTGTC CATT	60.4	741	INTERGENIC	--	--	--
Ca4_P3_8946430	Ca4	8946430	TGAGAGAGAGAGAGATGAGAGAGAG AGAGAGA	ACAGCAACCGAAACTG CTTT	GGGGAGCATTGGTCAC TAAA	59.9	432	INTERGENIC	--	--	--
Ca4_P3_89549	Ca4	89549	AAACAA/AAA	TGGATTGTCAGGACTG GATG	TCTGCCAAGTCACGAA TCAC	59.5	979	INTERGENIC	--	--	--
Ca4_P3_9028821	Ca4	9028821	TTATATATATATATATATAT/TTATATAT ATATATATATATAT	ATGGAACAATCGGACA CCAT	CTGTCAACTCACTCAT CAAATCG	60.1	422	INTERGENIC	--	--	--
Ca4_P3_9030140	Ca4	9030140	ATTTTTTTTTTT/ATTTTTTTTTTTT	TGGTGTTGGAGTCATG CTTT	AAATTTGCAATGACGG CTTC	59.1	656	INTERGENIC	--	--	--
Ca4_P3_9041838	Ca4	9041838	AGTG/A	GAAGCAGACACCAAAA TCAAAA	CCAAAGAGGTGAACT GGGA	59.2	500	INTERGENIC	--	--	--
Ca4_P3_9066423	Ca4	9066423	ACC/AC	GCAACCCGTAGGTGTA GGAA	TGTGCGTTGGTAGTCA ATGTG	60.0	546	INTERGENIC	--	--	--
Ca4_P3_9079145	Ca4	9079145	ATTTTTTTTTTT/ATTTTTTTTTTT	AGTTGGAAGTCGCCAA AGAA	ATGGTGCACTTCTTGC CATA	59.9	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
Ca4_P3_9130579	Ca4	9130579	CATATATATATATAT/CATATATATATAT	AATTCTGACATGCGAAT CCC	TGTAAGCGCTTCTAA GTCTCG	59.9	589	INTERGENIC	--	--	--
Ca4_P3_9229798	Ca4	9229798	TGGG/TGGGG	AAGGCTCAACATGCAA AACC	TGCCAATTCGATTGGA ATAA	60.1	522	INTERGENIC	--	--	--
Ca4_P3_9264863	Ca4	9264863	AT/A	CAACTTGAAAAGAAG GGAGA	TTTAAAGCCACACCAC ACCA	59.3	615	INTERGENIC	--	--	--
Ca4_P3_932693	Ca4	932693	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/ATAT TATTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATT	GCAAAACATCCAAACCT CTG	CCTTGCTTCTCTTC TGCC	60.3	217	INTERGENIC	--	--	--
Ca4_P3_9339969	Ca4	9339969	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGAGGCCAGTTTCTTT CTG	TACACCCACATAGTGG GCAA	60.4	856	INTRON	Ca_08423	Q	E2F/DP
Ca4_P3_9351475	Ca4	9351475	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	GGTGTATCCCGCTCA TGTT	CTATTAGCCTTGCTGA GCCC	59.8	683	DRR	Ca_08424	K	--
Ca4_P3_9358456	Ca4	9358456	ATTTTTTTTT/ATTTTTTTTT	CAAGAGTGGACCGACA TCCT	GCGGAGAAGACAGAG ACGAT	60.1	123	INTERGENIC	--	--	--
Ca4_P3_9371255	Ca4	9371255	GAAAAAAAA/GAAAAAAAA	GGAGCATATGCCTCGT TGTT	TGGAATTCAACTTTTT GGACA	60.1	549	INTERGENIC	--	--	--
Ca4_P3_9407946	Ca4	9407946	ACTTTGTCTTTGTCT/ACTTTGTCTTTG TCTTTGTCT	GTTGTCAGCTCCCGA AGAG	CTCGATCCTTCATGA GTTTG	60.0	607	DRR	Ca_08430	A	--
Ca4_P3_9540231	Ca4	9540231	TTA/TTATTCTCTTAATA	ACCACATGGAAGGCC AAAG	ACACCCTTCTCTCCCC ATTT	60.0	363	INTRON	Ca_08439	--	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 (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
Ca4_P3_9562230	Ca4	9562230	A/ATATATAT	TTGGTGAATGGTGAAC CGTA	ATTAGTGGGTGCTTG TGGC	59.8	773	DRR	Ca_08440	--	bHLH
Ca4_P3_9576810	Ca4	9576810	CGTCAGGG/CG	CCCAATTATAGCGTGG TGCT	AAAGTTTGGCCTGACT TGGA	60.0	790	INTERGENIC	--	--	--
Ca4_P3_9625757	Ca4	9625757	ATATTATTATTATTATTATTATT ATT/ATATTATTATTATTATTAT TATTATTATT	ATGTGCGAGAAAGGGA GAGA	CACTTCGGTCATTCTC TTCAAA	60.0	543	INTERGENIC	--	--	--
Ca4_P3_9630152	Ca4	9630152	GAA/GA	CCTCTTCCAAACAAATC TTCG	TCAAATATGGCATGT GGGA	58.8	455	INTERGENIC	--	--	--
Ca4_P3_9630289	Ca4	9630289	ATTAGTTAGTT/ATTAGTTAGTTAGTT	CCTCTTCCAAACAAATC TTCG	CCAGCTCATCAAAGCC ATT	58.8	550	INTERGENIC	--	--	--
Ca4_P3_9632653	Ca4	9632653	TG/T	TGGATTGTCGTGATCT CAAA	CACACCCGTACTCAGC ATTG	57.6	630	INTERGENIC	--	--	--
Ca4_P3_9633059	Ca4	9633059	TAAAAAAAAA/TAAAAAAAAA	CAATGCTGAGTACGGG TGTC	AACACAAGGAGGCCAT GTTC	60.2	503	INTERGENIC	--	--	--
Ca4_P3_9704009	Ca4	9704009	AAGTTAGGAGTTAGGAGTTAGGAGTT AGGAGTTAGG/AAGTTAGGAGTTAGGA GTTAGGAGTTAGGAGTTAGGAGTTAG G	TTCCAAAAGCAAACACA CCA	CTCTTCTTGACCTGC CCTG	60.1	745	DRR	Ca_08447	Q	Nin-like
Ca4_P3_9722503	Ca4	9722503	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATATA TATATATATATATAT	AGTGTTTAACCCATGC GACC	TGTTTTGCCATTAGATA CACCAA	59.9	549	INTERGENIC	--	--	--
Ca4_P3_9726284	Ca4	9726284	ATTTTTTTTT/ATTTTTTTT	GGGCTTACCAAAAGCA GACA	GCGCCACCATGGACTA CTAT	60.2	314	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 (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
Ca5_P3_10420664	Ca5	10420664	AATATATATATATATATATA/AATATA TATATATATATATATATA	AAGGAAGGCCTACTCC CAAA	TACCAAGGCGTCGTCA AAAT	60.1	597	INTERGENIC	--	--	--
Ca5_P3_10572522	Ca5	10572522	AATATATATATATATATATAT/AAT ATATATATATATATAT	CGTGGACAAAGATCGT GATG	TCATTGTTAAAGAGCG GTGC	60.1	382	INTERGENIC	--	--	--
Ca5_P3_10585651	Ca5	10585651	AG/A	GGGGGAGATTGTTGGA TTTT	TCGACTTGTCATCGC TTTG	60.0	634	INTERGENIC	--	--	--
Ca5_P3_10634338	Ca5	10634338	AC/ACC	AATTTTTCAGTCCCGT TCG	ATCCCTCAAAGGGCTA CTGC	60.0	229	INTERGENIC	--	--	--
Ca5_P3_10641003	Ca5	10641003	AGGGGG/AGGGGGG	CGCCACTGTCATAAGG GATT	CAAGTTGGGTGAACCA GGAT	60.0	520	INTERGENIC	--	--	--
Ca5_P3_1065182	Ca5	1065182	TAAAA/TAAAAA	AATGGCCACGAATCTG AAAG	ACCATTTCACACTGCAT CCC	60.1	634	INTERGENIC	--	--	--
Ca5_P3_10686981	Ca5	10686981	TAAAAAAA/TAAAAA	GCTCCTTCTGCATCAAC ACA	TGCCCCACATTTTAGA CCTC	60.0	509	INTERGENIC	--	--	--
Ca5_P3_10687869	Ca5	10687869	TAAAAAAA/TAAAAA	CGAGGAACGACAAGGG TAAA	TGAGTTGAGTTAAAA CCAGCAGA	60.1	673	INTERGENIC	--	--	--
Ca5_P3_10688557	Ca5	10688557	AGTTGTT/AGTT	TCCATCAAAGTATCCT AAGGG	TGGGGTTTAGATGATG GCTC	60.3	179	INTERGENIC	--	--	--
Ca5_P3_10688722	Ca5	10688722	C/CCACAT	GAGCCATCATCTAAAC CCCA	TTCAACTTGAATTTCG GAAAA	59.9	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 (°C)	Expected 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_P3_10689102	Ca5	10689102	TAAA/TAA	ATGGGCCACCTATTGA GACA	TGCCAAGAAAAAGGT TTCG	60.3	623	INTERGENIC	--	--	--
Ca5_P3_10689356	Ca5	10689356	CT/C	CGAAACCTTTTCTTTG GCA	GGATTGTCCCTTCATT GGTG	60.2	415	INTERGENIC	--	--	--
Ca5_P3_10689622	Ca5	10689622	AGAAGCATG/AG	CGAAACCTTTTCTTTG GCA	AACGGATTGTCCCTTC ATTG	60.2	418	INTERGENIC	--	--	--
Ca5_P3_10693789	Ca5	10693789	CTTGATGATGTTTTGTTGTGATTG/CTT GTGATTG	CCAATTTGAATTGTCCG TCC	TGCAAAAGCTGGGTC AAGT	60.2	406	INTERGENIC	--	--	--
Ca5_P3_10867305	Ca5	10867305	GC/G	TGTAATCATTTAGGAT GCATGA	GCACGTGCACATGTCT TACA	59.3	560	INTERGENIC	--	--	--
Ca5_P3_10955133	Ca5	10955133	CAAA/CAAAA	CCGGTGGATGAGAAGG AGTA	TTGGAGGAGGAGATTG GTTG	60.1	485	INTERGENIC	--	--	--
Ca5_P3_10980425	Ca5	10980425	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT ATAATAATAATAATAA	AAAACCAATAATGGCAA CGC	GGATTGGTTACGCTTG TTTGA	59.8	591	INTERGENIC	--	--	--
Ca5_P3_1101216	Ca5	1101216	GATTTGAAGAATATTTGAAGAA/GATTT GAAGAATATTTGAAGAATATTTGAAGA A	TATGTGGCGATGAAGT GAGG	TCGACCCTACAAGCCA AATC	59.7	724	INTERGENIC	--	--	--
Ca5_P3_11131260	Ca5	11131260	CA/CAAA	CAAGTGACACGCGGAA TTTA	GGTTGAGAGGGCTCAA CAAG	59.9	325	INTERGENIC	--	--	--
Ca5_P3_11138840	Ca5	11138840	GT/G	TCGACTTGTCATCGCT TTG	TCGATTAACTACGAA CGCA	60.0	676	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 (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
Ca5_P3_11168411	Ca5	11168411	AATA/AA	TTCAAACGGAAGTAT GCTTT	TTGGTTGGGGGAGTTA TTGA	59.7	954	INTERGENIC	--	--	--
Ca5_P3_11168707	Ca5	11168707	CTTTTTTT/CTTTTTTTTTT	TCGTTGAGGAAAAACA AACAAA	TTGGTTGGGGGAGTTA TTGA	59.6	557	INTERGENIC	--	--	--
Ca5_P3_11168737	Ca5	11168737	ATGT/A	TCGTTGAGGAAAAACA AACAAA	TTGGTTGGGGGAGTTA TTGA	59.6	557	INTERGENIC	--	--	--
Ca5_P3_11168801	Ca5	11168801	ACTATTAGTCTATTA/ACTATTA	TCGTTGAGGAAAAACA AACAAA	TTGGTTGGGGGAGTTA TTGA	59.6	557	INTERGENIC	--	--	--
Ca5_P3_11168904	Ca5	11168904	GTCTCTCT/GTCTCT	TCAATAACTCCCCAAC CAA	TCACAATTGGGTTTGG ATCA	60.2	227	INTERGENIC	--	--	--
Ca5_P3_11169035	Ca5	11169035	CG/C	TCAATAACTCCCCAAC CAA	TGACGCCGTGAAAAAC ATTA	60.2	626	INTERGENIC	--	--	--
Ca5_P3_11169613	Ca5	11169613	C/CG	TGAAGCAGTTGTTGG GTGA	GAGCCCAATCCAAAA TTCA	60.3	225	CDS (FRAME SHIFT)	Ca_23744	A	--
Ca5_P3_11291761	Ca5	11291761	TA/TAAGTCAACA	TTTGGTCCTGTAACAC CCC	GCGTGAAGATCATCTG GGAT	59.7	367	INTERGENIC	--	--	--
Ca5_P3_11414411	Ca5	11414411	A/AACCT	TCTGAATCGGAGTACC CCAC	AATGGCTTTCCTTCGT GATG	59.9	770	INTERGENIC	--	--	--
Ca5_P3_11420782	Ca5	11420782	TTA/TTACTA	ATTAAGTGAATGGATCG CGG	AGTGTGGAAGGACGA GCAAG	59.9	485	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	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
Ca5_P3_11494502	Ca5	11494502	AATATATATATATATATATATATATATATATATATAT/AATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATAT	AAACCTACCAATTGGCATCC	CTTCGGGTTGTTTGAAAGG	58.8	594	INTERGENIC	--	--	--
Ca5_P3_11517113	Ca5	11517113	T/TA	TCGATTATGCGTAGGGAAGG	C GG GAG ATACGTAGGA GCAA	60.1	248	INTERGENIC	--	--	--
Ca5_P3_115778	Ca5	115778	TTCACCGGTCA/TTCA	AAGATTGCAATTGGCTGC	TTTTT AGGGGG CGATT GTATT	60.2	511	INTERGENIC	--	--	--
Ca5_P3_11587595	Ca5	11587595	TTATATATATATATATATAT/TTATATATATATATATATAT	TCGA ACTACCTCCCC CTTT	TTG TTGGAG TG GTTT T GACG	59.9	756	DRR	Ca_23350	--	Trihelix
Ca5_P3_11666989	Ca5	11666989	T/TGTTTGAC	GCCAATAGAGGATGGAGAACA	TATGCCA AAGCCATGT TTCA	60.2	533	INTERGENIC	--	--	--
Ca5_P3_11729570	Ca5	11729570	AAATAATAATAA/AAATAATAA	CACGGTCCC TAGAGCC AATA	C GG GAG ATACGTAGGA GCAA	60.1	672	INTERGENIC	--	--	--
Ca5_P3_11807512	Ca5	11807512	ATTTTTTTTTTT/ATTTTTTTTTTT	CCTAGTGCTGCTCTGCCITT	ACCTACCAATTTTTCG CACG	59.8	428	INTERGENIC	--	--	--
Ca5_P3_11878820	Ca5	11878820	CATATATATATATATATATATATAT/CATATATATATATATATATATATATAT	TATTTTGGA TTTTGCGT CGG	AGAGGGGTTTGTGTTT GACG	59.9	599	INTERGENIC	--	--	--
Ca5_P3_11879038	Ca5	11879038	CG/C	AAGATTTCCTCCCTCCTCCA	CTTTAACATGCGTTTCCGGT	60.0	327	INTERGENIC	--	--	--
Ca5_P3_11879108	Ca5	11879108	TAA/TAAA	AAGATTTCCTCCCTCCTCCA	CTTTAACATGCGTTTCCGGT	60.0	327	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 (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
Ca5_P3_11947363	Ca5	11947363	TAAAAA/TAAAAAA	TCCACTGTGCCACATC ATTT	TGTGTTTGTGGTGCGA TTTT	60.0	729	INTERGENIC	--	--	--
Ca5_P3_11983861	Ca5	11983861	G/GATCTTCGATCCT	CTGCTGTCAACTCCACT CCA	TCAAAATCCCCAATAA CCA	60.0	713	DRR	Ca_17106	--	--
Ca5_P3_12095777	Ca5	12095777	CAAAAAAA/CAAAAAA	CTCTTTAAGACGTTTCG CGG	TGCTCGCCTAATTTTC GAGT	60.0	461	INTERGENIC	--	--	--
Ca5_P3_1230643	Ca5	1230643	TT/TTCCGT	ACGAAATCGAAGAGAA GCGA	TCCAGGACACAAACAA TCCA	60.1	455	INTERGENIC	--	--	--
Ca5_P3_12448859	Ca5	12448859	ATTTT/ATTTT	TTCTACCCGAAATTTGT GCC	GTCAGTCAGCCTCTCT TGCC	59.9	361	INTERGENIC	--	--	--
Ca5_P3_12635364	Ca5	12635364	CAAAAAAA/CAAAAAAA	TGGAACCAACACACA CCAT	AGCGAAAAGAAGATTG GTCG	59.7	642	INTERGENIC	--	--	--
Ca5_P3_12650184	Ca5	12650184	TGG/TG	CTTGCCCAGGCAATAA CATC	AGGTAAATGCGGGTG TGAG	60.5	392	INTRON	Ca_17067	T	Dof
Ca5_P3_1301357	Ca5	1301357	AGGG/AGG	AGGGATAACCTGGTGC TG TG	GCTGTCGAGTCCCAA CAAT	60.0	597	INTERGENIC	--	--	--
Ca5_P3_131995	Ca5	131995	TAAAAAA/TAAAAAA	ATCCAAGTATCCAACG GCTG	CACCTCTGCCCACTTC ATTT	60.0	493	INTERGENIC	--	--	--
Ca5_P3_132937	Ca5	132937	CAA/CAAA	CCAAAGACACAGCAAA GCAA	CACTTCCACCACTGTC AAAA	60.0	569	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 (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
Ca5_P3_133428	Ca5	133428	GAACA/GAACAATTTTATAATAACA	ACCTTTACATGGTGCCA AGC	GC GTTGTGAAACAGG ACAA	60.0	433	INTERGENIC	--	--	--
Ca5_P3_133648	Ca5	133648	GAAAAA/GAAAA	TTGTCCTGTTTTCACAA CGC	TCAACAATTTGTGGGC TTCA	59.7	574	INTERGENIC	--	--	--
Ca5_P3_133927	Ca5	133927	ATTT/ATTTT	TTGTCCTGTTTTCACAA CGC	TCAACAATTTGTGGGC TTCA	59.7	574	INTERGENIC	--	--	--
Ca5_P3_133972	Ca5	133972	CAAAAA/CAAAAA	TTGTCCTGTTTTCACAA CGC	TCAACAATTTGTGGGC TTCA	59.7	574	INTERGENIC	--	--	--
Ca5_P3_134014	Ca5	134014	TA/T	CAGGACCGTTTCTTA CTGA	TCAACAATTTGTGGGC TTCA	57.8	265	INTERGENIC	--	--	--
Ca5_P3_13615970	Ca5	13615970	CT/CTT	CGAGTGACTGCAAGGA TCAA	ATCCAAGTGAAGCCAT GAAC	60.0	547	INTERGENIC	--	--	--
Ca5_P3_13624288	Ca5	13624288	ATTTT/ATTTTTT	TGAAAATGTTGTTGGTA GTGGC	CGACGGTGCCAATTT CTAT	59.9	948	INTERGENIC	--	--	--
Ca5_P3_13628890	Ca5	13628890	TTGT/TT	CAAAGCATAGATCGGA CCGT	CAACAATGACGCAACC ATTT	60.1	799	INTERGENIC	--	--	--
Ca5_P3_13636401	Ca5	13636401	A/AC	ATCGACAAACCAACATG CAA	GGGAAACTCACTTGCG GTTA	60.0	735	INTERGENIC	--	--	--
Ca5_P3_13636921	Ca5	13636921	CTGT/CT	TAACCGCAAGTGAGTTT CCC	GCGGTGGCTGAGTTTC TTAC	60.1	387	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
Ca5_P3_136504	Ca5	136504	AAAAAAGAAAAAGAAAA/AAAAAAGAAA AAGAAAAAGAAAAAGAAAA	TTTCTAACCCGGAACAC GTC	ATTCCTGCACACCACT TTCC	60.0	189	INTERGENIC	--	--	--
Ca5_P3_13702174	Ca5	13702174	ATTTTTTTTTTT/ATTTTTTTTTTTTT	ACAGCCCAGGTGTATT TTGC	ATGGATGCAATGAACA TGGA	60.0	341	INTERGENIC	--	--	--
Ca5_P3_1377883	Ca5	1377883	TCC/TC	GACTCTTCCATAGCGT GCC	CACCTTGTAGCCAACG GTTT	59.8	720	INTERGENIC	--	--	--
Ca5_P3_13858932	Ca5	13858932	A/AC	GATTCGCCATTCTTAAC GCC	TCGCGAAGAGATAGAA GGGA	60.6	554	INTERGENIC	--	--	--
Ca5_P3_13970765	Ca5	13970765	T/TG	TATTTGGACAAACGAAG GGC	CCCTTTTGCTTGTG GTTA	59.9	282	INTERGENIC	--	--	--
Ca5_P3_13971864	Ca5	13971864	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATAT A	ATGGAGACTTTCTGCA GCGT	TCCTCCGGCTGCTAAA TAAA	60.0	691	INTERGENIC	--	--	--
Ca5_P3_14015904	Ca5	14015904	AAGAGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGAGAGAGA/AAGAGAGAG AGAGAGAGAGAGAGAGAGAGAGAGAG AGAGA	ATAGCTGTGAGGGGGT GATG	TGTGCCTACAACCAAC CAAA	60.0	490	INTERGENIC	--	--	--
Ca5_P3_14022502	Ca5	14022502	ATTT/ATTTT	GGAAATGGATGTCTGC CAAT	TTGCAATCTCATCAACT CGG	59.8	318	INTERGENIC	--	--	--
Ca5_P3_14022676	Ca5	14022676	T/TC	CGGACCGAGTTGATGA GATT	TGCTTTGAAGACCATG TGGA	60.1	618	INTERGENIC	--	--	--
Ca5_P3_14153085	Ca5	14153085	TAAAA/TAAA	TGAAAATTCCAAGGCA CACA	GCAAGAAAAGCTTGTG AATGTTT	60.1	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 (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
Ca5_P3_14223524	Ca5	14223524	TAAAAAA/TAAAAA	TTGGATTTGGGTAGT GGGA	TTGAATGTGAAAAGG AACAGTG	60.2	805	INTERGENIC	--	--	--
Ca5_P3_14300751	Ca5	14300751	G/GA	TTTGC GTTACGAATTTG ATGA	AAATGAACGAATTTGC ACTCG	59.2	595	INTERGENIC	--	--	--
Ca5_P3_14394852	Ca5	14394852	CTTTT/CTTTT	TCTTCCACCCAGTTTT ACC	TTGAGGGCTATGTTT TCGG	59.9	337	INTERGENIC	--	--	--
Ca5_P3_1457283	Ca5	1457283	GA/GAA	TTTTCCACAAATCCAA CCA	TACGGTGCTAGGGAAC CAAC	58.8	274	INTERGENIC	--	--	--
Ca5_P3_149074	Ca5	149074	TT/TTAT	TTCGGTTGGTTTTGCAA TTT	TGCGGAGTTGGATCTC TCTT	60.3	200	INTERGENIC	--	--	--
Ca5_P3_151448	Ca5	151448	TAT/TTTATATTGAT	ATGACTGGGTGGCAAA ACTC	CATTTTGGCGGTACTC GTTT	60.0	669	INTERGENIC	--	--	--
Ca5_P3_15219291	Ca5	15219291	AATCAAGTGATCAAGTGATCA/AATCA AGTGATCAAGTGATCAAGTGATCA	TGTGTTAGTCGTGTTTG GCA	CCTTTAGATTTTGCATC GCC	58.8	378	DRR	Ca_21632	--	Trihelix
Ca5_P3_15358764	Ca5	15358764	CTTTTTTTTTT/CTTTTTTTTTT	AAAGGCAAGGCTCGTT ACAA	TTGTGCTATGGTGCTT TTGC	59.9	392	INTERGENIC	--	--	--
Ca5_P3_15444111	Ca5	15444111	TTCTCTCTCTCTCTCTCTC/TTCTCT CTCTCTCTCTCTC	CATGTTCTTGGTCTG GCTT	CAACCACTAGACAGGC AGCA	60.1	367	INTERGENIC	--	--	--
Ca5_P3_154620	Ca5	154620	CATATATATATATATAT/CATATATATAT ATAT	CTCGACACCTTGAGAC GTGA	CAAGCGTGAGATGAGC AAGA	60.0	492	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
Ca5_P3_15699246	Ca5	15699246	T/TAC	GCAGCTGCGAAGCTAA CTTAAT	CTAATCCACAGGACGA AGCC	60.2	900	INTERGENIC	--	--	--
Ca5_P3_15756736	Ca5	15756736	GACAC/GAC	GCGCGATTACCAAAA ATGT	TTTGAGTGGTGGGTTG TGAA	60.0	431	INTERGENIC	--	--	--
Ca5_P3_15773222	Ca5	15773222	TT/TTAT	GCCTTAAATTTGGCAA TGG	TCTTCGCAATCAAAA GAATGA	59.4	807	INTERGENIC	--	--	--
Ca5_P3_1586054	Ca5	1586054	TAAAA/TAAA	CTGTTTTCTACCCCCA CCT	AGCGTTGTAAAAGATG CGCT	60.2	727	INTERGENIC	--	--	--
Ca5_P3_15871940	Ca5	15871940	ATTTTT/ATTTTT	TGAGGATGAATGCATG GAAG	TTGAAATGAGCATGAT GGGA	59.6	163	INTERGENIC	--	--	--
Ca5_P3_158794	Ca5	158794	TAAAAA/TAAAAA	TGATGCGTCATGGACA TAAA	TTTAAAAATGTCCATT TACACCG	58.5	498	INTERGENIC	--	--	--
Ca5_P3_1591818	Ca5	1591818	ATTTTTTTTT/ATTTTTTTTT	CTGACATCGCATTTCG CTTA	GCCCTCAGATGAGAGT CAGG	60.0	788	INTERGENIC	--	--	--
Ca5_P3_15929124	Ca5	15929124	ATAT/ATATGTAT	TGATGACGAAGACGAA GACG	AACACATCCGGGATCC ATTA	60.0	416	INTERGENIC	--	--	--
Ca5_P3_15929247	Ca5	15929247	AACCAC/AAC	TGATGACGAAGACGAA GACG	AACACATCCGGGATCC ATTA	60.0	416	INTERGENIC	--	--	--
Ca5_P3_16152519	Ca5	16152519	AG/AGTG	CTGCCACCGTTGTTA ATCT	CTGGGAATCGTTCAAA AGGA	60.0	369	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
Ca5_P3_16251480	Ca5	16251480	T/TAGTGTAGAAAGAGTG	TCAGAATCAACCGAGTT CCC	TAAACACACTCGTCCC CACA	60.1	249	INTERGENIC	--	--	--
Ca5_P3_162548	Ca5	162548	TTTATT/TTT	TGTCCTGTGCAAGAGA GGC	TCCATGACAGTTCAAG GATCTC	60.1	456	INTERGENIC	--	--	--
Ca5_P3_16319965	Ca5	16319965	TGGG/TGGGG	TTGTGTGCAGGATCCA CATT	TTGACCATTGCACGAA ACAT	60.0	502	INTERGENIC	--	--	--
Ca5_P3_1633237	Ca5	1633237	CAAAAAAAAA/CAAAAAAAAA	TGCATTGTGCTAGATG GTCTT	TGTTCCGATTGTATTT GAGGA	58.4	699	INTERGENIC	--	--	--
Ca5_P3_16340358	Ca5	16340358	AATATATATATATATATAT/AAAT ATATATATATATATAT	ACTCGGATGCTTTTAG CCA	GTTGGTCCCTAGCAC CGTA	59.8	626	INTERGENIC	--	--	--
Ca5_P3_16363340	Ca5	16363340	GTT/GTTT	AATCTGGTGCACGAT TTTC	ACATCGCCATTACCGA ACTC	59.9	445	DRR	Ca_17921	R	MYB_related
Ca5_P3_166014	Ca5	166014	AAA/AAATTAA	GAGTGTGGGCAACCA AAAT	CGCTGCACGGTAATTA GGAT	59.8	559	INTRON	Ca_18171	--	NAC
Ca5_P3_166515	Ca5	166515	TTAATAATAATAAT/TTAATAATAATAAT AAT	ATTCTGCAGGAGGCAA CAGT	TTGGATTCCAGTCCCA TAGC	59.9	285	CDS (large-effect mutations)	Ca_18171	--	NAC
Ca5_P3_16715406	Ca5	16715406	GAAAAAAAA/GAAAAAAAA	TTGCGTTACGGATTGA TGA	GCTAAATTACATTCTG GTCCC	60.1	240	INTERGENIC	--	--	--
Ca5_P3_16765808	Ca5	16765808	TAGA/TA	CGATCGTGCTACGTCT TCAA	TGGTGGGAATGTTGTG ATTG	60.0	677	DRR	Ca_17941	R	HSF

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
Ca5_P3_1678181	Ca5	1678181	TTATATATATAT/TTATATATATATAT	CGGTGAATCCTTTACG GAGA	AGGAAGAGTGGAGTTG CGAA	60.1	384	INTERGENIC	--	--	--
Ca5_P3_16881790	Ca5	16881790	GATATATATATATATATATAT/GATAT ATATATATATATATATAT	AATCAATCACAACCGTT AAATCA	CACGTTGCTCTTGGTC TTGA	58.4	902	INTERGENIC	--	--	--
Ca5_P3_168831	Ca5	168831	GTGGTTGGTT/GTGGTT	CGAGATACGCGTCATT AAAAA	TCGTCGAGAACAGTG CATC	58.0	358	INTERGENIC	--	--	--
Ca5_P3_16948578	Ca5	16948578	CATATATATATATATATAT/CATATATAT ATATATATATAT	GTTTTCGAATCAACGAG GGA	GCTCAGAGGCTTTTGA GCCA	60.1	509	INTERGENIC	--	--	--
Ca5_P3_16961163	Ca5	16961163	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTAT/TTTATTAT TATTATTATTATTATTATTATTATTA TTAT	TCAATCCGTTTCTTTTC GGA	TTGAAGCCGAGAAAAC GACT	60.6	672	INTERGENIC	--	--	--
Ca5_P3_17015113	Ca5	17015113	TTTATTATTATTATTATTATTATTAT TATTATTATTATT/TTTATTATTATTATTA TTATTATTATTATTATTATTATTATT	TGAAAATGGAGAAGGA TGGG	TCCTCCAAGTTCCAAC AACA	59.9	457	INTERGENIC	--	--	--
Ca5_P3_17048541	Ca5	17048541	AATATATATATATATATATAT/AATAT ATATATATATATATATAT	GGTCAGCATTACCCG ATGA	TTTCTCCACCTTCCTTG GTG	60.7	534	INTERGENIC	--	--	--
Ca5_P3_171078	Ca5	171078	TAAA/TA	AATGGTTTTAGAGCG GAGA	GCAAATTTGTGTGTG CTTTG	59.8	723	INTERGENIC	--	--	--
Ca5_P3_17244450	Ca5	17244450	AG/A	GTACCCTCCTCTCGG TCTC	TTGTGTTTCAACAAC CTCA	60.1	729	INTERGENIC	--	--	--
Ca5_P3_17314539	Ca5	17314539	TAAAAAAAAA/TAAAAAAAAA	TCGATTATGCGTAGGG AAGG	TTGCGACAACCTGGTG ATTG	60.1	824	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
Ca5_P3_17448710	Ca5	17448710	CACTATACAA/CACTATACAACCTATACA A	TGTGGATGTTCAAGGG ACAA	ACAAATGGCGTATGCC TCTC	59.9	864	INTERGENIC	--	--	--
Ca5_P3_17494887	Ca5	17494887	CTGA/CTGACCTCCTATATGTGA	CTACGCCAAGAACTG CTCC	GTACGCGTCCAGACAT AGCA	60.0	245	INTERGENIC	--	--	--
Ca5_P3_17526738	Ca5	17526738	T/TG	GATTGGGGGAAGATGA GGAT	TTTGCATTACGAATTT GATGA	60.1	465	INTERGENIC	--	--	--
Ca5_P3_17612584	Ca5	17612584	CATTCAAAAAATTCA/CATTCAAAAA ATTCAAAAAATTCA	GTCTCTTGCTCTCCCA CCAA	TTTATGTGGTGAATTG GCGA	60.4	769	INTERGENIC	--	--	--
Ca5_P3_17733319	Ca5	17733319	A/ATCGGTTCAAGC	CGCGATGTCGTCTAAA GTGA	GAGGGGAGGGTTTTTG CTAC	60.0	583	INTERGENIC	--	--	--
Ca5_P3_17763617	Ca5	17763617	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATT/TTTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATT	TCAGGGGCCTATGATT TGAC	TGTGCAACTTTGCAAC CTAGA	59.9	462	INTERGENIC	--	--	--
Ca5_P3_17837198	Ca5	17837198	GAAA/GAAAAA	TACGTGTTAACGTGGT CGGA	CCCGCCTGACAGTTAA TCAT	60.0	372	INTERGENIC	--	--	--
Ca5_P3_178618	Ca5	178618	TAAAAAAAAA/TAAAAAAAAA	TGCTTTTCGTCAACCTCA GTG	TCTCTTGCCTCTGCTG CTAA	60.0	717	INTRON	Ca_18172	J	--
Ca5_P3_178743	Ca5	178743	CCTAA/CCTAACTACTCCACTAA	TGCTTTTCGTCAACCTCA GTG	TCTCTTGCCTCTGCTG CTAA	60.0	717	INTRON	Ca_18172	J	--
Ca5_P3_17875475	Ca5	17875475	GAAAAAAAA/GAAAAAAAAA	TGCAGAACCTTTTCGCTT CTT	CACATTTGGAGGCAAA ATCA	60.1	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 (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
Ca5_P3_17876530	Ca5	17876530	CAA/CAA	TTTCATCCATCACCGAC AAA	CTCAACGAATGCCTGA AACA	59.9	573	INTERGENIC	--	--	--
Ca5_P3_17876693	Ca5	17876693	CACAAA/CAA	TGTTTCAGGCATTGCTT GAG	TCAATACCATTTCACC GCA	59.8	471	INTERGENIC	--	--	--
Ca5_P3_17876974	Ca5	17876974	ATTTTT/ATTTTTTT	TGTTTCAGGCATTGCTT GAG	TCAATACCATTTCACC GCA	59.8	471	INTERGENIC	--	--	--
Ca5_P3_1794712	Ca5	1794712	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATT/AAATTATTA TTATTATTATTATTATTATTATTATTATT ATTATTATT	GAGAAGGCGAGAAGGA AGGT	GCAAGGTTTAGGTGGG TCAA	60.0	605	INTERGENIC	--	--	--
Ca5_P3_179816	Ca5	179816	ACC/ACCC	GCTTCCAAACCAGCAG AGTC	AAGTGTGTGCAGGCCG TAG	60.0	542	INTERGENIC	--	--	--
Ca5_P3_18015209	Ca5	18015209	TAAA/TAA	GCTTATCCCGGAATTT GACA	ATCGCATTGACACGAC AAAA	59.9	759	DRR	Ca_22851	--	--
Ca5_P3_18049660	Ca5	18049660	CATATATATATAT/CATATATATAT	GCACGTTGTAAAGAGT GGACTG	AAAAGGCCCAAGAG TTGA	59.8	694	INTERGENIC	--	--	--
Ca5_P3_180539	Ca5	180539	CTTTTTTTTT/CTTTTTTTTT	TGGATACATGTTTAATG GTGCTT	TGACAAATTTGATTGG AGAGTCA	58.4	673	INTERGENIC	--	--	--
Ca5_P3_18179865	Ca5	18179865	CAAAAAAAAA/CAAAAAAAAA	GGCAAAATATCTTTCAT TCCG	TCTGAACAGTGTTGCC ACAGA	58.6	352	INTERGENIC	--	--	--
Ca5_P3_18191704	Ca5	18191704	ATTTTTTTTT/ATTTTTTTTT	TGAAATCCGCCTAAATC CTG	TAATTGGGGAACCAAA AAGC	60.0	715	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
Ca5_P3_18299239	Ca5	18299239	GTTTTTTTTT/GTTTTTTTTT	ATCACAAATTTTCGCGA CCT	CGGGATTGTGAAGAAG TGGT	59.6	880	INTERGENIC	--	--	--
Ca5_P3_18539073	Ca5	18539073	ATTTTT/ATTTT	ACACTGAGACGGCGAA AATC	GAACCGGTGACCTTCA GTGT	60.3	739	INTERGENIC	--	--	--
Ca5_P3_18593864	Ca5	18593864	GTTTTTTTTT/GTTTTTTTTT	GGTCTGTCCAATCAGA CCGT	TCCATTAAGCCCTCA ACAA	60.0	600	INTERGENIC	--	--	--
Ca5_P3_18612826	Ca5	18612826	GTATATATATATATATATATATAT ATAT/GTATATATATATATATATATAT ATATATATATATATATAT	GCAATTAAAGTTGCCTT GGAA	TGCATAGGTCCCATAA AAACG	59.2	374	DRR	Ca_24762	QR	B3
Ca5_P3_18679735	Ca5	18679735	AC/ACCAGTCCC	TCCCTTTCCAGAAAATT CCA	TAAGGGGCACATTTTC GAGT	59.5	625	INTERGENIC	--	--	--
Ca5_P3_18683897	Ca5	18683897	AGCG/AGCGCGAGTCATCAGCTCGCG	ATGGCCGTTCTTAGTT GGTG	GTACAAAGGGCAGGG ACGTA	60.0	395	INTRAGENIC	--	--	--
Ca5_P3_1876426	Ca5	1876426	AGGGGG/AGGGGGG	TCTCCAAATGATTGGAA GGC	TCAAGGAACGTTCTCC GTTT	60.0	631	INTERGENIC	--	--	--
Ca5_P3_18814300	Ca5	18814300	ATT/ATTTTATTT	CCGCCCAAACCATATTT ATT	GATTTGGGCAGGAAAC TGAA	58.7	805	INTRON	Ca_24488	--	--
Ca5_P3_188946	Ca5	188946	CTT/CTTT	CCCCATTTTACAATCC ACG	CATGTATGAGCAGCCA CACC	60.0	366	INTERGENIC	--	--	--
Ca5_P3_18944656	Ca5	18944656	CAAAA/CAA	TCCTGTCATGTGCTTTG AGC	CTAACCTCCCAGGACC CAAT	60.0	131	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
Ca5_P3_18962064	Ca5	18962064	AAATAATAATAATAATAATAATAAT AATAATAATAATAA/AAATAATAATAA ATAATAATAATAATAATAATAATAA TAA	GCCCTCTCCTCGTGT ACAA	CCGAAAATAGCGATGA GAGC	60.3	394	INTERGENIC	--	--	--
Ca5_P3_1903216	Ca5	1903216	GA/GAA	TGCATAGGCCTCTTGT CCTT	AGTTCCGCGCTAGATT TCAA	59.8	553	INTERGENIC	--	--	--
Ca5_P3_191620	Ca5	191620	CTTT/CTT	GGTTTGCAGTGGAGTG GAGT	TTGTTGGGATCCCTGA AGAG	60.2	719	INTERGENIC	--	--	--
Ca5_P3_191704	Ca5	191704	CGGA/C	TCACACTTGCACCTTGG AGC	TTGTTGGGATCCCTGA AGAG	60.0	484	INTERGENIC	--	--	--
Ca5_P3_191792	Ca5	191792	ACTATCTATCTATCTA/ACTATCTATCT ATCTATCTA	TCACACTTGCACCTTGG AGC	CTTGAATCGAAACCG TTGT	60.0	680	INTERGENIC	--	--	--
Ca5_P3_192919	Ca5	192919	CGTGGAGGTGGAGGTGGAGGTG/CGT GGAGGTGGAGGTG	CGGTGATGACGAGATT GATG	TTCTTCATCCTCCTCC CCTT	60.1	463	CDS (large-effect mutations)	Ca_18174	L	--
Ca5_P3_19366220	Ca5	19366220	AAT/AATGGTTTAGGGAAAGATAT	GGCACCGTATTTTTCG AAGT	TGACCATAGAGCCGTG AGTG	60.0	365	INTERGENIC	--	--	--
Ca5_P3_19542771	Ca5	19542771	CA/C	GGCCACCTTACTGAGG ATGA	AGCATGCTTCCACAAA GGAT	60.1	196	INTRON	Ca_23525	--	--
Ca5_P3_19542868	Ca5	19542868	TGAAGAAGAAGA/TGAAGAAGAAGAAG A	GGCCACCTTACTGAGG ATGA	CTCAACCTTCCATAT CCCA	60.1	627	INTRON	Ca_23525	--	--
Ca5_P3_19579350	Ca5	19579350	A/AC	ACGAACGTTGAAAATC CAGC	GTATCAAGTGACAGC GGAA	60.1	489	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
Ca5_P3_195971	Ca5	195971	GATAT/GATATTTTGTAAAGTTATAT	ATCACGGAAAGCTTGT GTCC	TTTCACCTTCATCCTCT GGC	60.1	866	INTRON	Ca_18174	L	--
Ca5_P3_19658678	Ca5	19658678	CAAAAAAAAA/CAAAAAAAAA	TTCGGGAGTCGATTAC GAGT	CGCTGCACCATGTTAT TCAC	59.7	546	INTRON	Ca_22824	O	--
Ca5_P3_19689124	Ca5	19689124	ATTTTTTTTT/ATTTTTTTTT	CATTGCAAACGAAAGG GAAT	ATGCGGCCTCCTTATT CTTT	59.9	678	INTERGENIC	--	--	--
Ca5_P3_19725940	Ca5	19725940	TGA/TGACGA	GCCCAGGAAAAAGAAA GGAC	TCGGTATTTGCCATGA GACA	60.1	405	INTERGENIC	--	--	--
Ca5_P3_19746235	Ca5	19746235	TAAAAAAA/TAAAAAAA	ACCATATCGGCATAGT GCAT	CCGAGCCAAAATCCAA AATA	57.9	259	INTERGENIC	--	--	--
Ca5_P3_197674	Ca5	197674	CA/CATA	TGAATTTTCTGTTTGG GGC	GAACCCGATTCATAAC CCCT	59.9	309	INTRON	Ca_18174	L	--
Ca5_P3_19770978	Ca5	19770978	TTATATATATATATATATATATATATA TATATATATAT/TTATATATATATATATA TATATATATATATAT	TGCAGGTGAAAGAAAT TGAAGA	CTGGCCTATTGCCATC CTTA	59.9	790	INTERGENIC	--	--	--
Ca5_P3_19815809	Ca5	19815809	CA/CATACAGTGA	TTTTGGGTTGGGATGA CATT	ACCAGGAAAAGAAGAA GGGC	60.0	378	INTERGENIC	--	--	--
Ca5_P3_19905604	Ca5	19905604	CAAAAA/CAAAAAA	CTCCTTTCTATCACCGT CGC	TATGGCAAATGAGAGG GAGG	59.8	155	INTERGENIC	--	--	--
Ca5_P3_19922331	Ca5	19922331	A/AG	ATGTTGACTACGCGGG AGAC	CCCCTTTTGCACATG ATCT	60.1	334	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
Ca5_P3_19929068	Ca5	19929068	ATTT/ATT	CTCGTGGGTAAAGTTG CTCC	GGATTCGAACTGAAAT GTCC	59.7	429	INTERGENIC	--	--	--
Ca5_P3_1995521	Ca5	1995521	ATGTT/ATGTTGTT	TCTTCGTTTTGCAGTCA AACTT	TCTTCGTTTTATGGTTT TATTCA	59.1	279	INTERGENIC	--	--	--
Ca5_P3_19962026	Ca5	19962026	TTATCAATAT/TTATCAATATCAATAT	CTTAGACCGGCACTCG TAGG	GGGCTCAAAGAGTCTG CAAG	59.9	314	INTERGENIC	--	--	--
Ca5_P3_19973066	Ca5	19973066	ATTTTTTTTTTTT/ATTTTTTTTTTTTT	GCTCGAGCACACATTG TCAT	ACATGTCCTTCTCCT CCCT	59.9	545	INTERGENIC	--	--	--
Ca5_P3_200719	Ca5	200719	GTTTT/GTTT	CGATCACCTCCAACCA AAAT	AAGTGTTCGCGATGG TAGG	59.8	665	DRR	Ca_18175	--	--
Ca5_P3_20087836	Ca5	20087836	GAAGCCTATTTAAAA/GAAGCCTATTTA AAAGCCTATTTAAAA	AAACGAATTTTGAGGC CCTT	GGCTAGGCTTAGGCCA TTTT	59.9	697	INTERGENIC	--	--	--
Ca5_P3_20107894	Ca5	20107894	ATTTTTTTTTT/ATTTTTTTTTTT	TTTGAAGCCATTGAGTC GTG	CTCACCCACCTTCACC ATTT	59.8	207	INTERGENIC	--	--	--
Ca5_P3_20118512	Ca5	20118512	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	AAAAATTTGCCACTGTT CCG	AATTGAGTTGCGGCGA TAAT	60.0	184	INTERGENIC	--	--	--
Ca5_P3_20118559	Ca5	20118559	AATATATATATATATATATATAT/AA TATATATATATATATATAT	GTAACAACTTTCGCTCGC GTC	TGCATCTGTCAATTGA GTTGC	60.0	400	INTERGENIC	--	--	--
Ca5_P3_202535	Ca5	202535	TAAAAAA/TAAAAAA	TTGGACTTGAAGTTGA CATTGC	ACGAGTTGGATTGGGT TGAC	60.2	269	INTRON	Ca_18175	--	--

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 (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
Ca5_P3_20306122	Ca5	20306122	CAAAAAAAAA/CAAAAAAAAA	TGCAAAAACCACTTCA AGG	TTGACCAATTTGTGG CTTG	58.8	615	INTERGENIC	--	--	--
Ca5_P3_20432870	Ca5	20432870	GATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA/GATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA	TTAAATGTGCATGTGTG GCA	TTTTCTTTCACGAAGTG GGG	59.6	503	INTERGENIC	--	--	--
Ca5_P3_20438947	Ca5	20438947	AT/A	AGTTTGAACCAAGCC ACTG	TAAGCCGTGGGAACGT TAAG	60.1	343	INTERGENIC	--	--	--
Ca5_P3_204596	Ca5	204596	GTT/GTTT	TTGTGTGCTTTGACC CAA	TGCTGTTCTTGGTGT CCTG	60.1	373	INTRON	Ca_18175	--	--
Ca5_P3_20520449	Ca5	20520449	CTTT/CTT	TCTCCCTCCTTCTCCCA TTT	TTGGAAGGAGCCCTTA CCTT	60.0	278	INTERGENIC	--	--	--
Ca5_P3_20547334	Ca5	20547334	AACCAACACCAACACCAACA/AACCAA CACCAACACCAACACCAACA	AGGAGATGGAGCGTTG TTTG	TTGGTTAGCGTGCATC TGAG	60.3	462	INTERGENIC	--	--	--
Ca5_P3_20614227	Ca5	20614227	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	ATGCTCATGCAACCAAT CTC	GAAAAGAGGAATGCGG AATG	58.7	608	INTERGENIC	--	--	--
Ca5_P3_20740644	Ca5	20740644	CATATATATATATATATATATATATATA TATATATATATATA	CAAAGTTTGCCACATCA GGA	CAAACGTGGCAAAGAA ACAC	59.7	936	INTERGENIC	--	--	--
Ca5_P3_20743462	Ca5	20743462	AA/AATA	AAAATAAAGCATGGCG TTGG	AGTTTGTAACCGTGC GTGC	60.0	258	INTERGENIC	--	--	--
Ca5_P3_20781552	Ca5	20781552	GATATATATATATATATATATATATA T/GATATATATATATATATATATATAT ATAT	GCTGAGGTGGGAAACA TTTG	CCAAATCAGAACCAAA GGCA	60.5	598	DRR	Ca_18223	--	ARF

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 (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
Ca5_P3_208514	Ca5	208514	ATTTTTTTTTTT/ATTTTTTTTT	ATTCCAATTCGGATGTG CTC	AACAAGTGATGGTGAT GCCA	59.9	407	INTERGENIC	--	--	--
Ca5_P3_20895157	Ca5	20895157	TTTATTATTATTATTATTATTATTAT TATTATTATT/TTTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT	ATGAAGTGATGCCCTTA CCG	TTGGATGGAGGTTGTG TTGA	60.0	303	INTERGENIC	--	--	--
Ca5_P3_209466	Ca5	209466	AAAAAAGCTAAAAAGCTAAAA/AAAAA CTTAAAAAGCTAAAAAGCTAAAAA	AATTGAAGCATCCCAT AACG	TTAGACCATCCACAAC ACGG	59.0	698	DRR	Ca_18176	--	C2H2
Ca5_P3_209690	Ca5	209690	ATTTTTTT/ATTTTTTTT	AAAACATTCAACCAACC ACCA	TTAGACCATCCACAAC ACGG	60.1	320	DRR	Ca_18176	--	C2H2
Ca5_P3_209767	Ca5	209767	GAAAAAAAA/GAAAAAAAAA	AAAACATTCAACCAACC ACCA	TTAGACCATCCACAAC ACGG	60.1	320	DRR	Ca_18176	--	C2H2
Ca5_P3_209793	Ca5	209793	AAATTAAT/AAATTAATTAAT	AAAACATTCAACCAACC ACCA	TTAGACCATCCACAAC ACGG	60.1	320	DRR	Ca_18176	--	C2H2
Ca5_P3_2100697	Ca5	2100697	ATTTTTTT/ATTTTTT	TGGACACGACGGTGAA ATAA	TTCGGTCTTGTTTGC CTCT	60.0	642	INTERGENIC	--	--	--
Ca5_P3_2101143	Ca5	2101143	TTTATTATTATTATTATTAT/TTTATTATT ATTATTATTATTAT	AGAGGCAACAAGAAC CGAA	ACCGTGTGAATAATTG TCGG	59.9	565	INTERGENIC	--	--	--
Ca5_P3_210200	Ca5	210200	ATTTTTTTTT/ATTTTTTTTTT	TTAAACACCCGTGTTGT GGA	AAATGGCTTAGGGAGG GAGA	59.9	607	DRR	Ca_18176	--	C2H2
Ca5_P3_210510	Ca5	210510	ATT/ATT	TCTCCCTCCCTAAGCC ATT	GAATTATCCGCTGCTT GCAT	60.0	201	DRR	Ca_18176	--	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 (°C)	Expected 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_P3_21085449	Ca5	21085449	A/AT	TTAGGCGACCACTGTA TCCC	TGAGCCACTTTGATCA GCAC	60.0	758	INTERGENIC	--	--	--
Ca5_P3_21238726	Ca5	21238726	CAAAA/CAAA	CGCAAGATCCTTCTGA CACA	TGATGTGATTGTGCCG AAAT	60.0	603	INTERGENIC	--	--	--
Ca5_P3_213050	Ca5	213050	GTTTTTTTTT/GTTTTTTTTT	CAACAAAACCTGGTTG GGTAGA	TTTGCATTGTGTTGAA GATGA	59.0	322	INTERGENIC	--	--	--
Ca5_P3_213294	Ca5	213294	AAAAA/AAAAAGAAAA	CAACAAAACCTGGTTG GGTAGA	TTTCCATGTGACATAC GATGA	59.0	874	INTERGENIC	--	--	--
Ca5_P3_21405763	Ca5	21405763	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	AACCACTTATGGCGTAA CGG	GAGTTGTCCTCGCCAT CAAT	59.9	360	INTERGENIC	--	--	--
Ca5_P3_2140832	Ca5	2140832	G/GC	GCCCGGATTGCAAGTA TAAA	TTTGTGAGAGGGTGGG AGTC	59.9	549	INTRON	Ca_26505	B	--
Ca5_P3_21462460	Ca5	21462460	TTTATTATTATTATTATTATTATTAT TATTAT/TTTATTATTATTATTATTAT TATTATTAT	AATTGGAGATGAGCGG TTTG	ACGGACCAAATCCAC TACG	60.1	933	INTERGENIC	--	--	--
Ca5_P3_21596936	Ca5	21596936	AATATATATATATATATATATATA/ AATATATATATATATATATATATAT ATA	CCTCCTCCCAAGGCTT ATTG	TGGTGAGCAAATTTCC CTTC	60.0	876	INTERGENIC	--	--	--
Ca5_P3_21598205	Ca5	21598205	TA/TAA	TTGGTGTGGATTGTGC ATTG	GGGGAATCGATTGAA TGAA	60.4	953	INTERGENIC	--	--	--
Ca5_P3_21623515	Ca5	21623515	AAATTAATT/AAATT	AGGTCATTTTCATCCAC CCA	ACACACCTATGGGATG CACA	60.2	678	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
Ca5_P3_2169747	Ca5	2169747	CTATTTATTTATTTATTTATTT/CTATTT ATTTATTTATTTATTTATTT	GTTGTGGTGGTGGAC TTCT	TGGGGATACGTAGGAG CAAG	59.9	471	INTRON	Ca_26506	B	--
Ca5_P3_218592	Ca5	218592	TATAATAATAATAATAATA/TATAATAAT AATAATAATAATA	TAGCGTGGTGGTGTG TGAT	CCTTCAAGGTCAGCC ACAT	60.0	739	INTERGENIC	--	--	--
Ca5_P3_21883868	Ca5	21883868	AATATATATATATATATATA/AATATATA TATATATATATATA	GCTCCATTTGTGGTTC CAAT	CTATTTGCTATGCCG CTCC	59.8	405	INTRON	Ca_24467	--	C2H2
Ca5_P3_21899576	Ca5	21899576	TAAAAAAAAA/TAAAAAAAAA	TGACCTGACCTGGCCT ATTC	CCCAACAAAGCCTTA TGGA	60.1	519	INTERGENIC	--	--	--
Ca5_P3_219030	Ca5	219030	TAAAAAA/TAAAAAA	TTGAGATGTGGCTGAC CTTG	CTGGAGCTGTCTCCAA CACA	59.8	613	INTERGENIC	--	--	--
Ca5_P3_21910420	Ca5	21910420	AC/A	CTCCAACCTCGTTCCAT TGT	AAAGTTGCAGCAGGA GGAA	60.0	751	INTERGENIC	--	--	--
Ca5_P3_2192617	Ca5	2192617	A/ACAC	ACAAACCCATTTTCGC AAC	CAGCGCTTTTCCCAA TAAG	59.8	454	INTERGENIC	--	--	--
Ca5_P3_21965060	Ca5	21965060	AG/AGG	ACGCTCAGAGTTCAC GGGT	GGCAATCGATTGGAC AAGT	59.9	365	INTERGENIC	--	--	--
Ca5_P3_22173724	Ca5	22173724	TAAAAAA/TAAAAA	ACAACCTTCGCCTACA CGC	AGGACTTCGGGAGTTT GGTT	60.5	753	INTERGENIC	--	--	--
Ca5_P3_222234	Ca5	222234	TT/TTAAT	ACCGCTTACAGAACAA CCG	GGTGAGGACAAAACAT GGCT	60.2	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 (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
Ca5_P3_222733	Ca5	222733	CTCTTTCT/CTCTTTCTTTCT	AGCCATGTTTTGCCTC ACC	TGCTTGCACTATCAGC CATC	60.0	110	INTERGENIC	--	--	--
Ca5_P3_223736	Ca5	223736	CCTACT/CCTACTACTGCTACT	CCATCACCACTCCTCC AACT	TTTTTCAGCAAAGCTC AGCA	60.0	331	CDS (large-effect mutations)	Ca_18177	--	ZF-HD
Ca5_P3_22389657	Ca5	22389657	AT/ATT	TGCCTTTGCTAAGTCC CACT	TAAATAGCACCTGCGG TTCC	59.9	432	INTERGENIC	--	--	--
Ca5_P3_22391502	Ca5	22391502	GAAAAAAAAAAAAAAAAA/GAAAAAAAAA AAAA	CCATTGAGGAATGTTG GCTT	CTGATTGGGGTTTGGC TAGA	59.9	613	INTERGENIC	--	--	--
Ca5_P3_224526	Ca5	224526	TTATTATAAGTACAGATA	GGACTCTGACCTGAGT TGCC	TTCACATATCGCTCCA TCCA	59.8	444	DRR	Ca_18177	--	ZF-HD
Ca5_P3_224582	Ca5	224582	GTTTTTTT/GTTTTTTT	GGACTCTGACCTGAGT TGCC	TTCACATATCGCTCCA TCCA	59.8	444	DRR	Ca_18177	--	ZF-HD
Ca5_P3_22613210	Ca5	22613210	GAAAAAAAAA/GAAAAAAAAA	ATGACAAGTCCACCA GACC	TGCATTGAAAACGATC CAAA	59.8	387	INTERGENIC	--	--	--
Ca5_P3_22615880	Ca5	22615880	AT/ATATGTGGGTGTTCTCT	TGAGTGGGTGGGTACT GACA	TGATTGAGAGGGTTGG GAAC	60.0	448	DRR	Ca_20080	--	SAP
Ca5_P3_226338	Ca5	226338	CAAAAAAAAA/CAAAAAAAAA	TTGCAGTTTGAATCACT GCC	TTTCAAGTGAGTGCCG AGTG	59.8	577	INTERGENIC	--	--	--
Ca5_P3_22659444	Ca5	22659444	AATATATATATATATATATATATATAT A/AATATATATATATATATATATATAT ATATATA	CCAAGTTTGAAATGCC GATT	GCTGCATGTTCTTATG CTCG	59.9	485	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
Ca5_P3_2276073	Ca5	2276073	AAATAATAATAATAATAATAATAAT AATAATAATAA/AAATAATAATAATA ATAATAATAATAATAATAATAA	CCAAGAAATTGGATT GCAC	AAGTGCGGTTTGT CATCA	60.4	784	INTERGENIC	--	--	--
Ca5_P3_22785999	Ca5	22785999	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CACACAACCGCATTAT CTG	TGACTCGAACCCAAT CTTT	60.0	758	INTERGENIC	--	--	--
Ca5_P3_22918101	Ca5	22918101	AC/ACC	TTATCGGCCTTATCC ACG	ACCGAGATTGTTTC AG	60.1	214	INTERGENIC	--	--	--
Ca5_P3_22918444	Ca5	22918444	TATT/TATTGATT	TTATCGGCCTTATCC ACG	GGATTCCACCAAAT CAGGA	60.1	721	INTERGENIC	--	--	--
Ca5_P3_22918526	Ca5	22918526	AT/ATT	TTATCGGCCTTATCC ACG	TGAAAATCCATGA ACGTGA	60.1	915	INTERGENIC	--	--	--
Ca5_P3_22919631	Ca5	22919631	AG/A	GATTGGTGGAATCT CGAA	GCCACCGACTACTT CTCCCT	59.9	336	DRR	Ca_21962	--	--
Ca5_P3_22919722	Ca5	22919722	GTT/GT	GATTGGTGGAATCT CGAA	GCCACCGACTACTT CTCCCT	59.9	336	DRR	Ca_21962	--	--
Ca5_P3_2294066	Ca5	2294066	GTTTTTTTTT/GTTTTTTTTT	CTCAGATGACAGCC AGGACA	TGGTACATGTAACCA CCGA	60.0	277	INTERGENIC	--	--	--
Ca5_P3_22955537	Ca5	22955537	ATATAGAACCTATAGAACCTA/ATATAG AACCTA	GCTCAAAGCACATG ACAGGA	GATTGACGCATCAA AGGGTT	60.0	777	INTERGENIC	--	--	--
Ca5_P3_22973493	Ca5	22973493	TTC/T	TTGAATTCGACAAG CACATCG	CAGATGCACCAAGA ATCGAGA	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
Ca5_P3_22981606	Ca5	22981606	CT/CTT	TCAATTCGCTTCTCGT GTG	TTGTTGGAGATTTTGG AGGG	60.0	349	INTERGENIC	--	--	--
Ca5_P3_23184336	Ca5	23184336	TTAATAATAATAATAATAATAATAA T/TTAATAATAATAATAATAATAATA ATAAT	AGCAGCGCGTTTITAG AAGA	ACCCAACCTCCCCATT AAAA	60.3	770	INTERGENIC	--	--	--
Ca5_P3_2323461	Ca5	2323461	GAAAA/GAAAAA	GCGCCAGATTTCAAAC ACTA	ACCAGCAGACCAAAAT GGAC	58.9	262	INTERGENIC	--	--	--
Ca5_P3_2327252	Ca5	2327252	TAA/TAAA	TCGAAATGAAATCGAG GACC	ACAGACGAGGGCTAG GGATT	60.0	721	INTERGENIC	--	--	--
Ca5_P3_23275268	Ca5	23275268	TAAAAAAAA/TAAAAAAAAA	AAGCCTAATTCAGCCA GCA	TGATAGCCTCCAACGA CAAA	60.0	482	INTERGENIC	--	--	--
Ca5_P3_23533132	Ca5	23533132	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATCATTATTATTATTA TTATT/TTTATTATTATTATTATTATTATT ATTATTATTATTATTATTATCATTAT TATTATTATTATT	CCGCAAGATACGCAAT ATCA	TTCTTGCAATGATTGA CCCA	59.7	613	INTERGENIC	--	--	--
Ca5_P3_23552592	Ca5	23552592	CATAAATAAATAAATAAATAAATA AATAAATAAATA/CATAAATAAATAAATA AATAAATAAATAAATAAATAAATAAATA AATA	AAGCCGACAACAAATC CAAC	TGAATGGAACAGCATT GGAA	60.0	298	INTERGENIC	--	--	--
Ca5_P3_23557622	Ca5	23557622	C/CAGCT	GTGACTGGGGACTGGT GACT	CTGTGACTAGGGAAGG CTCG	60.0	122	INTERGENIC	--	--	--
Ca5_P3_236073	Ca5	236073	CGAAGAAAAT/CGAAGAAAATGAAGAA AATGAAGAAAAT	TTGAATTGACCGGAGG AATC	GGGATAGGGAGGGTT GTGTT	59.9	680	INTERGENIC	--	--	--
Ca5_P3_23643411	Ca5	23643411	ATTTTTTT/ATTTTTTTT	AAGCAATCAACGCATT ACA	TTGACTCTCGAAATGT CCCC	60.3	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 (°C)	Expected 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_P3_23663097	Ca5	23663097	TAATGAATGAATGAA/TAATGAATGAA	GAGGGTTTTGGGTCAG TGAA	AGTTTTCAAGGGTAGC GGGT	59.9	789	INTERGENIC	--	--	--
Ca5_P3_23663124	Ca5	23663124	C/CGA	GAGGGTTTTGGGTCAG TGAA	AGTTTTCAAGGGTAGC GGGT	59.9	789	INTERGENIC	--	--	--
Ca5_P3_23664574	Ca5	23664574	TT/TTCCAAC	CAAGAAGGAACGAGGT GCTC	TAGCCTAGAGCAGGG GTGAA	60.0	626	INTERGENIC	--	--	--
Ca5_P3_236674	Ca5	236674	TG/T	AACACAACCCTCCCTAT CCC	CCAACAAATGCATGTC CATC	60.1	819	INTERGENIC	--	--	--
Ca5_P3_23672060	Ca5	23672060	TC/TCGCCC	TGAGTAAGGGGGCTGA AATG	TGAGAGACGGTGTTT ACCC	60.1	822	CDS (FRAME SHIFT)	Ca_17683	--	--
Ca5_P3_23673793	Ca5	23673793	T/TACGAACGT	AAATCATCGCACCTAC GGTC	GACAATCGTTCGGACT TGGT	60.0	497	INTERGENIC	--	--	--
Ca5_P3_23675051	Ca5	23675051	GT/G	TCCATGCACATTGCTCT CTC	TGGGTTATTTTCATGG GCTT	60.0	514	INTERGENIC	--	--	--
Ca5_P3_236893	Ca5	236893	ACC/A	CCCTCACAAATTACAAT CCCA	CCAACAAATGCATGTC CATC	59.7	763	INTERGENIC	--	--	--
Ca5_P3_23691134	Ca5	23691134	ATTTTTTTTT/ATTTTTTTTT	AACAACACAACATGCG GGTA	AGTTTGGTTTTCATC CGC	59.9	360	INTERGENIC	--	--	--
Ca5_P3_237297	Ca5	237297	CTGTCAT/CTGTCATGTCAT	TCATTGCAATACCGGG AAAT	TGAATTTGGATAGGTG CAAAAA	60.2	233	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
Ca5_P3_238011	Ca5	238011	GTTTTT/GTTTTT	CATGCACGATTCACAC ATGA	GTGTCGTCCAACCTCT CCAT	60.1	486	INTERGENIC	--	--	--
Ca5_P3_23812349	Ca5	23812349	TAAAAAAAAA/TAAAAAAAAA AAA	ATTGCTAGCCACATTTT GGG	CGCTATGATAGGATGG TCCAA	60.0	664	INTERGENIC	--	--	--
Ca5_P3_239546	Ca5	239546	AATA/AATATA	CTCAACGCTGCCACAA TAGA	TGGATTCCCAACACT AGCC	60.0	473	INTERGENIC	--	--	--
Ca5_P3_239777	Ca5	239777	CTTT/CTTTT	CTCAACGCTGCCACAA TAGA	TGGATTCCCAACACT AGCC	60.0	473	INTERGENIC	--	--	--
Ca5_P3_23995501	Ca5	23995501	CATATATATATATATATATA/CATATA TATATATATATATA	TTGCGAGCATGAGAAG TTGT	AAAAACCACCTAATCG CTCA	59.6	714	INTERGENIC	--	--	--
Ca5_P3_240184	Ca5	240184	ATTT/ATTTT	GGCTAGTGTTTGGGAA TCCA	ACGGTGTGTTGGGTTA AAGG	59.9	820	INTERGENIC	--	--	--
Ca5_P3_24054306	Ca5	24054306	CTATTATTATTATTATTATTATTATT ATTATTAT/CTATTATTATTATTATTATT ATTATTATTATTATTATTAT	TCAATAGAAGGTCGCA TCCC	TCGCACATCTACCTAA ACGC	60.0	759	INTERGENIC	--	--	--
Ca5_P3_240662	Ca5	240662	T/TCAATCCA	CCTTTAACCCAACACAC CGT	TTGGTGCCTACAACAT ATTTTCC	59.8	268	INTERGENIC	--	--	--
Ca5_P3_24097297	Ca5	24097297	AAGCTTTGGATAC/A	CAGAGCCAACACTACA GGCA	ATTGGAAGGGCCATGT GAAG	60.0	329	CDS (large-effect mutations)	Ca_17656	S	--
Ca5_P3_241028	Ca5	241028	GAAAAAAAA/GAAAAAAAA	CCTTTAACCCAACACAC CGT	GGGACGTCTTCGCATA CATT	59.8	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 (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
Ca5_P3_241392	Ca5	241392	TAAA/TAAAA	AATGTATGCGAAGACG TCCC	GGAGCTCAACAACCTC CTTG	60.0	511	INTERGENIC	--	--	--
Ca5_P3_2418306	Ca5	2418306	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT	GCTCTGCATTTTCCTTG AGC	TGAGAAATTTTCCGC TGCT	60.1	328	INTRON	Ca_18664	--	B3
Ca5_P3_24246490	Ca5	24246490	TG/TGCGAAAGAG	TTGAATAGACGGATTC GGGA	TCTATAATGCATGGTT GCCG	60.4	118	CDS (FRAME SHIFT)	Ca_15567	S	--
Ca5_P3_24297832	Ca5	24297832	AATATATATATATATA/AATATATATATA TATATA	CCCAAGTTTTAAATGGG CAA	GGAGGCCACCTTCAAC ATTA	59.8	556	INTERGENIC	--	--	--
Ca5_P3_245247	Ca5	245247	CTTTTT/CTTTT	CTTCACAGCACAGAAG ACGC	GGAATGGCAGGAATCT GAAA	59.8	337	INTERGENIC	--	--	--
Ca5_P3_245296	Ca5	245296	TTAATAATAATAATAAT/TTAATAAT AATAATAATAATAAT	CTTCACAGCACAGAAG ACGC	GGAATGGCAGGAATCT GAAA	59.8	337	INTERGENIC	--	--	--
Ca5_P3_24602434	Ca5	24602434	GTAATAAATAAATAAATAAATAA/ GTAATAAATAAATAAATAAATAA ATAAATAA	TCACATCAGTTAGGCC ACCA	GTTTCGAACACCGGAC CTTA	60.1	235	INTRON	Ca_15595	G	bHLH
Ca5_P3_24625027	Ca5	24625027	GT/G	GGTCCAAACAATGGCA AATC	ACCCACAACCTCCGTAT GTCA	60.2	503	INTERGENIC	--	--	--
Ca5_P3_24631329	Ca5	24631329	AGTAT/A	TGGATGACATTTCTACG GCA	ATTTATCCCCCTCCA AGTG	60.1	500	INTERGENIC	--	--	--
Ca5_P3_24701450	Ca5	24701450	CCATACATACATACATACATACAT ACATACATACATACATACATACATA/ CCATACATACATACATACATACAT ACATACATACATACATACATACAT ACATACA	CGTGTCCGAGTTAACA GCAA	TGTGTGTGGGTTATCA CGCT	59.9	621	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
Ca5_P3_247324	Ca5	247324	TG/T	TTTGGGAATCTAATGG CAGC	CACCCACTTGGAGAGT GTCA	60.0	635	INTRON	Ca_18179	R	--
Ca5_P3_24865224	Ca5	24865224	TAAAAAAAA/TAAAAAAAA	TGGAATGTAAATTGGG GGAA	GTTGGCCACCGACATT AGTT	60.0	381	INTERGENIC	--	--	--
Ca5_P3_2486684	Ca5	2486684	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATAT ATATATATATATA	CACCTTGTAGAGGGGA GCAA	CTGTCAATTGAGTTGC GATGA	60.2	280	INTERGENIC	--	--	--
Ca5_P3_24886870	Ca5	24886870	TAATAAATAAATAAATAA/TAATAAATA AATAAATAAATAAATAAATAA	TGTTGACGTGAGACCC AAAG	GGCCCAACAACAAGC TAAG	59.7	550	INTERGENIC	--	--	--
Ca5_P3_24915736	Ca5	24915736	CTTTTTTTTT/CTTTTTTTTTTT	TTCATTGATGTGTGTT TGGAA	TCATGACAATGCAAGT TCGAC	58.9	493	INTERGENIC	--	--	--
Ca5_P3_25027142	Ca5	25027142	TAAAAAAAAAAAAAAAA/TAAAAAAAA	AAATGGAATAACTTTGA AAATGGAA	CTCCATCGCACACTTT CTCA	59.2	602	INTERGENIC	--	--	--
Ca5_P3_25080544	Ca5	25080544	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATA TATATATATATATAT	AGAATGTCCCAGCTG TCAC	AAGCAACCAACACATC CACA	60.1	498	INTERGENIC	--	--	--
Ca5_P3_25109370	Ca5	25109370	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATT/TTTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATT	ACCACCAAAAAGGGTT GGTT	CGCATTCCAGATATGC AACA	60.5	500	INTERGENIC	--	--	--
Ca5_P3_25171173	Ca5	25171173	ATT/AT	TCATGGTGTAAGGATG ACCG	GGTTTAGCCCATATGG TTTGC	59.4	190	INTERGENIC	--	--	--
Ca5_P3_2521445	Ca5	2521445	ATTACAGAGTTACA/ATTACAGAGTTAC AGAGTTACA	CTGGGCAAGGGATCTG AATA	GCACATTATACCGCGC TTTT	60.0	603	DRR	Ca_18666	--	Trihelix

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 (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
Ca5_P3_25230946	Ca5	25230946	C/CT	TGTGGAACAATCGATT GGA	AGTGTTTGAGGTGGT AGGG	59.9	420	INTERGENIC	--	--	--
Ca5_P3_25232481	Ca5	25232481	T/TC	CCACCCTGATTTTGG GAA	AAAATCCAACAATCTCC CCC	59.9	790	INTERGENIC	--	--	--
Ca5_P3_25287994	Ca5	25287994	CAAAAA/CAAAA	TTGCTTGAAGACATGA CGC	TGGATGTCAAGCAGTC TTGC	60.0	493	INTERGENIC	--	--	--
Ca5_P3_25303659	Ca5	25303659	C/CCTCTCAA	TTGATCTTGCCTCTTT CCT	TGTTATTGCATCAGC CCAA	60.0	623	INTERGENIC	--	--	--
Ca5_P3_2551220	Ca5	2551220	ATTTTTTTTT/ATTTTTTTTT	GGCTAGACGAGTTCGA CGAC	GGTTGTTGAATTTGTT ATTGGG	60.0	365	INTERGENIC	--	--	--
Ca5_P3_25531858	Ca5	25531858	TAAAAA/TAAAAAAA	ATTGGGCAATCGATT GGTA	AGGGAGGTGGAGGTG AAAGT	60.2	299	INTERGENIC	--	--	--
Ca5_P3_25544088	Ca5	25544088	TAAAAAAAAA/TAAAAAAAAA	TTCACAACCATTCATT CCAA	TGTTATGCATGTTG TCGT	58.9	175	INTERGENIC	--	--	--
Ca5_P3_25555104	Ca5	25555104	CTTT/CT	ACACCAGAAATGCCAC ACAA	TGAGATAGCAGTGTAG TGAAAGGG	60.0	419	INTERGENIC	--	--	--
Ca5_P3_25574427	Ca5	25574427	CATATATATATATATATATATATATAT /CATATATATATATATATATATATATAT TAT	TTTTTGCAATCCACTCT TGAA	GATTGTTACACAATTCT TCACGC	58.4	301	INTERGENIC	--	--	--
Ca5_P3_25600693	Ca5	25600693	A/AT	CGTGCACTTTCACGAC AAAT	TTGCTGTACTTGGTTG CTCG	59.8	801	INTRON	Ca_09030	E	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	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
Ca5_P3_25662749	Ca5	25662749	AATATATATATATATATATATATATATATAA/TATATAAATATATATATATATATATATATATATATATATATATATA	CCTACGTATCTCCTGG TGCG	TCAAAAAGGAGGATCG GAGA	60.7	772	INTERGENIC	--	--	--
Ca5_P3_25692452	Ca5	25692452	TTATATATATATATATATATATATATATAT/TTATATATATATATATATATATATATATATA TATATAT	GAGGTCGGGCGATAGT TGTA	GAGGGGAGAAAGGGAA ATGAG	60.1	924	INTERGENIC	--	--	--
Ca5_P3_25726766	Ca5	25726766	AG/A	TCAAAGCGCGAGGAAA TAGT	ATTGTTGCCCAATGGA GAAG	60.0	315	INTERGENIC	--	--	--
Ca5_P3_2577647	Ca5	2577647	TTATATATATATATATATATATATATATA /TATATATATATATATATATATATATAT ATA	GATGAAGAGGGTGTA GGGA	TGGAGGGCGCTATTC TATG	60.0	597	INTERGENIC	--	--	--
Ca5_P3_25802252	Ca5	25802252	ATTTTT/ATTTTTTT	TGATGGACTGGAATTG TCAAAG	TGCCAAGAAAAACCA TGAA	60.0	846	INTERGENIC	--	--	--
Ca5_P3_25803856	Ca5	25803856	TAAAAAAAAAAAAA/TAAAAAAAAAAAA	ATCCGATAAATCGCAT GTG	CCCACAAGGTCCGAGA ATTA	58.5	203	DRR	Ca_09020	--	--
Ca5_P3_25803970	Ca5	25803970	TGGGGG/TGGGG	GGGGCGTTACATGTGG TATC	TGTAGGGCACATTGGG TTTT	60.1	510	DRR	Ca_09020	--	--
Ca5_P3_25832709	Ca5	25832709	TTTT/TTTTAATT	AGCTTGCCAAC TTCTG GGTA	GAAAACGTGTGGGAGA AGGA	59.9	835	INTERGENIC	--	--	--
Ca5_P3_25836761	Ca5	25836761	GC/GCTTTC	AAGGCAACAACAAACAA GCC	CCCCAAGATGGCTACT TCCA	60.2	718	INTERGENIC	--	--	--
Ca5_P3_25961156	Ca5	25961156	TAAAAAAA/TAAAAAAA	CTCCTTTATTGGGCCAT GTG	GGCGACGACATCTCCT ACAT	60.3	539	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 (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
Ca5_P3_260923	Ca5	260923	CATAT/CATATAT	CTTCGGCCTAAAGATT TGC	ATTGCGGTTGTTTCGGT TATC	59.0	358	DRR	Ca_18180	A	--
Ca5_P3_261320	Ca5	261320	TCAC/TC	GATAACCGAACAACCG CAAT	CGGAGCTTCGGTAGGA CATA	59.8	754	DRR	Ca_18179	R	--
Ca5_P3_26153652	Ca5	26153652	GGT/GGTAACTTTAGT	GATTCTGAAACCATTTG GGG	GGTACGAATTTTCGG ATTGA	59.2	625	INTERGENIC	--	--	--
Ca5_P3_26207850	Ca5	26207850	TTCTCTCTCTCTCTCTCTCTC/TT CTCTCTCTCTCTCTCTCTCTC	TTCGCTACCTCATCCAA ACC	GATCGACGATTTACAG TCCT	60.1	168	INTERGENIC	--	--	--
Ca5_P3_262311	Ca5	262311	CTTTT/CTTT	TCGCTCGCAACAAGTAA AATG	GGTCGATGCGTAGTTT CCAT	60.0	859	INTRON	Ca_18180	A	--
Ca5_P3_26260310	Ca5	26260310	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTAT/TTTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT	TCAAACCCCTTAAACCCC AAA	TGGTGGTGGATGAGAT GAGA	59.3	626	INTERGENIC	--	--	--
Ca5_P3_26280416	Ca5	26280416	CTTTTTTTTT/CTTTTTTTTTTT	GGGGAAAAAGGTACAA GCCT	AGCGACCTCCTACTTG GTGA	59.5	251	INTERGENIC	--	--	--
Ca5_P3_2628560	Ca5	2628560	AT/ATATATT	TTGTTTCTCCCCAGTTT TGG	TTTAGCATTGACCGC TCCT	59.9	357	INTERGENIC	--	--	--
Ca5_P3_26430487	Ca5	26430487	CTTTTTTTTTTTTT/CTTTTTTTTTTTTT T	GCGGCTCACACACACT TAGA	CTGGAGGTCACCTTCG ACAT	60.1	693	INTERGENIC	--	--	--
Ca5_P3_26430640	Ca5	26430640	TATATATATAA/T	GCGGCTCACACACACT TAGA	CTGGAGGTCACCTTCG ACAT	60.1	693	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 (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
Ca5_P3_26446975	Ca5	26446975	AATATATATATATATATATA/AATATA TATATATATATATATATA	TGTTGATTGATGGTGG GAGA	TCGACTCTAATAAATCT CATTCAATTC	59.9	818	DRR	Ca_08973	J	--
Ca5_P3_265081	Ca5	265081	TGAAAGTAGAAAGTAGAAAG/TGAAAG TAGAAAG	CTGGCACCGGATACTT CATT	TCGACATGGAAAGGGA ACTC	60.0	696	INTRON	Ca_18180	A	--
Ca5_P3_26550928	Ca5	26550928	ATTTTTTTTT/ATTTTTTTTTTT	ATTGTGCTGATTGCGA AGAA	TCTGCTAACGCTTCGA ATGAT	59.4	573	INTERGENIC	--	--	--
Ca5_P3_26559939	Ca5	26559939	AATATATATATATATAT/AATATATATAT ATATATAT	TTTTTGGGTTGAGGAC AAGG	GCACTATCCTATCAAAT GGTCTCTC	59.9	145	DRR	Ca_08966	--	bHLH
Ca5_P3_26605667	Ca5	26605667	TT/TTTTTTGAT	CTGCTCCTTAACGTTCT CCG	TTTCTCTTTTGGTGTT GCC	60.0	187	DRR	Ca_08963	--	M-type
Ca5_P3_26656175	Ca5	26656175	TATCATTATCATCATTATCATCATTATC ATCAT/TATCATTATCATCATTATCATCA T	ACACCGCAAAAGTTTC CATC	GGTGACCCATTTTTC CCTT	60.0	542	DRR	Ca_08956	--	--
Ca5_P3_26904550	Ca5	26904550	GTTTTTTTTT/GTTTTTTTTT	CGTGGTAGACCTTCGG TGAT	TCCTTCACGAGTAAAA TGCTCA	60.0	786	INTERGENIC	--	--	--
Ca5_P3_26906467	Ca5	26906467	GTAATAATAATAATAATAATAATAA TAATAATAATAATA/GTAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATA	GGCAAGAGAGGTTGAC CAAT	TCGAAAATGTTTCAAA AGCC	59.1	911	INTERGENIC	--	--	--
Ca5_P3_26989148	Ca5	26989148	AG/A	CCAAAGCAAGCCAGAA AGAC	GCGAGGTGGAACCAC ACTAT	60.0	609	INTERGENIC	--	--	--
Ca5_P3_26994530	Ca5	26994530	G/GGT	TAGATTAGCGCCAGC CTTA	TTCAGTCATATCCCG CTCC	60.0	280	DRR	Ca_08932	R	MYB

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
Ca5_P3_26994998	Ca5	26994998	TC/TCC	GGAGCGGGAATATGAC TGAA	GGGAGAGTTGGGAG CTTAC	60.0	492	DRR	Ca_08931	R	MYB
Ca5_P3_26995171	Ca5	26995171	TAG/TAGCACAAGCACTAAG	GGAGCGGGAATATGAC TGAA	GCGGCAGAAGAACCTA TTTG	60.0	576	DRR	Ca_08931	R	MYB
Ca5_P3_26996169	Ca5	26996169	TG/TGATCG	ATGTTGGGAACCTTGCA CTCC	AACTATGTCTGTGGA CCGC	60.0	458	DRR	Ca_08931	R	MYB
Ca5_P3_26996186	Ca5	26996186	GGGCGG/GGCGGGCGG	CTCCTTGTCTTTTCAGG CAG	AGTACTGACCACACCG AGGG	60.0	172	DRR	Ca_08931	R	MYB
Ca5_P3_26996806	Ca5	26996806	A/AAAAGCAAATTA	TCGTTTTGGGTGAATT GTGA	TGCCTCTCGTTCCTT TTTA	59.9	410	INTERGENIC	--	--	--
Ca5_P3_27000468	Ca5	27000468	A/AGAT	TTGGCACTGAATAGTG CTCG	TCGAAGCTGTGCTAAT GGTG	60.0	361	INTERGENIC	--	--	--
Ca5_P3_27000514	Ca5	27000514	A/ATCGA	TTGGCACTGAATAGTG CTCG	TCGAAGCTGTGCTAAT GGTG	60.0	361	INTERGENIC	--	--	--
Ca5_P3_27000752	Ca5	27000752	CTTTTTTTTTTTTTTT/CTTTTTTTTTTT T	TTGGCACTGAATAGTG CTCG	CGTCCCGAATAGACGA ACAT	60.0	698	INTERGENIC	--	--	--
Ca5_P3_27000834	Ca5	27000834	ATCTCT/ATCT	TTGGCACTGAATAGTG CTCG	CTCAGCGGGTAGAGTA TCGC	60.0	940	INTERGENIC	--	--	--
Ca5_P3_27046097	Ca5	27046097	TTATATATATATATATATATATATATA TATA/TTATATATATATATATATATATA ATA	TGGAGAAGGAAACTGG AGGA	TGTGCCCAAAATGTT TCAA	59.8	776	INTRON	Ca_08930	--	MYB_related

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 (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
Ca5_P3_27099226	Ca5	27099226	GAA/GAAA	TGGCAGACAAACCAAA CAAA	TGGTTTGGCATGAGA CAGA	60.1	406	INTERGENIC	--	--	--
Ca5_P3_27119906	Ca5	27119906	AATATATATATATATATA/AATATATATA TATATATATA	TTAACGATTGGAATTTA GTGCAT	TGGTCTCATCCGAAAG CTTATT	57.8	874	INTERGENIC	--	--	--
Ca5_P3_27204653	Ca5	27204653	GAAAAA/GAAAAA	GCAAAGCGATCACAAA CTCA	GAAATGCTTCTTTCTCG CTTG	60.0	329	INTERGENIC	--	--	--
Ca5_P3_27249906	Ca5	27249906	CATATATATATATATATATATATATAT A/CATATATATATATATATATATATAT A	TTGCATTGTTTTCCCA TGA	TGTATCGGGATGCGAC ATAG	59.9	234	INTERGENIC	--	--	--
Ca5_P3_27249998	Ca5	27249998	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATAT ATA	TTGCATTGTTTTCCCA TGA	TGTATCGGGATGCGAC ATAG	59.9	234	INTERGENIC	--	--	--
Ca5_P3_27472549	Ca5	27472549	AG/A	GCATTATGCCGTCATCA TTTT	TTCGCATTCAAATTGT TGTT	59.8	491	INTERGENIC	--	--	--
Ca5_P3_27532068	Ca5	27532068	CAAAAAAAAA/CAAAAAAAAA	GGATTTAGCGGAAGGG GATA	TACACCAAGGGAGG GTACA	60.2	544	DRR	Ca_08901	L	--
Ca5_P3_27603143	Ca5	27603143	GATATATATATATATAT/GATATATATAT ATAT	CTTGCCCTTCATGCGAAT TTT	GATTTCAAAGATGCAG GGGA	60.2	555	DRR	Ca_08896	--	--
Ca5_P3_27718024	Ca5	27718024	TAAAAA/TAAAAA	TGGCAACAGAAACCA ACAA	TTCTTTAGCCCGTTG CTGT	60.1	573	INTERGENIC	--	--	--
Ca5_P3_27724401	Ca5	27724401	GATATATATATATATATA/GATATATA TATATATATA	ACATCATTGGCATTGG GTTT	TGCAAACTACAACGA TTCTCC	60.1	678	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 (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
Ca5_P3_2774211	Ca5	2774211	CTCT/CTCTTTCCCTTAATCT	ATCCGACATTCTTTGG CAG	CAAAGCAAGTGAAGT GCAA	60.1	842	INTERGENIC	--	--	--
Ca5_P3_27776620	Ca5	27776620	ATTTTTTTTT/ATTTTTTTTTT	TCCAACTTGGGTTGG TTTC	CATGAGCATGCAAGAT GGAT	59.8	603	INTERGENIC	--	--	--
Ca5_P3_27848020	Ca5	27848020	CATATATATATATATATAT/CATATAT ATATATATATATAT	CAAGCACCCCTTTGCA TTAT	TGACAAAATTGTAATTT CTCATTCA	60.0	309	INTERGENIC	--	--	--
Ca5_P3_27855551	Ca5	27855551	AATATATATATATATATATATATAT ATATAT/AATATATATATATATATATA TATATATATATATATATATAT	TTATGGCATGTGATTCT TTCAA	GCAAGCATATGCACAC AAAAA	58.2	477	INTERGENIC	--	--	--
Ca5_P3_27953406	Ca5	27953406	A/ATG	AACAACAGCCCCAATG TAGC	ATCATCCCGTCCATTA CGAA	60.0	599	CDS (FRAME SHIFT)	Ca_13422	--	Trihelix
Ca5_P3_27953689	Ca5	27953689	TA/T	AACAACAGCCCCAATG TAGC	ACGCTTTTCAAACAAA CGCT	60.0	794	INTERGENIC	--	--	--
Ca5_P3_27962429	Ca5	27962429	TTATATATATATATATATATATATA TATATAT/TTATATATATATATATATA TATATATATATATATATATAT	TCCAAGAGTCGGTTGT GTGA	TGGACCAACCAATTT TAGTGA	60.3	555	INTERGENIC	--	--	--
Ca5_P3_28131912	Ca5	28131912	ATTT/ATT	TGCCATATTCAGGAGT GTGC	ATGTACATTGCATGAG GCCA	59.7	850	INTERGENIC	--	--	--
Ca5_P3_28188267	Ca5	28188267	TAAAAAAAA/TAAAAAAAAA	CAAGAAAAGTAACCATC GTAATGA	GATCCATGTGAATTGG TTTGG	57.5	670	INTERGENIC	--	--	--
Ca5_P3_28192036	Ca5	28192036	CATATATATATATATATATAT/CATAT ATATATATATATATATAT	CCACATGCTCATTGTGT GACT	CCATTCTCCTTCACCC AGAC	59.6	653	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 (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
Ca5_P3_28305464	Ca5	28305464	GTGTATATATG/GTGTATATATGTATAT ATG	AATATGTGGCGATTAAT CTATTGTT	TGGTTGATCATTTCTG TAGTACG	57.3	960	INTERGENIC	--	--	--
Ca5_P3_28366916	Ca5	28366916	TTATATATATATATATATATATATATATA TATAT/TTATATATATATATATATATATA TATATATATATAT	TGAATGCACTCAAAAG CACA	TACAAAGACGTTGTCG TCGC	59.0	747	INTERGENIC	--	--	--
Ca5_P3_28370910	Ca5	28370910	TTATATATATATATATATATATATATATA TAT/TTATATATATATATATATATATA TATAT	CTAGTTCGTAACCCGT GCGT	AGGCATGGTGTGGAG TCAT	60.2	260	INTERGENIC	--	--	--
Ca5_P3_28399764	Ca5	28399764	GT/GTACTAGCATCCT	AGAGTCGCCAGCTGAA CAAT	TGATTTCTCCATAGCA CCGA	60.0	502	INTERGENIC	--	--	--
Ca5_P3_28413401	Ca5	28413401	AATATATA/ATATATATA	TTCTCCTTGAAGCTGTC GGT	ATTGCCAACATTTCCG GTAG	60.0	252	INTERGENIC	--	--	--
Ca5_P3_28463884	Ca5	28463884	TAAAAAAAA/TAAAAAAAAA	TGTTTCCTTTTCGACACA TTGA	TGTTGAGCCCAAATA CAAGG	59.2	590	INTERGENIC	--	--	--
Ca5_P3_28463958	Ca5	28463958	ATTTTTTTT/ATTTTTTTTT	TGTTTCCTTTTCGACACA TTGA	TGTTGAGCCCAAATA CAAGG	59.2	590	INTERGENIC	--	--	--
Ca5_P3_28519997	Ca5	28519997	TATAATAATAAT/TATAATAATAAAT	TTTCGAATGATGAACTT TTTATGT	CCATTTCTCCATAAC GCAT	57.0	822	INTERGENIC	--	--	--
Ca5_P3_28588926	Ca5	28588926	TGGG/TGG	CAACTGCTCCTGTTCTC CAA	CTAGGAGCATGTCGCT CTCC	59.0	412	INTERGENIC	--	--	--
Ca5_P3_286315	Ca5	286315	ACC/ACCC	ATGATTTGAATTGCGA GGC	TCCAACGGGGTTTAAG AGTG	60.0	821	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
Ca5_P3_28668837	Ca5	28668837	TTATATATAT/TTATATATATAT	AGCTAAATAGGGGGA CCGA	TGAGAGGTTGTTGTGG CAAA	59.9	242	INTERGENIC	--	--	--
Ca5_P3_28766272	Ca5	28766272	ACC/AC	ATGAAAACGTTTGCTCC AGG	GCCAAGTCCCATCAAC TTGT	60.1	160	INTERGENIC	--	--	--
Ca5_P3_28870694	Ca5	28870694	TTATATATATATATATA/TTATATATATA TATA	CGGTCGACCACTTGTC CTAT	CCATCATCATGCGTCT TAGG	60.0	669	INTERGENIC	--	--	--
Ca5_P3_28918279	Ca5	28918279	GC/GCCACACATC	CTGGTTTGCATAGCAC CAAC	AAAGGCCACAAATAA GCCT	59.2	320	INTRON	Ca_13343	--	ERF
Ca5_P3_28943369	Ca5	28943369	CTTTTTTTTT/CTTTTTTTTTTT	AGGACAAAAGGGCAAT AGCA	CACACTTCGATTGTGC CACT	59.7	425	INTERGENIC	--	--	--
Ca5_P3_28977874	Ca5	28977874	CAATGCAGAA/CAATGCAGAATAATGC AGAA	TGCAGAACCAGAACAA GCAC	TCTGGATTTTGATGTG CTGC	60.0	137	INTERGENIC	--	--	--
Ca5_P3_289898	Ca5	289898	ATT/ATTT	AAAGTGCCGAAGTTTG CAGT	TTTCCCTTCAACAGTC ATGG	59.9	351	INTRON	Ca_18185	R	B3
Ca5_P3_291054	Ca5	291054	TAAAAAAAA/TAAAAAAAAA	TGCTTCATATGCTTGAC CACA	TGGTGCTTCTTTGGCT CTTT	60.3	476	INTRON	Ca_18185	R	B3
Ca5_P3_291688	Ca5	291688	ATTTTT/ATTTTTTTT	AAAGAGCCAAAGAAGC ACCA	AGCAATGCGACTGTG ATTG	60.0	722	DRR	Ca_18186	--	--
Ca5_P3_291943	Ca5	291943	GCGCAACCGCAA/GCGCAACCGCAAC CGCAA	TTCGTGGCTTAATCCCA CTC	GTCTGGTGCTTTCCC AATC	60.1	517	DRR	Ca_18186	--	--

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 (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
Ca5_P3_292149	Ca5	292149	A/AC	AAAGTGCCGAAGTTTG CAGT	TGCTTCCCTTCAACA GTCA	59.9	485	DRR	Ca_18186	--	--
Ca5_P3_292231	Ca5	292231	C/CA	AAAGTGCCGAAGTTTG CAGT	TGCTTCCCTTCAACA GTCA	59.9	485	DRR	Ca_18186	--	--
Ca5_P3_29247345	Ca5	29247345	ATTTTTTTTT/ATTTTTTTTT	CGTGGAACCTCCCT CAAA	TGACGAGCGTAAGAAC ATGC	60.1	853	INTERGENIC	--	--	--
Ca5_P3_29302461	Ca5	29302461	AC/A	CCCAAATCCATCACAAT CCT	GGAGTGTCTGTCACAG CAGA	59.6	720	DRR	Ca_16624	--	--
Ca5_P3_29384323	Ca5	29384323	CTTTTTTTTT/CTTTTTTTTT	CTTGACAATTGAGGC ATTC	ATAGACAAACGCCG CTTC	59.6	545	INTERGENIC	--	--	--
Ca5_P3_29413662	Ca5	29413662	CATATATATATATATATATATATA/ CATATATATATATATATATATATA	GCTGCTCCTTGGGAAG TAAA	ACCAAGTTGGCTGCTC TGTT	59.5	575	INTERGENIC	--	--	--
Ca5_P3_29418196	Ca5	29418196	CAAAAAAAAA/CAAAAAAAAA	TGAAAAACACGGAGTC AAACA	CGTGACACTTCTAGCT TGGA	59.2	512	INTERGENIC	--	--	--
Ca5_P3_29418887	Ca5	29418887	TTATATATATATATA/TTATATATATA TATATATA	CCCAAGCTAGAAGTGT CACGA	TTGCATGGGCATAGTG AGAG	60.4	671	DRR	Ca_16633	G	--
Ca5_P3_29601698	Ca5	29601698	ATTATTTATTTAT/ATTATTTATTTA TTTATTTATTTAT	ATCTTTGGTTGGTTGGT TGC	TGCATATCCATTGAGT TTCACA	59.8	607	INTERGENIC	--	--	--
Ca5_P3_29627877	Ca5	29627877	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAAT/TTAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAAT	TGGTGATTTTTGTGT GCG	GTGTGGGCCTAAATG AGGA	58.0	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 (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
Ca5_P3_29638227	Ca5	29638227	CAA/CAACAATAA	CAATCATCCAGAGTTGT AGGAGG	AATGTCCGTGAGGTCA CTCC	60.0	566	INTERGENIC	--	--	--
Ca5_P3_29663443	Ca5	29663443	AATATATATATATATATA/AATATATATA TATATATATA	CTCTCCACTAAAAATA ATTCCAA	GGGAGGAGCTTCCTA TATCC	57.9	756	INTERGENIC	--	--	--
Ca5_P3_29664249	Ca5	29664249	GAAAAAAAAA/GAAAAAAAAA	ATTCATAAACACATGGC CCC	TAGGGTTAGGTGAGG GGCTT	59.5	255	INTERGENIC	--	--	--
Ca5_P3_29778035	Ca5	29778035	A/AAAT	GCTGCTGGCACATCTA CTCA	TAACTGCAACAGATGG TCGC	60.2	547	INTERGENIC	--	--	--
Ca5_P3_29827143	Ca5	29827143	TAAAAAAAAA/TAAAAAAAAA	ATCTGGTTAACGGATG CGAG	TTGGGACTGACAGAAA GAAAAA	60.1	669	INTERGENIC	--	--	--
Ca5_P3_29856414	Ca5	29856414	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATATATATATATATAT	CACCTTCGTTCCGGCCT AATA	CGTGACAAAGATCGT GATG	60.1	947	DRR	Ca_16668	E	--
Ca5_P3_29901145	Ca5	29901145	GTATATATATATATATATAT/GTATAT ATATATATATATATATATATATAT	GCAGTTTGCGGAGGAT TAAG	ATGACGCGGGTGATTT AGTC	59.8	646	INTERGENIC	--	--	--
Ca5_P3_29911055	Ca5	29911055	AATATATATATATATATATATATATAT ATATATAT/AATATATATATATATATATA TAT	TGGGATAAGGCAGAAG ATGG	AATTGAGATGTCTGGC CCAC	60.0	545	INTERGENIC	--	--	--
Ca5_P3_29917084	Ca5	29917084	ATTTTTTT/ATTTTTTTTT	CAACAACAAAGTGCAAT GGG	TGGCTTGTTGGATTTA GGACA	60.0	449	INTERGENIC	--	--	--
Ca5_P3_29932346	Ca5	29932346	CATA/CATATA	AAGAGGCGAGCAATTT TTCA	AAATTGGATCCTCGTG ATGC	60.0	242	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 (°C)	Expected 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_P3_30126893	Ca5	30126893	ATTTTTTTTT/ATTTTTTTTT	GTGGCTTCCAAAGAGA AACG	TTCGGTACACAATTTTC CCC	59.9	612	INTERGENIC	--	--	--
Ca5_P3_30128968	Ca5	30128968	GATTATAATTAAAAATA/GATTATAATTA AAAAATAATTATAATTAATA	TGTTTCTCTCTCCGCTC ACA	CCGCCGACTATACCTG TTTT	59.7	681	INTERGENIC	--	--	--
Ca5_P3_30131050	Ca5	30131050	AATATATATATATATATATATA/AATA TATATATATATATATATATATATA	CAAATTTGAGCAACAA TGC	AACACAAATGTTAAAT GCGAAGA	59.3	571	INTERGENIC	--	--	--
Ca5_P3_30141422	Ca5	30141422	TATTTTCCTTCATT/TATT	TACTGACGTGAGTCCC ACCA	TGTTAGATACGTGTCG CGGA	60.2	637	INTRON	Ca_04690	J	E2F/DP
Ca5_P3_30253731	Ca5	30253731	AATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TAT	CAAATTTGATCTTGCTT CTTTCAA	TTGCAGTGCATAACCT TTTGT	59.8	873	INTERGENIC	--	--	--
Ca5_P3_30284983	Ca5	30284983	ATATTATTATTATTATTATTATTATT ATTATTATTGTTATTGTTATTATTATT TAT/ATATTATTATTATTATTATTATT TATTATTATTATTATTATTGTTATTG TTATTATTATTATTAT	TGTTGTCACATGCTTTG GGT	TTGTGCACATTTTATTC TTCAAA	60.0	651	INTERGENIC	--	--	--
Ca5_P3_30478691	Ca5	30478691	GTTTTTTTTT/GTTTTTTTTT	TTCGTCAATCTTTTGA CAACG	AAAACAGACGGGTCCA CAAA	60.1	423	INTERGENIC	--	--	--
Ca5_P3_30478963	Ca5	30478963	TGA/T	TTGTGGACCCGTCTGT TTTT	CAACACATGCCCTGAA TCTG	60.4	436	INTERGENIC	--	--	--
Ca5_P3_30481129	Ca5	30481129	GTTTTTTTTT/GTTTTTTTTT	CAAACACGCCCTCAAT CTTT	AGTCCCATCCAAATTC CCTC	60.1	203	INTERGENIC	--	--	--
Ca5_P3_30540589	Ca5	30540589	TATC/TATCATC	CATTAATAGTCGCACG CCAA	AAGTTTTGGGACAAAA TTGAACA	59.9	643	DRR	Ca_04742	--	--

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 (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
Ca5_P3_30610017	Ca5	30610017	AAATAATAATAATAATAATAATAAT AATA/AAATAATAATAATAATAATAA TAATA	TTGCAATCAAACCTTT GAAAA	GCCATTCAATGAACAA CGTG	57.6	604	INTERGENIC	--	--	--
Ca5_P3_30612967	Ca5	30612967	TAAAAAAAA/TAAAAAAAAA	CGGCATATCATCACCC TTTT	ACCCCGAAAAAGTGC TAGT	59.8	378	INTERGENIC	--	--	--
Ca5_P3_30731838	Ca5	30731838	TTATATATATATATATATAT/TTATAT ATATATATATATATATATATAT	TTCTGAAACAAACGCAC CAA	TCAGAAATAGGCTAGGC CGTC	60.3	406	INTERGENIC	--	--	--
Ca5_P3_30777454	Ca5	30777454	TTATATATATATATATATATATATA T/TTATATATATATATATATATATATA T	AAACCTTTGAGAAATCG GCA	AGGAAGCCCAAGTTCC AAAT	59.7	382	INTERGENIC	--	--	--
Ca5_P3_30793756	Ca5	30793756	GTTTTATTTTTT/GTTTTATTTTTTAT TTTTTT	AGTTATGGTGGGCAG TGAG	TTTGAACCAACGACT TCCC	60.0	623	INTERGENIC	--	--	--
Ca5_P3_30880201	Ca5	30880201	CA/CAA	CCTGTATTCTGCCTCA GCGT	CAACCTAAGATTGGCC GTGT	60.4	494	DRR	Ca_04784	R	--
Ca5_P3_30920900	Ca5	30920900	ATTTTTTTTTTT/ATTTTTTTTTTT	CCATATTCTGGCTTGG GCTA	CGAACACCAAAACAAA ACGA	60.1	824	DRR	Ca_04789	--	--
Ca5_P3_30972147	Ca5	30972147	TTATATATATATATATA/TTATATATA TATATATATATA	GCCTTTGGGGTGATGA AGTA	GCTTCTTGGCAATCTT CCTG	59.9	559	INTRON	Ca_04796	T	--
Ca5_P3_30990200	Ca5	30990200	ATTT/ATTTTTTT	GAATCCCAAAACAAAC CCT	CACACCACGACATTT TGAC	60.0	540	INTERGENIC	--	--	--
Ca5_P3_31002418	Ca5	31002418	TAAAAAAAA/TAAAAAAAAA	AAGCAAACAAACAAGAA TTTCCTC	CGAACTTAGGCTCAAA TTCCC	60.0	497	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
Ca5_P3_31075075	Ca5	31075075	TAAAAAAAAA/TAAAAAAAAA	ATACGAGGAGGCGTGA GCTA	GCACTGAATCTTGCGT CGTA	60.0	712	INTERGENIC	--	--	--
Ca5_P3_31129774	Ca5	31129774	TAGAGAG/TAGAG	TCGAGTTACACATTCC ATCA	TACCATTCCCAACCAC ACCT	60.1	795	INTERGENIC	--	--	--
Ca5_P3_31131906	Ca5	31131906	TC/T	GGTGTTCACAGGATG CCTT	CAGGGAATTGATTCGA GCAT	60.0	608	INTRON	Ca_04815	--	--
Ca5_P3_31133268	Ca5	31133268	TG/T	ACACACCATTAGGCTC ACCC	GGTCTCCGCGTTCTGT GTAT	59.9	139	DRR	Ca_04815	--	--
Ca5_P3_31133950	Ca5	31133950	A/AC	GAGGAGATTGGGGAGC AACT	CTCATTGGCCATGAAA GGAT	60.6	539	DRR	Ca_04815	--	--
Ca5_P3_31136023	Ca5	31136023	AAAAT/A	TCACAATTTCCCAACCC AAT	AATTTCTACCAATGCG TCCG	60.0	796	INTRON	Ca_04816	G	Trihelix
Ca5_P3_31143475	Ca5	31143475	GTAAGTAAGTAAGTAAGTAAGT/GTAAC TAAGTAAGTAAGTAAGT	CAAAGCTGCAACAAAT GGAA	GTTGGTGTGGGAGAA GGAA	59.8	663	INTRON	Ca_04817	PET	NAC
Ca5_P3_3115746	Ca5	3115746	CAAAAAAAAA/CAAAAAAAAA	GCAACATGGGATGATT CAGA	TCCAAGTCGTTACAGT TGTG	59.5	628	INTERGENIC	--	--	--
Ca5_P3_31158732	Ca5	31158732	AATTTGGAATATTTGGAAT/AATTTGGA AT	TTCATCGTGTGCAACCA AAT	CCATTTGCTCTACCTC TCGC	60.0	840	DRR	Ca_04819	--	--
Ca5_P3_31167819	Ca5	31167819	A/AC	TGTGAACGATGAAGCA GAGG	AGCTGTGGAGCAAAC AACT	60.0	623	INTRON	Ca_04821	--	--

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
Ca5_P3_31181722	Ca5	31181722	AATGAATTATGAATTATGAATTGAAT T/AATGAATTATGAATTATGAATT	TCAGGCGTTAAATCTC GCTT	ATCAGTGGAGCTGAGG CTGT	60.0	439	INTRON	Ca_04822	TU	C3H
Ca5_P3_31183021	Ca5	31183021	ATTT/ATTTTTT	CCAAACACTCAAACCG ACTC	AAAGACCAAATTGGAC ACTTCA	58.2	817	DRR	Ca_04823	--	WOX
Ca5_P3_31237915	Ca5	31237915	TAAAAAA/TAAAAAA	ACACAAATTCGCCAAA TCC	CATCATGCCTCAAGAT CACG	59.8	768	INTERGENIC	--	--	--
Ca5_P3_31382813	Ca5	31382813	GTT/GTTT	GAATTGGAGAGGATGC CGTA	GAACAAGGACTGCGTT GTCA	60.0	415	INTRON	Ca_04840	S	--
Ca5_P3_31594106	Ca5	31594106	TAAAAAA/TAAAAAA	GTATGGGCGGAGAAAC TCAA	GCAGACAATAGTGGG TAAAA	60.1	813	INTRON	Ca_04861	R	--
Ca5_P3_31621509	Ca5	31621509	CT/CTGTATATCTACTTT	ATCCGAGTTTGCCTAT GTCC	GGGACGTGGAGATTGT TGAT	60.0	635	INTERGENIC	--	--	--
Ca5_P3_316293	Ca5	316293	AATATATATATATATATATAT/AAATAT ATATATATATATATAT	TTCTACCTTCTCGCCG CTA	TTAATTGAAAGTGGG GTGAA	60.1	562	INTERGENIC	--	--	--
Ca5_P3_317066	Ca5	317066	TAAA/TAAAA	GAGCATTGATCCGGAT TGTA	TTTGACGATGCAACGG TTTA	59.9	544	INTERGENIC	--	--	--
Ca5_P3_31809508	Ca5	31809508	TAAAAAA/TAAAAAA	TCTGTTCTGACGTTGT TCG	CAAAGAACATGGACC ACGA	60.0	637	INTRON	Ca_04886	Z	--
Ca5_P3_31821908	Ca5	31821908	ATTTTTTTTT/ATTTTTTTTTT	TGGGTGGTATCCAAGA AAGC	TGCTCTTTCGACCCT TACT	59.9	631	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
Ca5_P3_31842102	Ca5	31842102	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT/AATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT	GCCTCGTTGTCATGCC TAGT	ATTTCAAAGGCCACC TCTT	60.3	793	INTERGENIC	--	--	--
Ca5_P3_31847315	Ca5	31847315	ATTTTTTTTTTT/ATTTTTTTTTTT	GGACTATTC AACCATG CGCT	CGCCATTTGTTTGTTT CAA	60.1	701	INTERGENIC	--	--	--
Ca5_P3_31930749	Ca5	31930749	GATATATATATATATATATATA/GATA TATATATATATATA	TGTTTTGCTTGGTTTCA CGA	GCACCGAAACATGACA CAAC	60.3	500	INTERGENIC	--	--	--
Ca5_P3_31960994	Ca5	31960994	GATATATATATATATATAT/GATATATAT ATATATATATAT	GTCCTCAAAATTT CATG CCC	GAAAATTTGAATTTGC CGTGA	59.4	601	INTERGENIC	--	--	--
Ca5_P3_32115199	Ca5	32115199	C/CCTTTTAAT	GGATTCTTGAAACCC GTCT	AACCAATGACGATGAA TCGAG	60.3	263	INTERGENIC	--	--	--
Ca5_P3_32137515	Ca5	32137515	GT/GTT	ACCACCAAACGTAAAA CCA	TTTCTTGTGTGAAGCC ATGC	60.1	429	INTERGENIC	--	--	--
Ca5_P3_32139548	Ca5	32139548	TTATATATATATATATATAT/TTATAT ATATATATATAT	GCGACTTCGCAATGTG TAGA	GTTAAGGAAGTCCGCG TTTG	60.0	531	INTERGENIC	--	--	--
Ca5_P3_32179322	Ca5	32179322	CTTTTTTTTTT/CTTTTTTTTTT	TTTCGGAAGGTTGAA GTTG	GGCTGTT CATGTTGG TTTT	60.1	690	INTERGENIC	--	--	--
Ca5_P3_32279202	Ca5	32279202	CAATAATAATAATAATA/CAATAATA ATAATAATAATAATA	CACGGCTCTGATCATA AGAAA	AACCAGCTTTTAGTTC GTCCTT	58.0	868	INTERGENIC	--	--	--
Ca5_P3_32299791	Ca5	32299791	ATTTTTTTTTT/ATTTTTTTTTT	CAAGCAAACCCCTCAA AGC	GGCGGATCAACTCTTT GTGT	59.9	364	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_32375018	Ca5	32375018	AATTATTATTATTATTATTATTATTA TTATTATTATT/AATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATT	CACCTCTCCACAAGCA AACA	AACGGAAGCCCCTATT ATGC	59.9	964	INTRON	Ca_04936	--	WRKY
Ca5_P3_32388360	Ca5	32388360	TATAATAATAATAATAATAATAATA ATAATAATAAT/TATAATAATAATAAA TAATAATAATAATAATAAT	CAAATCGGGAGGAAGT TGTT	TTTTGCCCAATTGCTT ATC	59.0	715	DRR	Ca_04938	--	bZIP
Ca5_P3_32388967	Ca5	32388967	CTATTATTTATTATTTTATTA/CTATTA TTTTATTATTTATTATTTTATTA	AATTGCGATAAGCAATT GGG	TAGGATTACACGGGGC AGAC	59.9	821	DRR	Ca_04938	--	bZIP
Ca5_P3_32467772	Ca5	32467772	AATATATATATATATATATATA/AATA TATATATATATATATA	AAGCCCAAGTTGCAAA TGAC	GGCCACATATGAAGG TGAA	60.1	729	INTERGENIC	--	--	--
Ca5_P3_32605650	Ca5	32605650	TAAAAAAAAAAAAA	TCAATCACAAATCAGG GTGC	ATCCAGATCCAATACG ACGG	59.5	874	INTERGENIC	--	--	--
Ca5_P3_32610734	Ca5	32610734	TAAAAAAAAAAAAA	ATCCAGCCGTAAAAACA ACG	GCTGGGTTTGAAAAA TCCT	60.0	832	INTERGENIC	--	--	--
Ca5_P3_32622195	Ca5	32622195	TCTCT/TCTCTCTCGCTCT	ATGGCTCTTTGGGCTA AGGT	GCCTCTGCTTACTAA TGCC	60.1	907	INTRON	Ca_04968	U	--
Ca5_P3_32673383	Ca5	32673383	TTGTGTGTGTGTGTGT/TTGTGTGT GTGTGTGTGTGT	TGAGGGTTAAGGGATA GGGG	CATGGAGTGTACGAA AGGA	60.1	691	INTRON	Ca_04975	--	SBP
Ca5_P3_32694142	Ca5	32694142	AAATAATAATAATAATAATAATAA/A AATAATAATAATAATAATAATAATA A	GCCATGATTTTGGC GATAA	GATCGCAACCTGAGGA TGTT	59.8	553	DRR	Ca_04975	--	SBP
Ca5_P3_32736061	Ca5	32736061	TTT/TTTCCTT	AAAAGGGTGTCACAAG TGGG	TGAAAAGGATGAAAGT CGCA	59.9	250	INTRON	Ca_04978	T	--

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
Ca5_P3_32745764	Ca5	32745764	TAAA/TAAAA	AGGCATCACATTGAGG GACT	CCTCGGTGACCCTGAA TAAA	59.5	148	INTERGENIC	--	--	--
Ca5_P3_327512	Ca5	327512	ATTTTTTTTTT/ATTTTTTTTTT	GCTTCTGCATGGTTTT GTCA	AGGATCATCCATTGGA GCAG	59.8	466	INTRON	Ca_18189	G	--
Ca5_P3_32848829	Ca5	32848829	GAAAAAAAAA/GAAAAAAAAA	AACATTTACCAGTCCAG CGG	TCACCGTATGCAAAGA CGAG	60.0	848	INTERGENIC	--	--	--
Ca5_P3_328796	Ca5	328796	ATTTTTTTTTT/ATTTTTTTTTT	ATGAACAGGTGGCATG TGAA	TGCAATGAGCAATCT CCAG	60.0	467	INTRON	Ca_18189	G	--
Ca5_P3_32879637	Ca5	32879637	AGTAAACATGTAAACAA/AGTAAACAA	TCCTGCTAAAGATGGT CATTCA	TTGTTGATGATGGAT GGAGTG	59.7	778	INTERGENIC	--	--	--
Ca5_P3_32891516	Ca5	32891516	TAAAAAAAAA/TAAAAAAAAA	TCTCTCTCTCCATCC CCA	AAGGCATGGCTCGTGT GTAT	59.9	840	INTERGENIC	--	--	--
Ca5_P3_32912336	Ca5	32912336	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATATA TATATATAT	ACCCCTCACCTCCTTA TTG	TTTTCTTGCCTCACTT GTTGA	60.2	499	INTERGENIC	--	--	--
Ca5_P3_3293717	Ca5	3293717	GTATATATATATATATATATATAT A/GTATATATATATATATATATATATA	GCCTCTCAGGCCTAAC ATCA	TTTGGGGACAAGATCC AACT	60.4	391	INTERGENIC	--	--	--
Ca5_P3_3295289	Ca5	3295289	CATATATATATATA/CATATATATATA	CCAACAACTTTACGGA ACCA	AAGGGGGAGAGGAAT GATGT	59.9	217	INTERGENIC	--	--	--
Ca5_P3_33099227	Ca5	33099227	ACCCC/ACCCCC	GATCACAATGGACGGT AAAGC	CAAAATGTGGAGGAAAG TGGG	59.4	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 (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
Ca5_P3_33115755	Ca5	33115755	G/GGCCTTCAGGGA	TTTGCGGTTCTCTTGCT TTT	TGTGTTATGATCCCC GATT	60.0	554	INTRON	Ca_05007	--	MYB_related
Ca5_P3_3317625	Ca5	3317625	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATT/ATATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATT	GAAATTGATCTTCCCCA GCA	GGGTGTTAATCATTCT ACATCATCG	60.0	762	INTERGENIC	--	--	--
Ca5_P3_33354598	Ca5	33354598	TAAAAAAAAA/TAAAAAAAAA	TGACAGTTACAAACCG CTGC	CAAAATTCTACCAATTC CCCA	59.9	363	INTERGENIC	--	--	--
Ca5_P3_33395960	Ca5	33395960	AATTATTATTATTATTATT/ATTATTAT TATTATT	TTATCGGCTAAGGGA CACG	GTGCTGCCTAGACAAT CGGT	60.1	768	INTERGENIC	--	--	--
Ca5_P3_33444959	Ca5	33444959	GATATA/GATATATA	TTATGGAGGCCACATT CACA	GAAATTAAGGCCTCTT GATCTTTTT	59.9	961	DRR	Ca_01912	O	MYB_related
Ca5_P3_33456475	Ca5	33456475	TTATGTTAAATATGTTAA/TTATGTTAAA TATGTTAAATATGTTAA	GATGAAGTGCTGATCA GAGGC	ACCAGGAAACATTGCC AGAC	60.0	789	DRR	Ca_01911	O	MYB_related
Ca5_P3_33457924	Ca5	33457924	ATTTTTTT/ATTTTTTTT	CCGACACCCAAATTT AAC	GCCCTCAGATGAGAGT CAGG	60.2	680	DRR	Ca_01911	O	MYB_related
Ca5_P3_33493974	Ca5	33493974	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	CAACAGAACAATAACG GCCA	CTTGTGACTTCGTGCG GTAA	59.6	484	INTERGENIC	--	--	--
Ca5_P3_33542100	Ca5	33542100	GTTTATTTATTTATTTAT/GTTTATTTAT TTATTTATTTATTTAT	AATTCGGTTTTTGCGT GTA	GTTAAGGGACCACGAA TGCT	60.4	569	INTERGENIC	--	--	--
Ca5_P3_33547836	Ca5	33547836	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT	TTGGGCACATCTTGTG CTAC	GGCACACATTCACAAT TCACA	59.7	411	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 (°C)	Expected 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_P3_34164848	Ca5	34164848	C/CA	CTTCCAGGGGATGCAA GATA	CGTAGGCAATAAGACA CGCA	60.0	377	DRR	Ca_01832	--	NF-YB
Ca5_P3_34191964	Ca5	34191964	AAATAATAATAATAATAATAATAATA/ AAATAATAATAATAATAATAATAATA AAT	AGGC AAAATGTTTTTCA CGG	TTTGTTTTGGCACATG CACT	60.0	561	DRR	Ca_01828	--	--
Ca5_P3_34218888	Ca5	34218888	GATATATATATATATATATATATATAT TAT/GATATATATATATATATATATAT ATAT	TAAGTGCACAAGGCAT CGAG	TCCCACCTTCTAAAC CCAA	60.0	298	INTERGENIC	--	--	--
Ca5_P3_34220162	Ca5	34220162	GA AAAAAAAAA/GA AAAAAAAAA	CCACTAACCTATTCGGA ATCCA	GCCAATTGTCGGCACT TAAT	60.2	462	INTERGENIC	--	--	--
Ca5_P3_34221308	Ca5	34221308	GC/GCC	GGTGGTCTACGCATGA GGTT	TACACTACCCAGCCCA GTCC	60.0	970	INTERGENIC	--	--	--
Ca5_P3_34228604	Ca5	34228604	GTTTTTTTTT/GTTTTTTTTT	CGAACATCTCCAACGG TATTC	TTATCTATTTGGGGGA GGGG	59.4	415	INTERGENIC	--	--	--
Ca5_P3_34235777	Ca5	34235777	AATATATATATATATATATAT/AAAT ATATATATATATATATATATATAT	CAATGGTCCAACCTATC ACAA	GCCAGTACACCAAGTG ACGA	58.3	206	INTERGENIC	--	--	--
Ca5_P3_34263941	Ca5	34263941	TTCAGCTATAGTGATATCAGCTATAGT GATAT/TTCAGCTATAGTGATATCAGCT ATAGTGATATCAGCTATAGTGATAT	CAAGTGGATTCTTCCC CTCA	CCTTTGTGGATTGCG TTTT	60.0	825	INTRON	Ca_01820	--	--
Ca5_P3_34315432	Ca5	34315432	GTTATTTTTATTTTTATTTTTATTTTTAT TTTTATTT/GTTATTTTTATTTTTATTTT TATTTTTATTTT	TGACGCACCGTAGATG AGAG	CAAGTAATGGGCTTCA TGGG	60.0	248	DRR	Ca_01816	PT	C3H
Ca5_P3_34317381	Ca5	34317381	TAAAAA AAAAA/TAAAAA AAAAA	AAAACTTGCATAATTG TTTTGGA	TTTCGTATGATTGGG CGAT	59.0	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 (°C)	Expected 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_P3_34323415	Ca5	34323415	TTAT/TT	CGTTTCATTGTTTCTC TTTCTCA	GCACCAACAACCTTG CTCA	59.8	599	INTERGENIC	--	--	--
Ca5_P3_34355845	Ca5	34355845	AATATATATATATATATATATATATAT ATA/AATATATATATATATATATATAT ATATATATATA	TGGGTTTTTCAATTGTT GGG	AGCCTAAATCCATGGT TATTTTT	60.6	736	DRR	Ca_01810	--	--
Ca5_P3_34466555	Ca5	34466555	A/ATAAT	TGTTGTTCCTCTTTTCA CGTTG	ACCAAAGTAATGCGGT TGAA	60.2	762	INTERGENIC	--	--	--
Ca5_P3_34548859	Ca5	34548859	GAAAAAAAA/GAAAAAAAA	ATTGATTCGCAATAAG CGG	CCTAGCCGTCCTATT GGTT	60.1	629	INTERGENIC	--	--	--
Ca5_P3_34771204	Ca5	34771204	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATATA T	TCTCATGTTTCCCAACC ACA	CTGGACCACATTCTGG CTCT	59.9	487	DRR	Ca_01764	--	ERF
Ca5_P3_34835083	Ca5	34835083	GATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAAT/GA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA AT	TCCTCTATTTGCGTCCT TCG	CACCCTAATAACCCGA GCAA	60.3	586	INTERGENIC	--	--	--
Ca5_P3_34851417	Ca5	34851417	TA/TAA	GACAGAGAGATGACGG GGAA	AAACCGAAAAAGTGAA AACTGA	60.2	569	INTERGENIC	--	--	--
Ca5_P3_34871969	Ca5	34871969	GA/GAAATGAA	TGACGTTGCATTACCA AAT	AGGGAGGACGAAAATG ACCT	60.0	609	INTERGENIC	--	--	--
Ca5_P3_35056527	Ca5	35056527	A/AT	AGTCGCACTTTGCGT AGGA	TTCGACAATCATGGCT GAAA	60.0	459	DRR	Ca_01730	J	--
Ca5_P3_35070670	Ca5	35070670	TATTAATTAATTAATTAATT/TATTAATT AATTAATTAATTAATT	TGTGACCTGCAGTGAT ATTTTG	ATAATGTTGCGAATGG AGGC	58.7	617	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
Ca5_P3_35149505	Ca5	35149505	CTTTTTTTTT/CTTTTTTTTT	CAATCACATGGCTTGG ATGA	CAGCCACACCGATTAC CTTT	60.5	400	INTERGENIC	--	--	--
Ca5_P3_35157632	Ca5	35157632	AATATATATATATATATAT/AATATAT ATATATATATATATAT	GTGTCGTTTACCACTG GGCT	CATGCCATACAAGCCA CAAC	60.0	652	INTERGENIC	--	--	--
Ca5_P3_35190711	Ca5	35190711	GAAAA/GAAAAA	TGTCACTTTTGTTCG TCCT	TGAAATGTTGCCACT GTGT	57.4	454	DRR	Ca_01716	O	--
Ca5_P3_35231327	Ca5	35231327	ATTTTTTT/ATTTTTTTT	CACGAACCATAGCATG GGA	ATTGGATCGGGCCTAG TGTA	60.5	834	INTERGENIC	--	--	--
Ca5_P3_35246700	Ca5	35246700	GAAAAAAAA/GAAAAAAAAA	GCCAGGTAGCTGCTCC ATAA	GCATGCAACAAAAGGC TAAA	60.4	761	INTERGENIC	--	--	--
Ca5_P3_35328160	Ca5	35328160	ATTTTTTTT/ATTTTTTTTT	ACCACGTGACCCCTTA ACTT	TGATGAAATTACGTTAT ATTGAGGATG	58.4	204	INTERGENIC	--	--	--
Ca5_P3_35331425	Ca5	35331425	TAAA/TAA	CCTCGGGTTGCATAT GTCT	TTTGGATGGAAGAGTA CCCG	60.0	711	DRR	Ca_01701	--	--
Ca5_P3_35485623	Ca5	35485623	TAAAAAAAA/TAAAAAAAAA	CCCAACTTCTTCATTGC CTC	GGACCCAGCAGAGTTG GTAA	59.7	639	INTERGENIC	--	--	--
Ca5_P3_35516951	Ca5	35516951	CTAAA/C	CTGGATGGCCTTTTGT TTGT	TTCCAAAGCAATGTGT CAGC	60.0	641	INTRON	Ca_01680	IE	B3
Ca5_P3_35527896	Ca5	35527896	ATTTTTTT/ATTTTTTTTT	AAATAAAAGGGGAAGG TGGC	CGTTTAACTCTGCGTG GGAT	59.3	717	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
Ca5_P3_35595695	Ca5	35595695	TTAATAATAATAATAATAATAATAA TAATAATAATAATAAT/TTAATAATAATA ATAATAATAATAATAATAATAATAA TAATAAT	ACCATTCAAACGGCGA GTAG	ATGCAATCGTATCTCG TGGT	60.1	306	INTERGENIC	--	--	--
Ca5_P3_35668277	Ca5	35668277	CATATATATATATATA/CATATATATATA TATATA	ATTGATTGTCTTGTGCG CCT	AATTAACCTCCACGGA GCCC	59.6	590	INTERGENIC	--	--	--
Ca5_P3_35689449	Ca5	35689449	TC/T	CGTTGCAACAGAAGCA GAAG	GATCCAAAGCCCTCAA TGAA	59.8	566	DRR	Ca_01660	M	--
Ca5_P3_35751387	Ca5	35751387	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATAT	TCATTTTCTTTCAATT TGTCCTT	TTTTCACCTGGCATCC ATCC	59.5	776	INTERGENIC	--	--	--
Ca5_P3_357876	Ca5	357876	A/AC	GTGAACAAGCCCATTG GAGT	GGATTGGCAATTTTCA TTGG	60.0	161	INTERGENIC	--	--	--
Ca5_P3_35872148	Ca5	35872148	TAAAAAAAAA/TAAAAAAAAA	ACCCTCACGTAAGCCT GATG	TCGCCTTCGTAAATAA CGATT	60.1	357	INTERGENIC	--	--	--
Ca5_P3_35915901	Ca5	35915901	ATTTTTTTTT/ATTTTTTTTT	AGCATGTGTTCTTGTG GCAG	TCGGAAGTTTCACATT CATCC	59.9	589	INTERGENIC	--	--	--
Ca5_P3_35919269	Ca5	35919269	ATTTATTGTTTATTGTTTATTGTTT/ATT TATTGTTTATTGTTT	TGGGATATTGCAAGGA GTTCT	GGGATTTGTTTTTCAC TGGT	58.7	671	INTERGENIC	--	--	--
Ca5_P3_359833	Ca5	359833	GCT/GCTCT	CTACCACATTGTTGTG CCG	TGGCAAGCAATTGAAC AAAG	60.0	689	DRR	Ca_18192	P	--
Ca5_P3_360986	Ca5	360986	ATTTTTTTTT/ATTTTTTTTT	TGTGAGTTTAAGGGAG GGGA	GCATCCAGGATCAGAG GTGT	59.5	390	DRR	Ca_18192	P	--

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
Ca5_P3_36101390	Ca5	36101390	TAAAAAAAA/TAAAAAAAA	AGAGCAAAATCCTTTC GTGA	TAGTGCAATGGGCC TCTC	59.0	711	INTERGENIC	--	--	--
Ca5_P3_36285568	Ca5	36285568	TAAAAAAAA/TAAAAAAAA	GGCTTAACGCTCTGTC GTCT	AGCAGCTGCCATTGA GAAT	59.6	630	INTERGENIC	--	--	--
Ca5_P3_36308359	Ca5	36308359	TTTATT/TTTATTGGTATTATTATT	GTTTGTGGCGGATTTT GTTT	CCGATACAACGAATT GTCC	59.8	423	DRR	Ca_01593	Z	--
Ca5_P3_36317817	Ca5	36317817	CTTTTTTTTT/CTTTTTTTTT	TCTCACCTCGGACACC AAAT	TGGAAGGTACAAGTGA GGGG	60.5	598	INTERGENIC	--	--	--
Ca5_P3_36414199	Ca5	36414199	ATTTTTTT/ATTTTTT	AACTCGCAATGCATCC AATC	TGTGACCATGATTTTG TGGG	61.0	240	INTERGENIC	--	--	--
Ca5_P3_36452806	Ca5	36452806	TAAAAAAAA/TAAAAAAAA	TCAATGAATTGACTGGC TTGA	GCTCACAATAATACCA ATGACCTTT	59.3	749	INTERGENIC	--	--	--
Ca5_P3_36583877	Ca5	36583877	CATATATATATATATATAT/CATATATAT ATATATATATAT	TCACTTTTAGGATCCGT TTGA	CACAATGGACCATGCA CTTC	57.4	809	INTERGENIC	--	--	--
Ca5_P3_36590424	Ca5	36590424	TAAAAAAAA/TAAAAAAAA	TAAGCCCTCATTGATAC CCG	AAGATTTTAAATGATGC TTTTGGA	59.9	464	INTERGENIC	--	--	--
Ca5_P3_36668167	Ca5	36668167	ACCCC/ACCC	GGCAAACCTCTCTACG TTGC	TCTCAGCAGGCACACA AATC	59.9	866	INTRON	Ca_01555	AJ	NAC
Ca5_P3_36742914	Ca5	36742914	CTTTTTTTTT/CTTTTTTTTT	CAAATGTTGGGCTTGG AGTC	ATTTCTTTGGGGATTTT GGG	60.5	351	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 (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
Ca5_P3_36804599	Ca5	36804599	GTTTTT/GTTTT	CCTACCTCATCACACG CAA	GGTACAATTGTTGCAC CACG	59.7	323	INTERGENIC	--	--	--
Ca5_P3_36893479	Ca5	36893479	TTATATATATATATAT/TTATATATAT ATATATATAT	GTAATTGTTCAAGTTGG GCCG	GACACAAGCGCACGTA ATTG	60.4	541	INTERGENIC	--	--	--
Ca5_P3_36904833	Ca5	36904833	GCTCTCTCTCTCTCTCTCTCTCTCT CTCTC/GCTCTCTCTCTCTCTCTCTCTC TCTCTCTCTCTCTC	TTCTGGAGAAAGAGGC GAAG	TGCGTAATTGGTGCT GGTA	59.7	638	INTERGENIC	--	--	--
Ca5_P3_36963471	Ca5	36963471	ATAT/A	TGCCGCTGTGTCAGTT AGTT	GTACCGCTCGGTCTC TAAA	59.5	704	INTERGENIC	--	--	--
Ca5_P3_37086090	Ca5	37086090	AGGGGGGGGGG/AGGGGGGGGGG	CCGTGCAAAGGATGAA AAGT	TACTCGCCCAAATT AACG	60.1	614	INTRON	Ca_01507	--	G2-like
Ca5_P3_37101601	Ca5	37101601	CTTTTTTTTT/CTTTTTTTTTT	ATACCAACACCATCATG CGA	TTTGGTTCCAAAGGA AAGC	59.8	595	INTERGENIC	--	--	--
Ca5_P3_37112216	Ca5	37112216	CTTATTTATTTATTTATTTATTTAT/ CTTATTTATTTATTTATTTATTTAT TTATTTAT	TTCTTCCAGGGACATC CAAG	AGGAGGTGCCCATTTA GGAT	60.0	648	INTRON	Ca_01505	R	--
Ca5_P3_37124729	Ca5	37124729	CAAAAAAAAA/CAAAAAAAAAA	TGGAAGACTCCACACA ATGC	GGAGAAACAAATGGA GGGA	59.7	166	INTERGENIC	--	--	--
Ca5_P3_37218586	Ca5	37218586	TATACATACATACATACATA/TAT ACATACATACATACATA	CACTCGTATCATGCTTG TCG	CTTTTCGCCACCATTT GTT	57.9	680	INTERGENIC	--	--	--
Ca5_P3_37235701	Ca5	37235701	AATATATATATATATATATATA/AA TATATATATATATATATATA	GTTGGAGCCAAAAC AGCG	ACATTGATTGGCCCTT TTGA	59.9	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
Ca5_P3_37236169	Ca5	37236169	TAAAAAAAA/TAAAAAAAAA	TCAAAAGGGCCAATGA ATGT	TTGACACAGTTGAGAT GCGA	60.3	546	INTERGENIC	--	--	--
Ca5_P3_37287992	Ca5	37287992	TA/TAA	AACGATAATCCAACAAC CACAA	AAATTCATAAATGCGC GTGA	59.2	242	INTERGENIC	--	--	--
Ca5_P3_37319609	Ca5	37319609	AATATATATATATATATATATA/AATA TATATATATATATATATATATA	TGGCTGTGAAGGAGAC AGTG	GCTTAAGTCACACACT TCCAAAAA	60.0	756	INTERGENIC	--	--	--
Ca5_P3_3742109	Ca5	3742109	TT/TTACATAT	ATTTACGAGCAGCGGA AAGA	TGGTCATGCAGAACT CAGC	60.0	605	INTERGENIC	--	--	--
Ca5_P3_37603247	Ca5	37603247	ATATTTTATTTTATTTTATTTT/ATATTTT ATTTTATTTT	CACTTGATCTTAGTTC ATTGTGG	TCTCCCTTGTTCGCTT CATT	59.9	828	INTERGENIC	--	--	--
Ca5_P3_37611622	Ca5	37611622	CAAA/CAA	ACGCGTATTTTATGGG CAG	GGCAAGGTTCATTTTG CATT	60.0	236	INTRON	Ca_01461	T	FAR1
Ca5_P3_37633576	Ca5	37633576	TAAAAAAAAA/TAAAAAAAAA	TGCAATGTTAAAGATGG TTGG	GTGCGAATTTTGAT TACTGA	58.5	264	INTERGENIC	--	--	--
Ca5_P3_37670957	Ca5	37670957	GTTTTTTTT/GTTTTTTTT	GCCTGCTCTCTTTTG GTG	TGAAATATACATCTGT GGGGG	60.0	294	INTERGENIC	--	--	--
Ca5_P3_37763543	Ca5	37763543	TTATATATATATATATATATATATA TATATATAT/TTATATATATATATATA TATATATATATAT	TGGCTGCAACGATAAT CAAG	TGAAGCGACTGTCTCC AAAC	59.8	671	INTERGENIC	--	--	--
Ca5_P3_37868766	Ca5	37868766	CATTATATTATTATATTATATTATAT/ CATTATATTATTATTATATTATATTAT ATAT	GCGAAACTTTGGTGG TGTT	ACAAGATCCACACCGC TACC	60.0	541	INTRON	Ca_01437	H	--

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
Ca5_P3_37905515	Ca5	37905515	ATTTTTTTTT/ATTTTTTTTT	TGATCGAAGACAATTG TGTC A	CCGATCTCACATGCTT CCTT	59.2	670	INTERGENIC	--	--	--
Ca5_P3_37980921	Ca5	37980921	TGGG/TGG	TGATTTATGATTGTGGG CGA	GTTTGGATGCGTGTTT CCTT	59.9	704	DRR	Ca_01423	U	bHLH
Ca5_P3_38006809	Ca5	38006809	G/GATCGTT	TGGAAGTGCATATGAT GTTGG	CGAGGTGTTGCACATG ACTT	59.4	585	INTERGENIC	--	--	--
Ca5_P3_38012392	Ca5	38012392	CAAAA/C	TGTCGTCTTCTTCCTTT CGG	TTGGGCTAACCACCTT TTTG	60.4	446	DRR	Ca_01420	BK	NAC
Ca5_P3_38016624	Ca5	38016624	TAAGAA/TAA	ATCCTCGAGAAGGAAG GAGC	CCTTTCCCTCCAATG TCAA	59.9	276	INTRON	Ca_01419	A	--
Ca5_P3_38020094	Ca5	38020094	GTTTT/GTTT	AGCAAGAGTCGGCACA AAGT	TTAAATCCCCTCAAACA CCG	60.1	357	DRR	Ca_01419	A	--
Ca5_P3_38025101	Ca5	38025101	TC/T	TCCATAGCATTGCACTC AGC	TATGGTCTTCCTCGCT CCAG	60.0	660	INTERGENIC	--	--	--
Ca5_P3_38025852	Ca5	38025852	AT/A	ATGCCAAAAATAACGC CAG	TGAGGTTGAGAAGCCA AACC	60.0	647	INTERGENIC	--	--	--
Ca5_P3_38027085	Ca5	38027085	AC/A	AAGCTCTTGTCTCCA CCA	TGCACCACAAAAGTGT GTATCA	59.8	504	INTERGENIC	--	--	--
Ca5_P3_38027475	Ca5	38027475	T/TA	TGGAGTGATACACTT TTGTGG	TGCTTACAAGGTATTC TTGCCA	59.9	446	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
Ca5_P3_38033573	Ca5	38033573	GTTTTTTTTT/GTTTTTTTTT	AAAGCGGCATTATCTC GTTG	CGCGTCAAATAAGCA TTGA	60.2	520	INTERGENIC	--	--	--
Ca5_P3_38034465	Ca5	38034465	AATTATTAT/AATTAT	TGCTATTGCGATCCCT CTCT	TTGTCGGTATAAATCG GACG	59.9	311	INTERGENIC	--	--	--
Ca5_P3_38034841	Ca5	38034841	TTTA/TTTAATTA	TCGTCCGATTATACCG ACA	CGACGAGGTATATGCC AACA	59.0	856	INTERGENIC	--	--	--
Ca5_P3_38036769	Ca5	38036769	TAA/TA	TGATAACTCGTCGGCT TG TG	TTTTTCCTCCAAATAA GCCTC	59.9	633	INTERGENIC	--	--	--
Ca5_P3_38038986	Ca5	38038986	AGG/AGGG	TTACCAATACCGGTA CCGT	TCACACAACAAGGAAC CCAA	59.1	516	INTERGENIC	--	--	--
Ca5_P3_38048496	Ca5	38048496	CGAGTT/C	GTTGCATTGGGCAATT TCT	CTCCTCAGCAAAGCA TACG	59.9	527	INTERGENIC	--	--	--
Ca5_P3_38061782	Ca5	38061782	ATTTT/ATT	CCCTCCGTGTTTATTTA CCG	CACTCTAGCTTTGGGC TTGG	59.3	687	DRR	Ca_01416	--	--
Ca5_P3_38068613	Ca5	38068613	ATTTTTTT/ATTTT	CGCTTAGCAGGTAAGG GAAC	ATCCACAGCCTATGAC CACC	59.0	614	DRR	Ca_01413	--	--
Ca5_P3_38076142	Ca5	38076142	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	ACCGAATTTGTTTGCTA CCG	TCGCAGAACCACAATG CTAC	60.0	237	DRR	Ca_01412	O	MYB_related
Ca5_P3_38080854	Ca5	38080854	A/AC	AATAGATCCTGATGGC CGTG	TCGATTCACCATGACA GCAT	59.9	813	INTRON	Ca_01411	D	WRKY

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 (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
Ca5_P3_38088810	Ca5	38088810	CTAAATATAA/CTAA	ATTACATGCGGTTCTG GTTC	GACTCAATTGCGGCCA TATT	59.8	566	DRR	Ca_01409	--	--
Ca5_P3_38099316	Ca5	38099316	GATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTAT/GAT TATTATTATTATTATTATTATTATTA TTATTATTAT	GGAAACAATATGGTA TGCCC	CACGGATAATCGGAGA TTCCT	59.5	767	INTERGENIC	--	--	--
Ca5_P3_38101800	Ca5	38101800	G/GTACAAAGTGACCGCT	GTCGAAGTACTCGGCG CTAC	ACGTCGAAGGGAGACT CAGA	60.0	610	INTERGENIC	--	--	--
Ca5_P3_38102985	Ca5	38102985	TA/T	GCTGGTGGCATACTTT GGTT	GTCCATGACAGCAGCA AAAA	60.0	122	CDS (FRAME SHIFT)	Ca_01408	P	--
Ca5_P3_38117706	Ca5	38117706	AAC/A	CACCTCCGAACCTGTAG AATTGTT	TGAACCATGTCTTT CACGA	58.8	823	INTERGENIC	--	--	--
Ca5_P3_38126896	Ca5	38126896	AATATAT/AATAT	GCATTACGACTTTGTTG CGA	TCACCACCTTCATTGT CAGC	59.9	483	INTERGENIC	--	--	--
Ca5_P3_38142286	Ca5	38142286	GACACA/GACA	TTGTTCCCTTTTGATG AGG	ACTTTGCTGGCAATGT GTGT	59.9	526	DRR	Ca_01403	R	NAC
Ca5_P3_38149011	Ca5	38149011	TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTAT/TTATTATTATTATTATTA TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTAT	GCCGATATGTTCTTGG TGGT	GCCTCTCCCACAATTG ACTC	59.8	940	DRR	Ca_01402	--	bHLH
Ca5_P3_38155679	Ca5	38155679	CTTA/CTTAATTA	TGTTGTTGTTGGATTG GCAT	AAATGGAGCATTGGA AAAA	59.8	769	INTERGENIC	--	--	--
Ca5_P3_38159703	Ca5	38159703	GTT/GTTGGCCATTTT	CCAACTCGCAACAAAT CCT	ATTGGTTCACCCCTTC AAAA	60.1	559	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 (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
Ca5_P3_38255302	Ca5	38255302	AAATAATAATAAT/AAATAATAATAA T	TGCCTCAACTCAACACT TGC	CAATTTACCAATCGCA CGAA	60.0	762	INTERGENIC	--	--	--
Ca5_P3_38256989	Ca5	38256989	AATA/AA	GGACTTCAGATGATCG CACA	GGGAGAAGAGGAAGG AGGAA	59.8	320	INTERGENIC	--	--	--
Ca5_P3_38407176	Ca5	38407176	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATA T	TCTCAAAGTCTCAATGG TCCAA	TTGAAGTCAAATTTG CCAG	59.7	658	INTERGENIC	--	--	--
Ca5_P3_38476780	Ca5	38476780	CA/CGTA	CACACTTGGAGAGCGC ATTA	TCCTTGGGGTGATCTC GTAG	60.0	652	INTERGENIC	--	--	--
Ca5_P3_38516011	Ca5	38516011	CTATATATATATATATATATATATATA TAT/CTATATATATATATATATATATA TATATATATAT	AAAATTCTGCTCCATGT CGG	AACAAATTCAGCAACC TCCG	60.1	451	INTERGENIC	--	--	--
Ca5_P3_3865777	Ca5	3865777	CTTTTTTT/CTTTTTTTTT	ATGTGACACCCTAAAC CCCA	TTGGTTTAGAGGGGAT GTGAA	60.1	605	INTERGENIC	--	--	--
Ca5_P3_3869268	Ca5	3869268	AAATAATAATAATAATAATAATA/AA ATAATAATAATAATAATA	CCGCTACCAAGAAGAT CCAT	CCAAATTTGATGACAT GCAC	59.2	574	INTERGENIC	--	--	--
Ca5_P3_38755750	Ca5	38755750	TGGGG/TGGGGG	GAAGTTGAGCGCAATG TTGA	TTAAGACGGGTGATGG AAGC	60.0	528	INTERGENIC	--	--	--
Ca5_P3_38755924	Ca5	38755924	TAAAA/TAAA	GTCTGCCACATCACCC TTTT	CGGATCAACTTTTCTTT GTGG	60.0	661	INTERGENIC	--	--	--
Ca5_P3_38790519	Ca5	38790519	ATTTTTATTTTTTATTTTTT/ATTTTTAT TTTTT	ATTGACCAGTTGAAGC CTGG	CAGGTGTGGTGATGAA GTGG	60.1	708	DRR	Ca_07429	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 (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
Ca5_P3_3887629	Ca5	3887629	AATATATATATATATATATAT/AATAT ATATATATATATATAT	CACGTTTCAAGAGTGC GAAG	TTTGAGAGGCATTTT GATGG	59.6	680	INTERGENIC	--	--	--
Ca5_P3_39188187	Ca5	39188187	ATATCT/AT	GCTTGCTTGGACAAAT GACA	TCACAAAGTTTGTGTTT GTGTGG	59.8	655	INTERGENIC	--	--	--
Ca5_P3_39188975	Ca5	39188975	TTATATATATATATATAT/TTATATAT ATATATATAT	GAGGGAAAAATATGTG TCACGA	CCCAAAGTTGGTTGCA AAAC	59.0	580	INTERGENIC	--	--	--
Ca5_P3_39340722	Ca5	39340722	C/CT	CAATTTGCGTATGCATG GAG	AATGCGGACATTTTCT TTGG	60.1	496	INTERGENIC	--	--	--
Ca5_P3_39360163	Ca5	39360163	CNNNNNNNNN/CNNNNNNN	TCCGAACGAAGCTAAC ATCA	TTGAACAAGAATTTGT GGCG	59.4	695	INTERGENIC	--	--	--
Ca5_P3_39362210	Ca5	39362210	TG/T	AAAAATCCGCAGGAAC ACAC	CATCAGGTTGTTGCAT GGAG	60.0	747	INTERGENIC	--	--	--
Ca5_P3_39449601	Ca5	39449601	AATATATATATATATATAT/AATAT ATATATATATATAT	AGCCTTTAGGAATGAC CCGT	GTCAAACTTTGTGGTG CCAA	60.0	753	INTERGENIC	--	--	--
Ca5_P3_39537232	Ca5	39537232	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATAT ATATATATA	TTGGCAACCAGTCAAC AAAA	CACGTGAGAAAACCTC GACA	60.1	473	INTERGENIC	--	--	--
Ca5_P3_39557215	Ca5	39557215	GATATATATATATATATAT/GATATAT ATATATATATATATAT	GCAAAAAGGGGCACAA TAAA	AATGTCAATCCTCCATT GCC	59.9	357	INTRON	Ca_07489	TBLD	--
Ca5_P3_39569272	Ca5	39569272	ACTCTNNNNNNNNNNCTCT/ACT CTT	TAGACAAGCCCATTTCC AGG	TTCATGCAACATTGG TGCT	60.1	450	INTRON	Ca_07489	TBLD	--

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 (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
Ca5_P3_39630428	Ca5	39630428	TTATATATATATATATATATATA/TTA TATATATATATATATATA	GCGACAAAAGTGCATT TGAA	TGCTTGGGTTTAACAA AGGG	59.9	500	INTERGENIC	--	--	--
Ca5_P3_39668251	Ca5	39668251	GTAATAATAATAATAATAA/GTAATA ATAATAATAATAATAA	CGTTCCACTCCCAATAC ACC	TTTCGCACGTCTACTC AAACA	60.2	854	INTERGENIC	--	--	--
Ca5_P3_39783717	Ca5	39783717	AATATATATATATATATAT/AAATATAT ATATATATATAT	GCCTTTGTTTCAGTTGC CAT	CCGCTAATTGACGGA AAAA	60.1	890	INTERGENIC	--	--	--
Ca5_P3_39793489	Ca5	39793489	CAAAAAAAAA/CAAAAAAAAA	AGGGCACTTTGTCTCC TCAA	ACCAATCGATGGAAT GACC	59.8	529	DRR	Ca_07506	S	bZIP
Ca5_P3_39815597	Ca5	39815597	AATATATATATATATATAT/AAATATAT ATATATATATATAT	TGGTCACATGGACATT GCT	TCTTGGTTTACTCCAA CGACA	60.0	637	INTRON	Ca_07507	E	--
Ca5_P3_39918314	Ca5	39918314	TTTC/TTTCATATTCTTC	TCCATTTCACTCTCCA CCC	AGTTGCACACGTTGTG GTGT	59.9	756	INTERGENIC	--	--	--
Ca5_P3_39929111	Ca5	39929111	AAATAATAATAATAATAATAA/A AATAATAATAATAATAATAATAA A	GACCAATGAAGGCCA AAAA	AGGTCGCTGGTCAGAT ATGC	59.9	701	INTERGENIC	--	--	--
Ca5_P3_39932205	Ca5	39932205	CTTTTTTTTTTT/CTTTTTTTTTTT	AAGTACGAAGCCCATG TTGG	GGGAGATGTGGTTCA AAAA	60.0	603	INTERGENIC	--	--	--
Ca5_P3_39936599	Ca5	39936599	GAAAAAAAAA/GAAAAAAAAA	GAAGTGGATTGTTGG TTGG	CATTCCATGCCCAT AAAT	60.2	968	INTERGENIC	--	--	--
Ca5_P3_40297526	Ca5	40297526	GAGAAGAAGA/GAGAAGAAGA AGA	AAGGATGATGGTGAGA AGGT	TGCATCCCTGCAAATA CAAA	59.8	261	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
Ca5_P3_40391178	Ca5	40391178	TTATATATATATATATATATAT/TTATAT ATATATATATATAT	CCTAAGCACCGTTTCG TCAT	TGAAAGATTTTAATGC CCCAA	60.1	695	INTERGENIC	--	--	--
Ca5_P3_40392907	Ca5	40392907	GTATATATATATATATATATATATAT ATATAT/GTATATATATATATATATAT ATATATAT	GCATTATCACGAGCAA CACG	TCAATGTGGTTCGCAA AAGA	60.3	192	INTERGENIC	--	--	--
Ca5_P3_40434180	Ca5	40434180	A/ACATCTG	TTTCACCCAGTAGGAG GTCG	TGAACCGGAAGAACCT CAAC	60.1	500	INTERGENIC	--	--	--
Ca5_P3_40471737	Ca5	40471737	CTTTTTTTTT/CTTTTTTTTT	TGATTTTCCCTGTGCAT CAA	AATGTGGCAAAGGATT CCAG	60.0	757	DRR	Ca_07567	--	--
Ca5_P3_40512625	Ca5	40512625	GTATATATATATATA/GTATATATATA TATA	ATTTCCGTATCGTCAAT GCC	TGCGGACAAAATTCOA AACA	59.8	626	INTERGENIC	--	--	--
Ca5_P3_40572884	Ca5	40572884	ATTTTTTTT/ATTTTTTT	TTAGAGGAGCCACGTA AGCC	CCCTAGCCACTTTCTC TCCC	59.5	584	INTERGENIC	--	--	--
Ca5_P3_40588242	Ca5	40588242	CAAAAAAAAA/CAAAAAAAAAA	ATCGCGAAAGTAGTCC TCCA	GCTCCCACTCTTCC TCTG	59.8	642	DRR	Ca_07577	O	--
Ca5_P3_4064742	Ca5	4064742	G/GC	TATGTTTGTTTGCCGT CCA	AGGATGTACATTCTT GCGG	60.0	375	INTERGENIC	--	--	--
Ca5_P3_40655426	Ca5	40655426	GTTTTTTTTTTTTTTTTTTTTT/GTTT TTTTTTTTTTTTTTTTTTTT	TGGCAGATGATGCTGT TAGC	CGTACCTACACCCATA CCCG	60.0	185	INTERGENIC	--	--	--
Ca5_P3_40747443	Ca5	40747443	C/CT	TTGCAGAGAAAGAAA CTTGATATG	TGTGGAAGTTCCTAAA ATACGC	59.0	237	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 (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
Ca5_P3_40781378	Ca5	40781378	TTATATATATATATATATATATATATA TA/TTATATATATATATATATATATATA ATA	TAAACAGGCCAGGCCA TAAG	AGCCCGAAGACACTCG TCTA	60.1	416	INTRON	Ca_07597	R	--
Ca5_P3_40858234	Ca5	40858234	GATATATATATATATATATATATATA TATATATATA/GATATATATATATATATA TATATATATATATATATATATATATA	AGGCATGGTGTGGAG TCAT	TCCGACAAGGAGAATA ACCG	60.4	650	DRR	Ca_07607	K	M-type
Ca5_P3_40868817	Ca5	40868817	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTA/TTTATT ATTATTATTATTATTATTATTATTAT TATTATTATTA	CAGAGGCGTTTGTGA TGGA	GATTTAGATGGCTGTC GGGA	59.7	622	INTERGENIC	--	--	--
Ca5_P3_41056125	Ca5	41056125	TAAAAAAAAA/TAAAAAAAAA	GCACTCAGCATAGGTT TCGC	GTAGCTCACGATTTCG TTCC	60.9	454	INTRON	Ca_07624	I	NF-YC
Ca5_P3_41108441	Ca5	41108441	GTTTTTTTTTTT/GTTTTTTTTTTT	GGAGCGGAAAAGACTG AAAA	TTTTGTCTATGCGCAC AAGG	59.4	586	INTERGENIC	--	--	--
Ca5_P3_41179556	Ca5	41179556	AAG/AAAGAGTGTGAAAAGAG	GACTCAATGCAGATGG GGTT	GTCCCACCTGCAAA AGGA	59.9	596	INTRON	Ca_07636	--	--
Ca5_P3_41190334	Ca5	41190334	A/ATT	ACAACAAATTTTGGCC GAC	TGTCGGAACTTTTCC TTTG	59.8	590	INTERGENIC	--	--	--
Ca5_P3_41207521	Ca5	41207521	CATAAATATA/CATA	TGGTTGGTAGGCAAGG TTGT	TGTTGGAGATGGAAGG AAGG	60.4	368	INTERGENIC	--	--	--
Ca5_P3_41267150	Ca5	41267150	TTAATAATAATAATAATAATAATAA TAATAATAATAA/TTAATAATAATAATAA TAATAATAATAATAATAATAATAAT AA	GTGACGAGGTGTGTCA CCG	AAGTCGCCATTTGCAA AAAC	61.3	456	INTERGENIC	--	--	--
Ca5_P3_41351134	Ca5	41351134	TNNNNNNNNNN/TGGTTAGGGAAAGAN NNNNNNNNN	TTGCGAAGAATGGTGT GAAG	CCGACAACCCTACGAC AACT	59.8	587	DRR	Ca_19240	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	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
Ca5_P3_41428807	Ca5	41428807	TTATATATATATATATATATATATATA TATATATATATATAT/TTATATATATATA TATATATATATATATATATATATATAT ATATAT	TGAATTGAGTTTGTTG ATTTGA	AAAGGATGCAGTATGG GTTTTT	59.5	591	INTERGENIC	--	--	--
Ca5_P3_41455567	Ca5	41455567	AATATATATATATATATATATATATAT A/AATATATATATATATATATATATA	TTGCCACTTGATACAGC AAAA	TGCATGTTGAAACACC GACT	59.4	757	INTERGENIC	--	--	--
Ca5_P3_41463439	Ca5	41463439	CTT/CTTGATATT	CACGACATTTGTGCCA TCT	ATGTGTTTGCAAAATC GCAG	59.6	532	INTERGENIC	--	--	--
Ca5_P3_41467556	Ca5	41467556	TA/TAA	AAAGGATGCAGTATGG GTTTTT	TCACTTGGGTGGAAAA ATGAG	58.9	453	INTERGENIC	--	--	--
Ca5_P3_41467895	Ca5	41467895	TA/TAA	CTCATTTTTCCACCCA GTGA	AGCGACAAGATGAAAG CTCC	60.0	529	INTERGENIC	--	--	--
Ca5_P3_41467907	Ca5	41467907	AATTATTATTATTATTATTAT/AATTATT ATTATTATTATTATTAT	CTCATTTTTCCACCCA GTGA	AGCGACAAGATGAAAG CTCC	60.0	529	INTERGENIC	--	--	--
Ca5_P3_41477742	Ca5	41477742	CAA/CAAA	TGAGGCAAGCATGTGT AAGC	AATGTGCATGAGAGGC TGTC	60.0	223	DRR	Ca_19232	B	MYB_related
Ca5_P3_4164578	Ca5	4164578	GTATATATATATATATATATATATAT/ GTATATATATATATATATATATAT	GCCTTGGGTTTCAATTC TCA	AATCCCCAACCCAAA ACCT	60.1	520	INTERGENIC	--	--	--
Ca5_P3_41678103	Ca5	41678103	TCT/TCTTCCCTTAAAGGGACT	CAGTGGGTCTCTTCC ACAT	CCCGAECTCTGTTAC TCCA	60.0	551	INTRON	Ca_19215	J	C3H
Ca5_P3_41765343	Ca5	41765343	GAAAAAAAAA/GAAAAAAAAA	TCACGCTGTTCACCTTT CTG	GATGCCCAACCGTAGT TGTC	60.0	806	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	INDeIs (<i>Kabuli</i> reference genome-CDC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected 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_P3_41789237	Ca5	41789237	GAAAA/GAAAAA	TAAATCAAACGAACACG GCA	TTCCTTTAAATGGGTC ACGC	60.1	625	INTERGENIC	--	--	--
Ca5_P3_4179599	Ca5	4179599	GATATATATATAT/GATATATATAT	CGGTTTAGGGATTGGG TTTT	TCGATTGAGTCTTTTG CACTT	60.0	166	INTERGENIC	--	--	--
Ca5_P3_4180242	Ca5	4180242	AGGTTTAGGGTTTAGGGTTT/AGGTTT AGGGTTTAGGGTTTAGGGTTT	GGGTTTGGGGTTTAA GTTT	TCCATTTCTGCTTTTGC ACTT	59.1	321	INTERGENIC	--	--	--
Ca5_P3_4182020	Ca5	4182020	AGTTTAGGGTTTAGGGTTTAGGGTTTA GAATTTAGGGTTTAGGTTT TAGGGTTT AGGGATTAGGGTTTAGGGTTTAAGGT TTAGGCTTTAAGGTTTAGGGTTTAGGG TTTAAGGTTTAGGGTTTAGGGTTTAGG GTTTAGGCTTTAGGGTTTAGGGTTT	GGGTTTGGGGTTTACG GTTT	TCGAATCCATTTCTGTC TTTTG	60.0	583	INTERGENIC	--	--	--
Ca5_P3_41858516	Ca5	41858516	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATA TATATATATAT	AGCAATGAACAACGCA TCAA	AAGGCATCATCATTTG AGAAAGA	60.3	614	INTERGENIC	--	--	--
Ca5_P3_41860187	Ca5	41860187	TAAGAAAG/TAAGAAAGAAAG	ACAGAAACCACAGTCG CACA	ACTTTAGCAACCACCG CTTC	60.4	318	INTERGENIC	--	--	--
Ca5_P3_41955510	Ca5	41955510	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT/ATATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT	TTAAATAGGGCGGTGG TTGA	TAATTCACCTCCACAT GCCA	60.3	828	DRR	Ca_11417	R	--
Ca5_P3_41962522	Ca5	41962522	TA/TGATAACCAAA	ATGTTGGGCTTTGGAG TGTC	AGACACGCAAATTATT GCCC	60.0	381	INTERGENIC	--	--	--
Ca5_P3_4212019	Ca5	4212019	CATATATATATATATATATA/CATATA TATATATATATATA	GGTGCTTCTTTCTCGAA CCA	AGAGAGGCAGCCAGAA TCAA	60.4	760	INTERGENIC	--	--	--
Ca5_P3_4213008	Ca5	4213008	TTACTACTAT/TTACTACTATACTA T	TTTCAATTTTGCCTCTG CTG	AGGAGCAACGGAACGT CTAA	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 (°C)	Expected 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_P3_42231500	Ca5	42231500	CC/CCGAGAACGTAC	TCAAAATCCACCCCCA CTT	GCCATCTCCAATAGCA CCAT	60.2	888	INTERGENIC	--	--	--
Ca5_P3_42235939	Ca5	42235939	CATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT/ CATTATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT ATT	ATGAGTGAGGGCAAAG GTTG	TTCTTTACATGGGCCA AACC	60.1	431	INTERGENIC	--	--	--
Ca5_P3_422839	Ca5	422839	GTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAA/GTAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA A	GCCATGGCTTCAAAT CTTC	TGAGAGCACGATTTC CCCT	59.7	625	INTERGENIC	--	--	--
Ca5_P3_42303599	Ca5	42303599	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATATA TAT	GGTGGATATTGGTGTA GCCG	TGCACAATAATTGGA CGGT	60.2	422	INTERGENIC	--	--	--
Ca5_P3_42353503	Ca5	42353503	TAAAAAAAAA/TAAAAAAAAA	TTTTTCAGCGACAAAT AATACTCA	CGGACAACAAAATTG CTCA	59.3	741	INTERGENIC	--	--	--
Ca5_P3_42425779	Ca5	42425779	CATGTTTTATGTTTA/CATGTTT	TCAATGGAATGGAGTC GTCA	CGACAATTTCAATTCC GTCC	60.0	749	INTERGENIC	--	--	--
Ca5_P3_42427467	Ca5	42427467	ATTATAT/A	CAACTGATCGGAGTGG GATT	AAATCCTTAAGATCGG CGGT	59.9	618	DRR	Ca_11375	--	--
Ca5_P3_42427494	Ca5	42427494	ATATATCT/AT	GTGTTGCTGGTGTCAA GGAA	AAATCCTTAAGATCGG CGGT	59.7	401	DRR	Ca_11375	--	--
Ca5_P3_4244924	Ca5	4244924	TTTAGGGTTTAGGGATTAGGGTTTAG GG/TTTAGGGTTTAGGGATTAGGGTTT AGGGATTAGGGTTTAGGG	TTAGGGTTTAGGGTTT GGGG	GCATTGATTAAACAAA AACGGA	60.0	142	INTERGENIC	--	--	--
Ca5_P3_42557966	Ca5	42557966	TAAAAA/TAAAAA	TGAAAGTGCATGTGAC CGAT	CACAAACCAACGTGGA AGTG	60.1	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 (°C)	Expected 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_P3_42720218	Ca5	42720218	T/TG	AAAGGTTTGGATGTCG ATGC	AGCAAAATCCAGAAAA GCCA	59.9	675	DRR	Ca_11339	J	--
Ca5_P3_4273567	Ca5	4273567	CTATATATATATATAT/CTATATATAT ATATATATAT	TTGGAAGGAGCCCTTA CCTT	CGATTGAGGACCAAGG ATGT	60.1	908	INTERGENIC	--	--	--
Ca5_P3_42822040	Ca5	42822040	AGCGNNNNNNNNNGCG/AGCG	TCCATTGCAGTCAGCA ACTC	GCTTGGTCCTAGAAGA TGCG	60.0	433	INTRON	Ca_11327	R	MYB
Ca5_P3_42826985	Ca5	42826985	TAAAAAAAAA/TAAAAAAAAA	AACAATTATGTGATGTG ATGAAC TTG	CGTTTAATCGCGACTA GGTTG	59.3	492	INTERGENIC	--	--	--
Ca5_P3_42827434	Ca5	42827434	CAAAAAAAAAATAAA/CAAAAAAAAAATAAA AAAAATAAA	TCGCGATTAAACGACTA AATCA	GCACCAGAAAATCTTG AGGC	59.8	372	INTERGENIC	--	--	--
Ca5_P3_42901533	Ca5	42901533	TA/TAGGTAAGAAAAATGA	ATTGCCATAACACAGA GGGC	CGGTCCGACTTTCACA TTTA	60.0	776	INTERGENIC	--	--	--
Ca5_P3_42975249	Ca5	42975249	CTTATTATTATTATTATTATTATTAT TATT/CTTATTATTATTATTATTATT ATTATT	TCTGATGAGTTGCTTGT GCC	GGCCGCAATTATTGTT TTGT	60.0	528	INTERGENIC	--	--	--
Ca5_P3_4302445	Ca5	4302445	TA/T	AGGCAATGCAATCCGA TAAG	AGCTTACCATCCACAA ACGG	60.1	502	INTERGENIC	--	--	--
Ca5_P3_432048	Ca5	432048	ACC/AC	AGAACCACCTGAAATG CCAC	CTTCCTCCTCCAAATC ACCA	60.0	734	DRR	Ca_18195	R	HD-ZIP
Ca5_P3_43298677	Ca5	43298677	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATAT A	TCAAATTTGCAAAGACA GATTTTC	TTTTGGTGTCACCTAA GAGTGGAA	59.7	893	DRR	Ca_12727	--	--

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 (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
Ca5_P3_43299130	Ca5	43299130	TC/T	TTGGTTTACGAATTTTA TGGTGAA	CTGCATAGGCAGGGTG GTAG	59.7	385	DRR	Ca_12727	--	--
Ca5_P3_43319730	Ca5	43319730	GAAAAAAAA/GAAAAAAAAA	TGCGATTGTGGGAAAT ATCA	GCTTCAAGGTCAGGTC AAGC	59.9	860	INTERGENIC	--	--	--
Ca5_P3_43446181	Ca5	43446181	ATTTTTTTTT/ATTTTTTTTT	TTGGGATTGGACTGTT GTCA	AGGACAATCATGCTGC CTCT	59.9	564	DRR	Ca_12710	--	--
Ca5_P3_43456554	Ca5	43456554	TTCTTGGGCAGTCTTGGGCAG/TTCTT GGGCAGTCTTGGGCAGTCTTGGGCAG	TCTGGATGATAATTTCC GGC	TTGAATTCACCTTTGAC CCC	59.9	520	INTRON	Ca_12708	O	MYB
Ca5_P3_43459935	Ca5	43459935	TA/T	TGTTGTGTTGGGAAT GGAA	CCTTCCATTTTAATGA ATGAACC	60.0	680	INTERGENIC	--	--	--
Ca5_P3_43492544	Ca5	43492544	ATTTTTTTTT/ATTTTTTTTT	GCCACAATTCCCGAAG TAAA	AGATGAAGTTGCACAT GGTGA	59.9	408	INTERGENIC	--	--	--
Ca5_P3_435121	Ca5	435121	CA/CAAA	TGCAAATCAGGTGATC CAAA	CAGCAACCACAATTCA ACTCA	60.0	497	DRR	Ca_18196	--	--
Ca5_P3_43517939	Ca5	43517939	AATATATATATATATATATATA/AATA TATATATATATATATATATA	TGAGATGTTCACTACTG CGTTG	AATTTTGCGGCCAAG TATG	58.8	876	INTERGENIC	--	--	--
Ca5_P3_43659116	Ca5	43659116	TA/TAA	AATGGACCCACCTTTCT TCC	CTGGAGCGAAGGTGA GAAC	60.2	303	INTRON	Ca_12686	G	--
Ca5_P3_43761974	Ca5	43761974	TT/TTGAT	GCCATCTCTAAATTGAT TGGG	GATCCATGACATGATT GGCA	58.5	583	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
Ca5_P3_43796946	Ca5	43796946	TTTATTATTATTATTATTATTATCAT TATTATTATTATCATTATTATTATTATTA TTATTATTATT/TTTATTATTATTATTATT ATTATTATTATCATTATTATTATTCAT TATTATTATTATTATTATTATTATT	AGCCTGTACGCAAAA GCAT	GGATAACGCGGAGGTA TTGA	59.9	668	INTERGENIC	--	--	--
Ca5_P3_438333	Ca5	438333	T/TCGA	TAAAGCTGGATGGTA CCCG	GTGGTGGCTGCCATTC TTAT	60.0	110	INTRON	Ca_18196	--	--
Ca5_P3_43847991	Ca5	43847991	GT/GTGTGTGTGTCT	GGAACTCGTTTTTGA GTGGA	TGTCAATGTGCCAAG TATCG	59.2	679	INTERGENIC	--	--	--
Ca5_P3_4389089	Ca5	4389089	ATTTTTTTTT/ATTTTTTTTTTTTTTTT TTT	TTTACCACCTGGAGTTG GGC	TCCTTTGCTAGCCCTT TTGA	60.0	392	INTERGENIC	--	--	--
Ca5_P3_43916587	Ca5	43916587	ATTTTTTTTTTTTT/ATTTTTTTTTTTTTT	TGAAGCTTGGCAGAT GATG	TTGAAGGACTGGACG TAGC	59.9	622	INTERGENIC	--	--	--
Ca5_P3_43918951	Ca5	43918951	CTTTT/CTTT	TTGCAAGGTAAAAAGC ACGA	ACGATGCCCCATACAA TGAT	59.5	783	INTERGENIC	--	--	--
Ca5_P3_43919096	Ca5	43919096	ATTTT/ATTTT	TGCTGCTTGATATACG GTGG	ACGATGCCCCATACAA TGAT	59.7	441	INTERGENIC	--	--	--
Ca5_P3_43921147	Ca5	43921147	CTATA/CTATATA	TGGGACCAACATGTG AAGA	TCTAATTGTTTTGATTT ATCCCTCA	59.9	583	INTERGENIC	--	--	--
Ca5_P3_43925403	Ca5	43925403	TAAAAAAAAA/TAAAAAAAAA	TCCCATCAACCATAGC CTTC	AGAACCATCAATTGT CGCA	59.9	561	INTERGENIC	--	--	--
Ca5_P3_440231	Ca5	440231	ATTTTTTTTT/ATTTTTTTTTT	GGGATTTTGTGGCG TCTA	CATCGACACGGAAAT TGAA	59.9	868	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 (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
Ca5_P3_44086162	Ca5	44086162	CTTTTTTTTT/CTTTTTTTTT	CGGGTCAACTTTGATA GACGA	GATGTGCCGTGAAAC AATG	60.1	594	INTERGENIC	--	--	--
Ca5_P3_44089107	Ca5	44089107	AAATAATAATAATAATAATAATAAT AATAATAATAA/AAATAATAATAATA ATAATAATAATAATAA	GCTTGTAGCTAGGCTC GACTC	TTTGGGGGCAAAGTTG ATAA	58.5	630	INTERGENIC	--	--	--
Ca5_P3_44090754	Ca5	44090754	TAAAAAAAA/TAAAAAAAA	TCGTTTCTCCATAAAAG AGCC	CACAAGTCCTATTGGT GGGG	58.5	349	INTERGENIC	--	--	--
Ca5_P3_44177714	Ca5	44177714	GTATATATATATATATAT/GTATATATAT ATATATATATAT	GGTCACGAACATCCCA AAAT	CCATGGTGAGAGGGTC AAAT	59.7	377	INTERGENIC	--	--	--
Ca5_P3_44189157	Ca5	44189157	CATATATATATATATATATATATAT/C ATATATATATATATATATATATATATA TATAT	AATGGGAGAAAGGAGG GAGA	GTGTTTGGATTTTGG CTCG	60.0	435	INTERGENIC	--	--	--
Ca5_P3_44194778	Ca5	44194778	TTTATT/TTT	TCCTAGAACATGCATCA CGC	AGCCTCTTTGAGTCTT GCCA	59.8	539	INTERGENIC	--	--	--
Ca5_P3_44209005	Ca5	44209005	TC/T	TCAAATGATGATGTCTT ATTTTGA	TCATTCATCGATTGAT TCTGTG	59.0	348	INTERGENIC	--	--	--
Ca5_P3_44212939	Ca5	44212939	CAA/CAAA	ATTCCAAACCAAAACCC TCC	AATGTTTTGCGAGAAA ACCG	60.0	638	INTERGENIC	--	--	--
Ca5_P3_44239225	Ca5	44239225	GCC/G	AGCGTTTCTCTTGATT GGAA	TCCACAATGGGATGGA ATTT	59.8	141	INTERGENIC	--	--	--
Ca5_P3_44244007	Ca5	44244007	A/AG	CTTGGTTGGTGATGCA TTTG	TGTTGTTGGTTTGTG CCAT	60.0	833	INTRON	Ca_03869	P	--

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 (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
Ca5_P3_44244203	Ca5	44244203	AA/AATTTAGA	CAATGAACACATTGGCC ACC	GGACGATCAAGCTCAA CCAT	59.8	747	INTRON	Ca_03869	P	--
Ca5_P3_44265725	Ca5	44265725	CAAAAAAAAA/CAAAAAAAAA	AGGAGTTGGGTGGAT CCTT	CCGACCCTAAACCCGA AATA	59.8	326	DRR	Ca_03872	D	M-type
Ca5_P3_44407311	Ca5	44407311	ATTTTTTTTTTT/ATTTTTTTTTTTT	TATGGAACCATCTTCCT CGG	CTAATTATTGGCCCA ACCC	59.9	532	DRR	Ca_03888	O	MYB_related
Ca5_P3_44420124	Ca5	44420124	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT/ATATTAT TATTATTATTATTATTATTATTATTA TTATTATT	CACCCACATCCAGGTA GCTT	CAACTCACCCATGCAT TACG	60.0	391	INTRON	Ca_03889	U	FAR1
Ca5_P3_445610	Ca5	445610	GCCC/GCCCC	ACAGTGGCTTCAATTCC CAC	CCAGCCAAATAGCTGG AATG	60.0	336	INTERGENIC	--	--	--
Ca5_P3_44565619	Ca5	44565619	TAAAA/TAAAA	AGATGATGCTTTAGGG AAGAAA	TGGGACCGAATCAAAA AGAA	57.2	153	INTERGENIC	--	--	--
Ca5_P3_44581064	Ca5	44581064	CAGA/CA	AAAACCGGGTTGTAAG GTGA	GTCCAGATTGGGCAAT CAAT	59.3	550	INTRON	Ca_03901	U	--
Ca5_P3_44596809	Ca5	44596809	ATT/ATT	TTGGCACATGCATTTT GTT	GACCAATCTTGTGT TGCAGA	60.0	582	INTERGENIC	--	--	--
Ca5_P3_44597015	Ca5	44597015	CAAAA/CAAAAA	TTGGCACATGCATTTT GTT	AGCTATGTCCACTCGT TCGC	60.0	944	INTERGENIC	--	--	--
Ca5_P3_44597112	Ca5	44597112	CTATA/CTATATATA	GGGGTTAGTGCAAGCC AAAT	GTTCGCACGTGATGAA CAAT	61.2	862	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	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
Ca5_P3_44707178	Ca5	44707178	TCC/TCCC	CCCTAACTTTCCCATCTCCC	GTTGAGTTTGCCCCATTTGT	59.8	131	INTERGENIC	--	--	--
Ca5_P3_44914869	Ca5	44914869	TTATATATATATATATATATATATA/TATATATATATATATATATATATATA	TTTCGAGCAATCTCATCCCT	CGGCAGCTTTTTACTACCCA	59.8	759	INTERGENIC	--	--	--
Ca5_P3_45041530	Ca5	45041530	ATTTTTTTTT/ATTTTTTTTTT	GCCCCAATTAATGCAAAAA	AAAACCCTAGATGGGTGGG	59.9	636	INTERGENIC	--	--	--
Ca5_P3_45074327	Ca5	45074327	TAT/TATAATAAT	GCCTAAGACGGTGAATCGAA	AGCTCGGTAGAAAGTCGCTG	60.2	585	INTERGENIC	--	--	--
Ca5_P3_45082437	Ca5	45082437	TAAAAAAAAA/TAAAAAAAAA	TTTTTGTAGGTAATTACGTCGTT	GCCCAATACTCATCACTCGC	59.1	796	INTERGENIC	--	--	--
Ca5_P3_45086826	Ca5	45086826	TA/TAA	CAAACGCCAAATTAACACAAA	AATACAGCTGGGTTTGTGGC	60.0	367	INTERGENIC	--	--	--
Ca5_P3_45087098	Ca5	45087098	C/CG	ATGAAGGAGGAGGGGAAGAAA	AATCCGTCACAAAGGCAGAC	60.0	237	INTERGENIC	--	--	--
Ca5_P3_45094101	Ca5	45094101	A/AG	TTCAATGAAAGCGCATGTGT	GAAAAGGGTTCGGATGATT	60.3	379	INTERGENIC	--	--	--
Ca5_P3_45094437	Ca5	45094437	TG/T	AATCCATCCGAACCTTTTC	TTGTCAATGTTGCATGTCTGAA	60.1	259	INTERGENIC	--	--	--
Ca5_P3_45103038	Ca5	45103038	AC/A	GTTCCCCAAATGCATCACTC	AAAAATGTTGGGGCAAAATG	60.3	243	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
Ca5_P3_45132493	Ca5	45132493	CATATATATATATATATA/CATATATATA TATATATATA	AATTCCTGCTCCGTT TGA	TCTACCAAAACCGTC CTGA	59.7	522	INTERGENIC	--	--	--
Ca5_P3_45372527	Ca5	45372527	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA /TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTA	CCCAGTGTACCGTCT TTTT	TTACACAAATGTCCA CCAA	60.0	537	INTERGENIC	--	--	--
Ca5_P3_4542302	Ca5	4542302	G/GC	GGGGTGTGCAACCTT TAGA	GCTGTCCGCGTAAC CTTC	60.0	336	INTERGENIC	--	--	--
Ca5_P3_4543921	Ca5	4543921	ATT/ATTT	TTCGCAACTCCACTCTT CCT	TCCTGGGCTTAATTCA ATCG	60.0	588	INTERGENIC	--	--	--
Ca5_P3_45511101	Ca5	45511101	TA/TAA	CAAGTTTCTCTTTCGC TGC	CTCAAATTGGTCCCT GAAA	60.1	539	INTRON	Ca_03998	T	--
Ca5_P3_45518520	Ca5	45518520	TA/T	ATGGATGGTGACAAGC ATGA	ACAATGAAACATTTGG GGGA	59.9	685	INTERGENIC	--	--	--
Ca5_P3_45548755	Ca5	45548755	TATAATAATAATAATAATAATAATA ATAATAAT/TATAATAATAATAATAAA TAATAATAAT	TAACTGCAACAGATGG TCGC	TTCAACATTTTGACACA TTTCTTT	59.9	436	INTERGENIC	--	--	--
Ca5_P3_45557067	Ca5	45557067	CATATATATATATATATATATATAT /CATATATATATATATATAT	CAATGAAAAAGTGTGG CCCT	ACGTTGATGGAACAAT GCCT	60.0	873	INTERGENIC	--	--	--
Ca5_P3_45569629	Ca5	45569629	TAA/TAAAA	TCCCTCGACTACCTCC CTTC	GGCAAATGTTGATAAG TGCTCA	60.6	749	INTERGENIC	--	--	--
Ca5_P3_4557985	Ca5	4557985	AATATATATATATATATATATATAT ATATATATAT/AATATATATATATATA TATATATATATATATATATATAT	TTTTTATGCGAGTGGCT TCA	TCCCCTTGGTTTGAGA GAGA	59.4	848	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 (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
Ca5_P3_45616614	Ca5	45616614	CTATATATATATATATATATATA/CTA TATATATATATATATATATA	GAGGCCATGAAGAAGA ATGC	TGAAACCATTTCACCA CCAA	59.8	543	INTERGENIC	--	--	--
Ca5_P3_456204	Ca5	456204	TAAAAAAAAAAAAA/TAAAAAAAAAAA	TGCCTACAACCACACAT GCT	CGTTTTCCGATTCATG CTTT	60.2	685	INTERGENIC	--	--	--
Ca5_P3_45631363	Ca5	45631363	TAAAAAAAAAAAAA/TAAAAAAAAAAA	CAAAGTCGCACGAGAG TTCA	CGCCAAATTGCTGATT CTTT	60.2	848	INTERGENIC	--	--	--
Ca5_P3_45724530	Ca5	45724530	AATTATTATTATTATTATTATTATTA TTATTAT/AATTATTATTATTATTATTAT TATTATTATTATTATTAT	GCGGTTGAATAAATGT GACAAA	TAGTTGGAGGTGCTG ACCC	59.9	616	INTERGENIC	--	--	--
Ca5_P3_45746975	Ca5	45746975	ATT/ATTACACTCTTT	GGAGTTGCAAAAGAGC ATGA	TGTTTAACACTGGAGA GGGG	59.0	136	DRR	Ca_04024	G	--
Ca5_P3_45779614	Ca5	45779614	GAAAAAAAAA/GAAAAAAAAAAA	ACGCGGATCCATTCAA TAAG	GATGTTGAGTGAAAAC ACAAACG	59.9	546	INTERGENIC	--	--	--
Ca5_P3_45925212	Ca5	45925212	TAAAA/TAAA	ACAGAGCCAAACCCTC CTTT	AGCATCCCTTGTAAT TTGG	60.1	489	CDS (FRAME SHIFT)	Ca_04037	--	S1Fa-like
Ca5_P3_45928990	Ca5	45928990	CGTG/C	GATTGCAGGAGCAAGA TGGT	TGTATTTTGAGCATT GGAG	60.2	615	INTERGENIC	--	--	--
Ca5_P3_45975576	Ca5	45975576	GA/GAAATTGTTGAAAA	CCAAATTCTACCCGAA GAA	CAAAATGGGGCAGTTA AGGA	60.0	634	INTERGENIC	--	--	--
Ca5_P3_45989618	Ca5	45989618	TAAAAAAAAA/TAAAAAAAAAAA	TTGCTCCTCTGGTCCT CACT	GTTGGCTTTCGTACCC TCAA	60.0	325	INTRON	Ca_04045	--	SAP

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
Ca5_P3_46005575	Ca5	46005575	TTATATATATATATATATATATATATATATAT T/TTATATATATATATATATATATATATAT	CTCCGCATTTCAAGATT GTT	GCAAACGGTGTGTAGT GGTG	60.1	606	INTERGENIC	--	--	--
Ca5_P3_460106	Ca5	460106	ATTT/ATTTT	ACACATACCCAAAGGG ATGC	CCCCAGCAGTCGGTAA AATA	59.7	541	INTRON	Ca_18199	--	--
Ca5_P3_46132848	Ca5	46132848	TTTATTATTATTATTATTATTATTATTAT TATTATTATT/TTTATTATTATTATTATTA TTATTATTATTATTATT	TGTACCGTCACATTGCA CCT	TACTGTATCAACGCCG CAAG	60.0	771	INTERGENIC	--	--	--
Ca5_P3_46208612	Ca5	46208612	AAT/AATAT	ATGCAGCACAAAATGC AAGT	TTCGAATCTTATTTTGA CAATTTTT	59.4	502	INTERGENIC	--	--	--
Ca5_P3_46212141	Ca5	46212141	AATGATG/AATG	AAAAATCAATCCTTTCT CCAATG	AGTTTCAAAAACGGTG GTGG	58.6	107	INTERGENIC	--	--	--
Ca5_P3_46228817	Ca5	46228817	TGGGCAGGGGCAG/TGGGCAG	CGGAATGGACAGCCTA ATTT	GTGGTCTTGGAGCATT GGTT	59.0	557	CDS (large-effect mutations)	Ca_04075	S	--
Ca5_P3_46231130	Ca5	46231130	ATTTTTTTTT/ATTTTTTTT	GGAAGCCAAGCATTCA AGAG	TGGAAAAAGAATGAAA TTGCTTA	60.0	849	INTERGENIC	--	--	--
Ca5_P3_46271953	Ca5	46271953	TTTAAAT/TTTAAATTTAATT	CCATCAAATGTTGGTCA CTCC	ATTCATCTCGCCTTTG CTGT	60.2	352	INTERGENIC	--	--	--
Ca5_P3_46305506	Ca5	46305506	GATATATATATATATATATATATATATA TATATATAT/GATATATATATATATATAT ATATATATATATATATATATATATAT	TGCCCTCAATCTGAAAA CAA	GAACAAGAGCGGTCTC ACAA	59.2	876	DRR	Ca_04084	--	--
Ca5_P3_463852	Ca5	463852	CTTTTTTTTT/CTTTTTTTTTT	AAGCTGATCTGAGGTT CCGA	TTCGATAATTGATTCGT TGTACG	60.0	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 (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
Ca5_P3_46393868	Ca5	46393868	AG/AGTGATG	ACAGTTCAAAGTCCCT GGCA	TCAATCATTTAAAATTA CTCTGAATCG	60.7	561	INTERGENIC	--	--	--
Ca5_P3_46416403	Ca5	46416403	ATT/ATTT	ACCCTAGCAGCACCTC TTCA	CCCGTTAACAACGAAA GCAT	60.0	395	INTERGENIC	--	--	--
Ca5_P3_46417387	Ca5	46417387	GTTTTTTTTT/GTTTTTTTTT	AACTCGCACCTGCACC TAAT	AATTACAAATCGCCAC CTGC	59.8	684	INTERGENIC	--	--	--
Ca5_P3_46605106	Ca5	46605106	TAAAAAAAAA/TAAAAAAAAA	GCCTTGGCACCACAT CATT	AAGCGTTTTCTCGTCA GGAA	60.0	697	INTRON	Ca_04118	J	NAC
Ca5_P3_46636015	Ca5	46636015	A/AGACGAAAGAGCGTT	TGGTGGTCAGCGTATA CCAA	TGTGGTCGACAGATAC CCAA	60.0	346	INTERGENIC	--	--	--
Ca5_P3_46661039	Ca5	46661039	AATATATATATATATATATAT/AATAT ATATATATATATATATAT	TGGAATCAAGGGACC AAAA	ACTTGCAGATAATTT AGTAGGGA	60.3	863	INTERGENIC	--	--	--
Ca5_P3_46676212	Ca5	46676212	ATTTTTTTTT/ATTTTTTTTT	GCCACCACACCTCCAA CTAT	TTGAGATGGGACTTTG GAGC	59.9	880	INTERGENIC	--	--	--
Ca5_P3_46735071	Ca5	46735071	CATATATATATATATATATATATAT /CATATATATATATATATATAT	TTGATTGGGAATCAGC CATA	TGGCATGCATAACATC TGCT	59.9	712	INTRON	Ca_04131	A	--
Ca5_P3_4681704	Ca5	4681704	ATTTTTTTTT/ATTTTTTTTT	CCCCATTTGTTTCTCT CCA	CTTTATCATGCGATC CCCC	59.9	712	INTERGENIC	--	--	--
Ca5_P3_46946905	Ca5	46946905	AATATATATATATATAT/AATATATAT ATATATATAT	CATCCGTGGTCCTTG ACTT	TGGTCATTGCATTTTC CTCA	60.0	482	DRR	Ca_04149	K	ERF

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 (°C)	Expected 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_P3_46985054	Ca5	46985054	AATTATTATTATTATTATTATTATTA TTATTATTATTATT/AATTATTATTATTA TTATTATTATTATTATTATTATTATT ATT	TCGCATTTTAAAGGGAG GAAA	AGCAAGGAAGCATCAT CCAA	59.7	212	INTERGENIC	--	--	--
Ca5_P3_46995665	Ca5	46995665	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT/T TTATTATTATTATTATTATTATTATT ATTATTATTATTATT	TGTGCCAAAGCTGCAA ATCT	GCACAATATTTTCTTT GCACATT	59.9	636	INTERGENIC	--	--	--
Ca5_P3_47064195	Ca5	47064195	CAAAAAAAAA/CAAAAAAAAAA	CCGCTTCTACCTCTAG CCCT	AAATGCCCTCACACA CACA	60.0	587	INTERGENIC	--	--	--
Ca5_P3_471069	Ca5	471069	GAAATTAATTAATA/GAAATTAATTAATA TTAAA	GTGACACCCTCTCGTT GGTA	AACTGGGTGAGAGCCT GAGA	59.6	314	INTRON	Ca_18200	U	--
Ca5_P3_4733803	Ca5	4733803	GC/GTC	TGCATCCAATAGGTG GTTTG	AGGGAGGACGAAATG ACCT	59.5	460	INTERGENIC	--	--	--
Ca5_P3_47476526	Ca5	47476526	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	GGTTCTCAAATCTCCGA CCA	TGGGTCAATCTGACCT CATTT	60.1	678	INTERGENIC	--	--	--
Ca5_P3_47637472	Ca5	47637472	AATATATATATATATAT/AATATATATAT ATATATAT	TGGTTCTGCTCTGCTC CTTT	TGGTGGTAGTGGTGG TTGA	60.1	768	INTERGENIC	--	--	--
Ca5_P3_4768599	Ca5	4768599	GT/GTTGAGAAAT	TTTCTTCCCAACCTTCA TCG	TGAAAAGCTCATGGCT GATG	60.0	179	INTERGENIC	--	--	--
Ca5_P3_47689133	Ca5	47689133	GTATATATATATATATATATATA/GTA TATATATATATATATATATA	AGGAAATCCTCAGCCT GGTT	TTTTACTTGCCCATACC CCA	60.1	219	INTRON	Ca_04228	--	--
Ca5_P3_47692025	Ca5	47692025	ATTTTTTTTT/ATTTTTTTTT	CACCAAAAGCAGGGTC TCTC	GCCTTAAAGCTTTGGG TGAA	59.8	346	DRR	Ca_04228	--	--

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
Ca5_P3_47714017	Ca5	47714017	GATATATATATATATATATATATATA/ GATATATATATATATATATATATATA	ATGCGTGTGAAATTGT GCAT	TCAGCTCAGTGATGA TTGG	60.0	402	INTRON	Ca_04232	G	C2H2
Ca5_P3_47765685	Ca5	47765685	GTACT/GT	TTATTTTGTAGTGCCG GGG	GCCTGTTTGGTGGAG TGAT	59.8	121	INTERGENIC	--	--	--
Ca5_P3_479066	Ca5	479066	TAAAAAAAA/TAAAAAAAA	CCTGTTCTGTAGTGGG AGCC	TCCATGTTACTTCTCC GCCT	59.7	508	DRR	Ca_18200	U	--
Ca5_P3_479350	Ca5	479350	CATATATATATATA/CATATATATATA TATATA	TTGTACACAAATAAGCG GGA	TCATCACGATCTGAAT CCCA	60.1	674	DRR	Ca_18200	U	--
Ca5_P3_47999247	Ca5	47999247	ATTTTTTTTT/ATTTTTTTTTTT	TCCCTCGCTCTTTATTT CAA	TGACTGCATTTAATTTT CTCTTCAA	57.6	883	INTERGENIC	--	--	--
Ca5_P3_48017474	Ca5	48017474	ACCGCTACCCGCTAC/ACCGCTAC	CCTAGCCTTGAAGTA GCGA	GGGCTCGACATACTTT GCAT	59.6	479	INTRON	Ca_04261	R	--
Ca5_P3_48120820	Ca5	48120820	TAAAAAAAA/TAAAAAAAA	GAGAAACGTGAGGAAA AATTCA	TGTTGGGTTGGCCATA AAAT	58.4	959	INTERGENIC	--	--	--
Ca5_P3_48125139	Ca5	48125139	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATT	GGGACCAAACTGGAG ACAA	GCGATCAGCTGAAAC CACT	59.9	847	INTERGENIC	--	--	--
Ca5_P3_48154714	Ca5	48154714	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT/AT ATTATTATTATTATTATTATTATTAT TATTATTATTATTAT	AAGTAAGGGCCGAAT GAAC	GTTGGGCCACAATTAT ACGG	60.3	543	INTERGENIC	--	--	--
Ca5_P3_481685	Ca5	481685	CAAAAAAAAA/CAAAAAAAAA	TTGAGGGACCAAACT GGAG	GAGTTCGCTGACAGAT GCAA	60.1	191	DRR	Ca_18201	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PilI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_482095	Ca5	482095	GC/G	TTCATCTGTCAGCGA ACTC	TTTTTCGGGGTCAAA TGTA	60.1	800	DRR	Ca_18201	--	--
Ca5_P3_4844622	Ca5	4844622	CTATATATATATATATATATATATATA T/CTATATATATATATATATATATATA T	CTGTCCACAAGCGCT GTAA	TTGAATCCCACCAGGA AAAG	60.1	641	INTERGENIC	--	--	--
Ca5_P3_4857245	Ca5	4857245	GAAAA/GAAAAA	CCCACATTCTTTGGCA GTT	TGTGCCTAAACTTGCT GGTG	60.0	501	INTERGENIC	--	--	--
Ca5_P3_4860237	Ca5	4860237	GATAAATATATATATATATATATATA TATATATATATATATAT/GATATATAT ATATATATATATATATATAT	CTGCGCTTTATGCGTG TTTA	ATGGACCACGAGGTGT CATC	60.0	368	INTERGENIC	--	--	--
Ca5_P3_4869565	Ca5	4869565	GAAAAAAAA/GAAAAAAAAA	ATGCAAAATCGACAAT GAA	TGCAAGCAACTTGAGT CCAC	60.1	447	INTERGENIC	--	--	--
Ca5_P3_490277	Ca5	490277	TAAAAAAAAAAAA/TAAAAAAAAA	TGGTTGAAACATTCCCT ATGC	GAGCATATAGCCCAAC CCAA	59.8	695	DRR	Ca_18202	R	--
Ca5_P3_4921108	Ca5	4921108	TTAT/TTATATAT	ACATATCATGCAACCTG CGA	GGAGGATGTGGCATAG AGGA	60.1	320	INTERGENIC	--	--	--
Ca5_P3_4970490	Ca5	4970490	T/TG	ATTCTACGCGATTACC ACG	CCCCGTGATAGGCAGTA CGTT	60.0	528	INTERGENIC	--	--	--
Ca5_P3_497099	Ca5	497099	GAAAA/GAAA	TTGAGTGCAGCTGGAG AAGA	TCACTCAAAAACCAAG CACG	59.9	110	INTERGENIC	--	--	--
Ca5_P3_4979941	Ca5	4979941	GTTTTTTTTTTT/GTTTTTTTTTTT	GGCTGTTCATGGTTGG TTTT	GATGAGTGTTAACGGG TGGC	59.8	796	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 (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
Ca5_P3_4992401	Ca5	4992401	TTATATATATATATATATATATA/TTA TATATATATATATATATATATATA	ATCGATGTAGTCAAACC CCG	GCCCCGTGTTATCCT TATT	59.8	284	INTRON	Ca_25545	A	bHLH
Ca5_P3_5061240	Ca5	5061240	CTTTTTTTTT/CTTTTTTTTTT	CATGCAAACCCATTGT GAAG	AAAAAGAAGCGGTGA CAAA	60.0	845	INTERGENIC	--	--	--
Ca5_P3_5190851	Ca5	5190851	CTATATATATATATATATATAT/CTAT ATATATATATATATATATATAT	AGCGCTATGTGACCCT TTTG	AATGTGAATCCCACCA GGAA	60.3	555	INTERGENIC	--	--	--
Ca5_P3_5223462	Ca5	5223462	AATATATATATATATATATATATA/ AATATATATATATATATATATATAT ATATA	TTTCGAGTTTTCCGTC CAC	GTGCCAAGGCATAAAG GTGT	60.1	530	INTERGENIC	--	--	--
Ca5_P3_5262068	Ca5	5262068	CAAAAA/CAAAAA	TGCCATAATTCTGCATC CAA	TTTTCGAACTTGGGT TGTC	60.0	403	INTERGENIC	--	--	--
Ca5_P3_5318962	Ca5	5318962	TC/T	ACGTTGACCAATTCAG CTCC	CACTAGGGACCCTTTG GTGA	60.1	720	INTERGENIC	--	--	--
Ca5_P3_5492827	Ca5	5492827	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTAT/TTTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTAT	TATCCCCTCGATTGCT TCA	TTTTGCCTCAAAAAGTT TCACA	60.5	603	INTERGENIC	--	--	--
Ca5_P3_5582691	Ca5	5582691	AATATATATATATATATATATATAT /AATATATATATATATATATATATAT	CAACACCGTTTTCTCC GTT	GAATTGGGAATTGGAG AGCA	60.0	728	INTERGENIC	--	--	--
Ca5_P3_5602407	Ca5	5602407	CATATATATATATATATATATATATAT /CATATATATATATATATATATATATA TATATAT	GTTGGTCCCTAGCAC CGTA	CAATTGAGTTCGACG AGAG	60.0	552	INTERGENIC	--	--	--
Ca5_P3_5655437	Ca5	5655437	GTAATAAAATTT/GTAATAAAATTAATTA TAATAAATTT	CGAAACATTCGAAATG CAGA	TTCTATCACCCCCACA TTCG	59.8	628	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 (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
Ca5_P3_5705191	Ca5	5705191	GA/G	AATCGATTGGCTTTGAT TCG	CTCTCATCTGAGGGCA AAGC	60.0	412	INTERGENIC	--	--	--
Ca5_P3_577875	Ca5	577875	CG/CGG	CGTGTGCTTGCACTAC GTTT	ACCTATGGAGGACGCA AATG	60.0	632	INTERGENIC	--	--	--
Ca5_P3_5798731	Ca5	5798731	TTATATATATATATATATATATA/TTATA TATATATATATATATATATATATA	CTTCGACACTGTAGCA CCCA	ATATTTCTGCGCATTTCT CGC	59.9	217	INTERGENIC	--	--	--
Ca5_P3_5805706	Ca5	5805706	TAAAAAAAAA/TAAAAAAAAA	AAACCAATTGTGTCTAG CCCAT	TTTTTCACCCCTCTTTC CAA	59.8	767	INTERGENIC	--	--	--
Ca5_P3_5836817	Ca5	5836817	TACCCTAAACC/TACCCTAAACCCTAA CCCTAAACC	GTATGAGGAGGATCTT GCGG	TCAAAATGCACCATAAA CCG	59.7	594	INTERGENIC	--	--	--
Ca5_P3_5837067	Ca5	5837067	ACCTAAACCCTAAACCCTAAACCCTAA/ ACCTAAACCCTAAACCCTAA	AAAGAAAAACACTCGC GCTG	AGCGTTTTGGGTTTAG GGTT	60.6	825	INTERGENIC	--	--	--
Ca5_P3_5888717	Ca5	5888717	AATATATATATATATATATATATATAT ATA/AATATATATATATATATATATATAT ATATATATATATATA	TCTTGAGCTACTGGGG CTTG	CAAGTTTGAAATGGAG GGGA	60.5	882	INTERGENIC	--	--	--
Ca5_P3_5912049	Ca5	5912049	TAAATATACATCAAATATA/TAAATATAC ATCAAATATACATCAAATATA	TTTTTGTGTCTCACTT GATCA	CAGTGTTAATTGGCAC GAAA	58.4	276	INTERGENIC	--	--	--
Ca5_P3_6074643	Ca5	6074643	GATATATATATATA/GATATATATATA TA	AAATTAAAGTTTCAAAC CACGG	ATTCCCCTTCATCTT GGAC	57.3	864	INTERGENIC	--	--	--
Ca5_P3_6200121	Ca5	6200121	CT/CTT	TTCGCAACTCCACTCTT CCT	GATCCATTTTCCCCCA AATC	60.0	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 (°C)	Expected 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_P3_622630	Ca5	622630	GAAG/GAAGGAGTTTGTTC AAG	CATGCTTACCTCTGG CCTA	ACAGCAGAATGGGGTA GTGG	60.2	651	INTERGENIC	--	--	--
Ca5_P3_6269152	Ca5	6269152	AGGAAGTCGTTCCCTGGGGAAG/AGG AAG	GGGTTGCTTTTCTTCAC TGC	ACGACCCCTGTAAAC ATTG	59.9	360	INTERGENIC	--	--	--
Ca5_P3_6365922	Ca5	6365922	ATTTTTTTTT/ATTTTTTTTT	CAGGAATTTCCAGCAA CCAT	ATGCATGTGGTGAGA AAAA	59.9	943	INTERGENIC	--	--	--
Ca5_P3_6369660	Ca5	6369660	TC/TCAC	GAGGAAACACGGTGAA TG GT	CGCTACTAGTCGAAC GAGA	59.8	486	INTERGENIC	--	--	--
Ca5_P3_6432371	Ca5	6432371	TAAAAAAAAA/TAAAAAAAAA	TTGCTTGCGAGATTTCT CCT	AGAGAGCGACCTAGTC TGCG	60.1	705	INTERGENIC	--	--	--
Ca5_P3_64660	Ca5	64660	CAAAAA/CAAAA	TGGATCATCAAAGATCA ACGG	ATTGAAAGTTGCGGGG ACTA	60.8	438	INTERGENIC	--	--	--
Ca5_P3_6510151	Ca5	6510151	CTTTTTTTTT/CTTTTTTTTT	TCGCGTTCATGATTTTG TGT	CGGAGTGATAATTGGT GCAA	60.1	816	INTERGENIC	--	--	--
Ca5_P3_6532288	Ca5	6532288	AAAAAGAACAAA/AAAAA	TGTCTTCAACTTCTGCG GTG	TTGCAACGTGTCATTG TCCT	60.0	831	INTERGENIC	--	--	--
Ca5_P3_6545834	Ca5	6545834	GTTTTTTTTTTT/GTTTTTTTTTTT	TTTCTGCCTCTGTCCCA CTT	TTGATTGCAGCAAGA TTGG	59.8	509	INTERGENIC	--	--	--
Ca5_P3_6663718	Ca5	6663718	CAA/CAAA	AGGGAGGACGAAAATG ACCT	TAACCAATCTTGTCGA CCCA	59.9	171	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 (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
Ca5_P3_666553	Ca5	666553	TGTTCTTCGTTT	TTGGTCGACAAGCAAC TGAG	AAAATCCAACAATCTCC CCC	60.0	732	DRR	Ca_23223	--	--
Ca5_P3_6693	Ca5	6693	ACTCTCTCTCT/ACTCTCTCTCTCT	GGAGGTATCATCACGA GGGA	CCTCAGAGAGGAGAAT AGGGTG	59.9	523	INTERGENIC	--	--	--
Ca5_P3_6727251	Ca5	6727251	CGG/CGGG	TTTGGATTTTGACTCGG AGG	AGGAAGAGTGAGGTG CGAA	60.0	509	INTERGENIC	--	--	--
Ca5_P3_6763101	Ca5	6763101	AGGG/AGGGG	CAAATGTCGGGAGCTA CCAT	GGATCCCCAATCGATA ACCT	60.0	437	INTERGENIC	--	--	--
Ca5_P3_6763849	Ca5	6763849	AATATATATATATATATA/AATATATA TATATATATA	TGGGTGGGAGTAATTC TTCG	GAGTTGCGGCGAGAG TAGAT	59.9	484	INTERGENIC	--	--	--
Ca5_P3_6764095	Ca5	6764095	GTATATATATATATATATATAT/GTAT ATATATATATATATATATATATATA TATATATAT	TCAATTTGGGTTGAGG GTGT	ATGATGGGCCAGACGT TAAG	60.2	841	INTERGENIC	--	--	--
Ca5_P3_6765423	Ca5	6765423	GCAACA/GCAACAACA	CGAAGCTGCCAGGTAA AAAG	TGAGTCCATTCTCAA ACCA	60.0	652	INTERGENIC	--	--	--
Ca5_P3_6765484	Ca5	6765484	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	CGAAGCTGCCAGGTAA AAAG	TGAGTCCATTCTCAA ACCA	60.0	652	INTERGENIC	--	--	--
Ca5_P3_6772456	Ca5	6772456	GCACACA/GCACACA	TGCACAACAAAAGCAC AACA	TGTACCATCATAGTGG CGGA	59.9	512	INTERGENIC	--	--	--
Ca5_P3_6773829	Ca5	6773829	G/GA	TCGCGAAGAGATAGAA GGGA	CGCGAGTAAAACCGGT AAAA	60.1	104	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
Ca5_P3_6833150	Ca5	6833150	TTTATTATTATTATTATTATTATT/TT TATTATTATTATTATTATTATTATTA TTATT	TGCTAGGAACCGAGCC TTTA	TTGGCATCGTGATTTT ATGC	60.0	924	INTERGENIC	--	--	--
Ca5_P3_6833700	Ca5	6833700	ATATT/AT	GCATAAAATCACGATG CCAA	CGATTTTTCGTCTACAT GTGC	59.5	211	INTERGENIC	--	--	--
Ca5_P3_6833833	Ca5	6833833	AATA/AATATA	AAATCACGATGCCAAA GAAAA	AAGAAAGTTGTAAATG TGTTTTATGGA	59.6	616	INTERGENIC	--	--	--
Ca5_P3_6833924	Ca5	6833924	ATTT/ATT	AAATCACGATGCCAAA GAAAA	AAGAAAGTTGTAAATG TGTTTTATGGA	59.6	616	INTERGENIC	--	--	--
Ca5_P3_6834075	Ca5	6834075	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTA/ATA TTATTATTATTATTATTATTATTATT ATTATTATTATTA	GCACATGTAGACGAAA AATCG	ATGGCATGGTGATTTT ATGC	58.3	775	INTERGENIC	--	--	--
Ca5_P3_6834263	Ca5	6834263	CT/C	GCTTAATCCATAAAACA CATTACAA	TTCTCATGCGCTTGAC TAATG	57.9	526	INTERGENIC	--	--	--
Ca5_P3_6834706	Ca5	6834706	TAAAAA/TAAAAAA	TGCATAAAATCACCATG CCA	TTGTACGTTTCTTTTCT ATGATTGC	60.9	360	INTERGENIC	--	--	--
Ca5_P3_6834978	Ca5	6834978	ATATTATTATTATTATTATT/ATATT ATTATTATTATTATTATTATT	TAGTCAAGCGCATGAG AAAA	GGCATGATGATTTTAT GCATATTT	57.3	748	INTERGENIC	--	--	--
Ca5_P3_6837967	Ca5	6837967	TAAAAAAAAA/TAAAAAAAAA	TCGAGAACAACCTGTC TCGTG	AATTTCAGTGTCGCA AAAA	61.6	254	INTERGENIC	--	--	--
Ca5_P3_6848979	Ca5	6848979	GTATATATATATATATATA/GTATATA TATATATATATATA	GGAGTACCATAGGCCA ACGA	CGAAATGAAAACGGG AGAA	60.0	534	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
Ca5_P3_6851602	Ca5	6851602	TGG/TG	AATCGATTGATTCAGCC CAG	CTCTCATCTGAGGGCA AAGC	60.0	361	INTERGENIC	--	--	--
Ca5_P3_6872599	Ca5	6872599	ATTATTTATTTATT/ATTATTTATTTATT ATT	CGGCCATCACACAATG ATAA	TCAGGATGTCACCACG AAGA	60.3	454	INTERGENIC	--	--	--
Ca5_P3_6907615	Ca5	6907615	A/AGTG	GTTGTGTTATCCCTC GACA	AGGGTGCCACATTAC TCCA	58.4	539	INTERGENIC	--	--	--
Ca5_P3_6907875	Ca5	6907875	G/GAAA	GTTGTGTTATCCCTC GACA	AGGGTGCCACATTAC TCCA	58.4	539	INTERGENIC	--	--	--
Ca5_P3_6909501	Ca5	6909501	TATATATAATTTAAATATATAATTTAAAT /TATATATAATTTAAAT	AATGATGGAGGGAGTG AAGC	AACTGTCCATTTGTGA GGGC	59.1	405	INTERGENIC	--	--	--
Ca5_P3_6909628	Ca5	6909628	ATTTTTTT/ATTTTTT	AATGATGGAGGGAGTG AAGC	AACTGTCCATTTGTGA GGGC	59.1	405	INTERGENIC	--	--	--
Ca5_P3_6909656	Ca5	6909656	TAAA/TAA	AATGATGGAGGGAGTG AAGC	AACTGTCCATTTGTGA GGGC	59.1	405	INTERGENIC	--	--	--
Ca5_P3_6909949	Ca5	6909949	CAAAGA/CA	CCTAAGCCCTCACAAAT GGA	TAAAGGGAGAAAAGCA GCCA	60.1	304	INTERGENIC	--	--	--
Ca5_P3_6910352	Ca5	6910352	AA/AAAATA	TGGCTGCTTTTCTCCCT TTA	TCCTTTTTCATGTGG TTGA	60.0	683	INTERGENIC	--	--	--
Ca5_P3_6914599	Ca5	6914599	ATT/ATTTT	TGGAAGAAGTCCTGCA TTGA	TGGTCACGATTTGGGA ACAT	59.4	610	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
Ca5_P3_6981736	Ca5	6981736	GTTTTT/GTTTTTTT	ATAGGGTGCCCAAACT TTCC	AGCCACCTAACCCCTTG CTTT	60.2	470	INTERGENIC	--	--	--
Ca5_P3_7031251	Ca5	7031251	AATATATATATA/AATATATATA	TTGCAATCTCATCAACT CGG	TGGGAACCCCTCATATC CTCA	59.8	613	INTERGENIC	--	--	--
Ca5_P3_7060900	Ca5	7060900	GAAAAAA/GAAAAAAA	GGGTGCCAGAGACTAG GACA	CATTGTTACATAAAG GGCG	60.3	216	INTERGENIC	--	--	--
Ca5_P3_7107813	Ca5	7107813	G/GA	TGTCTCGAGTTCTATCC CGAA	TCACACACTTCTTCCA ACCTTT	59.8	569	INTERGENIC	--	--	--
Ca5_P3_7260086	Ca5	7260086	ATTTTTTTTT/ATTTTTTTTTTTT	GAACCAGAGCTCTTTT GCG	AAAAATTATGCGCAA CGCT	60.1	605	INTERGENIC	--	--	--
Ca5_P3_7365427	Ca5	7365427	ATTTATTTTATTTTTAT/ATTTATTTTAT TTTTATTTTTAT	AGAGGCAACAAGAAC CGAA	GATCGTGGGTGGAAT ATGG	59.9	401	INTERGENIC	--	--	--
Ca5_P3_7366837	Ca5	7366837	G/GT	TTGAGGCTGTTGTTCG TCAG	AAAACCCGGTGTATT TTCC	60.0	255	INTRON	Ca_21575	--	--
Ca5_P3_7374796	Ca5	7374796	CAAAAAAAAA/CAAAAAAAAAAA AA	GGGGTTTAAGGGTTT GGAA	TTGAATTAGGGCTGA TTGC	60.0	301	INTERGENIC	--	--	--
Ca5_P3_7560783	Ca5	7560783	ATTTTTT/ATTTTTTTT	GAGAGTGCGAGTGAA TAGGA	ATGGGAGGTTCCCTC AAGT	59.4	760	INTERGENIC	--	--	--
Ca5_P3_7594694	Ca5	7594694	ATTTTTTTTT/ATTTTTTTTTT	CGAATCAAATGAATTT GGGA	TTGCTGAAACATTTG GTGC	59.8	436	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 (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
Ca5_P3_7597727	Ca5	7597727	TAAAAAAAAA/TAAAAAAAAA	GCACGATCATACTCTG CCA	TTTTGAGTTCGGGAGT CGAT	59.8	241	INTERGENIC	--	--	--
Ca5_P3_7684766	Ca5	7684766	AATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT ATTATTAT/AATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT	TTAGTGGCTGAAGTGG GAGAA	TCACTAAACCAACCGC ATCA	59.9	801	INTRON	Ca_18733	K	MIKC
Ca5_P3_7752773	Ca5	7752773	AT/ATT	CAAACGCATGTCCTTGT CTG	ATGCCGATTATGCTGG AGAC	60.3	647	INTERGENIC	--	--	--
Ca5_P3_7774072	Ca5	7774072	TTATATATATATATATATATATATA TATA/TTATATATATATATATATATAT A	TGGCGACTCCGTATTG TAAA	TGAGCATGATTTTACG CCAA	59.2	586	INTERGENIC	--	--	--
Ca5_P3_7809252	Ca5	7809252	A/ACGAGGATTTTT	CGATGTTAGTGGTGAC CGTG	ATCTAAGGGCAAAGCC CAAT	60.0	398	INTERGENIC	--	--	--
Ca5_P3_7941049	Ca5	7941049	GA/GAA	TCTCATTTCCACTTAAA CTTTCG	TAAGCAAGCCATTGCA AAAA	57.6	459	INTERGENIC	--	--	--
Ca5_P3_7941755	Ca5	7941755	GA/G	TCAATGGATTGCTTGTG CAT	TTTCATGAACCCACCA AACA	60.1	833	INTERGENIC	--	--	--
Ca5_P3_8054679	Ca5	8054679	CAAAAAAAAA/CAAAAAAAAA	TTTCTTCTTCGGCCTT GAG	TTCGTACGATCCACAA CAAAA	59.6	695	DRR	Ca_18716	--	--
Ca5_P3_8232129	Ca5	8232129	ATTTTT/ATTTTT	CGCTAATGTTGCATTGA TGG	ACTCAATGTGCTTTGG GTCC	60.1	690	INTERGENIC	--	--	--
Ca5_P3_8298192	Ca5	8298192	TA/TAATAA	TCCTGCGAGGTTCTTC CTAA	CAAGAACACAACGAAC CCAA	59.9	778	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
Ca5_P3_8314333	Ca5	8314333	ATT/ATTT	TGGGGTTTAGGGTGTC ACAT	TTCCATCATCAATTCTG CCA	60.1	375	INTERGENIC	--	--	--
Ca5_P3_8399938	Ca5	8399938	ATTTTTTTTTT/ATTTTTTTTTT	CACTTCATTTAAATG ATCACCG	TTGGTACGTATCTTG GAGAGGA	59.8	355	INTERGENIC	--	--	--
Ca5_P3_8413319	Ca5	8413319	GAAAAAAAA/GAAAAAAAA	CTTGACGAAATGCTT GAA	TCGATTGTCAATCGC TTTG	60.0	706	INTERGENIC	--	--	--
Ca5_P3_8496342	Ca5	8496342	T/TA	CCTCCCCCTTTTGTG TTT	AGAGTAGCCGCAAG GTCTC	60.2	428	INTERGENIC	--	--	--
Ca5_P3_8596558	Ca5	8596558	GATAATAATAATAATAATAATA ATAATAATAATAATAA/GATAATAAT AATAATAATAATAATAATAATA ATAATAATAATAA	CGAAGCCGAGAAATG ACTC	AGAGGCAACAAGAAC CGAA	60.0	343	INTERGENIC	--	--	--
Ca5_P3_8735941	Ca5	8735941	AATATATATATATATATATATAT/A ATATATATATATATATATATAT	TCAAACCTGCTGGCA CATC	AAGCGACCTCCTACTG GGTT	60.0	646	INTERGENIC	--	--	--
Ca5_P3_8824148	Ca5	8824148	A/ATGT	GGAGCTGAGGTTGAGG TTGA	CAATATCGGCAAAATG AAGTGA	60.4	476	DRR	Ca_20336	A	--
Ca5_P3_8866859	Ca5	8866859	CATATATATATATATATATATA/CATA TATATATATATATATATA	TTTTGCACAAAGAAATC CAAC	TTGCTATGGTTGCTGG AGTG	57.8	901	INTERGENIC	--	--	--
Ca5_P3_8876553	Ca5	8876553	CATATATATATATATATATATATAT A/CATATATATATATATATATATAT A	GTCGTTACACCAAGAC GCAA	CATGGAAGGAGAGGAT GGAG	59.8	584	INTRON	Ca_20339	--	bZIP
Ca5_P3_8947962	Ca5	8947962	CATATTTATATTTATTTAT/CATATT ATATTTATTTATTTAT	TGCGCATAACGTTCTTT TACC	TGCAAAATGTTTGGT GCAT	60.1	507	INTRON	Ca_20342	--	--

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
Ca5_P3_8998961	Ca5	8998961	A/AAT	TGCAATAATGGCATTTC CAA	TGAGCTTGAATGGCAA GATG	59.9	556	INTERGENIC	--	--	--
Ca5_P3_8999793	Ca5	8999793	CA/CAAA	CTCGATCAATGACCAG AGCA	TCACTTCTTCCCCATT TTG	59.9	470	INTERGENIC	--	--	--
Ca5_P3_9014027	Ca5	9014027	GATATATATATATATATATATATATA/ GATATATATATATATATATATATATA TATA	GAAACACCCCCACATA ATGC	AGGGTCACACGATAGA ACGG	60.1	637	INTERGENIC	--	--	--
Ca5_P3_912739	Ca5	912739	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	ACAGGAGACGAACGCA AACT	TAAAGGACCAAGTCGG GAAA	59.9	638	INTERGENIC	--	--	--
Ca5_P3_9198127	Ca5	9198127	ATATTATTATTATTATTATTATTATT ATTAT/ATATTATTATTATTATTATT ATTATTATTATTAT	CTCAATCGTGGGTGAC CTTT	TGGTTTGACAAGGGGA AGAC	60.0	379	INTERGENIC	--	--	--
Ca5_P3_9200613	Ca5	9200613	ACCCC/ACCCCC	ATCCAGTACCGGCAGT TTTG	TCCCGTCAGCAGCTCT TAAT	60.0	812	INTERGENIC	--	--	--
Ca5_P3_9264601	Ca5	9264601	ATTTTTTTTT/ATTTTTTTTTTT	TTCCAGAAAATTGCATT TTGAA	ACCTTCACAAGATCG TCAA	59.6	756	INTERGENIC	--	--	--
Ca5_P3_927603	Ca5	927603	TTAATAATAATAATAATAATAATAA TAATAA/TTAATAATAATAATAATAA TAATAATAATAATAA	GGTCTTTTGAAAATAAT CTTAACGC	AAGGGGAAGTTAAGC CAGA	58.8	664	INTERGENIC	--	--	--
Ca5_P3_9309141	Ca5	9309141	CATATATATATATATATATATA/CATA TATATATATATATATA	CCAAATCTCACATCGCT CAA	CCACATAGTAAGGGAG CCCA	59.8	747	INTERGENIC	--	--	--
Ca5_P3_9403421	Ca5	9403421	T/TTTAACCTT	GGCACTTTTCACGTCC ATTT	ACAGCAGAAATGGGGA GTGG	60.0	836	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PII) reference genome-CDC	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
Ca5_P3_9416660	Ca5	9416660	TA/TAA	CCATCTTAAATCATGGT GTTGG	TTCAACTCCTTTTGTC CCG	59.2	522	INTERGENIC	--	--	--
Ca5_P3_9441399	Ca5	9441399	AATTTTATTTT/AATTTTATTTATTTT	TGCGATGGAGAAATCA AAGC	CTAGTTTGGCTTGACG GGAA	61.3	865	INTERGENIC	--	--	--
Ca5_P3_9527023	Ca5	9527023	TTATATATATATATATATATATATATA TATATA/TTATATATATATATATATAT ATATATATATATATA	CGGCATTGCGATTAAAT TTT	TGAGGTGATGGGTGAA ATGA	59.9	372	INTERGENIC	--	--	--
Ca5_P3_9625867	Ca5	9625867	GAAA/GAA	ACATCCAGTCTCTGCA ATCC	TGGCAAATCGATTGAC AAAA	59.9	730	INTERGENIC	--	--	--
Ca5_P3_9626102	Ca5	9626102	CCACA/CCA	AGTTTCCTCCCCGAA CCTA	TGGCAAATCGATTGAC AAAA	59.9	657	INTERGENIC	--	--	--
Ca5_P3_96552	Ca5	96552	AATATATATATATATATATATA/AATATA TATATATATATATA	TGTAACGCTGACTCAAT GGCA	GGGCTTGTTATCTGCA TCCT	60.2	585	DRR	Ca_18165	R	FAR1
Ca5_P3_9708216	Ca5	9708216	AATATATATATATATATATATATA/AA TATATATATATATATATATATATATAT ATA	GGCAACGTATGTGTGT TTGG	AGAGTTGTCAATGGAT CGGA	59.9	539	INTERGENIC	--	--	--
Ca5_P3_9718615	Ca5	9718615	TTAT/TT	AAGGCCACAAGGGTGT ATGA	TTCCCTCCCTCACTT TTCT	60.4	283	INTRON	Ca_20495	--	--
Ca5_P3_97364	Ca5	97364	T/TCAGCCTC	GGTGGGGATGGATGTA GATG	TGAACAAAACATTGGG CAAA	60.0	630	DRR	Ca_18165	R	FAR1
Ca5_P3_9820327	Ca5	9820327	TTGT/TT	CAGAACTCAACTTGCA CCGA	TTGGCACCGAGAAGTT CTTT	60.0	701	DRR	Ca_20501	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 (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
Ca5_P3_9825211	Ca5	9825211	CTATATATATATATATATATATA/CTA TATATATATATATATATATATATA	TTTCAAACCAACAAGTG GCA	GGTGGGAAAATGGAG GAGAT	60.1	642	INTERGENIC	--	--	--
Ca5_P3_9912749	Ca5	9912749	ATTTTTTTTTT/ATTTTTTTTTT	GCGTTTATGCTTTGCTC AGA	TTCGAATTGGAACTT CACA	59.2	505	INTERGENIC	--	--	--
Ca5_P3_9954032	Ca5	9954032	TAAAAAAAAAAAAA/TAAAAAAAAAA AAAAA	ATTCCAAAGTGTTTGGC AGC	GGAAGTTGGAATGAGG TTGG	60.1	462	INTERGENIC	--	--	--
Ca5_P3_9966982	Ca5	9966982	AG/AGTCG	TTTTGAGCGGTTGTTAT GCC	GACGGTTCGCAGTATG GTTT	61.0	315	INTERGENIC	--	--	--
Ca6_P3_10090816	Ca6	10090816	ATTATTTATTTATTTATTTATTTAT TTATTTATTTATT/ATTATTTATTTAT TTTATTTATTTATTTATTTATT	CCCGCAAATTAAGTG GGTA	CCCATACCGTTATCC ACAC	59.8	560	DRR	Ca_08583	Z	Trihelix
Ca6_P3_10127292	Ca6	10127292	CAA/CA	TGGTTGCGACTTGTGT TGTT	CCGACTCAAATCAAAG GGAG	60.2	100	INTERGENIC	--	--	--
Ca6_P3_10138748	Ca6	10138748	AGACAATGACAATGACAATGACAATGA C/AGACAATGACAATGACAATGACAAT GACAATGAC	CTCGTCCGAAGAGGAC TACG	CAATCTGCTTCGTGGA GACA	60.0	550	CDS (large-effect mutations)	Ca_08579	--	FAR1
Ca6_P3_10141273	Ca6	10141273	TAAAAAAAAAAAAA/TAAAAAAAAAA	GGAAATATCAAATGTTG TTACCGA	TCCAAAAACGACTTAG ACCTCA	59.2	736	INTERGENIC	--	--	--
Ca6_P3_10146529	Ca6	10146529	CATATATATATATATATATAT/CATAT ATATATATATATATATATAT	TTCAGCCATTGATTATG CCA	GATGTTTCATGAGGGG AAAA	60.0	594	DRR	Ca_08578	--	--
Ca6_P3_10174986	Ca6	10174986	ATTTTTTTTTT/ATTTTTTTTTT	CCGAATCCAACAAC CATTC	TGTTTGAGCAAAGGA AAAA	59.6	969	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
Ca6_P3_10508206	Ca6	10508206	T/TTAAAGAGAGA	TGTCATTCGTGTATCTC CTCAA	GAAACGGGCACCAAG AGTA	58.2	719	DRR	Ca_08544	S	--
Ca6_P3_10510710	Ca6	10510710	AGG/AG	CGACTAGATGTCGCTG ACCA	CACATTTTGGTGTGC TTGG	60.0	385	INTRON	Ca_08544	S	--
Ca6_P3_10513734	Ca6	10513734	C/CTATGATT	GATCATTCCAAACCAC ACC	CGACTCAATGACGGGT TTTT	60.0	653	INTERGENIC	--	--	--
Ca6_P3_10514411	Ca6	10514411	CAAAAAAAAA/CAAAAAAAAAA	TTCGCAATCTGTGTTTT TCG	CAAGAATTCGTATCGT CTAAATGC	59.8	642	INTERGENIC	--	--	--
Ca6_P3_10514563	Ca6	10514563	TAAAAAAAAA/TAAAAAAAAAAAA	TCACCAATCCTATGCTG TTGTC	ACGAAGTGACACATGA CCCA	60.0	924	INTERGENIC	--	--	--
Ca6_P3_10556820	Ca6	10556820	ATTT/ATTTT	TATGACGGGCACACTT GAGA	CGTCATTTGCAAAAC GACTT	60.3	474	INTERGENIC	--	--	--
Ca6_P3_10572244	Ca6	10572244	TAAA/TAA	CCGATGTAAGACTCTC CCCA	TGTTTCAACCTTGCAAT GGA	60.1	790	INTERGENIC	--	--	--
Ca6_P3_10572280	Ca6	10572280	TAAAAAAAAA/TAAAAAAAAAAAA	CCGATGTAAGACTCTC CCCA	TGTTTCAACCTTGCAAT GGA	60.1	790	INTERGENIC	--	--	--
Ca6_P3_10575764	Ca6	10575764	ATTTTT/ATTTTTTT	TTTGTGTGTGTGTTGT CGC	CCCCATGATACCTTT CCTT	59.2	294	INTERGENIC	--	--	--
Ca6_P3_10575854	Ca6	10575854	TC/T	TTTGTGTGTGTGTTGT CGC	CCCCATGATACCTTT CCTT	59.2	294	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
Ca6_P3_10576207	Ca6	10576207	TTGGTAAACT/TT	AAGGAAAGGTATCAT GGGG	AATTGGTGAGGTGCC CTTG	60.0	701	INTERGENIC	--	--	--
Ca6_P3_10577482	Ca6	10577482	ATT/ATTT	GCTCCATTTCATTTGCG TTT	GCCACTCCGTAAGCCT ATCA	60.1	834	INTERGENIC	--	--	--
Ca6_P3_10586207	Ca6	10586207	ATT/ATTT	TCATTGAAGGCCAACT TCC	GAGCGACTGGGTGAAA GAAC	60.1	668	INTERGENIC	--	--	--
Ca6_P3_10586533	Ca6	10586533	ATTTC/ATTCTCTAGTCTTTTCC	TGGCGGGTGAGAAGTA AAAG	TAATTGTGAGCGACTG GGTG	60.2	254	INTERGENIC	--	--	--
Ca6_P3_10586822	Ca6	10586822	CAAAAA/CAAAAAAA	TTCCCACTTCTTTCAAC CAG	AACTGTAACACACGTG GCGA	60.1	573	INTERGENIC	--	--	--
Ca6_P3_10588831	Ca6	10588831	AT/ATT	AACCGTAACAGACGCC AATC	GTTCTCGGTCTTTTC CTCC	60.0	308	DRR	Ca_08539	--	--
Ca6_P3_10591465	Ca6	10591465	AT/ATT	CAAATGATGTTTTCCC GTG	TGGTGCTCTTTTGCTT TGTG	58.9	435	INTRON	Ca_08538	E	--
Ca6_P3_10594459	Ca6	10594459	TAAAA/TAAAAA	GCGACCTCCAACGAC AACT	CAAATAAATCGCGTG TCCC	60.3	563	INTERGENIC	--	--	--
Ca6_P3_10600474	Ca6	10600474	GAAAA/GAAAAA	TGACTCCACCACCAAT GAAA	GACCAATCTTAAACG CCCA	59.9	222	INTERGENIC	--	--	--
Ca6_P3_10606593	Ca6	10606593	CAAA/CA	CGTCGAATTCTTTGGTA GCC	TTTATAACTTTCCGCC ACG	59.7	526	DRR	Ca_08537	H	--

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 (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
Ca6_P3_10609017	Ca6	10609017	CGAGG/CGAGGAGG	AACATTGCTGCCATT GGT	GCAACACCTTGATGT TCCA	60.4	689	INTERGENIC	--	--	--
Ca6_P3_10609448	Ca6	10609448	ATT/ATTTT	TTTGGAGCATCTCCCA GAAT	TGTGAAGAAGAAGGAG GAGGA	59.6	653	INTERGENIC	--	--	--
Ca6_P3_10609875	Ca6	10609875	TTCT/TT	TCAAAGTTCGATGATGA TGAAGA	TGGTTTTGGATTAGTG GCTTC	59.7	419	INTERGENIC	--	--	--
Ca6_P3_10611247	Ca6	10611247	TAATAAATAAATAAATAA/TAATAAATA AATAAATAAATAA	FCTGACATGACAAATG GTGG	TCGGAATTGGTCCGAA ATTA	59.4	409	DRR	Ca_08536	K	HSF
Ca6_P3_10616353	Ca6	10616353	CAAT/CAATGAAAAT	TGAGATTGAGAGGCA ATTGTGA	CGAATTGCAGGAATGT GTTG	60.0	544	INTERGENIC	--	--	--
Ca6_P3_10617092	Ca6	10617092	C/CA	TTGTTTAATTGTTGGGG GAGA	AACGTAAGTTGGCACC ATGC	59.3	222	INTERGENIC	--	--	--
Ca6_P3_10619329	Ca6	10619329	CAATAATA/CAATA	TGCGGTAGCCTATCTC AACC	ATCACCCGTAGATCTG TCGC	60.2	647	INTERGENIC	--	--	--
Ca6_P3_10620292	Ca6	10620292	TAAAAACA/TAAAAACAAAAAACA	CAGTTGTGGCGATTGA TTTG	GGATCTGAAATCCCCT CTCC	60.1	836	INTERGENIC	--	--	--
Ca6_P3_10620474	Ca6	10620474	A/AT	CCATGTGAAGCAAGTG GTTG	GGATCTGAAATCCCCT CTCC	60.2	714	INTERGENIC	--	--	--
Ca6_P3_10621679	Ca6	10621679	GTTTTTTTTT/GTTTTTTTTT	TTGAAGCCATGTTGAAA TCG	CAAATATGTTTGGTGG ATTGTTG	59.7	550	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 (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
Ca6_P3_10623188	Ca6	10623188	TATAA/TA	CTGAGGCGGCAGAGTA ATTCT	TTTTGGCATCCACTTC AATTT	60.0	490	INTERGENIC	--	--	--
Ca6_P3_10625658	Ca6	10625658	AA/AATA	GCTCTCCAAGACTTCAA CGG	TCCAACCTTCCCTCAT CTTG	60.0	782	INTERGENIC	--	--	--
Ca6_P3_10631599	Ca6	10631599	ATTT/ATT	CTGACACAAAATCCACC ACG	ACCACCACGGAAATGA TTGT	60.0	812	DRR	Ca_08534	R	NAC
Ca6_P3_10640464	Ca6	10640464	A/AGCACGTAAGTATG	CCTTCAGCATTAGACTC CGC	AATCGCGAATATGGTC CAAG	60.0	787	INTERGENIC	--	--	--
Ca6_P3_10642500	Ca6	10642500	C/CCTATAGA	CGATTTGACAGCAAAA GCAA	GACAACCTTCGTGGCC CTAA	60.0	437	INTERGENIC	--	--	--
Ca6_P3_10649918	Ca6	10649918	GTTTGTTTTGTTTTGTTTT/GTTTGTTTT GTTTTGTTTTGTTTT	GACGGTTATGGAGCCT TCAA	TTCGATATCTGTGCC TCCC	60.1	363	DRR	Ca_08531	I	--
Ca6_P3_10652240	Ca6	10652240	TA/T	TTCGAATTTTCATGGTG GGT	GATAAGCGACGTCTTG GAGC	60.2	804	INTRON	Ca_08531	I	--
Ca6_P3_10657533	Ca6	10657533	C/CTT	ACATCTCTCATTGCCCA TCC	ATCAGGTGCTTTGCTG CTTT	59.9	769	INTRON	Ca_08531	I	--
Ca6_P3_10660543	Ca6	10660543	G/GCC	TGATTGGACTGCCTCA CAAG	GGCCTCAGATCAGTGG AAAA	59.8	617	INTRON	Ca_08531	I	--
Ca6_P3_10662809	Ca6	10662809	ATT/ATTT	CAATTGTGCTCCTCCAC CTT	AGCTCTAGGGGTATGG GTGG	60.1	648	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 (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
Ca6_P3_10665731	Ca6	10665731	ATTTTTTTTT/ATTTTTTTTT	TGAAAGTTTCGTATTGC TCGAA	CATTGTCTTGAAGC CACC	59.9	692	INTERGENIC	--	--	--
Ca6_P3_10667900	Ca6	10667900	ATTTTT/ATTTTT	CAATGCGCTTTCTCCT CTC	ATGCGGCACAACACTA ACAC	60.1	438	INTRON	Ca_08530	--	bHLH
Ca6_P3_10673743	Ca6	10673743	TA/T	TCTGTATGCTTTGCTGT GCC	ACTGCCAGATGAAACC CATC	60.0	608	INTRON	Ca_08530	--	bHLH
Ca6_P3_10677110	Ca6	10677110	TCCCC/TCCCC	TTCAACACGTGCATGG AAAT	GCTAACACATGATTTC CGCA	60.0	581	INTRON	Ca_08530	--	bHLH
Ca6_P3_10681474	Ca6	10681474	ACAAGTCA/ACA	AATTGCGAATTTGTGG GTTC	GGACAGATGGCAAGCA TTTT	59.8	694	DRR	Ca_08530	--	bHLH
Ca6_P3_10689272	Ca6	10689272	CAAAAAAAAA/CAAAAAAAAA	GGAACATCAACCCCA AAAA	TTCCCAATAACCAAA CCAA	59.6	551	INTERGENIC	--	--	--
Ca6_P3_10695719	Ca6	10695719	C/CTA	CTCCGTAATGAAACCC GAGA	AGGAAGGGGAACGAC CTAGA	60.1	744	DRR	Ca_08528	--	bHLH
Ca6_P3_10700691	Ca6	10700691	AG/A	ATAAAGAGAAGCGGAG GGGA	CAACGAAGAGCGTCGA GAAT	60.2	909	INTERGENIC	--	--	--
Ca6_P3_10708022	Ca6	10708022	GCT/GCTGAATCT	CCAAGGTTGGCTAGA ACTG	TGGAAAATATGTGTGG GATCAG	59.7	689	DRR	Ca_08527	GC	HSF
Ca6_P3_10708360	Ca6	10708360	CTGAT/CT	TGAAATTCTGTGCAAA ACAA	GTGTGGCTGAAAATGC ATGA	59.2	940	DRR	Ca_08527	GC	HSF

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
Ca6_P3_10794924	Ca6	10794924	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATAT	TGTTTGGTAAACATTG ATTGAT	CATTACCTCGTGAC CACT	58.4	374	INTERGENIC	--	--	--
Ca6_P3_10848271	Ca6	10848271	TGGC/TGGCGGC	GGCCTCTTCAACAAAT GGA	ACAAATTTGGTGGTGG TGGT	60.1	311	CDS (large-effect mutations)	Ca_08513	K	MIKC
Ca6_P3_10857523	Ca6	10857523	CTTT/CTTTT	TTCGTGAAACTGTGCA ACC	AACGAAACGGGTACA CCAC	59.7	550	INTERGENIC	--	--	--
Ca6_P3_10968845	Ca6	10968845	AATATATATATATATATATATATAT/A ATATATATATATATATATATAT	TGAAAACCTTCATTTCT TTATTGAGTC	GCACATGGTTCATGA AAAA	58.5	637	INTERGENIC	--	--	--
Ca6_P3_11035101	Ca6	11035101	TTAT/TTATTATTATTGTAT	TGTTTCCGAAGTCTTT GTTGA	TTTTCTCCCGATTTA GTCC	59.8	963	INTERGENIC	--	--	--
Ca6_P3_11111942	Ca6	11111942	CAGAG/CAG	ATACCCCATGAAGGTA GCCC	ACCGTGAACACCAAAA GGAG	60.0	383	INTRON	Ca_20478	G	--
Ca6_P3_11270649	Ca6	11270649	C/CA	AACAAGGGCCCCAAA TAGT	AAATACATGTCATTG GGGC	59.7	496	INTERGENIC	--	--	--
Ca6_P3_112870	Ca6	112870	TG/T	AACTCCTTGGGACCGT GATT	ACCTTGCAACTGGAGC AAAT	60.7	242	INTERGENIC	--	--	--
Ca6_P3_11310241	Ca6	11310241	GTTTTCATA/G	CATGTCGAAGAAGCTC CACA	TCCTCCGGAACATAAC TTGG	60.0	417	INTERGENIC	--	--	--
Ca6_P3_11310757	Ca6	11310757	AAACCGAACCGAACCGAAC/AAACCGA ACCGAAC	CATTATGCTGAATGATG CCG	TTTTCTTTTGGTGGA TGG	60.1	742	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
Ca6_P3_11316099	Ca6	11316099	AC/A	GTTTGGTTGTGGTGCA GTGG	GCTGATTGGTTGCCTC TCTC	60.0	399	INTERGENIC	--	--	--
Ca6_P3_11363335	Ca6	11363335	ATTTTTTTTTTT/ATTTTTTTTTT	TCCAATTCAGCGTAGA GAACAA	GGTGCAAAGAGATCAA TGATGA	59.9	332	INTERGENIC	--	--	--
Ca6_P3_11367342	Ca6	11367342	CAAAAAAAAA/CAAAAAAAAA	TAGATCCACCTTCAAC CCG	AAAAGCGGTGACAGAT GGAC	59.9	667	INTRON	Ca_23422	K	ARR-B
Ca6_P3_11493441	Ca6	11493441	T/TC	GGTGTGCGGTAATCCT CCAA	CACCCGTTGTCCCTTA ACTT	59.8	791	INTERGENIC	--	--	--
Ca6_P3_11546028	Ca6	11546028	CAAA/CAAAA	GATCGATTGGGCTAC GAAA	ATCAGATTGCTGCAGG CTTT	60.0	651	INTERGENIC	--	--	--
Ca6_P3_11546493	Ca6	11546493	TAAAAAAAAAAAAAAAA/TAAAAAAAAA	TCGAAAAGGTCATTCA AAGC	TTTGTGTCCAAAGCAT TCTCC	60.2	472	INTERGENIC	--	--	--
Ca6_P3_11590997	Ca6	11590997	CTTTT/CTTTT	ATGTGCTCCCAACAA AGTC	CCCTCCAGTAGCATCA CCAT	60.0	538	INTERGENIC	--	--	--
Ca6_P3_11592152	Ca6	11592152	A/AC	AGATGACAATCCCCGA CAAC	TCACCAAGACATTGAG GCAA	59.8	349	INTERGENIC	--	--	--
Ca6_P3_11596627	Ca6	11596627	ATTTTTTTTT/ATTTTTTTTT	CTCAAGGACCAAGAC CAAA	CCTTGCACAAGCTTC ACAT	60.1	596	INTERGENIC	--	--	--
Ca6_P3_11600068	Ca6	11600068	AC/A	GTCTTTGCCAAGAATC CAA	CCTAAAGTGGGTTTCG TCCA	60.1	334	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
Ca6_P3_11600363	Ca6	11600363	TAAAAA/TAAAAAA	TGGACGAAACCACTT TAGG	AAATTGCAGATTGCCT CACC	60.0	286	INTERGENIC	--	--	--
Ca6_P3_11600751	Ca6	11600751	ATCAA/ATCAACAATTAGGTCAA	TGGACGAAACCACTT TAGG	TGGGCCACTAGTGTG ATGA	60.0	622	INTERGENIC	--	--	--
Ca6_P3_11630320	Ca6	11630320	AAGTAGT/AAGT	TGCATATGTGTGGGG AATA	GCTTGATACTTGCAA AGCC	59.6	621	INTERGENIC	--	--	--
Ca6_P3_11631502	Ca6	11631502	TGAGA/TGAGAGA	CTGCTTCTATTCTTCG CGG	GGAGGAAGGGCTAACT TTGG	60.1	562	DRR	Ca_25057	S	--
Ca6_P3_11631784	Ca6	11631784	ATTTTTTT/ATTTTTTT	CTGCTTCTATTCTTCG CGG	GGAGGAAGGGCTAACT TTGG	60.1	562	DRR	Ca_25057	S	--
Ca6_P3_11631813	Ca6	11631813	TAAAAAAAAA/TAAAAAAAAA	CTGCTTCTATTCTTCG CGG	GGAGGAAGGGCTAACT TTGG	60.1	562	DRR	Ca_25057	S	--
Ca6_P3_11631972	Ca6	11631972	CAAAAAAAAA/CAAAAAAAAA	CCAAAGTTAGCCCTTC CTCC	AGCACTGACCTTTTGA GCGT	60.1	445	DRR	Ca_25057	S	--
Ca6_P3_11632067	Ca6	11632067	GGTGTG/GGTG	CCAAAGTTAGCCCTTC CTCC	AGCACTGACCTTTTGA GCGT	60.1	445	DRR	Ca_25057	S	--
Ca6_P3_11636913	Ca6	11636913	CTTCTATT/CTT	AGGTGCCCATTTGTTAA CCC	CACTCACCAACAAATC AAACG	61.0	635	INTERGENIC	--	--	--
Ca6_P3_11654198	Ca6	11654198	GAAAAAAAAA/GAAAAAAAAA	GTTAACCTCGGTCAAG CTGC	TGTCGGCTCACGTTTT TGTA	59.9	891	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
Ca6_P3_11656581	Ca6	11656581	ACCGGCCGG/ACCGG	TCCCTCACTCATCACCA CAA	AACAGCTCCATCGCCT AGAA	60.1	340	DRR	Ca_25060	--	FAR1
Ca6_P3_11658302	Ca6	11658302	A/AC	ATGCCAAACAAAGCCA AAAC	TGGAGCCACATTATCT GCTG	60.0	563	INTRON	Ca_25060	--	FAR1
Ca6_P3_11660800	Ca6	11660800	AA/AACA	GATGAGCACCTACCA AGAACC	TCCTCTTCTCTCTCC CACA	60.0	549	INTERGENIC	--	--	--
Ca6_P3_11667031	Ca6	11667031	AT/ATTT	TTCACCACAGAAACCA CAA	ACGCTTTTCCCTGAGC ACTA	60.0	698	INTRON	Ca_25061	Q	G2-like
Ca6_P3_11685034	Ca6	11685034	TGGG/TGG	ATGCCAGCAACTTTA GCAT	GGGAACCAAAGTGTG ACCA	59.9	508	INTERGENIC	--	--	--
Ca6_P3_11686059	Ca6	11686059	AATTATTATTATT/AATTATT	GGAGATGCGGTCTCTC AAAG	GTCCTAACGCTGCAGA CACA	60.0	395	INTERGENIC	--	--	--
Ca6_P3_11706061	Ca6	11706061	TTGTATTCTTGTGTATT/TTGTATT	CCACGCTGTCATATGT GGTC	GCTCAAGTTGAACAGC ACCA	60.0	734	INTERGENIC	--	--	--
Ca6_P3_11713842	Ca6	11713842	TTATAA/T	TTAGTGCTCTGGTGCG TTTG	GCTCGTGGAGATTAG CGTC	60.1	433	DRR	Ca_25062	--	--
Ca6_P3_11718910	Ca6	11718910	A/AG	CTCCGCTTCAAAAGAC ATCC	AATGGTGCTTGGGTCG ATAG	59.8	506	INTERGENIC	--	--	--
Ca6_P3_11719036	Ca6	11719036	TAAAAAAAAA/TAAAAAAAAA	TAAATCGACCACAAGT GCG	AATCGAGCTTCAGCAA GAGG	59.7	662	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
Ca6_P3_11726949	Ca6	11726949	CTTCAATTTCAAT/CTTCAAT	TTGAGCCATATGTTGAC CCA	CTCCTCACTCACCACA AGCA	59.9	635	INTERGENIC	--	--	--
Ca6_P3_11727726	Ca6	11727726	AACACA/AACA	TGCTTGTGGTGAGTGA GGAG	TCCCGACGACTAACAA CTCA	60.0	563	INTERGENIC	--	--	--
Ca6_P3_11738985	Ca6	11738985	TAAAAAAA/TAAAAAAA	TTCAGCAGCTTCTTCGA CAA	ATTACCGACATTGCAG AGGG	59.9	254	INTERGENIC	--	--	--
Ca6_P3_11746077	Ca6	11746077	AATATATATATATATATA/AATATATA TATATATATATATATA	TGCAAGTCGAAATTCAC ACG	TGGGTCAAGCCCAATA AAAC	60.8	538	INTERGENIC	--	--	--
Ca6_P3_11752280	Ca6	11752280	CAAAAAAAAA/CAAAAAAAAA	GCGAGTCCAGATGAA TTGT	GTCGTATTAATCGCGT TGCG	60.1	569	INTERGENIC	--	--	--
Ca6_P3_11755125	Ca6	11755125	GTCAAAGATTTCTTCAA/GTCAA	CGATCATGTTGATTT TGTTCA	TGAAATCCCTGAGCT GGTC	59.9	527	INTERGENIC	--	--	--
Ca6_P3_1175724	Ca6	1175724	CTTT/CTTT	TGTGACCGTTGGA TTCA	GCCTCACGAGTTGGA GAAA	59.9	715	INTERGENIC	--	--	--
Ca6_P3_11779723	Ca6	11779723	CGGT/C	CAACAAGGCCACATCA ACAC	AAGTTGGCGTAATCC ACAC	60.0	863	INTERGENIC	--	--	--
Ca6_P3_11784060	Ca6	11784060	ATTTTTTTTT/ATTTTTTTTT	TAAGGTTGTCTGGGA GGTG	GGGTCTACGGTGCGAT ACTC	60.0	469	INTERGENIC	--	--	--
Ca6_P3_11791617	Ca6	11791617	ATTTT/ATTT	TGGGAGGATTTGCAAC ATTT	TTTCAATTGTCGCTCC AACA	60.3	814	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 (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
Ca6_P3_11792161	Ca6	11792161	AAT/A	TGTTGGACGGACAATT GAAA	CAAAATGCCATAAAATC GGC	59.9	408	INTERGENIC	--	--	--
Ca6_P3_11792622	Ca6	11792622	GTTCTTTT/GT	GCCGATTTTATGGCATT TTG	GGGCTATGAGACCCAT CAGA	60.3	777	INTERGENIC	--	--	--
Ca6_P3_120405	Ca6	120405	TCA/TCAAATTCCA	GAGGCACAAAACCATC ATCC	CCCAAAATGTGGCTTT CAAT	60.3	562	INTERGENIC	--	--	--
Ca6_P3_12061832	Ca6	12061832	AT/ATT	ACATAGCTCCAGTCAG GCGT	ACCCAATTTGTCGTGG TGAT	59.9	768	INTERGENIC	--	--	--
Ca6_P3_12089970	Ca6	12089970	AG/AGG	ATGCCAAACACAAACAA CGA	TTCATTGGGGCTTAC TAGC	60.0	789	INTERGENIC	--	--	--
Ca6_P3_12154986	Ca6	12154986	TAA/TA	TGAAGCATCAATGTGT GCAA	ATTTTCCATAATGCCC CTCC	59.8	600	INTERGENIC	--	--	--
Ca6_P3_12233101	Ca6	12233101	TG/TGG	CCTCAACGTGAGTTGC AGAA	TGCATGGCATTTGAT AAGA	60.0	344	CDS (FRAME SHIFT)	Ca_24847	--	--
Ca6_P3_12253208	Ca6	12253208	TA/TAA	CTCCGTTTATCTCCGTT GGA	CCACCCCAATATGATG GAGA	60.1	379	INTERGENIC	--	--	--
Ca6_P3_12253239	Ca6	12253239	ATAT/ATATATATATCTAT	CTCCGTTTATCTCCGTT GGA	CGTGATGATTGATGCA TTTCA	60.1	746	INTERGENIC	--	--	--
Ca6_P3_1230210	Ca6	1230210	CAAAAAAAAA/CAAAAAAAAA	ATGATGAACGGTGACC ACAA	TGGGAACCTACATGGT CACAT	59.8	318	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
Ca6_P3_12312832	Ca6	12312832	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TCATGTTTGGGAGGAA CCAT	TCTGTGACACCCTAAA CCCC	60.2	352	INTERGENIC	--	--	--
Ca6_P3_12335628	Ca6	12335628	TGAAG/TG	GGAAGGGTGTGGTGT GTTT	TTGGTCACTAAGGGGG TGAG	59.7	968	DRR	Ca_24849	--	--
Ca6_P3_12362007	Ca6	12362007	GTTTTTTTT/GTTTTTTTTT	ACTATGTGAAAGCGCA AGCC	CATTTTATAGCGCGCC TTTT	60.4	142	DRR	Ca_05021	R	--
Ca6_P3_12389573	Ca6	12389573	TACACACACACAC/TACACACACAC ACACAC	TGTGCAATTGACATTTT GGAA	TTAATTTAAACCCCTCG CCC	60.0	505	DRR	Ca_05022	O	--
Ca6_P3_12528757	Ca6	12528757	AATATATATATATATATATATATAT ATATATAT/AATATATATATATATATA TATATATATATATATAT	TGGGGGATGAGAGATC AAAG	GGAGATTGCAACACC CTTC	60.0	741	INTERGENIC	--	--	--
Ca6_P3_12534444	Ca6	12534444	GTTTTTTTTT/GTTTTTTTTT	GCTTCTCTGCTGGAAT TGG	TGGAGCCACGTGTTTG TATC	60.0	188	INTRON	Ca_05031	R	--
Ca6_P3_12535819	Ca6	12535819	TATT/TATTCTCATT	CGATCGATTGGAAGG AAAA	ACCTTTCGAAACAACC AACG	60.0	467	CDS (large-effect mutations)	Ca_05031	R	--
Ca6_P3_12550846	Ca6	12550846	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA AAAAAAAA	TCCACAAGGGATTGTTA GCC	TGCTCTTGTGTGCGG TCTTT	59.9	561	DRR	Ca_05032	R	--
Ca6_P3_12562114	Ca6	12562114	ATGTGTGTGTGT/ATATGTGTGTGT GT	GCGAGTCTTATGTGCA CTTCAA	CACCTCAATGATGTTT GGTATGA	59.4	564	INTERGENIC	--	--	--
Ca6_P3_12565656	Ca6	12565656	TTTATTATTATTATTATTATTATTAT TATTATTATTATT/TTTATTATTATTATTA TTATTATTATTATTATTATTATTATT	ACATCCAATGAAATAGC CGC	AAAATAGCCTTTTCGC CACC	59.9	825	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 (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
Ca6_P3_1257304	Ca6	1257304	TTATATATATATATATAT/TTATATAT ATATATATATATAT	GGTGAGGATTGGTTCA CTCG	ATGAGTGGGATCGAT CTTG	60.5	341	DRR	Ca_13331	--	NF-YB
Ca6_P3_12679710	Ca6	12679710	TAAAAA/TAAAAA	TCCATCAAATCAATCCA TTACC	ACTTCGGCAGTCACCA CAG	58.6	422	INTERGENIC	--	--	--
Ca6_P3_12721633	Ca6	12721633	TAAAAAAAAA/TAAAAAAAAA	CCGGAACCTTTTACCT ACCG	AAAATTTATCCTGCACC CCC	59.9	159	INTERGENIC	--	--	--
Ca6_P3_12756200	Ca6	12756200	GATATATATATATATATATATATAT TATATATATATATAT/GATATATATAT ATATATATATATATATATATATATATA TATATAT	GCGCCTCAACAATAAA GAGG	CCAATCTCTTCCAC CTCA	59.8	853	INTERGENIC	--	--	--
Ca6_P3_12787897	Ca6	12787897	AATATATATATATATATAT/AAATAT ATATATATATATATAT	ATCAAACAATGTTGCG AGC	CAAACCCCTATTTTGT GATTGA	58.8	749	INTERGENIC	--	--	--
Ca6_P3_12808800	Ca6	12808800	GTTTTTTTTTT/GTTTTTTTTT	CATGGAATTGACGAAC ATCG	GAAGGTGTTTGTGACA CTTCTAGC	59.9	360	INTERGENIC	--	--	--
Ca6_P3_12853638	Ca6	12853638	TAAAA/TAAA	CTCATCCATCACACCAA AGC	CTCAGATTCTGCGTCC ATCA	59.1	875	INTRON	Ca_05058	T	TALE
Ca6_P3_12855032	Ca6	12855032	A/ATCT	TCGAAGATGGAGATGG AGAGA	CTCTGATATCGAACCC CTGC	59.9	181	INTRON	Ca_05058	T	TALE
Ca6_P3_12856029	Ca6	12856029	CCT/C	AGCCACATGGAAGAAC CAAC	CAGTCGAACTTGCGAT CTTG	60.0	532	DRR	Ca_05058	T	TALE
Ca6_P3_12860020	Ca6	12860020	A/AT	GGTTCGAGAAGGAGCA ATCA	TGAATCCACCAGCAAA ACAA	60.3	549	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 (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
Ca6_P3_12861842	Ca6	12861842	ATTTTTTT/ATTTTTT	TCAATCCCTTCATTCCG AAG	TCGATAGTGGTTTCG TGTTCC	60.0	612	INTERGENIC	--	--	--
Ca6_P3_12868319	Ca6	12868319	TTGCG/T	GCAATGTCAGATAATG GGCA	CCGCATAACCAAACAC TCAC	59.5	637	INTERGENIC	--	--	--
Ca6_P3_12870795	Ca6	12870795	TAAAAAAAA/TAAAAAAAAA	CATCCCAAGCAAAAC GAAT	CATTGAGAGGATCCAA AATCAA	59.9	533	INTERGENIC	--	--	--
Ca6_P3_12877302	Ca6	12877302	CG/CGCTTTTTTG	GTTCTGTAAGGACGGG ATGA	CTTTACAGCGCTTCT GGG	59.9	235	INTERGENIC	--	--	--
Ca6_P3_12878483	Ca6	12878483	GATA/GATATATA	CCCCATCATGCAATCT TCT	TCGAGGGCACTTTTCT TTGT	59.9	373	INTERGENIC	--	--	--
Ca6_P3_12879113	Ca6	12879113	ATTTTTTTTT/ATTTTTTTTTT	TTGCGTTAGGAAATTGA TGAAA	TTTCCCGACTTGGTCC TTTA	59.6	175	INTERGENIC	--	--	--
Ca6_P3_12879345	Ca6	12879345	TAAAAAAAA/TAAAAAAAAA	TAAAGGACCAAGTCGG GAAA	ATCCAAAGGAAAGCAT CGTG	59.5	599	INTERGENIC	--	--	--
Ca6_P3_12888429	Ca6	12888429	T/TC	CCGTCAATTTATATCCT CCCA	AATCAGGGTGCCATTG TAGC	58.8	733	INTERGENIC	--	--	--
Ca6_P3_12888838	Ca6	12888838	ATTTT/ATT	GCTACAATGGCACCTT GATT	AGGATTGAACATTGG CCCT	60.0	334	INTERGENIC	--	--	--
Ca6_P3_12892058	Ca6	12892058	GTTTTTTTT/GTTTTTTTTT	GGTAAAAGCCCACTTG GTGA	TTGGATGTCTGTTGCA TGGT	60.0	913	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
Ca6_P3_12898258	Ca6	12898258	TAAAAAAAAA/TAAAAAAAAA	ACTACCATGTTTGGTG GGGA	CACATTGAAATCAACT TTACACCA	60.1	646	INTERGENIC	--	--	--
Ca6_P3_12904889	Ca6	12904889	C/CAG	ACATATGTCAGCGTAG CCCA	TTGCTGCCACAATAAC TTGG	59.2	479	INTERGENIC	--	--	--
Ca6_P3_12905966	Ca6	12905966	T/TGA	AGAGTTGTTCCGCAAA AGGA	TTACGCACCGGACATA ATGA	60.0	203	INTRON	Ca_05064	T	bHLH
Ca6_P3_12908239	Ca6	12908239	ATGCTGCTGCTGCTGCT/ATGCTGCTG CTGCTGCTGCT	CCACAAGGGACTCCAG GTAA	GGAGCCGGATTCTACC AAAT	60.0	477	CDS (large-effect mutations)	Ca_05064	T	bHLH
Ca6_P3_12921236	Ca6	12921236	T/TA	ATTAGAGGTAATGCCG CCG	GGACTTTGGAGGTGCT TGTC	60.1	415	INTERGENIC	--	--	--
Ca6_P3_12926732	Ca6	12926732	TTGTG/TTG	CCTTTTCGGTCACTTG GTGT	CCTTGGGAAACCAAAA CAAA	60.0	490	DRR	Ca_05065	--	C2H2
Ca6_P3_12927504	Ca6	12927504	ATGTTAAT/A	GAACAGTCTCGCACCT CTCC	ACACCCCATATTCCCA TTCA	60.0	336	DRR	Ca_05065	--	C2H2
Ca6_P3_12928504	Ca6	12928504	CAAAAAA/CAAAAAA	CTTGCGAATGTCTCACA TGG	GGCCCAACCCGTTATA ATTT	60.3	664	DRR	Ca_05065	--	C2H2
Ca6_P3_12930659	Ca6	12930659	TAAAAAAAAA/TAAAAA	TGCCCAGAACTACTAC AAAAGC	CGATGCATTGTTAATG TGGG	58.6	535	INTERGENIC	--	--	--
Ca6_P3_12930965	Ca6	12930965	A/AC	AATGCATCGGTCAAAC CAAC	ATTGCCCATGTAAACC GTGT	60.8	362	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 (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
Ca6_P3_12931395	Ca6	12931395	CAAAAAAAAA/CAAAAAAAAAAAAA	CACGGTTTACATGGGC AATA	ATCTGGTATCAAATGC CCCA	59.3	493	INTERGENIC	--	--	--
Ca6_P3_12940169	Ca6	12940169	GTAATTTGTT/GT	ACGTCAATCCAAAAAGC CAC	AAGTTGGGAGGAGA GGCTA	60.0	279	DRR	Ca_05066	--	--
Ca6_P3_12940701	Ca6	12940701	TAAAAAA/TAAAAAA	TAGCCTCTCCTCCAA CCTT	ATTCATGGATTGGCAT TGGT	60.2	665	DRR	Ca_05066	--	--
Ca6_P3_12944263	Ca6	12944263	ATTTTTTT/ATTTTTTTT	CATTGGTGCTTCAAAC GAT	TCCTCGTACTTCCAA AACG	60.9	533	INTERGENIC	--	--	--
Ca6_P3_12945433	Ca6	12945433	G/GATTCAAGT	TGGTGGTGTAGGTCCA CAGA	TTACAGGTGTTCAAAT TCGT	60.0	415	INTERGENIC	--	--	--
Ca6_P3_12946214	Ca6	12946214	TAAAAAA/TAAAAAA	TGGGTTTCATCACGTAA CAGA	GAATAGTCAGAGCCAA GCGG	59.0	440	INTERGENIC	--	--	--
Ca6_P3_12946396	Ca6	12946396	GAAAAAAAAAAAAAAAAA/GAAAAAAAAA AA	ATTTTATTTCCCGCTTG GCT	CAACAAATGAAGCCC AAAA	59.9	213	INTERGENIC	--	--	--
Ca6_P3_12950292	Ca6	12950292	C/CAGTCA	AGGTCAGACTACATGG CGCA	CACAACCTCCCAATGC TTCT	61.8	562	INTERGENIC	--	--	--
Ca6_P3_12953295	Ca6	12953295	GTTTTTTT/GTTTTTTT	AAATTCATGGATCAATG GGAG	GGGGAGGCGTTAGA AAATA	58.7	267	INTERGENIC	--	--	--
Ca6_P3_12954110	Ca6	12954110	GTAA/GTTAAATTAA	CGAACCAACGGGGAAT AATA	TGAATTGCATCTTGCT CGTC	59.7	438	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
Ca6_P3_12954436	Ca6	12954436	TAAAAA/TAAAA	TGAAATGATGAGGGG AGAC	CCCTTCATCCCTTACC CCTA	59.9	716	INTERGENIC	--	--	--
Ca6_P3_12956363	Ca6	12956363	GTGTT/GT	AATCACGAATGACCAA CGAG	AGCAATGGTTGATGCA TTTG	60.0	804	INTERGENIC	--	--	--
Ca6_P3_12956531	Ca6	12956531	A/ACG	TTCTCTCCGTTGATCTC CAAA	TTTGTCATCCTTGGT AGGG	59.8	869	INTERGENIC	--	--	--
Ca6_P3_12957525	Ca6	12957525	CAAA/CAAAA	CGGTTCACTGTTTTC TTTT	TGAAAAGCTTGAGGAA GGGA	60.1	718	INTERGENIC	--	--	--
Ca6_P3_12963047	Ca6	12963047	TTATAAAT/TTATAAATAACTATAAAT	GCAGAAAACGACATCC ATGA	ACCTGGTTGGCAAACA AAAG	59.7	595	DRR	Ca_05068	--	MYB_related
Ca6_P3_12964776	Ca6	12964776	T/TA	TGAAGATTTAGGACGG GCTG	TGATGAAGAGAATAGT GTCCAGTTG	60.2	751	INTERGENIC	--	--	--
Ca6_P3_12964933	Ca6	12964933	TCATTA/T	CTTGTTGCCAAGTAGG GTCG	CCAAGGGAGAGGTGC TTAAA	60.7	976	INTERGENIC	--	--	--
Ca6_P3_12967633	Ca6	12967633	TAAAAA/TAAAAAA	TGCAAAAATTAAGGGG CATT	TTTGATATTTTGGACA AGCCA	59.4	583	INTERGENIC	--	--	--
Ca6_P3_12970794	Ca6	12970794	TTTTATTTATTTATTT/TTTTATTTATTTA TTTTATT	GTTGTGTTGGCACTG TTTG	TTGGTCTTGTTATGC GGTG	60.0	584	INTRON	Ca_05069	S	--
Ca6_P3_12972982	Ca6	12972982	GTTTTTTTTTT/GTTTTTTTTTT	AGTTGGTGAGAGGAAG CGAA	GTCCAACCCAGTGGAG AAAA	60.0	487	INTRON	Ca_05069	S	--

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
Ca6_P3_12977836	Ca6	12977836	ATCT/AT	TGTTCAATTCAGCACT CGG	CGCCATCATAGATGTC CCTT	59.8	715	DRR	Ca_05071	O	E2F/DP
Ca6_P3_12978174	Ca6	12978174	ATTTT/ATTT	ATCTATGATGGCGCAA GAGC	TGTGCAGATCACAAAC ACCA	60.3	529	DRR	Ca_05071	O	E2F/DP
Ca6_P3_12979257	Ca6	12979257	TATAAAATATTTTCATAA/TATAAAATAT TTTCATAAAATATTTTCATAA	CCAGCAGTTTGTG TGTG	AGGTGTGCTTCCTCTG GAAT	60.2	545	INTRON	Ca_05071	O	E2F/DP
Ca6_P3_12980658	Ca6	12980658	TAAAA/TAAA	GCAAAATCCCCAGCAA TCTA	TGTCGTGGTGCAATTT CAAT	60.0	500	INTRON	Ca_05071	O	E2F/DP
Ca6_P3_12980846	Ca6	12980846	TAAAAAAA/TAAAAAAA	ATTGAAATGCACCA GACA	GGAATTTGGTGGGA GAAT	60.0	417	INTRON	Ca_05071	O	E2F/DP
Ca6_P3_12999133	Ca6	12999133	ATAA/ATAATGTAA	ACGAAAGGACATATCG CCAC	GGAAGGGTGCAAAACA ATTC	60.0	943	INTERGENIC	--	--	--
Ca6_P3_13128943	Ca6	13128943	CTTTTTTTTT/CTTTTTTTTT	CACCACGAGATCAAAA CCCT	CCATTGGCAGTGGAAC TCTT	60.0	482	INTERGENIC	--	--	--
Ca6_P3_13170216	Ca6	13170216	AATATATA/AATATATATA	TCAACCAAGAATTGCTG CTAAA	AGGGAGTATTCACGGC ACAC	59.9	502	INTERGENIC	--	--	--
Ca6_P3_13178639	Ca6	13178639	TG/T	GTGGGGTGTCTCTGCT GATT	TCGGTCTCCAACACTG ACAC	60.1	443	INTRON	Ca_05088	--	--
Ca6_P3_13180103	Ca6	13180103	TTTATTATTATTATTATTATTATTAT/ TTTATTATTATTATTATTATTATTAT TAT	TTTGAGTCAGTCAACG CAGG	TAAACCATTCAAACCC CCAA	60.0	830	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
Ca6_P3_13206663	Ca6	13206663	AAGAGAGAGAGAGAGAGAGA/AAGAG AGAGAGAGAGAGAGAGA	TGATGTTGACCAGAC CAAA	TGGAAGCATTGTTAA GGGG	59.9	501	INTERGENIC	--	--	--
Ca6_P3_13207368	Ca6	13207368	GTTTTTTTTT/GTTTTTTTTT	TTGCTTCCACTGTTT GGA	AAAAACATGTTAATTGG GAGGAA	59.3	538	INTERGENIC	--	--	--
Ca6_P3_13246843	Ca6	13246843	AATATATATATATATATATAT/AATAT ATATATATATATATAT	GGCTTGCCTCAAATTCA AGA	TTTGTCACAAGTGCGA GTTAAT	60.3	656	INTERGENIC	--	--	--
Ca6_P3_13381796	Ca6	13381796	TAAAAAAAAA/TAAAAAAAAA	GGGTTCTGAGTTGTAT GCGAA	CATGGATCAGAGTTGC CTTG	60.0	883	INTERGENIC	--	--	--
Ca6_P3_13394015	Ca6	13394015	GATATATATATATATATATATA/GA TATATATATATATATATATA	TTGCCACTTGATACAGC AAAA	TGCAACTTGCCTCTAG GATG	59.4	771	DRR	Ca_05112	Q	B3
Ca6_P3_13422865	Ca6	13422865	CAAAAAAAAA/CAAAAAAAAA	CATCGTCGTCAACCAG TGTT	TGTGAGCCTGCTCATT GTTC	59.6	550	INTERGENIC	--	--	--
Ca6_P3_13428719	Ca6	13428719	CTATTTATTTATTTATTT/CTATTTATTT ATTTATTTATTTATTTATTT	GTCTGCGAAAAAGGAG TTGC	TTCCCTATTGCACCT GGAG	60.0	329	INTERGENIC	--	--	--
Ca6_P3_1343859	Ca6	1343859	GAAAAA/GAAAAA	CAACGAGTTTGATTCT ATTCTAACG	TTGGGTAGCCAAGGTT TCAC	59.7	721	INTERGENIC	--	--	--
Ca6_P3_13440291	Ca6	13440291	CATATATATATATATATATATATAT ATATATAT/CATATATATATATATATA TATATATATATATATATAT	GCAAACAACGTTGAGG TTCA	CGCTTTAGGTTTTGTT CGTT	59.7	355	INTERGENIC	--	--	--
Ca6_P3_1345603	Ca6	1345603	AACTAT/A	CAGCCACGATATCTCG TCAA	TTAAGTCCAATATGCG GGGA	59.8	560	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
Ca6_P3_13475824	Ca6	13475824	AAAGAAGAAGAAGAAGAA/AAAGA AGAAGAAGAAGAA	TGTGGTCCCAACAAT CTCA	TTTGGGTCAAGGAAA ATGG	59.9	330	INTERGENIC	--	--	--
Ca6_P3_13481060	Ca6	13481060	GAAAAAAAAA/GAAAAAAAAA	AAAGGTGCTGCCTGTC CTTA	GGAGTTGGAACTCGGA ACAA	59.9	483	INTRON	Ca_05119	S	--
Ca6_P3_13496923	Ca6	13496923	AATA/AA	GAAAGCAGTCGTGACC ATCA	TTCAAAACATGTCACG TCGTC	59.8	419	INTERGENIC	--	--	--
Ca6_P3_1350878	Ca6	1350878	A/AGTCTGT	ACACATCAGCTTTTGG CTG	AGCCCACTCACCTTCT TCCT	58.9	428	INTERGENIC	--	--	--
Ca6_P3_1351704	Ca6	1351704	TGT/TGTTAGT	CTCATCGCATGCTTTT GAA	ATGAAATGAAGAAAGG GGCA	60.0	350	INTERGENIC	--	--	--
Ca6_P3_1354322	Ca6	1354322	GAA/GAACCAA	AATTGTCATAGGCGGT GAAG	GGTGTTACAGCTTTCA TGAACAAA	60.1	420	INTERGENIC	--	--	--
Ca6_P3_13659732	Ca6	13659732	AT/AATTTT	GCATAACACGCAGGT AGCA	CATGTTGAAAATCACG GCTG	59.9	584	INTERGENIC	--	--	--
Ca6_P3_1377550	Ca6	1377550	GATATA/GATATATA	GGCCACACTAAAGTGC CATT	TGTCCATTTTCTGGGA CACA	60.0	551	INTERGENIC	--	--	--
Ca6_P3_13838996	Ca6	13838996	CCT/CCTTCT	TGTGTGATTGGTGTG AGCA	GCAACAACGGGTGAAA ATCT	59.7	563	INTERGENIC	--	--	--
Ca6_P3_13839034	Ca6	13839034	CAAAAAAAAA/CAAAAAA	ATGACTTTGTTTGGCC CTG	GCAACAACGGGTGAAA ATCT	60.0	166	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 (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
Ca6_P3_13839096	Ca6	13839096	AATATA/AATA	ATGACTTTGTTTGGCC CTG	GCAACAACGGGTGAAA ATCT	60.0	166	INTERGENIC	--	--	--
Ca6_P3_14061005	Ca6	14061005	AAGAGAGAGAGAGAGAGAGAGAGA GA/AAGAGAGAGAGAGAGAGAGAG AGA	GAGGGAAGCGTGTCAA AGAG	ATCCCCTCCGACATT TCTC	60.0	126	INTERGENIC	--	--	--
Ca6_P3_14219953	Ca6	14219953	CAAAAAAAAA/CAAAAAAAAAA	TTTGTTTTCCAACCTG GTCC	TTTGTTCAAAGTCCC CGAG	59.0	543	INTERGENIC	--	--	--
Ca6_P3_14270626	Ca6	14270626	CATATATATATATATATATATATAT ATATATATAT/CATATATATATATATA TATATATATAT	ACCGAGTGCGAACTC AAGG	ATGCATTATGGCCTC TCCA	60.3	710	INTERGENIC	--	--	--
Ca6_P3_14277957	Ca6	14277957	AATATATATATAT/ATATATATATAT ATATAT	GGAGAAAATTAAGAG GAGGGA	ATGGGGCCATCAAGTA CTCA	59.9	261	INTERGENIC	--	--	--
Ca6_P3_14278804	Ca6	14278804	CCTTTAAATGC/CC	GACTTGGTCCAATCATA CACCA	TTTTGTAACCGCTTTTC ACG	59.7	636	INTERGENIC	--	--	--
Ca6_P3_14293231	Ca6	14293231	AATATATATATATATATATAT/AAAT ATATATATATATATATATATAT	CCCCAACACACCAATAA ACC	ACCAACAATGGGTATT CGGA	59.9	504	INTERGENIC	--	--	--
Ca6_P3_14362429	Ca6	14362429	G/GAAGAATTATC	AAGGGGAGTGGTCTGG AGAT	CTTAGGAAAAATCCTC CGCC	59.9	683	INTERGENIC	--	--	--
Ca6_P3_14410304	Ca6	14410304	TTTTATTTATTTATTTATTTATTTA TTTTATTTATTTAT/TTTTATTTATTTAT ATTTATTTATTTATTTAT	TTGTGCATGTTGTGG ATCT	TCTCAAGTTTGAAGC GAGTCAA	60.0	193	INTERGENIC	--	--	--
Ca6_P3_14457838	Ca6	14457838	AA/AATA	GGAGAAAGGAGAAGAG GTCCA	AACAGACCTCCAATG CCAC	59.8	464	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
Ca6_P3_14534609	Ca6	14534609	AATATATATATATATATA/AATATATA TATATATATA	TGATGTGTAATAGGGC AATGGA	CCTATGGCCTGGCCTA CATA	60.2	222	INTERGENIC	--	--	--
Ca6_P3_14614892	Ca6	14614892	AAG/A	GGATTCAAATTCTAAAT CAGGGG	CACATCAATCAATCTCT GCTCA	60.0	189	INTERGENIC	--	--	--
Ca6_P3_14755534	Ca6	14755534	AATATATATATATATATATAT/AAT ATATATATATATATATATATATAT	TTTTAACCGTGGTTTGA AACTT	AGTCAGACGCTACTCG GCAT	57.8	212	INTERGENIC	--	--	--
Ca6_P3_14755753	Ca6	14755753	ATT/ATTT	AACTTGATGCCGAGTA GCGT	TTTGTGAGGGCTTTTT CAGC	59.9	633	INTERGENIC	--	--	--
Ca6_P3_14909181	Ca6	14909181	ATTTTTTTTTTTT/ATTTTTTTTTTT	CTGCATGCCCTTTCTTG TTT	TGATTTTGAAGGGGA AAAA	60.2	887	INTRON	Ca_05265	Q	Nin-like
Ca6_P3_1491943	Ca6	1491943	CT/CTT	TGGTTTTCGTACCGGA CTCT	CAATGTCATCAAATAG CGGC	59.6	772	INTRON	Ca_27033	H	--
Ca6_P3_1492206	Ca6	1492206	TAAGAAGAAAAG/TAAGAAGAAAAGAA GAAAAG	CCGTGCATATGACAGA AATGA	ATGCACCGTTGAAACA ACAA	59.6	510	INTRON	Ca_27033	H	--
Ca6_P3_1492346	Ca6	1492346	ATAGC/ATAGCGCCGCTGTAGC	CCGTGCATATGACAGA AATGA	ATGCACCGTTGAAACA ACAA	59.6	510	INTRON	Ca_27033	H	--
Ca6_P3_1492728	Ca6	1492728	AT/ATT	TTGTTGTTTCAACGGTG CAT	ATGGTTGGGGGATAAA AAGG	60.0	651	INTRON	Ca_27033	H	--
Ca6_P3_14938058	Ca6	14938058	TAAAAAAAAA/TAAAAAAAAA	CCTCCTACATTGTGGG TGCT	ACATTTGGCCCATTTG GTTA	60.0	754	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
Ca6_P3_14959810	Ca6	14959810	CTTTTTTTTT/CTTTTTTTTT	GCGAAATGCTTCTCAAA ACC	CGTTACAACGTTGCTG AATGA	59.8	745	INTERGENIC	--	--	--
Ca6_P3_15244446	Ca6	15244446	TAAAAAAAAA/TAAAAAAAAA	TCGCGTGTGGGTATGT TTTA	TGAGCAAATGAAAATT AAAAACCA	60.0	520	DRR	Ca_05306	--	--
Ca6_P3_15277411	Ca6	15277411	AATTATTATTATTATTATTATTATTA TTATTATTATTATT/AATTATTATTATTA TTATTATTATTATTATTATTATT	CGTCTTTCTAATATTT GCCGA	CATGAAAGTGGTCAGA TGCG	58.5	700	INTERGENIC	--	--	--
Ca6_P3_15358737	Ca6	15358737	AT/ATTAATATTT	GTTTCTGACCCAACCTC GCAT	AAGATGAGAGGACGAT ATCCAAA	60.1	522	INTERGENIC	--	--	--
Ca6_P3_15358761	Ca6	15358761	A/ATTTTTC	GTTTCTGACCCAACCTC GCAT	AAGATGAGAGGACGAT ATCCAAA	60.1	522	INTERGENIC	--	--	--
Ca6_P3_1539975	Ca6	1539975	AACA/AA	GCTCTCCAATGTGTAAT CGCT	GCAATCAAACCACCAT TTCC	59.4	748	INTERGENIC	--	--	--
Ca6_P3_1540568	Ca6	1540568	CTTTTTTTTT/CTTTTTTTTT	GGAAATGGTGGTTTGA TTGC	TTTTTGGGTAAGGTTT GAAATGA	60.2	496	INTERGENIC	--	--	--
Ca6_P3_1548359	Ca6	1548359	GTTTTTTTTT/GTTTTTTTTT	AAGGAGTTGGTTGGTG TGTTTT	TGACTAGGAAATTCGA GGGG	59.8	601	INTERGENIC	--	--	--
Ca6_P3_15508917	Ca6	15508917	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	TGTTTGATTGGGTGG TTCA	TGGGTGCTTTATTAAG ATGGG	59.8	849	DRR	Ca_05334	--	--
Ca6_P3_15524701	Ca6	15524701	TA/TCCCTGAGTTCA	GAGATGTCAAGGGAAG GGAA	TTGTGATGCCAACTTA ACGG	59.1	523	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
Ca6_P3_15555599	Ca6	15555599	AATATATA/AATATA	TGTGGGCACATTAGTA GGCA	TCATCGTCGTTGCTTG AGTC	60.1	640	INTERGENIC	--	--	--
Ca6_P3_15559125	Ca6	15559125	CTTT/CTT	TCACCAAACAAAACTG GGG	CTACATTCCGGTTAGG GCAA	60.8	480	INTERGENIC	--	--	--
Ca6_P3_1556126	Ca6	1556126	GA/G	ATTGTTCTCCGTTGTCA GGG	CTGAGATTAGCTTCGG TGGG	60.0	348	INTERGENIC	--	--	--
Ca6_P3_1556869	Ca6	1556869	TAAAAA/TAAAAA	CAATTGGTTGGGCGT AAAC	TTGCTTTATACTCATAT TTTGGCCT	60.2	528	INTERGENIC	--	--	--
Ca6_P3_15577471	Ca6	15577471	TTCATTATCATTATCATTATCA TTATCATTAT/TTCATTATCATTATCATT ATCATTATCATTATCATTATCATTAT	ACATCCAGTCTCTGCAA ATCC	TGAACTCTGAGCGTGT GACC	59.9	852	INTERGENIC	--	--	--
Ca6_P3_1559285	Ca6	1559285	GTTA/GTTATTA	CAGAGCAGTGTGACAG CAAGA	TCAAAAATTTCAAACAA AATCCA	60.4	456	INTERGENIC	--	--	--
Ca6_P3_1559414	Ca6	1559414	CAAAAAAAAAA/CAAAAAAAAAA	CAGAGCAGTGTGACAG CAAGA	TATTTTATCCACCGC TGC	60.4	879	INTERGENIC	--	--	--
Ca6_P3_1559495	Ca6	1559495	GAACAAA/GA	GGATTTTGTTTGAAATT TTTGATG	TATTTTATCCACCGC TGC	58.9	445	INTERGENIC	--	--	--
Ca6_P3_1559581	Ca6	1559581	ATTTTTTTTTTT/ATTTTTTTTTT	TGAAGTTAAATTAAAGG ATCGCA	TATTTTATCCACCGC TGC	58.0	283	INTERGENIC	--	--	--
Ca6_P3_15597965	Ca6	15597965	TAAA/TAAAA	CAGTTTCCACACGCAC AGAT	TGGGAACAAGCATGGT GTAA	59.8	681	DRR	Ca_05341	--	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 (°C)	Expected 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_P3_1560016	Ca6	1560016	TTT/TTTAATT	AATATTACTGCAGCGT GGG	GGACCACAAGAAATCC TCCA	60.0	719	INTERGENIC	--	--	--
Ca6_P3_15607994	Ca6	15607994	AACA/AACATCTACA	CAATCGATTCCCTCAG CACT	TTCCCACTAGCTTTG TTCCA	60.2	463	INTERGENIC	--	--	--
Ca6_P3_15727278	Ca6	15727278	ATTTATTTATTTATTTTACTTATT TTATTTATTTT/ATTTATTTATTTATTTA TTTTATTTATTTACTTATTTATTTATT TT	TCCCCCGTCTAACTAG GGTT	TCGTGTCCCAAAACTC AAGG	59.8	766	INTERGENIC	--	--	--
Ca6_P3_15727514	Ca6	15727514	ATTTATTTATTTTATTTTATTT/ATTTAT TTATTTTATTTTATTTTATTT	TTAGTTTGGGCTTGGG TTTT	TTGCTCTACGTATCT CCCG	58.6	911	INTERGENIC	--	--	--
Ca6_P3_15728010	Ca6	15728010	CAAAA/CAAAA	CGGGAGATACGTAGGA GCAA	TCGATTATGCGTAGGG AAGG	60.2	248	INTERGENIC	--	--	--
Ca6_P3_15730699	Ca6	15730699	TAAA/TAA	ATTTGAACCTGGCAGC AAAA	GGTTTGAAAAAGGGGT GATG	60.6	175	INTERGENIC	--	--	--
Ca6_P3_15730843	Ca6	15730843	T/TGA	ATTTGAACCTGGCAGC AAAA	GCTTGATGAATAAATC AATGGCT	60.6	525	INTERGENIC	--	--	--
Ca6_P3_15731057	Ca6	15731057	TAAAAA/TAA	ATTTGAACCTGGCAGC AAAA	GGGACAAAAGGCTAGT TTGG	60.6	909	INTERGENIC	--	--	--
Ca6_P3_1580380	Ca6	1580380	GAAAAAAAA/GAAAAAAAA	GACTCAAGTTGGGCTC TTCG	TTGGCAAAATGATTGC ATCT	60.0	922	INTERGENIC	--	--	--
Ca6_P3_15867174	Ca6	15867174	ATTATTTATTTATTTATTTATTTATTTAT TT/ATTATTTATTTATTTATTTATTT	TTTTAGACGAGGCCTA GGGA	TTTTGATGTAGCTCGA CGCA	58.9	504	DRR	Ca_22021	K	MYB

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
Ca6_P3_15946706	Ca6	15946706	GATATATATATATATAT/GATATATATAT ATATATAT	TGTTGCAGTCATGCTTT TGA	TGAATCTGCTATGCG CAAC	59.0	306	DRR	Ca_22027	C	--
Ca6_P3_15966204	Ca6	15966204	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTA/GTTATTAT TATTATTATTATTATTATTATTATTA	CTGCCTGAAATTTGGTT GCT	AGATGCGACCTCCTAC TTGC	60.2	229	INTERGENIC	--	--	--
Ca6_P3_15977742	Ca6	15977742	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATT/TTTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATT	CAAGTTTTGGAGAAAC CCCA	CCCATATAGAAAAATG ATTGGTTCA	59.9	823	INTERGENIC	--	--	--
Ca6_P3_15999975	Ca6	15999975	A/AG	AAGTGTGGGCATTTC TTTG	ATGGACCTCTGTATTC GCCA	60.0	137	INTERGENIC	--	--	--
Ca6_P3_16011007	Ca6	16011007	AATATATATATATATATATATA/AATA TATATATATATATATATATATATA	ACCAAAAAGGTTTTGCA TCA	GGATGCTGACTATTT TGATCA	58.1	265	INTERGENIC	--	--	--
Ca6_P3_16012701	Ca6	16012701	TA/TAA	TAAGAGTTTGGTTCCG GTGG	TGTGCAGATAAATGGC CAAA	60.0	397	INTERGENIC	--	--	--
Ca6_P3_16023505	Ca6	16023505	GTTTTTTTTT/GTTTTTTTTT	TGAGGATCAACCTTTGT TTTGA	TGGGCTAAATATCACT TGTGGTC	59.6	654	INTERGENIC	--	--	--
Ca6_P3_16052205	Ca6	16052205	AATTATTATTATTATTATTATTATTA TTATTATTAT/AATTATTATTATTATTAT TATTATTATTATTATTATTATTAT	TACGATCAATCCGCAA CTGA	TTGGAGCATCACAAAG TAAACA	60.2	728	INTERGENIC	--	--	--
Ca6_P3_16093896	Ca6	16093896	AAAAATATATAAAAAATATA/AAAAATA TA	TGCAAAAAGATGGCAA TGAA	TTTCCTTAAATATCCAT CCAGTCA	60.2	598	INTERGENIC	--	--	--
Ca6_P3_16253665	Ca6	16253665	AATATATATATATATATATATATAT /AATATATATATATATATATATATATA TATATATAT	CGTGGAAATCGTATTCG TGTC	TTGAATCGACACTCAA CCCA	60.0	490	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	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
Ca6_P3_16339675	Ca6	16339675	AATATATATATATATATATATATATATATATATATA/AATATATATATATATATATATATATATATATATA	GGATGTGCCAATGATTGGT	TCTCCCTTTCTTGCTCTCA	60.6	700	INTERGENIC	--	--	--
Ca6_P3_163779	Ca6	163779	CGAGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGAGAGAGAGAGAGAG/CG AGAGAGAGAGAGAGAGAGAGAGAGAG AGAGAGAGAGAGAGAGAGAGAGAGAG AG	CACAGACCCTCATGTT CCCT	GCGAGATACTTGTCGAA	60.0	563	INTERGENIC	--	--	--
Ca6_P3_16476384	Ca6	16476384	AGAGAA/AGAGAAATGACGAGAA	CTTGATGTTTCCGATGTGA	TCTCTAAGGGGACACCATCG	59.5	671	INTERGENIC	--	--	--
Ca6_P3_16547931	Ca6	16547931	GA/GAGAGCTTA	TTCTTCCTGCTCGTG CTAT	TTCTTTGGCTGAAATG GTCC	60.0	640	INTRON	Ca_06284	A	--
Ca6_P3_16693859	Ca6	16693859	TTATATATATATATATATATATATATA /TTATATATATATATATATATATATA	TAAAACCCCTGCTTTGG TTG	TTCCACATGGGGTTTT CATT	60.0	237	INTERGENIC	--	--	--
Ca6_P3_16808061	Ca6	16808061	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT/T TATTATTATTATTATTATTATTATT ATTATTATTATT	TGAGTGAAAGGTGTAG TGGGTG	GCGTGTTGAAACCCAT TCIT	60.1	582	INTERGENIC	--	--	--
Ca6_P3_1682722	Ca6	1682722	GTGCATCTGTITT/G	GAGGCATTGTCTTTGG TGGT	GCAAATGTTTGGAATG GCTT	60.0	656	INTERGENIC	--	--	--
Ca6_P3_1683226	Ca6	1683226	CAA/CA	AATAAGTCCATCCGCC TCCT	TTGTGGATGGCGTTTG ATAA	59.9	276	DRR	Ca_10299	--	HB-other
Ca6_P3_1683327	Ca6	1683327	AC/A	TTATCAAACGCCATCCA CAA	CACTTGCGTGTGGTAG TGCT	59.9	504	DRR	Ca_10299	--	HB-other
Ca6_P3_1683470	Ca6	1683470	C/CCCCAACAAATCATAAC	TTATCAAACGCCATCCA CAA	CACTTGCGTGTGGTAG TGCT	59.9	504	DRR	Ca_10299	--	HB-other

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
Ca6_P3_16854632	Ca6	16854632	GAAAAAAAAA/GAAAAAAAAA	TTGCCCTATTATTGACT TTTGGA	AGATCGCTCTCCGACC CTAT	59.9	421	INTERGENIC	--	--	--
Ca6_P3_1694188	Ca6	1694188	AATATATATATATATATATATATATAT ATATATATATA/AATATATATATATATAT ATATATATATATATATATA	GCGAATGACATATGTG ACGG	TGTTCTGATTTTGTTC GATTGC	60.0	826	INTERGENIC	--	--	--
Ca6_P3_16988108	Ca6	16988108	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	CCTCTGACGAAGAGTT TGCC	AACTCGCAAGTTACGC GA	58.9	512	INTERGENIC	--	--	--
Ca6_P3_16990146	Ca6	16990146	TTATATATATATATATATATA/TTATATA TATATATATATATATA	TGGGCAAATTAAGGAA CCAA	ACAGAGGGCCGAATA TGAT	60.3	619	INTERGENIC	--	--	--
Ca6_P3_16996867	Ca6	16996867	TTTCCCTNNNNNNNNNTTCCCT/TTT CCCT	GACGTTCATAAAGGTTA GTCTTAAACC	ATAAACGGGACCGGT AATC	59.1	547	INTERGENIC	--	--	--
Ca6_P3_17008571	Ca6	17008571	ATTTTTTTTTTTTTTTTT/ATTTTTTTTT TTTTT	CGAAACTAACCTACTG TCACCC	GTCCGTATGAAGTGAT GGGG	59.1	591	INTERGENIC	--	--	--
Ca6_P3_17013081	Ca6	17013081	CTTTTTTTTTTT/CTTTTTTTTTTT	CGAATCAAATGGAATTT GGG	TTTGTGATTGGGTGTT TGGA	60.1	366	DRR	Ca_06323	--	B3
Ca6_P3_17025431	Ca6	17025431	ATTTTTTTTTTT/ATTTTTTTTTTT	TTTGCTCCACGTTTTT CTT	GGCTTATAGGCCACG TTTT	59.7	562	INTERGENIC	--	--	--
Ca6_P3_17025727	Ca6	17025727	AATA/AA	TTTGCTCCACGTTTTT CTT	GGCTTATAGGCCACG TTTT	59.7	562	INTERGENIC	--	--	--
Ca6_P3_17043003	Ca6	17043003	CTTTTTTTTT/CTTTTTTTTTTT	CGAGATTTAAACAAAA TTGGGA	TATCTTGGTGGGACTG GGAG	59.4	533	DRR	Ca_06325	--	--

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
Ca6_P3_17044026	Ca6	17044026	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAAA/AAATA ATAATAATAATAATAATAATAATAA TAATAATAATAA	AATTGGGGCATGTGCT ATTG	TGCTGCTGCAATTGA TTTC	60.7	874	DRR	Ca_06325	--	--
Ca6_P3_17076597	Ca6	17076597	GTTTTTTTTT/GTTTTTTTTT	TCCAAAGTAATTGGACC CCA	TCGCATATCACAAAC AGCA	60.2	641	INTERGENIC	--	--	--
Ca6_P3_17082875	Ca6	17082875	A/ACCTTAT	GGACACAATTGCAACA GCAT	TGATTGCGGAAAATAG TCCC	59.6	817	INTERGENIC	--	--	--
Ca6_P3_17083127	Ca6	17083127	AGA/AGAATTTTGA	TTAGCTGAATCACGAAC CCC	TGATTGCGGAAAATAG TCCC	60.1	271	INTERGENIC	--	--	--
Ca6_P3_17085352	Ca6	17085352	TTTTATTTATTT/TTTTATTTATTTATTT	CGCAAAATGCAATGA CTG	TTCCCCATGCATCACT ATCA	60.3	385	INTERGENIC	--	--	--
Ca6_P3_17087281	Ca6	17087281	TG/T	GATGGGGAATGTGGC TTGT	CGGATCTTAAAAAGTG GACCC	59.7	715	INTERGENIC	--	--	--
Ca6_P3_17088760	Ca6	17088760	ATT/ATTT	TTTCGTGGCTTTCATTG TTT	CGATTCAATTTGTTGTC CCA	58.3	783	INTERGENIC	--	--	--
Ca6_P3_17092081	Ca6	17092081	A/AG	TGCACCCCTAATTTTAA GCAA	GGATTTTGGGGAGCTT GAA	59.6	468	DRR	Ca_06327	C	--
Ca6_P3_17094283	Ca6	17094283	GAAAAAAA/GAAAAAAA	ATTATCACTTGAGGCC GTGG	CATCTTTTGTGGGAT GGCT	60.0	414	INTRON	Ca_06327	C	--
Ca6_P3_17095470	Ca6	17095470	A/AT	TGCTTCTGCAGCTTCA CCTA	TCTCCACTGATAACTG CCCC	59.9	341	INTRON	Ca_06327	C	--

[illegible]

[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 (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
Ca6_P3_17989965	Ca6	17989965	AAATGAATGAATGAATGAATGAATGAA TGAATGAATGAA/AAATGAATGAATGAA TGAATGAATGAATGAATGAATGAATGA A	AAGAAGCGTGCCTACAG CAT	TCAGCGAGGATGAGGT TTTT	60.0	137	INTRON	Ca_06421	T	YABBY
Ca6_P3_1801654	Ca6	1801654	TAT/TATTGTACAT	ACGGTGAACTGGTGGA CTTC	TCACACATTCGCTCAA ATCC	60.0	482	INTERGENIC	--	--	--
Ca6_P3_1802085	Ca6	1802085	TAAA/TAAAA	GGATTTGAGCGAATGT GTGA	TCAAAATTATCGGAGA TTTGCAT	59.7	230	INTERGENIC	--	--	--
Ca6_P3_1803443	Ca6	1803443	GAAAAAAAAA/GAAAAAAAAA	AACTGCCAGAGAGTCA GGGA	ATGGAACCAGAATTGC TTGC	60.0	876	INTERGENIC	--	--	--
Ca6_P3_1803749	Ca6	1803749	GTAAAAAAAA/GTAAAAAAAAATAAA AAAAA	GCATTTAAAAATAGAAA TATCTGGTCA	AAATGGGTACGCAGAA AACG	58.3	529	INTERGENIC	--	--	--
Ca6_P3_1813601	Ca6	1813601	TTTTTATTTTAT/TTTTTAT	GGATCACATGAAACAA CTGTGC	TGCAAACTTCACCTTA GCTTGA	60.4	229	INTERGENIC	--	--	--
Ca6_P3_1813683	Ca6	1813683	AA/AACA	GGATCACATGAAACAA CTGTGC	TGCAAACTTCACCTTA GCTTGA	60.4	229	INTERGENIC	--	--	--
Ca6_P3_1813721	Ca6	1813721	GCCAATAAAAT/GCCAATAAAATCCAAT AAAAT	GGATCACATGAAACAA CTGTGC	GCAAAACATTGTACCA AGACGA	60.4	682	INTERGENIC	--	--	--
Ca6_P3_1815783	Ca6	1815783	A/AC	CGAATCATTCAAACCC GTCT	GAGGATTGGGTTGGG ATCT	59.9	129	DRR	Ca_10308	TZ	--
Ca6_P3_18181029	Ca6	18181029	ATTTTTTTTTTT/ATTTTTTTTTTT	GAGGTCGATTGGTCAT TATGG	TCATCATCCACCACA GCAT	59.3	573	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
Ca6_P3_18216735	Ca6	18216735	TTACTTAAGTTG/TTACTTAAGTTGATC CTTAAGTTG	TGTTCAACCGCATTAAAT TTGA	ATAGCAACTTCCGAGATGCG	59.1	517	INTERGENIC	--	--	--
Ca6_P3_1824130	Ca6	1824130	GT/GTT	TTGCAGATGCATGGGAATA	TCCAAACTCTCCGACCAAC	60.0	779	INTERGENIC	--	--	--
Ca6_P3_1824803	Ca6	1824803	TCC/TC	GTTTGGTCGGAGAGTTTGA	CCCTCCTTATCCTTACGGTTG	60.1	470	INTERGENIC	--	--	--
Ca6_P3_1824964	Ca6	1824964	ATTT/ATTTT	GTTTGGTCGGAGAGTTTGA	TTTGTGCATGACGCAAGACT	60.1	786	INTERGENIC	--	--	--
Ca6_P3_1825208	Ca6	1825208	A/AGATATTG	CAACCGTAAGGATAAGGAGGG	TTTGTGCATGACGCAAGACT	59.8	337	INTERGENIC	--	--	--
Ca6_P3_18259252	Ca6	18259252	GAAAAAAA/GAAAAAA	TTCAAGGATGGGAAATGCTC	ACAGCCATCCATGCTCGTAT	60.0	980	DRR	Ca_06443	T	HSF
Ca6_P3_1825931	Ca6	1825931	C/CT	TCAAATCACATCACCGTTTG	AGCTCCCAATTTTGCACTTG	57.9	508	INTERGENIC	--	--	--
Ca6_P3_18298213	Ca6	18298213	TAAAAAAAA/TAAAAAAAAA	TGTGTAAGATCCGCCACTTG	GCAAAGTGTGGCTTTGTTCA	59.7	717	DRR	Ca_06446	--	ERF
Ca6_P3_1831021	Ca6	1831021	CA/CA	GTGTACCTGTTGGGCAACT	TTGGACCTTGTTCTTTGCC	59.9	279	DRR	Ca_10310	G	--
Ca6_P3_1831168	Ca6	1831168	AATATA/AATATATAATAAAAGATATA	GGCAAAAGAACAAGGTCCAA	CCTGGATGAACCAATACACAA	60.1	354	DRR	Ca_10310	G	--

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 (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
Ca6_P3_18331022	Ca6	18331022	G/GTTCCGGGTATC	TATATTGCTGCCACAAT CGC	TTTCCTCCTTGAATC ATGG	59.7	402	INTRON	Ca_06449	QI	B3
Ca6_P3_1833737	Ca6	1833737	ACC/ACCC	AAGGTGGGTTCAGACC TTCT	ATTCTCGGTTGACGA GATG	57.7	450	INTERGENIC	--	--	--
Ca6_P3_18382715	Ca6	18382715	TAAAAAAAA/TAAAAAA	GTGGCAACCTTCTCTT CGAC	GGCTACCTCGCGTGTA ACAT	59.9	664	DRR	Ca_06453	--	--
Ca6_P3_18426160	Ca6	18426160	A/ATATATATATATAT	TCCACCTAATCATTCA AAATATCG	TAAATTGTTGGGCAT CGGA	58.4	319	INTERGENIC	--	--	--
Ca6_P3_1844963	Ca6	1844963	TAAAAA/TAAAAA	TGATGGAAATGTCATAT CACGG	CAGTGCATGCACAAC TTTT	60.6	426	INTERGENIC	--	--	--
Ca6_P3_1845280	Ca6	1845280	AA/AAGCA	AAAAGTTGTGCATCGC ACTG	GGCAACCTTTGTTGT TCAT	59.9	329	INTERGENIC	--	--	--
Ca6_P3_18457126	Ca6	18457126	TAAAAAAAA/TAAAAAAAAA	TTCAATCTCTCTCGTGT TGGAG	ACAAGTGTGGGAACA TTCA	59.5	861	DRR	Ca_06460	EI	--
Ca6_P3_18458309	Ca6	18458309	TA/TAATAATAGAA	CCAACGATAAAATTAAT TGGGA	GACGGATGTGTGAAAT CTTGAA	58.0	468	INTERGENIC	--	--	--
Ca6_P3_18463608	Ca6	18463608	GAAAAAAAA/GAAAAAAAAA	TTTCCCGACTTGGTCTT TTA	AAGAACGAATATCAAA CTCCATCA	59.5	405	INTERGENIC	--	--	--
Ca6_P3_18464095	Ca6	18464095	ATTTTTTTT/ATTTTTTT	TGATGGAGTTTGATATT CGTTCTT	AGGGATAGTTTGGGAA TGGG	59.1	765	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 (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
Ca6_P3_18780292	Ca6	18780292	TAAAAA/TAAAA	AAGGCACGTAACCAAA TTGC	TGAATTAGGATGTGCT TCAAGG	60.0	771	INTERGENIC	--	--	--
Ca6_P3_18892944	Ca6	18892944	AATATATATATATATATA/AATATATATA TATATA	TCATGTGCAGACAAAG TCACC	GCACCCTATACAATTG CACAAA	59.7	802	INTRON	Ca_06496	K	HD-ZIP
Ca6_P3_189837	Ca6	189837	AC/A	TTTGC GTGCAAAAACCT ATC	TTCGTGGCACAATCAG TAGC	58.8	251	INTERGENIC	--	--	--
Ca6_P3_19093188	Ca6	19093188	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT /ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTAT	CCAATGGGAAATTCAT GAT	TGCTTGCCTCTCCCA CTCT	59.4	596	INTERGENIC	--	--	--
Ca6_P3_19174154	Ca6	19174154	TTATATATATATATATAT/TTATATAT ATATATATATATATATAT	GGTGAATTCATCCG ATCT	ACATCCGACAAATCGG AAAA	59.9	321	INTERGENIC	--	--	--
Ca6_P3_19189189	Ca6	19189189	CG/C	TGAAGCACCGAAACAG ACAG	TACCTGTGCCTTCCAA AAGC	60.0	452	INTRON	Ca_06527	G	--
Ca6_P3_19245503	Ca6	19245503	ATAGAATTGTCTAGAATTGTCTA/ATAG AATTGTCTA	GCAGAATAGAGGCAGG ATCG	CATTGTGCAGGAGAT GAAA	59.9	497	DRR	Ca_06530	--	--
Ca6_P3_19381311	Ca6	19381311	CAGAGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGAGAGA/CAGAGAGAGAG AGAGAGAGAGAGAGAGAGAGAGAGAG AGAGA	GTGAATGAGGAAAAGG GCAA	TATTGTTGGGGCAAGG AATC	60.1	169	INTERGENIC	--	--	--
Ca6_P3_1939700	Ca6	1939700	AATATATATATATATAT/AATATATATAT ATATATAT	TGATCAATTTACCAACG ATTACAGA	ATTTTACATGCCCAAAA GCG	59.8	718	INTERGENIC	--	--	--
Ca6_P3_19421271	Ca6	19421271	TTTTA/TTTTATTTA	CTCATGCTTGGGCATC ACTA	TGATCAATGGAAGCCT GAAA	59.8	483	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 (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
Ca6_P3_1948984	Ca6	1948984	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATATA TATATATATATATAT	GGTGCACCTCATCCGT AAAT	AGCATAATCGACCCGA AAAC	60.1	509	INTERGENIC	--	--	--
Ca6_P3_1951178	Ca6	1951178	TTAATAATAATAATAATAATAATAA TAATAATAATAA/TTAATAATAATAAA TAATAATAATAATAATAATAA	TTATTACC GG TGGCTT TGG	GGCAGCTTTTATCGTG CAAT	59.8	439	DRR	Ca_10320	--	--
Ca6_P3_19524549	Ca6	19524549	GTTTTTTTTTT/GTTTTTTTTTTT	AAACTCGAAAAGCATG GTGG	GCCCAAAATTGCCTCT ATGA	60.1	623	DRR	Ca_06559	--	--
Ca6_P3_19678237	Ca6	19678237	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	CGATTATAATGGGATT GCCC	TTGTGATCTTGACGGT AAAAC TG	60.4	649	INTERGENIC	--	--	--
Ca6_P3_1975397	Ca6	1975397	A/AAAGG	CACAAAGGCCTGATCC ATCT	GCTTTTGCGGCATCTA GTTC	60.1	653	INTERGENIC	--	--	--
Ca6_P3_1975492	Ca6	1975492	GATCCGCTG/GATCCGCTGCTACATCC GCTG	GTAGTTTGGCTTCCCTT CCC	GCTTTTGCGGCATCTA GTTC	59.9	458	INTERGENIC	--	--	--
Ca6_P3_1976018	Ca6	1976018	AAT/AATAGAT	GAAGTAGATGCCGCAA AAGC	GTACGTGGTCTTCCC TGAA	60.0	560	DRR	Ca_10322	--	--
Ca6_P3_1976736	Ca6	1976736	TC/TCCC	TTATTCTCCATTGGGCA TCC	TCCTGCGGGTAATGAT AAGC	59.7	963	DRR	Ca_10322	--	--
Ca6_P3_1976756	Ca6	1976756	AACATC/AACATCTACATC	TCACGCATCAAAGTGA AACC	TCCTGCGGGTAATGAT AAGC	59.7	843	DRR	Ca_10322	--	--
Ca6_P3_1977351	Ca6	1977351	TTT/TTTTT	GCTTATCATTACCCGCA GGA	TAGCATAGTCCAAGCG GACC	60.1	465	DRR	Ca_10322	--	--

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
Ca6_P3_1977557	Ca6	1977557	ATT/ATCCCTCATTGTTT	GCTTATCATTACCCGCA GGA	TCTGGAACCGAGCAA TAAC	60.1	761	DRR	Ca_10322	--	--
Ca6_P3_1978360	Ca6	1978360	A/ATCG	CGTGGAGCATTCCGAG TATT	GGAGTTAGGGCGTGT GATGT	60.1	575	INTRON	Ca_10322	--	--
Ca6_P3_1978522	Ca6	1978522	C/CCTGAGG	ACATCACACGCCCTAA CTCC	CTTAGCCTTGCAAATG AGGC	60.0	197	INTRON	Ca_10322	--	--
Ca6_P3_20515518	Ca6	20515518	GAAAA/GAAAAA	AACCAAGAGCAGCCAC AGTT	GGGCCACTCACTGGAA GTAG	59.9	572	DRR	Ca_16380	B	--
Ca6_P3_20531602	Ca6	20531602	CTTATTATTATTATTATTATTATTAT TA/CTTATTATTATTATTATTATTAT TATTATTATTA	AAAGGACCAAGTCGGA AAAA	GTGGGGGCAGACTGA TTAAA	58.7	347	INTERGENIC	--	--	--
Ca6_P3_20533537	Ca6	20533537	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATA/TTAATAATAATAATAATAA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATA	TTTTCTCTCCGTTGACC ATTC	ATTTTGGCGTTCATGA AGGA	59.2	828	INTERGENIC	--	--	--
Ca6_P3_20626328	Ca6	20626328	TAAAAAA/TAAAAAA	AGACAAACGACCTTTC TTCG	CAATTTTGACATGAGC ATTGG	59.2	393	INTERGENIC	--	--	--
Ca6_P3_2063027	Ca6	2063027	GGAAGAAAGAAAGAAAGAAAGAAAG AAA/GGAAGAAAGAAAGAAAGAAAGAA AA	AGGCAAGAAAGGAGC AACA	GCATGACACGACAATG GAAG	60.0	807	INTRON	Ca_10326	A	--
Ca6_P3_2063379	Ca6	2063379	CAA/CAACCTGTATTAA	TGTTCTCTTGTGGAG AGGG	TGACACGGCGTAAGTA CTCG	60.2	909	INTERGENIC	--	--	--
Ca6_P3_20679328	Ca6	20679328	CATATATATATATAT/CATATATATAT ATATATAT	CAAAATTTGTCACGAAA GCA	CAATACTTGTGTTGTG GCGG	59.7	605	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 (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
Ca6_P3_20799573	Ca6	20799573	CAAAA/CAAAAAA	AATGATGGGATGGGT ACGA	ATAAATCGCATGCCT CGTC	60.0	601	INTERGENIC	--	--	--
Ca6_P3_20910168	Ca6	20910168	TATAATAATAATAATAATAATA ATAA/TATAATAATAATAATAAT AATAATAATAATAATAATAA	TTGCCAACTGAAATGC AAG	GATAGCAGCCAAGCTG GAAG	59.8	817	INTERGENIC	--	--	--
Ca6_P3_20930771	Ca6	20930771	ATTT/ATTTT	TGCATTGTAATTTGCA GGA	CCAACTTACACGCCAC ATTG	60.2	629	INTERGENIC	--	--	--
Ca6_P3_21021586	Ca6	21021586	CTATTTATTTATTTATTTATTT/CT ATTTATTTATTTATTTATTT	CACCGTCGTGTTTCATC TGTC	TTATTTACCGTCGTG TCCA	60.2	458	INTERGENIC	--	--	--
Ca6_P3_21052205	Ca6	21052205	TAAAAAAAA/TAAAAAAAAA	TGCCGTTAATTGAACT CTCC	TGTACCAAGCGACACC TCTG	59.2	604	INTERGENIC	--	--	--
Ca6_P3_21057110	Ca6	21057110	CTTTTTT/CTTTTTTTT	TTCACTCGATGATTGCC GTA	CGCAAATGGATTAATT GACAAA	60.2	535	DRR	Ca_16328	O	--
Ca6_P3_2109965	Ca6	2109965	AATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATT ATT/AATTATTATTATTATTATT ATTATTATTATTATTATTATTAT TATTATTATTATTATTATT	CGCCTCAATGACATCA CAAC	AGTCTCTCAGCCATGG ACTACTT	60.1	806	INTERGENIC	--	--	--
Ca6_P3_21100809	Ca6	21100809	ATTTTTTTTTT/ATTTTTTTTTTT	TGAGGGATTCTCGAA GTTG	TGTGATTTGTTGTGGG AAGAA	60.2	490	INTERGENIC	--	--	--
Ca6_P3_21110757	Ca6	21110757	TAA/TAAA	GTTTGCTTGTGAGCTT CCTC	TTGGTGCGTGTGTGT TTTT	60.0	497	DRR	Ca_16322	G	--
Ca6_P3_21139884	Ca6	21139884	ATTTTTTTT/ATTTTTTTTTT	CAGAAGGATTGCTCGT GTGA	TGCATAGGCAAAAATG ATTGA	60.0	528	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 (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
Ca6_P3_21141563	Ca6	21141563	GTTTTTT/GTTTTT	TCCGATAGGAAGAGCC AATG	ACGTTTATTTTCGGAC CCC	60.2	697	INTERGENIC	--	--	--
Ca6_P3_21146689	Ca6	21146689	AT/A	CACACCTTTTGGATGCA CAC	TGGTCATTTTCGTCAT CCCT	60.0	379	INTERGENIC	--	--	--
Ca6_P3_21151309	Ca6	21151309	A/AT	TGCGTTGATCGACATC AAAT	AACGCATCGGTAACCA ACTC	60.1	163	INTERGENIC	--	--	--
Ca6_P3_21196310	Ca6	21196310	TTTATTATTATTATTATTATTATTAT TATTATTATTATT/TTTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATT	GGGATGTCATTCAATC CACC	TCGGGTCGTGACACTT ACAA	60.0	778	INTERGENIC	--	--	--
Ca6_P3_21199074	Ca6	21199074	CTATATATATATATA/CTATATATATA TATATATA	AAAATGGAGGAGGGGA GTGT	GAGTCAGTGGGGGAA ATTGA	59.8	547	INTERGENIC	--	--	--
Ca6_P3_21204480	Ca6	21204480	GTATATATATATATATATATATATAT GTATATATATAT/GTATATATATATATAT ATATATATATATATATGTATATATATAT	CTGGGGACTTCGTGAT TGAT	TGACAGCAGAAATGAT TCGG	59.9	616	INTRON	Ca_19883	S	--
Ca6_P3_2128046	Ca6	2128046	CTTTTTTTTT/CTTTTTTTTT	AATTTGCTTTGATTTTG CCG	GTGCTCGTGCGACTTG TAAA	60.1	562	INTERGENIC	--	--	--
Ca6_P3_21401312	Ca6	21401312	C/CT	AGCTCAGTCCTCACAA CCGT	TTAGATCGGACAAGAA ACCGA	59.9	344	INTERGENIC	--	--	--
Ca6_P3_21408015	Ca6	21408015	ATTTTTTTT/ATTTTTTTT	AGGCCTTTTATTTCGTT GCC	TTGAATCGCAAAACAA CCAA	60.4	897	DRR	Ca_19860	--	--
Ca6_P3_2145461	Ca6	2145461	G/GT	TCATGGATTGAAAAATG TTAAGGA	TGCTCAATTGATGCTA GGTGA	59.7	506	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 (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
Ca6_P3_21461728	Ca6	21461728	CAAAAAAAAAAAAAAAAA/CAAAAAAAAAA AAAAAA	AAATGTGGACGATGTC GGTT	AATTCATTGCATACG CCAT	60.2	662	INTERGENIC	--	--	--
Ca6_P3_21470474	Ca6	21470474	CAAAAAAAAA/CAAAAAAAAAAA	TTTCACATATCCTATCA AACACATTTT	TTCGTTGCTCCAAAGA CTCC	59.2	367	INTERGENIC	--	--	--
Ca6_P3_21485595	Ca6	21485595	GTTTTTTT/GTTTTTTT	TGCGGGCTAGCTCACT TAAT	TCAAAACAAATAGGCA GGGG	60.0	115	INTERGENIC	--	--	--
Ca6_P3_21485767	Ca6	21485767	ACCCC/ACCCCC	TGCGGGCTAGCTCACT TAAT	TTTGATTCTCTGGCCG AGTT	60.0	263	INTERGENIC	--	--	--
Ca6_P3_21496505	Ca6	21496505	CATATATATATATATATA/CATATATA TATATATATATATA	TAAACTGTGCCGTACG ATGC	TCGCCCAAGACAAAT CTTC	59.8	413	INTRON	Ca_11292	--	bZIP
Ca6_P3_21512779	Ca6	21512779	TA/TAA	GTGGTTTGAGAGCGGA TGAT	CACCACTATTTGCGG GTCT	60.1	230	INTERGENIC	--	--	--
Ca6_P3_21671378	Ca6	21671378	ATTTTTTTTT/ATTTTTTTTT	ACCGTTGAAATTCACT CGG	AGGTGGCGCAAATATG AAAC	60.0	174	INTERGENIC	--	--	--
Ca6_P3_21710318	Ca6	21710318	TTTTATTATTT/TTTTATTATTTATTT	TCCTAATGAAGTCGTG GCCT	TGACAAGATAATGGGT GGCA	59.7	743	INTERGENIC	--	--	--
Ca6_P3_21739441	Ca6	21739441	AATATATATATATATATATATATATAT ATATATAT/AATATATATATATATATA TATATATATATATATATATATATATAT	TGAAGAACCATGGTCA TATTAGACA	AAACAAGGCTTCAACC CTGA	59.8	569	INTERGENIC	--	--	--
Ca6_P3_21773137	Ca6	21773137	ATTTTTTTTT/ATTTTTTTTT	TGATGCAGAAGAATTT TGGA	TTTCGACTCCTTTGAG CGAT	59.3	553	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 (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
Ca6_P3_2177762	Ca6	2177762	TCCTCT/TCCTCTTATAAGCCCCCTCT	GATTGTCAGCCCAAA GAGC	TGAGGAACGACAGATC GAAA	59.8	753	DRR	Ca_11261	--	ERF
Ca6_P3_21780665	Ca6	21780665	TA/T	TTGGCGAAGGAGTTAA CTTGA	AAAACAAATGACCAAAT CGAAAA	59.9	246	INTERGENIC	--	--	--
Ca6_P3_21782757	Ca6	21782757	TAAA/TAAAA	TAATGAGTTGGGACGG GAGA	ATGCAACGCTACCCA ATTC	60.5	782	INTERGENIC	--	--	--
Ca6_P3_21790392	Ca6	21790392	GGAA/GGAAGAA	TGGAAGAAAAACGGAT GAGG	TTTTAGGTAACGTTTTG GTCCTTT	60.0	138	INTERGENIC	--	--	--
Ca6_P3_21794552	Ca6	21794552	CGGG/CGG	AAGGGTTTGGAATGCT GATG	GGTGAGGGTAGTGGA CCAAA	59.9	528	INTERGENIC	--	--	--
Ca6_P3_21794670	Ca6	21794670	TAAAAAAA/TAAAAAAA	AAGGGTTTGGAATGCT GATG	GGTGAGGGTAGTGGA CCAAA	59.9	528	INTERGENIC	--	--	--
Ca6_P3_21794740	Ca6	21794740	ATTTTT/ATTTTTT	AAGGGTTTGGAATGCT GATG	GGTGAGGGTAGTGGA CCAAA	59.9	528	INTERGENIC	--	--	--
Ca6_P3_21797613	Ca6	21797613	GTTTTTTTTT/GTTTTTTTT	TTTATACACTGTCATGT AATACGTCCT	AAAGATGACACAAATC GGGG	57.4	476	INTERGENIC	--	--	--
Ca6_P3_21801686	Ca6	21801686	GA/GAA	TCTTGAACCGATACCTT TTTT	GACGGATGAGCATCG GTTAT	57.7	311	INTERGENIC	--	--	--
Ca6_P3_21805198	Ca6	21805198	ACTCTCTCTCT/ACTCTCTCTCT	TGGACCCATGCACAAA GTTA	CAGTCGTTGAGCATGC AACT	60.0	682	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
Ca6_P3_21810623	Ca6	21810623	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAA/TTAATAA TAATAATAATAATAATAATAATAAT AATAATAA	TCAAAAACATTGATTGA GCTGC	TTTGACGTAGAAAAG TGATATTTGT	60.3	159	INTERGENIC	--	--	--
Ca6_P3_21881499	Ca6	21881499	ATTTTTTTTTTT/ATTTTTTTTTTT	ATTTTGTCAATCACCT GCC	TTCTCCGTCATTTCTCA CCC	59.8	546	INTERGENIC	--	--	--
Ca6_P3_21891223	Ca6	21891223	TTCTC/TTC	GGGAAGACCTTGGATT CACA	CAATACCGTCCTGCAC ATTG	59.9	517	INTRON	Ca_11250	S	--
Ca6_P3_21919231	Ca6	21919231	TTA/TTAATA	CTTGCATGGGTACGTT AGCA	ACTTAGCACGGGCTCG ATAC	59.8	370	DRR	Ca_11246	O	--
Ca6_P3_2206319	Ca6	2206319	ACCC/ACCC	GCTTAACCCGTTTAAAG CCC	ATTTGGTCCCCCACT TACC	60.0	345	DRR	Ca_10348	J	--
Ca6_P3_22099449	Ca6	22099449	ATTTTTTTTT/ATTTTTTTTTTT	TGTGTTGCTCTCTGGCT TTG	ACGTGTGGGTTTCAGG TCTC	60.0	620	INTERGENIC	--	--	--
Ca6_P3_22124013	Ca6	22124013	TTCTCTCTCTCTCTCTCTCT/TTCTC TCTCTCTCTCTCTCT	ATTCCAACGATCCAAGA TGG	TGCTCCAATGATGTTA GAAACG	59.8	692	INTERGENIC	--	--	--
Ca6_P3_22128416	Ca6	22128416	CTTTTTTTTT/CTTTTTTTTT	CACACACACAAAGA GGGG	ATAGGACCTGCTGCCT GAGA	60.0	557	INTERGENIC	--	--	--
Ca6_P3_22438706	Ca6	22438706	ATTTTTTTTT/ATTTTTTTTT	ATCATAATATCGCGG ATCG	TTCAATCAACCGCATA GAAGTG	59.7	382	INTERGENIC	--	--	--
Ca6_P3_22520390	Ca6	22520390	A/AC	TTGAGGAAGAAATTCC CCAT	GCGAGAAAGATAGATG AGGAGG	59.8	125	DRR	Ca_11188	I	--

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 (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
Ca6_P3_2266195	Ca6	2266195	GTTT/GT	AGTGGGTTTGCGTAAC CTTG	GCTTTCTTCAATGCGT GACA	60.0	367	DRR	Ca_10355	R	MYB
Ca6_P3_2272367	Ca6	2272367	T/TA	TCATCGCAGGTGTACC ATGT	TGGGAATTTGGGAATT TTGA	60.0	654	INTERGENIC	--	--	--
Ca6_P3_2283477	Ca6	2283477	TTATATATATATATATATATATATA/T TATATATATATATATATATATATATA	CTTGAGAGTGCAGCC ACCA	TGAGTTTCCACCTCCT GGAT	60.0	968	DRR	Ca_10356	--	--
Ca6_P3_22962831	Ca6	22962831	AATATATATATATATAT/AATATATATAT ATATATAT	AAATCCTTAATGGGAGT GGGA	TTGAGGGAGGGCAGC TACTA	59.7	837	INTERGENIC	--	--	--
Ca6_P3_23042823	Ca6	23042823	CATATATATATATAT/CATATATATAT	CAACGATCTGCACCAC ACAT	GGTGAGCAAGTGAG CAATA	60.6	665	INTRON	Ca_11143	--	ERF
Ca6_P3_23042981	Ca6	23042981	TAAA/TAA	CAACGATCTGCACCAC ACAT	GGTGAGCAAGTGAG CAATA	60.6	665	INTRON	Ca_11143	--	ERF
Ca6_P3_23044574	Ca6	23044574	CTTTTTTTTTT/CTTTTTTTTTT	CCTAATGATTGTGCAG CTGTG	GCCATTAACGACGTCA CTCAC	59.4	891	INTERGENIC	--	--	--
Ca6_P3_23064332	Ca6	23064332	CCATGTGTATTATC/CC	TGGGTTGATTTTCCAC ATT	TGGAGTTATAGAGAC ATTCCG	60.0	391	INTERGENIC	--	--	--
Ca6_P3_23064745	Ca6	23064745	C/C	TGGGTTGATTTTCCAC ATT	TCTCGAGCAAATCACA AGTTAAA	60.0	571	INTERGENIC	--	--	--
Ca6_P3_23070968	Ca6	23070968	ATTTTTT/ATTTTTTTT	TCACACTTCTTCGGGAT CAA	AGTGATAAAGATGCGG TGGG	59.2	475	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 (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
Ca6_P3_23409253	Ca6	23409253	CTTTTT/CTTTTT	TGCCGTATAAAATGGG CTTC	CTTGCTCTTCCTTCGT TGCT	59.9	533	INTERGENIC	--	--	--
Ca6_P3_23409707	Ca6	23409707	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	AGCAACGAAGGAAGAG CAAG	CCGAAAGCCTTGTCAG AAAT	59.8	219	INTERGENIC	--	--	--
Ca6_P3_23439828	Ca6	23439828	GTATATATATATATATATATATATAT ATATATATA/GTATATATATATATATATA TATATATATATATATATA	AAGGATGGAGGAGGCA AAAT	TTTCATTAATGGCAA AGCA	59.9	882	INTERGENIC	--	--	--
Ca6_P3_2345807	Ca6	2345807	ATT/AT	TTTTGTGGGACGACAT TTG	TGACGTCGTGGCAATT ACAT	59.4	682	INTERGENIC	--	--	--
Ca6_P3_2353000	Ca6	2353000	CTATATATATATATATA/CTATATATA TATATATATATA	CCGAAATTATGGATT TTTTT	TGTCGAACATGACCAA TACGA	58.4	364	DRR	Ca_10366	R	--
Ca6_P3_2353259	Ca6	2353259	A/ACCGC	CAAACAGCGTTTATTCG TCG	TTGTCGTCCTTTTCAG CTTT	59.4	352	DRR	Ca_10366	R	--
Ca6_P3_23562113	Ca6	23562113	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATAT ATATA	TAAGGTGGGTCAGGAA TGGA	AGCTATGGAGTGAGCG GAAA	60.3	351	INTERGENIC	--	--	--
Ca6_P3_23642077	Ca6	23642077	T/TTTCC	GATTACCATGGTTGGG ATCG	CAATTTCGGTGCTTGT TCCT	60.0	137	INTRON	Ca_11091	R	--
Ca6_P3_23755333	Ca6	23755333	TAC/T	GGAGGAGCAGAAGCAA CAAC	CTGTGGGATCAATTGG CTCT	60.0	256	INTERGENIC	--	--	--
Ca6_P3_23755434	Ca6	23755434	TG/T	GGAGGAGCAGAAGCAA CAAC	CTGTGGGATCAATTGG CTCT	60.0	256	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	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
Ca6_P3_23764400	Ca6	23764400	GATATATATATATATATATATATATA TATATATATATATAT/GATATATATATAT ATATATATATATATATATATATAT	ACTCCAACGTGCGATA GCTT	AACGAAGTAATTCAGC GCAAA	59.9	730	DRR	Ca_11079	K	--
Ca6_P3_2384865	Ca6	2384865	TTAATAATAATAATAATAATAATAAA TAATAATAA/TTAATAATAATAATAATA TAATAATAATAATAATAATAA	AGATTGCCCCACTTCAA AAA	TAACCTGCCAAAGAGG AGGA	59.5	866	INTERGENIC	--	--	--
Ca6_P3_2402829	Ca6	2402829	A/ATTGAAATTC	TATTTGCTCTGTGAGCA CGC	CCCCTTTCTGCTCTTC CTTT	60.2	954	CDS (large-effect mutations)	Ca_10371	J	--
Ca6_P3_2427053	Ca6	2427053	AATATATATATATATATATATATATAT /AATATATATATATATATATATATAT	CCGACAATTCATTGCT TTT	GGAAGTGTTGAGGT GCATT	59.9	566	INTERGENIC	--	--	--
Ca6_P3_24296638	Ca6	24296638	CATATATATATATATATATATA/CATA TATATATATATATATATATATA	GAGAAGGAGGGAAAA TGGC	ATGTTTTGGATTTTGG CTCG	60.0	421	INTERGENIC	--	--	--
Ca6_P3_244129	Ca6	244129	TATATATAAT	TGGCTTATGTTATGG GTGG	CGCCATCATAAGTAG GGTGA	60.6	448	INTERGENIC	--	--	--
Ca6_P3_2441510	Ca6	2441510	ATT/AT	CGAATGCCACATCATTT ACG	GACCCGAATATGGCT TGAA	60.0	425	INTERGENIC	--	--	--
Ca6_P3_24582806	Ca6	24582806	CATATATATATATATATATATATATAT AT/CATATATATATATATATATATATA TATATAT	TCGTTTTGTTTATTGGG GGA	GTTAAATGCGGGGTTT ATCG	60.2	565	DRR	Ca_24169	--	bHLH
Ca6_P3_24637049	Ca6	24637049	TTTCTTCTTCTTCTTCTTCTTCTTCTC T/TTTCTTCTTCTTCTTCTTCTTCTCT	TGTTTTGGTGAAACGT GGA	AGGATGAATGTGGTGT TGAAGA	60.0	376	INTERGENIC	--	--	--
Ca6_P3_24744388	Ca6	24744388	TACACACACA/TACACA	TTTGATTTTGACTCGG AGG	AATGGAGGAAGGAGG GAGAA	60.0	384	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
Ca6_P3_24958780	Ca6	24958780	GACAACAAC/GACAACAACAAC	AGAACGGTTTTCTGAC CGTG	AACGGTTTTAAGCAT TGCC	60.1	216	INTERGENIC	--	--	--
Ca6_P3_2501071	Ca6	2501071	TAACAACAACAACAACAACAA/TAACAA CAACAACAACAA	CCCACCAACCCAAATTA AAA	TCACCATCGTGTGATG GACT	59.5	305	INTERGENIC	--	--	--
Ca6_P3_25130773	Ca6	25130773	AT/ACACCTT	TGCATGCCTAACTCCAA GTG	AAGCTCAACATGCAAA ACCC	59.9	187	DRR	Ca_26068	--	--
Ca6_P3_25130968	Ca6	25130968	A/AATAAAGCCT	CCAAAAAGGGTGAGAGA TTGA	CCTTTTACAGCGCTTTT CCA	59.9	275	DRR	Ca_26068	--	--
Ca6_P3_25131365	Ca6	25131365	TTT/TTTTATT	GGGTTTTGCATGTTGA GCTT	TTGCATTTGGTTTGAC TCCA	60.1	649	DRR	Ca_26068	--	--
Ca6_P3_2518811	Ca6	2518811	TA/TAA	AATCTGGCTCAAAATGC AGC	AATGCATTTGCCTGAC TCAA	60.4	723	DRR	Ca_10384	--	--
Ca6_P3_2523387	Ca6	2523387	TAAAA/TAAAAAAA	TTGCATTTGTTTCAGCA AGG	TTGCCATCATCAATTCA TCC	59.8	822	DRR	Ca_10385	--	--
Ca6_P3_2524006	Ca6	2524006	A/AT	GGATGAATTGATGATG GCAA	CCATCAAAACATCATTT GAACA	59.3	600	DRR	Ca_10385	--	--
Ca6_P3_2525217	Ca6	2525217	TT/TTGCAT	AGTAACCGACCAGCCA ATCA	CAAAATTTGGTCACATT CCG	60.5	741	INTERGENIC	--	--	--
Ca6_P3_2525428	Ca6	2525428	TAAAAAAAAA/TAAAAAAAAAAAAA	CCTGAAATTTGATTCTG CGT	CAAATTTTGGTCACATT CCG	57.8	578	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 (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
Ca6_P3_2528953	Ca6	2528953	AATAT/AAT	TGGGTCAATGTTAAGA GGGC	CGTCAACGTCGTGCAT TTAC	59.9	515	INTERGENIC	--	--	--
Ca6_P3_2529860	Ca6	2529860	CA/CATA	TGATGTGTTTGCTGTTG GGT	GCGTCAAAGACATTGA TGTGA	60.2	878	INTERGENIC	--	--	--
Ca6_P3_2533591	Ca6	2533591	AT/ATT	CTCTTATGTCGGTGC CAAT	AACTTTGTGGAAGCTG TGGG	60.1	533	INTERGENIC	--	--	--
Ca6_P3_2542709	Ca6	2542709	CAA/CAAAA	GCAAAACCCTTTCTGT GAG	TGTGATCTGTGCATCC CAAT	59.7	241	DRR	Ca_10386	--	--
Ca6_P3_25469197	Ca6	25469197	TAAAAAAAAA/TAAAAAAAAA	GCCCTCAGATGAGAGT CAGG	CAAGGCTGTTTCAGCA TTCA	59.9	511	INTERGENIC	--	--	--
Ca6_P3_25616921	Ca6	25616921	AGG/AGGG	GGGTTCAGGTTTTGG GTTT	TGGCGAACTACAATGG ATAACA	60.1	403	INTERGENIC	--	--	--
Ca6_P3_25630460	Ca6	25630460	CATATATATATATATATATAT/CATAT ATATATATATATATATATAT	AGGAAGAGTGGAGTTG CGAA	TATTTGGATTTTGGCT CGG	60.0	392	INTERGENIC	--	--	--
Ca6_P3_25638625	Ca6	25638625	GTT/GT	TTGTCCGTGAGAGACT GCAC	GTATTGCAACCAAACA TGCG	60.0	335	INTERGENIC	--	--	--
Ca6_P3_25669283	Ca6	25669283	GTTAGGGTTTAGGGTTTAGGGTTTAG GGTTTA/GTTAGGGTTTAGGGTTTAGG GTTTAGGGTTTAGGGTTTA	TTTGGGTTTACGCATTA GGG	ATTGGCGAACTACAAC GGAT	59.8	505	INTERGENIC	--	--	--
Ca6_P3_25692901	Ca6	25692901	CTATATATATATATATA/CTATATATA TATATATATATA	ATTCCAAACCAAAACCC TCC	AAATTGGTCCACTAGC ACCG	60.0	883	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
Ca6_P3_257739	Ca6	257739	CATATATATATATATATATATATA/CA TATATATATATATATATATATATATA	CGACACATGTGCTATT AGCCT	ATGGGTTGCAGTTAGC TTGG	59.3	799	INTERGENIC	--	--	--
Ca6_P3_26092614	Ca6	26092614	GATATATATATATATATATATATAT/G ATATATATATATATATATATATATAT	ATGTTTTGGATTTTGGC TCG	AATTCCTTCCCACACA ACCA	59.9	716	INTERGENIC	--	--	--
Ca6_P3_26170580	Ca6	26170580	ATTT/ATT	TTAAATTCCTCCTCG GCT	TACCTTGCCCATTTG CCTC	60.0	701	INTERGENIC	--	--	--
Ca6_P3_26277672	Ca6	26277672	T/TG	TTAGGTGCGCTTGACT GATG	GTTTGCGTTGTTT CACT	60.0	558	INTERGENIC	--	--	--
Ca6_P3_26277860	Ca6	26277860	CG/CGG	TTAGGTGCGCTTGACT GATG	ACGTAGCGAGCCTAG ATGA	60.0	788	INTERGENIC	--	--	--
Ca6_P3_26278491	Ca6	26278491	ATGT/ATGTTGT	AGTGAACCAACGCCA AAAC	GGTAGCTCCCGACATT TTGA	60.0	811	INTERGENIC	--	--	--
Ca6_P3_26354164	Ca6	26354164	GT/GTT	TGTTGATTTGGGAAA GAGG	GGTGCCAACATCCAAC TTCT	59.9	650	DRR	Ca_16678	--	GRAS
Ca6_P3_2639909	Ca6	2639909	CTT/CT	AGCTGAAGCAATTTTCG CAT	GCAATGCAGCAGCAAT AAAA	60.0	479	INTERGENIC	--	--	--
Ca6_P3_26437457	Ca6	26437457	AT/ATAATT	AGGCATCCCCTTATACA CCC	GCTTAGCGAGCCACAA AATC	60.0	520	INTERGENIC	--	--	--
Ca6_P3_26438751	Ca6	26438751	ATTTTTTTTT/ATTTTTTTTTTT	TCAGACACTACCCAGC ATCAA	CTTAGGCCGCCACAAA ATA	59.3	960	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 (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
Ca6_P3_26461192	Ca6	26461192	CTTTTTTTTT/CTTTTTTTT	AGTCGGTCTTCAGAGC AAGG	GGTTAAATGGTGTT ATCGGAA	59.6	740	INTERGENIC	--	--	--
Ca6_P3_2666718	Ca6	2666718	CAAAAAAAAA/CAAAAAAAAA	CCCTAAACCATCAA CTGAACA	AATTCCATCAAGCCTC AACG	59.0	550	INTERGENIC	--	--	--
Ca6_P3_26667186	Ca6	26667186	AGATGATGATGATGATGATGATGA /AGATGATGATGATGATGATGATG ATGATGA	CGTTGAGGCTTGATG AATTA	GCCGATCAACACGAAG GTAT	60.1	380	INTERGENIC	--	--	--
Ca6_P3_26668470	Ca6	26668470	T/CTATATTTTTTA	CGACGCAATGCATTAA GAGA	CCTTAATCGCCGAAAA TCAT	60.0	490	DRR	Ca_16695	--	--
Ca6_P3_26686327	Ca6	26686327	TTATATATATATATAT/TTATATATAT ATATATATAT	CTAGTGCGAATGGCAG ACAA	GATTATGGCCAGCTT TTGA	60.0	358	INTERGENIC	--	--	--
Ca6_P3_2674985	Ca6	2674985	ATGTT/AT	GAAACTTCGTGCCTTT TGC	ACGATAGTAGATGTGG CGGC	59.9	152	INTRON	Ca_10401	V	--
Ca6_P3_26782160	Ca6	26782160	TAAAAAAAA/AAAAAAAAA	TGAGGATCAATTTGTG AATCG	TTTTGAGAACGGAGCA CACA	59.9	806	INTERGENIC	--	--	--
Ca6_P3_26790864	Ca6	26790864	GAAAAA/GAAAAA	CCGAAAATTTGAAATC CGA	CAAGTACAGGTGGAGT GGCA	59.9	728	INTERGENIC	--	--	--
Ca6_P3_26867680	Ca6	26867680	CC/CCCTAAATATAAC	TGCAGAATCGTTCAAAC CAA	CAAGTGGCCTCGAACT CAAT	60.2	720	INTERGENIC	--	--	--
Ca6_P3_26931819	Ca6	26931819	TTATATATATATATAT/TTATATATAT ATATATATAT	GTACCACATTGCCGAG GTTT	GCTTGCCAAAATAAT GGCT	59.9	580	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
Ca6_P3_2708428	Ca6	2708428	ATTTTTTTTTT/ATTTTTTTTTT	TGCTTAAGCTAGGGGT GTGC	TGGTCCAAAACATT CCAA	60.4	818	DRR	Ca_10404	--	--
Ca6_P3_27108382	Ca6	27108382	AT/ATGT	GCTGCACATGTGGGTA CATC	ATTGTCTTTGCCACC TACG	60.0	738	DRR	Ca_14631	--	Dof
Ca6_P3_2711937	Ca6	2711937	TACGTTGA/TA	ATCGGCGATTATTACA GCG	AGTCTGGTGCCTCGT ACTT	60.1	501	INTERGENIC	--	--	--
Ca6_P3_27165011	Ca6	27165011	ATATTATTATTATTATTATTATTATT /ATATTATTATTATTATTATTATTATT	CATTGTTTGATCCATGT CGC	CCATCATTGACACTCG AAAGAA	59.9	675	INTERGENIC	--	--	--
Ca6_P3_27264510	Ca6	27264510	ATTTTTTTTTT/ATTTTTTTTTT	AACGTCCCATTAAGTTT GCA	TGACAAATTGCCTTGT CTTG	60.5	465	INTERGENIC	--	--	--
Ca6_P3_27289106	Ca6	27289106	GATATATAT/GATATATATAT	CAATTCCACAGGTAC GCTT	AATTTCAGGATTGGC GAAG	60.0	612	INTERGENIC	--	--	--
Ca6_P3_27315680	Ca6	27315680	GAGTTTTCAATTTTAGTTTTCAATTTA/ GAGTTTTCAATTTTA	CATGCATCGGAAGTTG TGTT	TCAGTGTGAGGAGAT TTTG	59.6	496	INTERGENIC	--	--	--
Ca6_P3_27348230	Ca6	27348230	ATTTTTTTTTT/ATTTTTTTTTT	TTGATCCCATATCCTCC CAA	GACACCCAAATCAAAC CCAC	60.1	595	INTERGENIC	--	--	--
Ca6_P3_2735214	Ca6	2735214	AATATATATATATATATATATAT/AT ATATATATATATATATATATATAT	TCCTGAATTCGATTGG GTT	TGGGTGGAACAGTGA ATGA	59.4	645	INTERGENIC	--	--	--
Ca6_P3_27447919	Ca6	27447919	ATTTTTTTTTT/ATTTTTTTTTT	CACCATGTGCCACTTC ATTCT	TGGGCGGCTATGTTAA AACT	60.0	359	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_27448301	Ca6	27448301	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATATA TATATATATATATAT	CACCATGTGCCACTTC ATTG	CTAGTGCAAGGTCGCT CCTC	60.0	629	INTERGENIC	--	--	--
Ca6_P3_27517577	Ca6	27517577	CCCAGCCAGC/CCCAGC	TTTAAAACCCCTTTGGG AGG	GACTAAAGAGTGGGG GAGGC	60.2	418	INTERGENIC	--	--	--
Ca6_P3_27529474	Ca6	27529474	ATTTTTTTTTT/ATTTTTTTTTTT	TGGTGTATTGGAACC GTGA	CGTCTTTTGAATGAC GACTT	59.8	520	DRR	Ca_14605	--	LBD
Ca6_P3_2763820	Ca6	2763820	AA/AATAATAATAATA	ATCGCGTTCAATGTGT TGA	TCCTTAATTGAAGTTA TGAACCA	60.1	725	INTERGENIC	--	--	--
Ca6_P3_2766218	Ca6	2766218	TAGAGAGAGAGAGAGAGAGAGAGA GAGAGAGA/TAGAGAGAGAGAGAGAG AGAGAGAGAGAGAGAGAGA	TGCCAATTACCATGTG TGT	AAATCTCACCAATTGC GACC	60.0	594	INTERGENIC	--	--	--
Ca6_P3_27691258	Ca6	27691258	ATTTTTTTTTT/ATTTTTTTTTTT	CACTCGGTTGAGACGT GAGA	AGGTCGGCGTCATAAA CATC	60.0	290	INTERGENIC	--	--	--
Ca6_P3_2783350	Ca6	2783350	CTCACGTT/CT	GTTGATGGAATTAGCC CGAA	TCGCAACGTGCGAATT ATTA	59.9	276	DRR	Ca_10412	KR	--
Ca6_P3_27961769	Ca6	27961769	AAGAAAAATTAAATGGAGAAAAATTAAT GGAGAAAAAT/AAGAAAAATTAATGGA GAAAAAT	CTTTCGATTGCACGGT TTT	CCTACGACTTTCCA TCGC	60.1	583	INTERGENIC	--	--	--
Ca6_P3_28098136	Ca6	28098136	ATTTTTTTTTT/ATTTTTTTTTTT	TTTGGAATGTGTCAGT TAGCA	TGCGTCTTACAAATTC AATCA	59.2	318	INTERGENIC	--	--	--
Ca6_P3_28190835	Ca6	28190835	ATATTATTATTATTATT/ATATTATTATT ATTATTATT	AGGTCTCATACCAGAG ATGCG	AAGTTAAGGGACCGCA AATG	59.3	871	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
Ca6_P3_28193559	Ca6	28193559	AGGG/AGG	AAGGACTAAGTCGGGA AGAAAA	GATGGTTTTGTCCAT TGAATT	59.7	131	INTERGENIC	--	--	--
Ca6_P3_28194024	Ca6	28194024	ATTTTT/ATTTTTTT	GGACCACGAATGTAAT TTAGCC	TGCAGCATTAGAAGT TGTTG	59.7	737	INTERGENIC	--	--	--
Ca6_P3_28243483	Ca6	28243483	CATATATATATATATATA/CATATATA TATATATATATA	TTCATATTAATGGCGT GAAA	TTTTTGATGGGGCAAC ATT	58.0	406	INTERGENIC	--	--	--
Ca6_P3_28326755	Ca6	28326755	AT/ATT	TTTGGGCTTGAAGATG AAAA	TTTAAAGCAAGGGTG GTGG	58.3	336	DRR	Ca_25968	A	--
Ca6_P3_28327723	Ca6	28327723	CATATATATATAT/CATATATATAT	CAAGAGCATCGTGCA AGGA	GTCTGGCGTGACAAG AAAT	60.0	424	DRR	Ca_25968	A	--
Ca6_P3_28332319	Ca6	28332319	ATTTT/ATTTT	TTTCAAAAAGTCCCAAT CGC	GGTTTGAGAAGAAGA CGAAA	60.1	751	INTERGENIC	--	--	--
Ca6_P3_28332462	Ca6	28332462	ATTT/AT	TTTCAAAAAGTCCCAAT CGC	GGTTTGAGAAGAAGA CGAAA	60.1	751	INTERGENIC	--	--	--
Ca6_P3_28332579	Ca6	28332579	A/AG	GTCGGAGCTCTGCCAT AAAA	GGTTTGAGAAGAAGA CGAAA	60.4	599	INTERGENIC	--	--	--
Ca6_P3_28332651	Ca6	28332651	C/CT	GTCGGAGCTCTGCCAT AAAA	GGTTTGAGAAGAAGA CGAAA	60.4	599	INTERGENIC	--	--	--
Ca6_P3_28332758	Ca6	28332758	TAAA/TAAAA	TTTCGTCTTCTTCTCCA AACC	CCCAACATATTACCTG TTACCCA	58.4	502	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
Ca6_P3_28332811	Ca6	28332811	A/AG	TTTCGTCTTCTTCTCCA AACC	CCCAACATATTACCTG TTACCCA	58.4	502	INTERGENIC	--	--	--
Ca6_P3_28332973	Ca6	28332973	A/AT	TTTCGTCTTCTTCTCCA AACC	CGTGCAAAGTCGAAGC GTAT	58.4	669	INTERGENIC	--	--	--
Ca6_P3_28354937	Ca6	28354937	GTAT/GT	TTTTATGTGACCCGCTT TGC	AGAACGGCATCCAGAG AAGA	61.0	600	INTERGENIC	--	--	--
Ca6_P3_28443338	Ca6	28443338	AAAAAAAAATA/AA	AGACCGACTTGGATGG TCAG	TGATCATTTTCCCTTT TGG	60.1	548	INTERGENIC	--	--	--
Ca6_P3_28443583	Ca6	28443583	CTCTTTTGTGTGA/CTCTTTTGTGTT ATATCTTTTGTGTGA	AAAAACACCAAAGCCCTC	CATAAAATGCCATTGAT CCCT	60.3	499	INTERGENIC	--	--	--
Ca6_P3_28503640	Ca6	28503640	AATA/AA	TGGCATGCTTCATTTT GAAT	AAAATGCATTCAATGG ACACA	60.5	947	DRR	Ca_25962	E	--
Ca6_P3_28513162	Ca6	28513162	TA/TCTTCAACTTTCCTACCA	CCCACACCTTCTTACCA GGA	GGGACCCAAATTGTG ATAG	60.0	492	INTERGENIC	--	--	--
Ca6_P3_28513941	Ca6	28513941	ANNNNNNNNNN/ANNNNN	TGAAGAAATTTAAAGG GACGAA	GTGTTGCATCTCATTG GTGG	59.2	569	INTERGENIC	--	--	--
Ca6_P3_28515482	Ca6	28515482	GAAAAAA/GAAAAAA	GGCATAGGTGAGATGA CCGT	GCTCCTTATCAAACCA TTTGC	60.0	507	INTERGENIC	--	--	--
Ca6_P3_28520849	Ca6	28520849	A/AC	TTAGAAACAGGGACCC CTCC	TTGTCTGTGAACCGAA GCTG	60.3	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
Ca6_P3_28520924	Ca6	28520924	CAA/CAATTAAA	TTAGAAACAGGGACCC CTCC	TTGTCTGTGAACCGAA GCTG	60.3	577	INTERGENIC	--	--	--
Ca6_P3_28520971	Ca6	28520971	TCTTGCCTTGCCTTG/TCTTGCCTTG	TTAGAAACAGGGACCC CTCC	TTGTCTGTGAACCGAA GCTG	60.3	577	INTERGENIC	--	--	--
Ca6_P3_28521027	Ca6	28521027	A/ACATAG	TCTCATTCTTGCCTTGC CTT	TTGTCTGTGAACCGAA GCTG	60.0	172	INTERGENIC	--	--	--
Ca6_P3_28521076	Ca6	28521076	AACTAT/A	TCTCATTCTTGCCTTGC CTT	TTGTCTGTGAACCGAA GCTG	60.0	172	INTERGENIC	--	--	--
Ca6_P3_28536872	Ca6	28536872	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA	TCCCAAATTAAGGAG ATTTTG	TTCCACTTCCTTTTCCA CCA	59.3	477	INTERGENIC	--	--	--
Ca6_P3_28537234	Ca6	28537234	ATT/AT	ATTCTCTCAAAGCCCTCA CCT	TTCCACTTCCTTTTCCA CCA	60.1	436	INTERGENIC	--	--	--
Ca6_P3_28575687	Ca6	28575687	TAAAAAAA/TAAAAAA	ATTCAGACGCCCTGAA TCAC	AGCGAAATTAAGGCC CAAT	60.1	674	INTRON	Ca_17492	--	--
Ca6_P3_28577470	Ca6	28577470	GATATATATATATATAT/GATATATAT ATATATATATAT	GGTGTGGAGTCATGT CTTTGA	ATTGAACTAACCCGTG CGTC	60.0	235	DRR	Ca_17491	O	Trihelix
Ca6_P3_28608731	Ca6	28608731	CTTTTTTTTT/CTTTTTTTTTT	TGGTGCGACATAACTC AAGG	AGCCGACATTGCAAAA GACT	59.7	500	INTERGENIC	--	--	--
Ca6_P3_28610431	Ca6	28610431	CT/C	AGGATTGGTTCAAGG GTCC	TGTCCTGACTCTTGGC AGTG	60.2	643	DRR	Ca_17488	K	--

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
Ca6_P3_28646044	Ca6	28646044	GAAAAAAAAA/GAAAAAAAAA	ATTTTGGAGCCACTCTGC	AATATGCCCCGTGAAAATGA	59.3	605	INTERGENIC	--	--	--
Ca6_P3_28696962	Ca6	28696962	ATTT/ATT	CCATAGTGAAGGTTTCGCGTT	CAATTGAGTTGCGACGAGAG	60.1	563	INTRON	Ca_17480	Q	Nin-like
Ca6_P3_28844267	Ca6	28844267	CCAACA/CCAACAACA	ATGGCGTATCCATTCCA AAA	TGACACGCAAGTGTAG GAGC	60.2	422	INTERGENIC	--	--	--
Ca6_P3_28878487	Ca6	28878487	T/TCA	CTCCGTTTTCTGCACAT CAA	TGATGTTGCCTCTGTT TTGC	59.8	396	INTERGENIC	--	--	--
Ca6_P3_28880869	Ca6	28880869	ATATTATTATTATTATTATTATT ATT/ATATTATTATTATTATTATTAT TATTATTATT	TTAACCGCATGTTCACT TGG	ACCCTTGCTTACTCCT CGCT	59.6	254	INTERGENIC	--	--	--
Ca6_P3_28958770	Ca6	28958770	AAT/AATAT	GAGTAACCGTTGGCTGTGGT	TCCGTTCAAGTTGAGTT TGGC	60.0	478	INTERGENIC	--	--	--
Ca6_P3_29085384	Ca6	29085384	CAAAAAAAAA/CAAAAAAAAA	CGCTAGCAACAGAATT GCAG	TTCGACCGATTGAAGA AAGC	59.8	300	DRR	Ca_17464	U	LSD
Ca6_P3_29128097	Ca6	29128097	AGT/A	AAATCCATTTGAGGCAC CTTT	CATTCCACCATCATAT TGCC	59.8	305	INTERGENIC	--	--	--
Ca6_P3_29231459	Ca6	29231459	AAAGTCTCAAGTCTCAAGTCTCAA/AA GTCTCAAGTCTCAAGTCTCAAGTCTCA A	ACTCCCACACACCTCAA AGG	TTTCAAGTCTAGTCGA AGTTCATCA	60.0	834	INTERGENIC	--	--	--
Ca6_P3_29395219	Ca6	29395219	AT/A	GCGTTGGTGCTTCCAT TATT	GCCAACTGTTCCACCT TGTT	60.0	487	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
Ca6_P3_2939568	Ca6	2939568	CATATATATATATATATATA/CATATATA TATATATATA	AGCTGAAACACCCACA CACA	CTTGGCTTCTAAGGCA CCAG	60.2	107	INTERGENIC	--	--	--
Ca6_P3_29478598	Ca6	29478598	CTATATATATATATATATAT/CTATAT ATATATATATATATATAT	TGAAGAGGAAACTGAA GCGG	ATGTGAATCCCACCAG GAAA	60.5	837	INTERGENIC	--	--	--
Ca6_P3_29492158	Ca6	29492158	A/ATCTG	TGTGCCGGTCTCTAAA ATTG	GGATAAACCGGTGACC ATTG	59.9	289	INTERGENIC	--	--	--
Ca6_P3_29526669	Ca6	29526669	A/AAATATTAG	CACTGCCTATTTGTGG CAGA	TTATATCATGGCATCG GCAA	59.9	829	DRR	Ca_25977	O	B3
Ca6_P3_2960468	Ca6	2960468	CATATATATATATATAT/CATATATAT ATATATATATAT	AAGAAAGGGGTATTGG TGCC	CACAAATTTGACAATAA ACTTTGACA	60.2	698	INTRON	Ca_10438	T	bHLH
Ca6_P3_29669305	Ca6	29669305	GAAAAAAAAA/GAAAAAAAAA	GCCCTCAGATGAGAGT CAGG	AATGGCCAGATGAAAT CGAG	59.9	596	INTERGENIC	--	--	--
Ca6_P3_29990272	Ca6	29990272	CAATAATAATAATAATAATAATAAT AAT/CAATAATAATAATAATAATAAT AATAATAAT	TGAACCCAAATTGATCC CAT	AAAATTTGGGGTTGT CGTG	60.0	744	INTERGENIC	--	--	--
Ca6_P3_29991077	Ca6	29991077	TACACACACACACACAC/TACACA CACACACACACACACA	CGACAACCCCAAATTT TCTT	TTCAACACAAACAATAG CAATTCA	60.2	833	INTERGENIC	--	--	--
Ca6_P3_30062004	Ca6	30062004	TA/TACCCGCGA	CCGTGTTGTCTTTCCA GGT	CCCAAGATGGTACTGA CCCA	60.0	509	DRR	Ca_24052	GM	FAR1
Ca6_P3_30070176	Ca6	30070176	GAAAAAAAAA/GAAAAAAAAA	GCGACCATTTACTGCT CCTC	AGCCTCGTAGGTTCTGA CTGA	59.8	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 (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
Ca6_P3_30157946	Ca6	30157946	GTTTT/GTTT	GCCAACATTGCATGAG AGAA	CATTTTCAAAGAGGGG TCCA	59.8	554	INTERGENIC	--	--	--
Ca6_P3_3021594	Ca6	3021594	GAATAATAATAATAATAATAATAAT AATAATAATAATAATAA/GAATAATAATA ATAATAATAATAATAATAATAATAATA TAA	CCTCCCAAATACATG GTTG	GCCCGCTTCTGTGTAT TGAT	60.0	394	INTERGENIC	--	--	--
Ca6_P3_30456247	Ca6	30456247	AATTAT/AAT	GCGTTTCGACACAATT TCC	AAAATAACGGGCAAGC CTTT	60.5	882	INTERGENIC	--	--	--
Ca6_P3_30544976	Ca6	30544976	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT	TCCATGGCTAGGGTTT TGAG	GCAAGCTAAGCAAAGG ATGG	60.1	885	INTERGENIC	--	--	--
Ca6_P3_30580681	Ca6	30580681	GAGAAGAAGAAGAAGAAGAAGAA G/GAGAAGAAGAAGAAGAAGAAGAG	GACCTCGAAATTGAGA AGCG	GCATCGTCATCTTTC TTCA	60.0	109	CDS (large-effect mutations)	Ca_16460	--	--
Ca6_P3_30588229	Ca6	30588229	AATCGC/A	GGACGTCTACAACATT GGGG	CCACATGAGTGTGTG AGGG	60.2	948	DRR	Ca_16461	--	SAP
Ca6_P3_30637059	Ca6	30637059	TTATATATATATATATATATATA/TTATA TATATATATATATATATATA	ATTTGACGATGCCAGG AAAA	AACTTGCACTTCAACA GGGG	60.4	513	INTRON	Ca_16463	I	--
Ca6_P3_30646281	Ca6	30646281	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATAT	TGGTTTTCTTTTCATT TTCCC	TGCAACACTTACTCCA ACCG	59.4	739	INTERGENIC	--	--	--
Ca6_P3_30698837	Ca6	30698837	GTTATTTATTTATTTATTTATTTAT TTATT/GTTATTTATTTATTTATTT ATTTATTTATTTATTTATTT	CGTTTTCGGTTTCAGG GTAA	CCCATACCTATTACCC ACGC	60.0	949	INTERGENIC	--	--	--
Ca6_P3_30724309	Ca6	30724309	AATATATATATATATATATAT/AAATAT ATATATATATATATATAT	CCGTTGGGAGTTTGG AGTA	TGCGTATGCTTCAACG TCAT	60.0	587	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
Ca6_P3_3098575	Ca6	3098575	TAAAAAAAA/TAAAAAAAAA	TGGAGGAACCTCACCC TCTT	CTGCTCTCCACTTCC ACAA	58.7	818	INTERGENIC	--	--	--
Ca6_P3_3108108	Ca6	3108108	AT/ATAATAATAATAATATT	CACCAGTGTCGAATCA CCCT	CGTCTCATGTTCTCC AGGT	60.8	508	INTERGENIC	--	--	--
Ca6_P3_31096995	Ca6	31096995	AAATAA/AAA	GACGTGTTTTTAAGGAT TGGAAA	CTTTGCTTGACCAAA CTGG	59.4	420	INTERGENIC	--	--	--
Ca6_P3_31097071	Ca6	31097071	TTAT/TT	AAGAGTCAATGACCAC CTTCAAA	CTTGCTTGACCAAA CTGG	60.0	318	INTERGENIC	--	--	--
Ca6_P3_31097180	Ca6	31097180	ATTT/ATTTTT	TCCCAATTGAGTGACAT CTTTC	CTTATAGCCGAATGGC CAAA	59.0	587	INTERGENIC	--	--	--
Ca6_P3_31097254	Ca6	31097254	ATT/ATTTTT	CAACAATTTCCCAAA AAACA	CTTATAGCCGAATGGC CAAA	59.8	492	INTERGENIC	--	--	--
Ca6_P3_31099504	Ca6	31099504	TA/T	TGGGATGATGTTGGGA AAGT	TTGCAAGAAAACCTC GCTT	60.2	129	INTERGENIC	--	--	--
Ca6_P3_31132134	Ca6	31132134	TAAA/TA	CACTCCAGGTTCCATT CTC	GCTGGTGGCTAATTAT TCCATT	59.5	708	INTERGENIC	--	--	--
Ca6_P3_31146150	Ca6	31146150	TAAA/TAAAA	TGCACGAGATGATTG TTTGA	TCAATGGTGGCTTGTG GTTA	60.3	374	INTERGENIC	--	--	--
Ca6_P3_31163168	Ca6	31163168	GAA/GA	TATCACCTATCAGAGC GGGG	GATCTATGAGGACAGG GCCA	60.1	241	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
Ca6_P3_31288919	Ca6	31288919	AATATATATATATATATATTTATATAT ATATATATTTATATATATATATATATA /AATATATATATATATATATTTATATATA TATATATTTATATATATATATATATA	TGATTCTTGAAAGTTAG CAAACACA	ATCGACAAACCAACAT GCAA	60.2	460	INTERGENIC	--	--	--
Ca6_P3_31301748	Ca6	31301748	TTTTTTTAAATTTTTT/TTTTTTTAAAT TTTTTAATTTTTTT	AGTTGTGGGGGAGGCT TAGT	AGGCAGGGGCAACTAA AGAT	60.0	410	INTERGENIC	--	--	--
Ca6_P3_31312507	Ca6	31312507	GAAAA/GAAAAA	CACTGCAAGTCACACA TGACA	TGAATGTTGTTTATACG CCG	59.3	744	INTERGENIC	--	--	--
Ca6_P3_31331884	Ca6	31331884	TTATATATATATATATATATA/TTATA TATATATATATATA	TGACATTGTGATTTTCG TTGTTT	GTTTGTGAAATTGGG GGTG	58.5	874	DRR	Ca_15166	--	--
Ca6_P3_31471169	Ca6	31471169	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	CAACGTCGTCGAAGAC AAGA	CCTTCGGCAAACCTCT TCAG	60.0	731	INTERGENIC	--	--	--
Ca6_P3_31528724	Ca6	31528724	AG/A	CCCCCAACCACTTTGT CATA	GCCCAATGACCCACAT ACTC	60.6	526	DRR	Ca_15182	--	--
Ca6_P3_31551380	Ca6	31551380	A/ATTG	ATGGCATCGTTGTCAC AAAA	CAACTAACTGCGCCA CCTT	60.0	699	INTERGENIC	--	--	--
Ca6_P3_31632123	Ca6	31632123	A/ATATATT	TTCACACCTACGTTGC TAAAA	TCCGCTTCTCTAACCT TTGC	57.6	294	DRR	Ca_15189	R	SBP
Ca6_P3_3166147	Ca6	3166147	TATCGGTTCGGCCATTTCATCGGTT GGCC/TATCGGTTCGGCC	TCAGATTCTATCGGTT GGC	ATATGCTGCACCTTGG TTCC	60.2	202	INTERGENIC	--	--	--
Ca6_P3_31681100	Ca6	31681100	ATTTTTTTTT/ATTTTTTTTT	GAGCCCCGATCCATAT ACCT	GTCACACAATCACTGA CCGC	60.1	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 (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
Ca6_P3_3170767	Ca6	3170767	AT/ATT	AAGTAGCATGCTTGGC TCAAA	CACCTTCCATTGCCAT TCTT	60.0	129	INTERGENIC	--	--	--
Ca6_P3_3170785	Ca6	3170785	ATTTTTTTTT/ATTTTTTTT	AAGTAGCATGCTTGGC TCAAA	CACCTTCCATTGCCAT TCTT	60.0	129	INTERGENIC	--	--	--
Ca6_P3_3176026	Ca6	3176026	AGG/AGGG	GCAATGGAAGGTGAAA ATGG	GCATAGGAGCGTGGAA ATTG	60.3	522	INTERGENIC	--	--	--
Ca6_P3_3176136	Ca6	3176136	G/GAAAAATGTCTCGTC	TGGCAATGGAAGGTGA AAAT	TTTAACCCCTTTTCAACC GCA	60.3	769	INTERGENIC	--	--	--
Ca6_P3_31789591	Ca6	31789591	GATATATATATATATATATATATATA TATATA/GATATATATATATATATATA TATATATATATATA	CCAGAAATGAATGTCT GCCA	GCTTATTGCCAAAACG CTGT	59.6	892	INTERGENIC	--	--	--
Ca6_P3_31939689	Ca6	31939689	G/GAT	CTGCGGTTCTTGCTGA TGTA	AGGCAGCTTGATTCT TGGA	60.0	382	INTERGENIC	--	--	--
Ca6_P3_31946423	Ca6	31946423	TAAAAAAAAA/TAAAAAAAAA	ATCAAGCATTCAAGTTG GGG	TTTGTTCCCGATCCT TATG	59.9	520	INTERGENIC	--	--	--
Ca6_P3_31950641	Ca6	31950641	ATTTTTTTT/ATTTTTTTT	CCACTTCAGCGTGCAA TCTA	TTCTTGGGTAGAAAT GCGG	60.0	612	INTERGENIC	--	--	--
Ca6_P3_32089022	Ca6	32089022	TAAAAAAAAA/TAAAAAAAAA	AAGATGTCGGGGTGT ACCTT	CCCTGTTGGTACGTTG GTCT	59.7	747	INTERGENIC	--	--	--
Ca6_P3_3215275	Ca6	3215275	ATTTTTTTT/ATTTTTTTT	TTTGCTCATTGAAATTT TCGG	CGGTGCAACGTGATAT TTTG	60.1	638	DRR	Ca_26315	A	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/Pil) reference genome-CDC	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_32199865	Ca6	32199865	AAT/A	AGGGAGGCCTTGCTT AGTG	CACGTTTTAGGGATGT GACG	60.8	553	DRR	Ca_15217	--	--
Ca6_P3_32300884	Ca6	32300884	AATATATATATATATATATATATATATATATATATATATATATATATATATATATATA TATATATATAT	GGCAAAATGTGTTGTG ACCA	TTGTGGTTTGGAATCA TTTCCTT	60.4	757	INTERGENIC	--	--	--
Ca6_P3_32322921	Ca6	32322921	AC/A	GTCACGCCACGAGTA ACTA	TCACTTCACAACCCTC ATCAA	59.9	283	INTERGENIC	--	--	--
Ca6_P3_3232392	Ca6	3232392	ATTTATTTTTATTT/ATTTATTTTTATTTT TATTT	ACGTGGCTCCTTATAC CACG	TTTTTGAGCCTTTTCA CCAA	60.0	563	INTERGENIC	--	--	--
Ca6_P3_32325547	Ca6	32325547	C/CACATACCAAT	TTCCTCCATTTTATTG CCG	TGTTTCGCTTGAGGT TTTT	59.9	200	INTERGENIC	--	--	--
Ca6_P3_32372827	Ca6	32372827	CAA/CA	GAATACGCGGCTGATT CATT	CGCCCCGTTTTAACTC ATTA	60.1	613	INTERGENIC	--	--	--
Ca6_P3_32372983	Ca6	32372983	TTTATT/TTT	GAATACGCGGCTGATT CATT	CGCCCCGTTTTAACTC ATTA	60.1	613	INTERGENIC	--	--	--
Ca6_P3_32373493	Ca6	32373493	ATAATA/ATAATATTAATA	TAAAGAGTTAAAACGG GGCG	TGGTCCAACACGAAGA GAAA	60.0	381	INTERGENIC	--	--	--
Ca6_P3_32373522	Ca6	32373522	AATA/AAAATATA	TAAAGAGTTAAAACGG GGCG	TTGGTCCAACACGAAG AGA	60.0	382	INTERGENIC	--	--	--
Ca6_P3_32391786	Ca6	32391786	AATATATATATATATA/AATATATATATA TATATA	CGCTATGCCCCATTAG ATGT	TTTGATTGACTCATTC GTG	59.9	294	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
Ca6_P3_32394139	Ca6	32394139	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT T	ACGCTTTCGTCCCTGA TAA	CTGTGCCTTTTGAATT GACC	59.7	672	INTERGENIC	--	--	--
Ca6_P3_32406729	Ca6	32406729	TCAAG/T	GCCCCCACTATTCTC GATT	AAAAGTGAAACGCTTG GCAT	60.3	593	INTERGENIC	--	--	--
Ca6_P3_32519592	Ca6	32519592	AG/A	CGCATGCCACTCACTC TAA	CGCTGCCACTTTCTAC ATCA	60.0	611	INTERGENIC	--	--	--
Ca6_P3_32521477	Ca6	32521477	GACATGATAC/GAC	TTGCCAACGTGTCAATC ACT	TTTCCCTACTATTTTG CAGCC	60.2	259	INTERGENIC	--	--	--
Ca6_P3_32521795	Ca6	32521795	ATTTTGTTGTTTT/ATTTT	TTGCCAACGTGTCAATC ACT	TGCTAGGACCAACGAT CATGT	60.2	902	INTERGENIC	--	--	--
Ca6_P3_32522263	Ca6	32522263	CA/CAA	TTGTTCATTTTTGGTCG TTCA	CCTTGCGGATATAGG GAAT	59.0	347	INTERGENIC	--	--	--
Ca6_P3_32539826	Ca6	32539826	TAAAAAAAAA/TAAAAAAAAA	TATGAGCCTCTGCCAG CTTT	GTCCGCGTCCATTGAT AAAC	60.1	562	INTERGENIC	--	--	--
Ca6_P3_32540257	Ca6	32540257	TACATAA/TACATAAGAAACATAA	GTTTATCAATGGACGC GGAC	TTCCCTAAAAACGGT TGTG	60.3	341	INTERGENIC	--	--	--
Ca6_P3_32540480	Ca6	32540480	GTTTTTTTT/GTTTTTTTT	CACAACCGTTTTTAGG GGAA	GAGGATTGCTATGGAC AACCA	59.8	214	INTERGENIC	--	--	--
Ca6_P3_32540585	Ca6	32540585	AATATATAT/AATATAT	CACAACCGTTTTTAGG GGAA	AAGGAGAACCAGTCAA CCACA	59.8	278	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
Ca6_P3_3255826	Ca6	3255826	AATATATATATATAT/AATATATATAT ATATATAT	TGGCTTGTTTGATTAG GACA	ATTGGAATGATCAGTT GCCC	58.3	547	INTERGENIC	--	--	--
Ca6_P3_32617100	Ca6	32617100	AAA/AAATAA	GAACGGTCCATGCAAA AGTT	CCCCGATCCTTATAC GACT	60.0	554	INTERGENIC	--	--	--
Ca6_P3_32629991	Ca6	32629991	TAATGCA/TA	CGCTCTCAATCGTGCA ATAA	TAGTGATTGGAAAGGA CGGC	60.0	719	INTERGENIC	--	--	--
Ca6_P3_32630102	Ca6	32630102	TAAAAAAA/TAAA	TTTGAGGGAGGGAATT AGGG	TAGTGATTGGAAAGGA CGGC	60.3	583	INTERGENIC	--	--	--
Ca6_P3_32630124	Ca6	32630124	TAAA/TAAAA	TTTGAGGGAGGGAATT AGGG	TAGTGATTGGAAAGGA CGGC	60.3	583	INTERGENIC	--	--	--
Ca6_P3_32630376	Ca6	32630376	AGGGG/AGGGGGG	GCCGTCCTTTCCAATCA CTA	ATCGGGAAGAGGTTAG GGAA	60.1	123	INTERGENIC	--	--	--
Ca6_P3_32646614	Ca6	32646614	ATTTTTTTTT/ATTTTTTTT	CATCACGTGCTTGATG ATGA	TGAATTCAGAACAAAA CGATCAA	59.2	503	INTERGENIC	--	--	--
Ca6_P3_32906720	Ca6	32906720	AATATATATATATATATATATAT/A ATATATATATATATATATATAT	CCTCGAAAAGGCAATG TGAT	TAATCATGACCTTCTC GCCC	60.1	575	INTERGENIC	--	--	--
Ca6_P3_330218	Ca6	330218	GATATATATATATATATATA/GATATA TATATATATATATATA	GCAGTTTGATCCTTAG GCTGAT	TATTGTGATCCTTGGG CTCC	59.8	880	INTERGENIC	--	--	--
Ca6_P3_33094621	Ca6	33094621	ATTT/ATT	TCAAAATGTAGCGGGT TTCC	AAGCCTTCCTCAAAAT CCAA	59.9	398	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
Ca6_P3_33094845	Ca6	33094845	CAAAAA/CAAAAA	TCAAAATGTAGCGGGT TTCC	AAGTTGGACAAAATTG GGGT	59.9	950	INTERGENIC	--	--	--
Ca6_P3_33113807	Ca6	33113807	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATT/TTTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATT	AGAGGCAACAAGAAC CGAA	TTGTGGCATTITCCAC TTCA	59.9	433	INTERGENIC	--	--	--
Ca6_P3_33229235	Ca6	33229235	CTT/CTTT	GCTTTTATCCAAATTA TGGCG	AAATTTTAGACCGCGA CACG	59.8	758	INTERGENIC	--	--	--
Ca6_P3_33229272	Ca6	33229272	GAAAA/GAAA	TGTTGACGGTGTGTTTT TAAGG	AAATTTTAGACCGCGA CACG	59.9	477	INTERGENIC	--	--	--
Ca6_P3_33229296	Ca6	33229296	TG/TGG	CGGTGTGTTTTTAAGG ATTGG	AAATTTTAGACCGCGA CACG	59.4	471	INTERGENIC	--	--	--
Ca6_P3_33229369	Ca6	33229369	ATTTTTTTTTTTTT/AATGTTTTTTTTT TTTT	CGGTGTGTTTTTAAGG ATTGG	AAATTTTAGACCGCGA CACG	59.4	471	INTERGENIC	--	--	--
Ca6_P3_33229523	Ca6	33229523	AAAAACGAAAA/AAAAA	CGGTGTGTTTTTAAGG ATTGG	GCGGATATCGTAGGGT GCTA	59.4	644	INTERGENIC	--	--	--
Ca6_P3_33229803	Ca6	33229803	TAAAAAAA/TAAAAA	AAGCAAGCCAAAAACG AAAA	GCGGATATCGTAGGGT GCTA	59.9	382	INTERGENIC	--	--	--
Ca6_P3_33229847	Ca6	33229847	T/TC	AAGCAAGCCAAAAACG AAAA	GCGGATATCGTAGGGT GCTA	59.9	382	INTERGENIC	--	--	--
Ca6_P3_33240261	Ca6	33240261	A/AAAGAG	GTTTGGTATTGGGCTC CCTT	CACAATTCCTCCCTCT CCAA	60.2	314	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
Ca6_P3_33240380	Ca6	33240380	A/AG	GTTTGGTATTGGGCTC CCTT	CGAAACTCACCCCTTG TTGT	60.2	750	INTERGENIC	--	--	--
Ca6_P3_33240744	Ca6	33240744	AA/AAAAATATATATA	TTGGAGAGGGAGGAAT TGTG	CGAAACTCACCCCTTG TTGT	60.0	456	INTERGENIC	--	--	--
Ca6_P3_33293827	Ca6	33293827	TGGG/TGGGG	CCAAGGCTATGAGACC TATCTGA	TGAAAACCTTTGAAG GTGC	59.8	510	INTERGENIC	--	--	--
Ca6_P3_33308806	Ca6	33308806	ATATCAGTATCAGTAT/ATATCAGTATC AGTATCAGTAT	TTTTGGAGCTTCAGCAT TTG	CCTCTTTTCTTCGCATT TCG	59.0	518	INTERGENIC	--	--	--
Ca6_P3_3331064	Ca6	3331064	TAAAAAA/TAAAAAA	CAAATTGAAAAGTGGG GCAAT	TTAAAGTTGGGAGACC ACCA	59.8	417	INTERGENIC	--	--	--
Ca6_P3_33340808	Ca6	33340808	GTTTTTTT/GTTTTTTT	TTCAATGTCATACACAG GCCA	ATGATAACGCATGAAT GGCA	60.0	841	INTERGENIC	--	--	--
Ca6_P3_3340164	Ca6	3340164	ATTTTTTTTT/ATTTTTTTTT	AGGACAATGGGCAAAAG ACAC	TCATCACCTCAACCAA TCCA	60.0	267	INTERGENIC	--	--	--
Ca6_P3_33428657	Ca6	33428657	GTATATATATAT/GTATATATATATATAT	CCGCGAGTAATTCCGA TAAA	TTTTGGGATCGTTTCA AATC	60.1	764	INTERGENIC	--	--	--
Ca6_P3_3346076	Ca6	3346076	TATATAT/TATATATACATATAT	ATAAATCACGGCCCAA CAAC	CCATTGCACATTGGT TTTC	59.7	611	INTERGENIC	--	--	--
Ca6_P3_33506970	Ca6	33506970	AAAAGTTAA/AAA	CCATTTGATCTGCAACA TTGA	GAAAAGGGGTGATTG GGAT	59.5	273	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 (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
Ca6_P3_3351397	Ca6	3351397	GAT/GATAAAATTAT	CGAAAATGGAAAACAC CACC	AAGTTCGCGGTGAAT TGTTG	60.2	278	INTERGENIC	--	--	--
Ca6_P3_3351662	Ca6	3351662	GATATAT/GATATATATAT	CGAAAATGGAAAACAC CACC	TCGAGTTGCGTAACTG ACATAG	60.2	687	INTERGENIC	--	--	--
Ca6_P3_3351745	Ca6	3351745	CATATTATATATA/CATA	GGTTGATTTAGGCTTCA CGG	TCGAGTTGCGTAACTG ACATAG	59.6	580	INTERGENIC	--	--	--
Ca6_P3_3352912	Ca6	3352912	AATTA/AA	AAAGTGGGTGGCAATT AACG	TTATCCAATTCGGTG CACA	59.9	247	INTERGENIC	--	--	--
Ca6_P3_3353375	Ca6	3353375	TAA/TAAA	CAAAGAGCGTGATGC AGATG	CCAAAATAGCCGTTTT GACA	59.5	598	INTERGENIC	--	--	--
Ca6_P3_3355103	Ca6	3355103	GCTATTGATCAATCTATTGAT/GCTATT GAT	TGAATAGATGTGCGCG AGAC	TCCACGGGAGTGAGA GAGAT	60.0	401	INTERGENIC	--	--	--
Ca6_P3_3355875	Ca6	3355875	CTTT/CTTTT	AATTTGGCCCTATTGG CTTT	AGAAACGGAATGAGTC ACGG	59.8	709	INTERGENIC	--	--	--
Ca6_P3_3374756	Ca6	3374756	AT/ATGTGTGTACACATGT	GAAACTTCAGCAAAAAC CGC	TGTGATATCCCAATCC GCTT	59.9	806	INTERGENIC	--	--	--
Ca6_P3_3377584	Ca6	3377584	CTTTTT/CTT	ATGCGGTGATGGTGAT ATTG	TATGGCGAATATGGAT GGGT	59.2	745	INTERGENIC	--	--	--
Ca6_P3_3378118	Ca6	3378118	GAGAA/GA	ACCCATCCATATTCGCC ATA	TTTGCCATCCTCTCTTT TTCA	60.0	653	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 (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
Ca6_P3_3382789	Ca6	3382789	CTTTTT/CTTT	ATCACCGACCACTCAC CTTC	GTTCATCAGTGCAGC GTGT	60.0	810	INTERGENIC	--	--	--
Ca6_P3_3382946	Ca6	3382946	CAAAAA/CAAAA	TAACCACCAACATTCTG CCA	TGTTCCGTCCCACTCA TACA	60.0	927	INTERGENIC	--	--	--
Ca6_P3_3387209	Ca6	3387209	CA/CAAAATGGTGTA	ACCCCTGAACGATGTA AACG	CGCTCTTATCCTGTTG GCTC	59.9	547	INTERGENIC	--	--	--
Ca6_P3_3387853	Ca6	3387853	AGTACGTA/AGTA	GAGCCAACAGGATAAG AGCG	GAAAATTGAGTTCCAT GACGTTT	60.0	477	INTERGENIC	--	--	--
Ca6_P3_3387937	Ca6	3387937	A/AAT	GAGCCAACAGGATAAG AGCG	GAAAATTGAGTTCCAT GACGTTT	60.0	477	INTERGENIC	--	--	--
Ca6_P3_3388065	Ca6	3388065	GATATATATAT/GATATAT	GAGCCAACAGGATAAG AGCG	TTGTCTTTCACCTCTTT TTCCG	60.0	841	INTERGENIC	--	--	--
Ca6_P3_33886477	Ca6	33886477	GTTTAGGTT/GGTATTTAGTT	CTGGGCAAGGGATCTG AATA	GCGCTTTTTAGCTTTT AGCTTT	60.0	575	INTERGENIC	--	--	--
Ca6_P3_3393001	Ca6	3393001	AAATAATAATAATAATAATA/AAATA ATAATAATAATAATA	AGATTACTCTGCCTTCC CGC	TTTTCGTTTTAGATGG CCAAA	60.7	707	INTERGENIC	--	--	--
Ca6_P3_3393568	Ca6	3393568	GGTGTAGTGTAG/GGTGTAG	CATTTTGCCATCTAAA ACGA	TGGAAAAATAAACGTT GCCC	60.0	603	INTERGENIC	--	--	--
Ca6_P3_3393624	Ca6	3393624	CAAAAA/CAAAAAA	CATTTTGCCATCTAAA ACGA	TGGAAAAATAAACGTT GCCC	60.0	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
Ca6_P3_3393664	Ca6	3393664	CAAAAAA/CAAAAAA	CATTTGGCCATCTAA ACGA	TGGAAAAATAACGTT GCCC	60.0	603	INTERGENIC	--	--	--
Ca6_P3_3394137	Ca6	3394137	AT/ATT	CCATCCAGAGCACCTG AAAT	TCAATTGCCTTGCATG TTGT	60.1	371	INTERGENIC	--	--	--
Ca6_P3_3395377	Ca6	3395377	GTA/GTAATTGTA	GGCAGGAACGATACCA CAGT	TTGCCCGTACAAAAGA ATCC	60.0	428	CDS (large-effect mutations)	Ca_05973	U	Trihelix
Ca6_P3_3395635	Ca6	3395635	GTT/GT	GGCAGGAACGATACCA CAGT	TTGCCCGTACAAAAGA ATCC	60.0	428	INTRON	Ca_05973	U	Trihelix
Ca6_P3_34164737	Ca6	34164737	CCCACCAC/CCCAC	CCACTTTGTTGGGAAAA ACC	AGAAGAACGGTTGCCA AAGA	59.3	504	INTERGENIC	--	--	--
Ca6_P3_34169955	Ca6	34169955	GAAAAA/GAAAAA	TTTTTAACGCGTGC GTT TTT	ACTGACCTGAATGGGA CCTG	60.6	795	INTERGENIC	--	--	--
Ca6_P3_3420698	Ca6	3420698	TTATATATATATATATATATATAT/ TTATATATATATATATATATATATA TAT	TAGCCGACAACATTGG AACA	TGAACTCGCACATTG AGGA	60.1	386	INTERGENIC	--	--	--
Ca6_P3_34570118	Ca6	34570118	TTTTTTG/T	TGGTCGACAAGCAACT GAAG	AACAATCTCCCCCTTTT TGG	60.0	583	DRR	Ca_15816	--	--
Ca6_P3_34684644	Ca6	34684644	GC/GCC	TTGACAAAGGGGAGA AAAA	GCCCAATCCAAAGCTC ATAA	59.5	680	INTERGENIC	--	--	--
Ca6_P3_34728984	Ca6	34728984	TTATATATATATATATATAT/TTATAT ATATATATATATATAT	TAGGCACATCAAGTCA ACCG	TCAGACCATCCGATAG AGGC	59.7	570	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 (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
Ca6_P3_3479783	Ca6	3479783	AA/AATTTTGTA	GTTGAGGTCAGCTCCA AAGC	TCTATGTGCTCTCTCC GATGAA	60.0	621	INTERGENIC	--	--	--
Ca6_P3_34816135	Ca6	34816135	ATTTT/ATTTT	ATGCAATGCGTATATGC CAA	GTGTTTGGTGTGGAT CGTG	59.9	872	INTERGENIC	--	--	--
Ca6_P3_34827878	Ca6	34827878	CATATATATATATATATATATATAT ATA/CATATATATATATATATATATAT ATATA	AAGTTTCGGGGTAGAG CGAT	TGTAGCATTCTCATGG CGAG	60.1	645	INTERGENIC	--	--	--
Ca6_P3_34838383	Ca6	34838383	TTAATAATAATAATAATAATAATAA TAACAATAATAATAATAACAATAAT AATAACAATAATAACAATAATAATAA ACAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAC ATAATAACAATAACAATAACAATAA ATAATAACAATAACAATAACAATAA	CACGTTTGATGTTGGAT CAGA	TGCCACCAATTTTGTG ATGT	59.6	537	INTERGENIC	--	--	--
Ca6_P3_34856533	Ca6	34856533	CATATATATATATATATATATATATA/ TATATATATATATATATATATATA	CTGACTCTGGTGGGA ATGT	ACAACAATGGCTCCAC ATCA	60.0	487	INTRON	Ca_15803	G	--
Ca6_P3_34859064	Ca6	34859064	GATATATATATATATATATATATA/AG TATATATATATATATATATATATA	GAAAGAGTTTTGAGCC ACGG	AAGTCCAATCTCGGTC AAACTT	59.9	625	INTERGENIC	--	--	--
Ca6_P3_35093227	Ca6	35093227	GAGTGTGACTTTTTCA/GAGTGTGA CTTTTTCATAGTGTGACTTTTTCA	AACCGCTATTGGGCTA GGTT	CTCTGATATGCGTGGC AAGA	60.0	646	INTERGENIC	--	--	--
Ca6_P3_35161798	Ca6	35161798	TA/TAAATATAAAA	AGGAAGAGTGGAGTTG CGAA	CGGTTGAGAACCAAGG ATGT	60.0	649	INTERGENIC	--	--	--
Ca6_P3_35169658	Ca6	35169658	GTATATATATATATATATATATATA/G TATATATATATATATATATATATATAT ATATATA	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGGCT CGG	60.0	524	INTERGENIC	--	--	--
Ca6_P3_3519049	Ca6	3519049	GTTTTTTTTT/GTTTTTTTTT	AAGACTGCCCTGACCA GAGA	GTGGGGGACTAAGCTA AGGG	60.0	334	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
Ca6_P3_35192974	Ca6	35192974	ATTTTTTTTT/ATTTTTTTTTT	TCTGCTAGGTTGTCGT TCCC	CTCAGTCCTTGCCATT GTGA	60.3	396	INTERGENIC	--	--	--
Ca6_P3_35336378	Ca6	35336378	CAAAA/CAAA	GACTGATGGACAAAGA AGTAGACG	TTGCACCCTCCTTTGA TTTC	59.3	546	INTRON	Ca_15781	R	G2-like
Ca6_P3_35376032	Ca6	35376032	GTTCAACTTTCAACTTT/GTTCAACTTT	TCCAGGACCAACACAT TTGA	TGCGTGTGGGTTTG TTTA	59.9	731	INTERGENIC	--	--	--
Ca6_P3_35399356	Ca6	35399356	GTTTGCTTTATA/GAATTTGCTTTATA	TTGAAGCTCAGATGGC ACAC	CTCCCCCTTTTGGA TAAT	60.0	718	INTERGENIC	--	--	--
Ca6_P3_35616799	Ca6	35616799	C/CCTT	GTTTCTGAGGCAAAATC CCA	TGCATTGTCTTCCCAT TGA	60.1	537	INTERGENIC	--	--	--
Ca6_P3_356286	Ca6	356286	TTATATATATATATATATATATATA /TTATATATATATATATATATATATA ATA	TTTGGTACCCCAATTG GTAA	CGATCCTTCGACTCAT CTCA	57.7	628	INTRON	Ca_13261	O	--
Ca6_P3_35647062	Ca6	35647062	TTATATATATATAT/TTATATATATAT	TGCACAACAAATCTCTT CACAA	CAATGAAACCATGTGG CAAA	59.4	569	INTERGENIC	--	--	--
Ca6_P3_35678654	Ca6	35678654	TAAAAAA/TAAAAAA	TTTTTCATGAGGATCCG AAA	AACTAATAGCCGTGCG CATT	58.1	633	INTERGENIC	--	--	--
Ca6_P3_35719325	Ca6	35719325	AATAGAATACTTTATTAT/AATAGAATA CTTTATTATAGAATACTTTATTAT	TGCATCGTTTTTCATCT TTCA	GCGGCTAATTTCAACC AAAT	59.3	630	INTRON	Ca_15773	--	--
Ca6_P3_35802672	Ca6	35802672	TTTCT/TT	GAGCCTTAGAGTTGGG AGCA	ACCCAACTTGTCGAAC CAAC	59.6	778	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 (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
Ca6_P3_35805652	Ca6	35805652	CAA/CA	AATGACATGTTTCCGC CTC	TAAACTTGTGCATTG GGCG	59.9	679	INTERGENIC	--	--	--
Ca6_P3_35805694	Ca6	35805694	CTTTAATTTTTTTA/CTTTAATTTTTTT TAATTTTTTTTA	AATGACATGTTTCCGC CTC	TAAACTTGTGCATTG GGCG	59.9	679	INTERGENIC	--	--	--
Ca6_P3_35810337	Ca6	35810337	C/CT	TCATCGATTGCAACTTG CTT	CCCTAAATTTTGTGG GCTT	59.4	672	INTERGENIC	--	--	--
Ca6_P3_35832130	Ca6	35832130	TTCTCT/TTCT	TCGCCTTCTCGAAATT AAGTC	AAAAGATTGGTTGGAT TAAAAAGA	59.9	147	INTERGENIC	--	--	--
Ca6_P3_35922388	Ca6	35922388	AT/ATT	TCTCCGTTTCATTCTCC ACC	CCTGGGGGCTGTTTTA CATA	60.1	450	INTERGENIC	--	--	--
Ca6_P3_35998479	Ca6	35998479	GA/G	CGCGTGTGAAATTGTG TTTC	TTCTCTGCCAATCCA TCTC	60.2	487	INTERGENIC	--	--	--
Ca6_P3_36029920	Ca6	36029920	CTTT/CTTTT	TTTGAACCAAAAACTT CTTCAA	GGAGAAAAAGAATTAA AATCCTCTAAA	60.0	520	INTERGENIC	--	--	--
Ca6_P3_36039668	Ca6	36039668	CATAA/C	CAAGTCGTCGCTTCCA AAGT	AATTGCGGCAGAGAA GATA	60.4	394	INTERGENIC	--	--	--
Ca6_P3_36247127	Ca6	36247127	A/ATTT	TTTTCGTGATTCAAAA GCC	AGGGAGGGGAGAAGT TCAAA	60.1	840	DRR	Ca_23959	S	--
Ca6_P3_3648114	Ca6	3648114	ATTTTTTT/ATTTTTTTTT	TCTCACGGTTCAACTC GTTT	TTTCGCTCACCTCACT CAGA	58.3	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 (°C)	Expected 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_P3_36491037	Ca6	36491037	GATATATATATATATATATATATATA TATA/GATATATATATATATATATATA TATATATATATA	TGGAAATTGGCACACA AGAA	TGCTTAACTTTCGGTG CCTC	60.1	667	INTERGENIC	--	--	--
Ca6_P3_36555408	Ca6	36555408	CCCGGACCGGACCGGACCGGACCGG/ CCCGGACCGGACCGGACCGG	CCAGGATAAAACAGCC CAGA	GCAATTTGTGAAGGA GGGA	60.1	498	INTERGENIC	--	--	--
Ca6_P3_36556485	Ca6	36556485	AC/A	TGTGTCTTGAGGGAAT TGGTG	ACATCACCAGCCACTT AGGC	60.9	800	INTERGENIC	--	--	--
Ca6_P3_3659457	Ca6	3659457	GTATATATATATATATATATATAT/G TATATATATATATATATATATATATA	TTACGTTTGTCTGGG AACA	CCGCTGAAGTTGTTAA ATCG	60.1	547	INTERGENIC	--	--	--
Ca6_P3_36722414	Ca6	36722414	ACCC/ACC	CTTAGGTTTGCACTCA GCCC	TCGCGGATCTGCTCTT AAAT	59.9	685	INTERGENIC	--	--	--
Ca6_P3_36722630	Ca6	36722630	TA/TAA	TTGCTCCTACGTATCCC CAG	TCGCGGATCTGCTCTT AAAT	60.1	295	INTERGENIC	--	--	--
Ca6_P3_36898169	Ca6	36898169	AATATATATATAT/AATATATATATAT	AAGAGAGGTCACTTTG GCGA	CAATTCCACAGGTAC GCTT	60.0	692	INTERGENIC	--	--	--
Ca6_P3_37029786	Ca6	37029786	GA/GAA	TTATGTTTGGGGTGGT GGTT	CTTTGGAGGATTTTC GGGT	59.9	273	INTERGENIC	--	--	--
Ca6_P3_37387169	Ca6	37387169	ATATTATTATTATTAT/ATATTATTA TTATTATTATTAT	CCGTAGTGTTCGCC TTGT	TAAGGGCATCCAAGGA TTTG	60.0	586	DRR	Ca_19797	--	E2F/DP
Ca6_P3_37518297	Ca6	37518297	AATATATATATATATATATATATA/AA TATATATATATATATATATATATATA A	GGATGAGGTAGCTTGG GACA	ACCAAACCTCACCAAG AGGA	60.1	389	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 (°C)	Expected 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_P3_37981019	Ca6	37981019	AATATATATATATATAT/AATATATATAT ATATATATATATAT	TTGACTTTCAAATGAAATGGC	AAAAGGGGCACAACATTCCT	59.1	838	INTERGENIC	--	--	--
Ca6_P3_37981858	Ca6	37981858	TAAA/TAA	TGCAATGACCTTGAAATTCG	CTTTAGCCTTCATCGCCAG	59.7	817	INTERGENIC	--	--	--
Ca6_P3_37982172	Ca6	37982172	AATGAT/AAT	GGTACACTTCCCATCA GCAA	CTTTAGCCTTCATCGCCAG	60.0	468	INTERGENIC	--	--	--
Ca6_P3_37986173	Ca6	37986173	TAAAAGAAGTACAAAAAGAAGT/TAAAA GAAGT	TTCTATTGCTCACCCCTTG	GA AAAACAAGACCCGCGATA	60.1	475	DRR	Ca_19551	--	--
Ca6_P3_38205786	Ca6	38205786	GAA/GA	TTGCAATCTCATCAACTCGG	GTA AAATGAAGCGCTTTCGC	59.8	824	INTERGENIC	--	--	--
Ca6_P3_38228228	Ca6	38228228	ATTTATTTTATTT/ATTTATTT	ACAAACAAGTTGAGCACCC	TTGGAAAAGCCCACTACAC	60.0	682	INTERGENIC	--	--	--
Ca6_P3_38257858	Ca6	38257858	A/AG	CTTCGAGTCCAACCTTGGTG	CCAGCATCTGCTACTGTCCA	60.7	706	INTERGENIC	--	--	--
Ca6_P3_38259089	Ca6	38259089	TC/T	TCCTAGAACATGCATCACGC	TACCCTTTGCTAGCCCCCTT	59.8	541	INTERGENIC	--	--	--
Ca6_P3_38317090	Ca6	38317090	ACC/ACCAAAATGCC	CAATCACAACCTTTGCCCTT	GTGGGAAGTCGCCATTAGATA	60.0	531	INTERGENIC	--	--	--
Ca6_P3_38570002	Ca6	38570002	ATTTGATTTTGATT/ATTTGATTTGAT TTTGATT	TCAGTCCGATAGTGGC AACA	TCCGAACAAGATTTTC TTTTGA	60.3	824	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
Ca6_P3_38695029	Ca6	38695029	ATTTTTT/ATTTTTTT	CCATTACAACCCGAAA GTCC	TCCTAGAACATGCATC ACGC	59.3	103	INTERGENIC	--	--	--
Ca6_P3_38703536	Ca6	38703536	CATCTTATCTTATCTTATCTTATCT/CAT CTTATCTTATCTTATCTTATCTTATCT	CGTGACTCGGAAAATT GTGA	GTCGGCCACTTTGTTT TGTT	59.7	649	INTERGENIC	--	--	--
Ca6_P3_38717646	Ca6	38717646	GAA/GAAA	GGATGCTCAAGACACG TGAA	GGCTAAACCAATCGAT TCCA	59.8	226	INTERGENIC	--	--	--
Ca6_P3_38737253	Ca6	38737253	AAGA/AAGAGAGA	CGCTCCAAGAGTCAAT GTCA	TTTCACTCCTCGTGA GCTT	60.0	350	INTERGENIC	--	--	--
Ca6_P3_38746593	Ca6	38746593	GTGTTGTTGTTGTTG/GTGTGTTGTT G	GTGGTGCTTATGGTGG CTTT	TCATAGCTCTCTCCAC CGCT	60.0	557	INTERGENIC	--	--	--
Ca6_P3_39145289	Ca6	39145289	CAAAAAAAAAAAAA/CAAAAAAAAAAA AAAAA	AGTGTTCATCAGGAC AACG	CCGCATAAGATGAGTT AGGGTT	59.8	385	DRR	Ca_15910	T	--
Ca6_P3_39182715	Ca6	39182715	GAAAAAAAA/GAAAAAAAAA	TGGACGAAGTCAATGG TCAA	TCAATGGAATTTTCGA GTCAA	60.1	843	DRR	Ca_15911	P	ERF
Ca6_P3_3920180	Ca6	3920180	GTTGGAAATCTTTT/GTTGGAAATCTTT TGGAAATCTTTT	TGGCATCCAACAATTGT CAT	TTGTGCAACCAATCAC TTGAA	59.8	899	DRR	Ca_05908	R	--
Ca6_P3_39585216	Ca6	39585216	CA/C	TCCATCTCCATCAACC ATT	TCGACTTGTAATCGC TTTG	60.1	777	INTERGENIC	--	--	--
Ca6_P3_39717059	Ca6	39717059	ATT/ATTGTTGTTGTTGTTGTT	ATGTAGGGGGTGAGAT GTGC	GCCGAGGCCATAATCA ATAA	59.8	915	DRR	Ca_15925	--	MYB_related

[illegible]

[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 (°C)	Expected 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_P3_41574883	Ca6	41574883	ATTTTTTTTT/ATTTTTTTTTT	TAAAGGCATTGACGGC TCTT	GCATGCCAAAAAGAAT TGGT	59.8	646	INTERGENIC	--	--	--
Ca6_P3_41628240	Ca6	41628240	T/TTATTA	CTCTCTCATGTGTGTG CTCCA	CAAAATCTCCCTTTGC ATGA	60.0	858	INTERGENIC	--	--	--
Ca6_P3_41654561	Ca6	41654561	GAAAAAAAAA/GAAAAAAAAA	CCTTTTGTGAAAGAGG CAGC	CACGGGGAAAGTTGT TTGT	60.0	623	INTERGENIC	--	--	--
Ca6_P3_41659483	Ca6	41659483	CAAAA/CAAAA	CCATCAGAACTGGGA TGGT	TGGCCCTTCATTTTCA ATC	59.8	495	INTERGENIC	--	--	--
Ca6_P3_41669872	Ca6	41669872	ATT/ATTT	TGTAGAATCCACCAATG TCCA	ACCAATCATGTTTCGT GGAA	58.8	651	INTERGENIC	--	--	--
Ca6_P3_417004	Ca6	417004	TACACACACACACA/TACACACACA CACACACA	CATTATTATTGGTCGCC GGT	CGCTTGTGATGGAGTT CAAA	59.7	326	INTERGENIC	--	--	--
Ca6_P3_41875891	Ca6	41875891	ATTTTT/ATTTTT	GGATCTATGATTTCCCT CTTGC	AGTCCCATGTAATTG TCACG	59.1	568	INTERGENIC	--	--	--
Ca6_P3_41957220	Ca6	41957220	CTATATATATAT/CTATATATAT	TCCCCAACTTTGAATT TGC	TGCTTCAGTCAATGGG ACAG	59.9	877	DRR	Ca_21949	O	--
Ca6_P3_42073012	Ca6	42073012	TTTATTATTATTATTATTATTATTAT TATTATTATTACTATTATTATTAT/T TTATTATTATTATTATTATTATTATT ATTATTATTATTACTATTATTATTAT	TCAAATTGTGCTGCTC GTTT	CATAGGCAACAAGGG GAAA	60.0	878	INTERGENIC	--	--	--
Ca6_P3_42229485	Ca6	42229485	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	TGTCGCTTCCTAAGTTG GCT	AATTGCGGCAGAGAA GATA	60.0	263	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
Ca6_P3_42360168	Ca6	42360168	T/TCCAAAA	AGAACAGAGGGAACGC AGAA	CAGCGCTTATTTGGGA AAAG	60.0	625	INTERGENIC	--	--	--
Ca6_P3_42360857	Ca6	42360857	CTTAATT/CTT	CAGCGCTTTTCCCAAT AAG	TACGCATCATGGGATT CAAA	59.8	601	INTERGENIC	--	--	--
Ca6_P3_42391110	Ca6	42391110	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA/GT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTA	TGAGGAGCAATGATTG TCAAA	TTCTTTTCTCTCCCA AACC	59.3	849	INTERGENIC	--	--	--
Ca6_P3_42418850	Ca6	42418850	ATATTATTATTATTATTATT/ATATTATT ATTATTATT	CCGACGTCTCTCATTCT CAA	AACGACAACCTTCAAC CCATTT	59.0	686	INTERGENIC	--	--	--
Ca6_P3_4241955	Ca6	4241955	ATT/AT	CAATGTCGAGATGCAA CACC	TGTTTCGACGACCTTG AATG	60.1	739	INTERGENIC	--	--	--
Ca6_P3_42464969	Ca6	42464969	AA/AGA	GGTGAGTTTTCCACAA GCGT	GCTTCAATGAAATTTG GCGT	60.2	982	INTERGENIC	--	--	--
Ca6_P3_42465017	Ca6	42465017	TA/TACAA	CTTCGTGGTATGCTTG ACCC	GCTTCAATGAAATTTG GCGT	60.5	581	INTERGENIC	--	--	--
Ca6_P3_42467087	Ca6	42467087	TTATATATATATAT/TTATATATATATAT AT	TCAAACCTGATTTGGG GGTA	TCGACACTCATTGGTC CTCA	60.2	771	INTERGENIC	--	--	--
Ca6_P3_42532875	Ca6	42532875	GT/GTCT	ATTTGAGGCTCGTGGT CTTG	CATCATCTACCCCCAC CATC	60.3	373	INTERGENIC	--	--	--
Ca6_P3_42608452	Ca6	42608452	TCC/TC	ATACGCAGAGAGCTTG GCAT	TGGGAACGTGTATTG ACAA	60.0	301	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
Ca6_P3_4290626	Ca6	4290626	ACATCATCATCATCAT/ACATCATCATC ATCATCAT	CATTCCAGACATTGAC GGTG	ACCTGGAAACATTTTG CTCG	60.0	684	CDS (large-effect mutations)	Ca_05873	--	C2H2
Ca6_P3_42907384	Ca6	42907384	T/TGAGGGA	ACTGGCTGACCACTCT CGTT	CAGCGCTTATTTGGGA AAAA	59.9	840	INTERGENIC	--	--	--
Ca6_P3_43042789	Ca6	43042789	AA/AAGA	TGCAACAATGCTGCC TAAA	TAGCTGTTGCGACCAA ATCA	60.4	655	INTERGENIC	--	--	--
Ca6_P3_43043105	Ca6	43043105	CA/C	TGATTTGGTCGCAACA GCTA	AAAAATTGTGCCAAAG TTATGTGA	60.4	556	INTERGENIC	--	--	--
Ca6_P3_43138332	Ca6	43138332	GAAAA/GAAA	GTTCCCTTTGGAATGCT TGA	TCTTTGGGCCAGTGAA AATC	60.1	741	INTERGENIC	--	--	--
Ca6_P3_43144384	Ca6	43144384	TTTCTTCTTCTTCTTCTTCTTCT/TT TCTTCTTCTTCTTCTTCTTCTTCTT CT	TCATGTGGACTAAATG GGCA	ACAGCTCAAGCGAAAC CCTA	59.9	399	INTERGENIC	--	--	--
Ca6_P3_43144709	Ca6	43144709	TTTATTATTATTATTATTATTATTAT TATTATTATTATAATTATAATTATTATTA TTATTATTATTATTATTATTATTATT ATT/TTTATTATTATTATTATTATTATT TATTATTATTATTATTATAATTATAATTA TATTATTATTATTATTATTATTATT	TAGGGTTTCGCTTGAG CTGT	TCCGGATCCTTCAGAT TCAC	60.0	656	INTERGENIC	--	--	--
Ca6_P3_43757197	Ca6	43757197	CTTTTTTTTT/CTTTTTTTTTTTTT	GGGACCAAAACATGGT GAAG	TTTCCCGACTTGGTCC TTTA	60.2	654	INTERGENIC	--	--	--
Ca6_P3_43845920	Ca6	43845920	T/TC	ACCCAACAAAAGCAAA ACG	TTGGTCAAAATGGAAT GGTT	60.0	305	INTERGENIC	--	--	--
Ca6_P3_43909185	Ca6	43909185	TTGAAG/TTGAAGCAAGTACAACTCAT GAAG	TGATTGGGTTTGGGT CATT	ACATAGATGCCGCCTT CATT	60.0	445	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 (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
Ca6_P3_43909507	Ca6	43909507	CTTTTTTTTT/CTTTTT	GAAGGCGGCATCTATG TGTT	GGCTTTTGAATCACCG AAAA	60.1	447	INTERGENIC	--	--	--
Ca6_P3_44072205	Ca6	44072205	TTATATATATATATATATATATATAT/TTATATATATATATATATATATATAT	GACATTTGGAAGTTGAA TTTCCT	TTTGAATTGCGACTT CCTT	58.7	363	INTERGENIC	--	--	--
Ca6_P3_44104056	Ca6	44104056	CTGT/CT	AATGCCACCCATAATT TCA	CTGGGCAAGGGATCTG AATA	60.0	692	DRR	Ca_24230	--	Trihelix
Ca6_P3_4413696	Ca6	4413696	TAAA/TAA	TCACTCTCTTCCCAATC GCT	CATTCTTGCCTTGTTG CAGA	60.0	571	INTERGENIC	--	--	--
Ca6_P3_44251485	Ca6	44251485	AA/AATAATA	TGTTTTCTCGTGACAGT GGC	TTCTTTTCGGTGGCCA AATA	59.9	845	INTERGENIC	--	--	--
Ca6_P3_44263063	Ca6	44263063	TTATATATATATATATATATATATAT/TTATATATATATATATATATATATAT	CCCTTCTCCACCATCA CTA	TTTAAAATTCGGCCGT GAAG	59.9	643	INTERGENIC	--	--	--
Ca6_P3_44266489	Ca6	44266489	AATATATATATATATATATATATATAT/AAATATATATATATATATATATATA	CCGCATTATAATTCCGC TGT	GTGCCGAGAAAATGTG GATT	60.0	819	INTERGENIC	--	--	--
Ca6_P3_44301191	Ca6	44301191	CTTTTT/CTTTTTT	TGCACATTTTACAGCGC TTC	TGAAATTATGGGTGGG CATT	60.0	254	INTERGENIC	--	--	--
Ca6_P3_4432554	Ca6	4432554	ATTTTTTTTT/ATTTTTTTTT	TTTCCTTTGCCAGAGA GACG	AAGTGTCTTTGGGGAC GTTG	60.5	424	INTERGENIC	--	--	--
Ca6_P3_44678754	Ca6	44678754	GTTTTTTTTTT/GTTTTTTTTT	GCTATGGCCATTGAT AGGA	ATTTGCGTCGTTATGT GCAA	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 (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
Ca6_P3_44700288	Ca6	44700288	AA/AAAGGACA	GAGATTTAGAACCATCA AATTGTCA	ATCGAACCCAATCAGC AAAC	58.6	785	INTERGENIC	--	--	--
Ca6_P3_4488440	Ca6	4488440	GTTTTTTTT/GTTTTTTT	CCTATGGGTTGGGAGG GTAT	CAGTCTAGCAGGGTCA AGCC	59.9	571	DRR	Ca_05853	YU	--
Ca6_P3_44918810	Ca6	44918810	TTAATAATAATAAAT/TTAATAATAAT AATAATAAT	GAAATAAGTTTTTCAGC CTGCAT	TTTGCTTTCTTTTGGC ACA	59.7	432	INTERGENIC	--	--	--
Ca6_P3_4498664	Ca6	4498664	TAAAA/TAA	TCAGCCACATTGTTTCA AGC	AATAGTGTACGCGGGT AGTTTT	59.8	373	DRR	Ca_05852	--	BES1
Ca6_P3_45018304	Ca6	45018304	CA/CATCGTCAGA	TCAAGACGGGAATTGG AAAG	TTGCAAAAGGATGTATT GGCA	60.0	433	INTERGENIC	--	--	--
Ca6_P3_45282323	Ca6	45282323	TCCTTTTAGAAAGTAC/TC	TGTTGGAGAGGCTCTG CTTT	CGTTTTTCTGCACTCT GCAA	60.1	214	INTERGENIC	--	--	--
Ca6_P3_45290500	Ca6	45290500	AT/A	GGCACGCTATGGAAAG AGTC	TGAAATTCCATAGGAA GCGG	59.8	589	INTERGENIC	--	--	--
Ca6_P3_45329060	Ca6	45329060	T/TTTAAAA	TTTTTGCTATTTTATTCT CGTGG	TCGATTATGCGTAGGG AAGG	57.6	762	INTERGENIC	--	--	--
Ca6_P3_45329313	Ca6	45329313	TTCT/TT	GGGAGATACGTAGGAG CACG	TCGATTATGCGTAGGG AAGG	59.7	242	INTERGENIC	--	--	--
Ca6_P3_45336183	Ca6	45336183	TTTATTATTATTATTATTATTATTAT TA/TTTATTATTATTATTATTATTATT ATTATTA	TTGCCACAAACAGAAC GTGT	CCAAAAACACCAACTG GCTT	60.2	688	INTRON	Ca_13834	T	--

[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 (°C)	Expected 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_P3_46133711	Ca6	46133711	CATATATATATATATATATAT/CATATAT ATATATATATAT	GATTGGAACTTTGGCTT GGA	GTGACCATAATATTG CCCCCT	60.1	801	DRR	Ca_13879	--	MYB_related
Ca6_P3_46134674	Ca6	46134674	TAAAAAAAAA/TAAAAAAAAA	CCTGAAATTCCTAACGC CAA	GCAGCGAAAAATCACC AAGT	60.1	446	DRR	Ca_13879	--	MYB_related
Ca6_P3_46311376	Ca6	46311376	T/TCGCGTGCC	TTTGCTGAGTTCCTGG CTTT	GGAGGGTTTTGGTTG GAAT	60.0	452	INTERGENIC	--	--	--
Ca6_P3_46346627	Ca6	46346627	TATA/TATAAATA	TAACCCAAAAATCCCAA CCA	ACTTGGGAACCCGAAG AAGT	60.0	466	INTERGENIC	--	--	--
Ca6_P3_4635371	Ca6	4635371	G/GAGAAAAATTCGGT	CCAAAGCCAACGGCTA TAAT	ATGAATTGAGGGGTA AGGG	59.1	302	INTERGENIC	--	--	--
Ca6_P3_46399842	Ca6	46399842	T/TCA	TAACCTTGCATGGGGA AAAG	TTCATGGTGTTTTCTTG GCA	59.9	619	INTERGENIC	--	--	--
Ca6_P3_4649762	Ca6	4649762	AATAAGT/AATAAGTATAAGT	GGTCGAACCACTTGAG GTGT	AATCCACTCCCACTCC ACTG	60.0	389	INTERGENIC	--	--	--
Ca6_P3_46525125	Ca6	46525125	G/GGT	TCTTGCAATTCCTGTA ATC	GGCTGAATTGCTCAAA CCAT	60.0	395	INTERGENIC	--	--	--
Ca6_P3_46703881	Ca6	46703881	AT/A	AATCACGTTGGGACAA AAGC	AAAGACGAGAATTGCA TCTCTAAA	60.0	479	INTERGENIC	--	--	--
Ca6_P3_46772986	Ca6	46772986	A/ATT	GATTATTCTGCCTCCC GTCA	AAACGCAATCCTTGAG TTCG	60.0	633	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 (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
Ca6_P3_46779497	Ca6	46779497	ATTTTT/ATTTTTTTT	AATTTTCTCGAGAGCG GACA	TATAGGTGGAGAGGGA AGCG	60.0	190	DRR	Ca_17736	Q	B3
Ca6_P3_46789811	Ca6	46789811	ATTTT/ATTT	TTTGCATTTGAAGGTGT GGA	TCGTGTCCTAAACTC AAGGAA	60.1	890	INTERGENIC	--	--	--
Ca6_P3_46869916	Ca6	46869916	CGAAGAAGAAGAAGAAGAAGAAG AAGAAGAAGAA/CGAAGAAGAAGAAGA AGAAGAAGAAGAAGAAGAAGAA	CGCATGATTGAAGGGA AAAT	AGAAAGGCTCAAACGA CCAA	59.9	398	INTERGENIC	--	--	--
Ca6_P3_4694284	Ca6	4694284	ATCTTCTT/ATCTT	CTCACGAGCAACATCC TTCA	GTGCCCCAATTGACAC TTCT	60.0	513	INTERGENIC	--	--	--
Ca6_P3_4699561	Ca6	4699561	C/CAT	TTCTCTTCAAAGCGTGA GCA	TTCTTGTCCCATCTC CATC	59.9	304	INTERGENIC	--	--	--
Ca6_P3_4699610	Ca6	4699610	CG/CGG	TTCTCTTCAAAGCGTGA GCA	TTCTTGTCCCATCTC CATC	59.9	304	INTERGENIC	--	--	--
Ca6_P3_47001052	Ca6	47001052	A/AG	GAAGCGGTACTTCCCA TTGA	GGTTACAATGTGGGGA CGAG	60.1	417	INTERGENIC	--	--	--
Ca6_P3_47002003	Ca6	47002003	TCCACCCAC/TCCAC	CCAATCCGAAGACGAT CATT	CGGATTAATTACCGAT GCGT	59.9	147	INTERGENIC	--	--	--
Ca6_P3_47011341	Ca6	47011341	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	GAAGAGTTGTGTTCCG ATGC	ATGCCATGCTCTCCTT TCAG	58.3	593	INTERGENIC	--	--	--
Ca6_P3_4712479	Ca6	4712479	AATATATATATATATATATATATA/ AATATATATATATATATATATA	TTATTTTGAATGCGA CCA	TGAGGCACTCAATAGC AAAA	59.0	460	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 (°C)	Expected 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_P3_48160520	Ca6	48160520	GTATATATATATATATATATATAT/GT ATATATATATATATATATATAT	TTTTTGGTTGGAGGTG AAGG	GGCTAGGTCGTTCACTC AGGA	59.9	769	INTERGENIC	--	--	--
Ca6_P3_48189409	Ca6	48189409	ATTTT/ATTTT	GTCAACGACTTGGTGG GACT	TTTTTCCCATCATCCA CAT	60.0	584	INTERGENIC	--	--	--
Ca6_P3_48189626	Ca6	48189626	TGGGG/TGG	TTGCTTTGGTTTGATGT GGA	AACGCCCGAATTTT AATC	60.1	448	INTERGENIC	--	--	--
Ca6_P3_4823442	Ca6	4823442	AATATATATATATATATATATAT/A ATATATATATATATATATATAT	CATCTTGCAAAACAAAC AAATG	CGGTGTTTCATCCACAA CAAA	58.3	854	INTERGENIC	--	--	--
Ca6_P3_48247002	Ca6	48247002	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TCATTATTATTAT/TTTATTATTATTAT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATCATTATTATTA	GAATTTAGGGCAATGG CTCA	TTTTTGGCACCAGTAG GAGG	60.0	632	INTRON	Ca_24603	A	HD-ZIP
Ca6_P3_48256838	Ca6	48256838	AAT/AATAT	TTGGCCAACGTTAGTTA GGG	TCTATTCCGTTGCCGA GTTC	60.0	336	INTERGENIC	--	--	--
Ca6_P3_48260819	Ca6	48260819	GAAAATTAATAAAATA/GAAAATTAATA AAATAAAATTAATAAAATA	GTGGATGGTGGGGAAT AGTG	CTGAGGTCCCAAGCTA CGTC	60.1	504	INTERGENIC	--	--	--
Ca6_P3_48271494	Ca6	48271494	TATTATTATTATC/TATTATTATTATTAT CATTATTATTATC	TGACTAATTGGTCGCC CTTC	GGATCGGATCATGTGA AGAA	60.1	685	INTERGENIC	--	--	--
Ca6_P3_48279188	Ca6	48279188	T/TA	TCAAGAACGTTTCGAC CACA	GCAACTCGCGGGTTAG TATC	60.3	562	INTERGENIC	--	--	--
Ca6_P3_48279466	Ca6	48279466	G/GA	AACCAGATACTAACCC GCGA	TCTGGAAGTTTCTTGA CCGTG	59.6	620	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
Ca6_P3_48279626	Ca6	48279626	ATTTTTTT/ATTTTTT	AACCAGATACTAACCC GCGA	TCTGGAAGTTTCTTGA CCGTG	59.6	620	INTERGENIC	--	--	--
Ca6_P3_48280097	Ca6	48280097	GAAAAAAA/GAAAAAAA	GACACGGTCAAGAAAC TTCCA	TGCGTTGACTCTTCAA TACACA	60.1	376	INTERGENIC	--	--	--
Ca6_P3_48280225	Ca6	48280225	GTAT/GT	GACACGGTCAAGAAAC TTCCA	TGTGGCATTCCAAA TTTAT	60.1	601	INTERGENIC	--	--	--
Ca6_P3_48280286	Ca6	48280286	ATTTTTTTTTTTTT/ATTTTTTTTTTT	GACACGGTCAAGAAAC TTCCA	TGTGGCATTCCAAA TTTAT	60.1	601	INTERGENIC	--	--	--
Ca6_P3_48280545	Ca6	48280545	ATT/ATTT	TGTGTATTGAAGAGTCA ACGCAT	AAAAGTTGTGCCAAG TTATGTGA	59.7	732	INTERGENIC	--	--	--
Ca6_P3_48280766	Ca6	48280766	TCTA/TCTAAACTA	TGTATTGATGAGTCGT GAATGAT	GGAGACGTAAAGTCC CACA	58.5	902	INTERGENIC	--	--	--
Ca6_P3_48281570	Ca6	48281570	TA/TAATTAA	TAGGGCAATTGTGCAC ATGA	CTCCAGGTAAAGTTG TGGT	61.1	335	INTERGENIC	--	--	--
Ca6_P3_48385345	Ca6	48385345	G/GA	GGCTTTTGAATGGTT GTTT	TGCACTCACTCGCCAT TTAC	60.0	586	INTERGENIC	--	--	--
Ca6_P3_48788599	Ca6	48788599	CATATAT/CATATATATAT	TACAATTGATTGGCG GATA	ATTGTGGTGGAGTTG TGGT	59.9	738	INTERGENIC	--	--	--
Ca6_P3_48791033	Ca6	48791033	GATTAACATTAAACAATTAACTATTAAC /GATTAACATTAACTATTAACAATTAA CTATTAAC	TTGTTCTCCCCAGTTT TGG	CTTTTGGCCCTCACAA ATTG	59.9	863	DRR	Ca_20702	--	--

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
Ca6_P3_48792073	Ca6	48792073	TAAATTACAAATTACAAAT/TAAATTACA AAT	TTTGCAGCCACAAAAG ACTG	GAAGCTGCTTCCAG CAAC	60.0	906	DRR	Ca_20702	--	--
Ca6_P3_48905266	Ca6	48905266	CTAAATAAATAAATAAATAA/CTAAATAA ATAAATAAATAAATAAATAA	CACGGTCCCTAGAGCC AATA	ATCGACTCCCGAACTC AAAA	60.1	666	INTERGENIC	--	--	--
Ca6_P3_48905387	Ca6	48905387	GAAAAA/GAAAAAAA	CACGGTCCCTAGAGCC AATA	ATCGACTCCCGAACTC AAAA	60.1	666	INTERGENIC	--	--	--
Ca6_P3_48905781	Ca6	48905781	ATTTT/ATTTT	TCGATTATGCGTAGGG AAGG	TTCTTGTCAAGCACAT AAATAAAAA	60.1	225	INTERGENIC	--	--	--
Ca6_P3_48925	Ca6	48925	ATTCTTCTTCTTCTTCTTCTTCTT/A TTCTTCTTCTTCTTCTTCTTCTTCT T	ATGTGTTTTCGTTCTTC GGG	TCCATTGGGTTTATTGT GGCT	60.0	485	DRR	Ca_26378	--	--
Ca6_P3_48986240	Ca6	48986240	CACAATACAA/CACAATACAATACAA	CTTGATCCGGTTCTCA CGTT	CCTTTGGTTATACGGG CTCA	60.1	674	INTERGENIC	--	--	--
Ca6_P3_49125859	Ca6	49125859	CTTTTTTTTT/CTTTTTTTTT	TTTTGAAACCAAACAT AGCTCAA	AACCACTTTGCCAGTC AACC	60.0	759	INTERGENIC	--	--	--
Ca6_P3_49183151	Ca6	49183151	TTTAAATATTATTAATATTATTAATAA /TTTAAATATTATTAATAA	TGTTGTTGTTGATGTTG TTGGA	GGGGTAGACACATGGT AAGAGG	59.9	751	INTERGENIC	--	--	--
Ca6_P3_49218883	Ca6	49218883	TAAAAA/TAAAAAAA	CCCCTTCATAGCTTCC AGA	GTGCTTGCTTTTACTT CGCC	60.0	446	INTERGENIC	--	--	--
Ca6_P3_49222205	Ca6	49222205	T/TG	CCTGCGGAATTCCTAA TGA	AGGTAACACGGCAGGT AACG	60.0	197	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PilI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_49223631	Ca6	49223631	TTATATATATATATATATATATATATA TA/TTATATATATATATATATATATAT ATATATA	TGAATTGAAITTTGAA ACGACA	TACGGGACCAAGGAA TCAA	59.5	419	DRR	Ca_20725	--	--
Ca6_P3_49357563	Ca6	49357563	AATATATATATATATATATATATATAT ATATATATAT/AATATATATATATATATA TATATATATATATATAT	TTTTAGCGAAACTCGCC ACT	ATGATTCACGGCCTTA AACG	60.0	233	INTERGENIC	--	--	--
Ca6_P3_49497708	Ca6	49497708	ATATTATTATTATTATTATTATTA/ATAT TATTATTATTATTATTA	GTGCGATCAGTTGAAG GTCA	TTTTCCAATCACACGAA TCAA	59.8	525	INTERGENIC	--	--	--
Ca6_P3_49611302	Ca6	49611302	AAG/AAGCTAG	CATTGAAGGCCAACCAA TG TG	CTGTAGGCCACACAAA ATGC	60.0	951	INTERGENIC	--	--	--
Ca6_P3_4964508	Ca6	4964508	TAAAAAAAAAAAAA	GACAGAAGCGACATGG TTGA	AGTTGCTTAGTTGGCA ACCC	59.8	767	INTERGENIC	--	--	--
Ca6_P3_49733827	Ca6	49733827	TCC/TC	TTGCAATCTCATCAACT CGG	GTAAATGAAGCGCTT TC GC	59.8	810	INTERGENIC	--	--	--
Ca6_P3_49738545	Ca6	49738545	AATATATATATATATAT/AATATATATAT ATAT	ATCCTAAGCCCAGTCC ACTT	GAGTTGCAAAAGCGAT TTCC	59.9	326	INTERGENIC	--	--	--
Ca6_P3_49749941	Ca6	49749941	TATAATAATAATAATAATAATAAAAA ATAATAATAATAATAATAATAATAA/ TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAA	GACGCACGGGTTACAC ACTA	ATGTGGATGGTGCA GT ACGA	59.6	299	INTERGENIC	--	--	--
Ca6_P3_49861454	Ca6	49861454	AGTGTGTGTGTGT/AGTGTGTGTGT	ACC TTGCATTTTCTCCC CTT	CTTGCCAAGTTGCCAT TTTT	59.9	656	INTERGENIC	--	--	--
Ca6_P3_49868787	Ca6	49868787	AATATATATATATATATATATATATATA ATA/AATATATATATATATATATATAT ATATA	TGGGTATAGGGATCCT CACTG	CCATCCATTGGTAATTT GGTG	58.9	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 (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
Ca6_P3_49901408	Ca6	49901408	TAAAAAA/TAAAAA	TGTGGTTGTGGCATAG GAGA	TGAGATGTGACTTTGC ACGA	60.1	972	INTERGENIC	--	--	--
Ca6_P3_50016281	Ca6	50016281	TA/TAA	GTTGAAGGGCCACAAG TGAT	AAGTTATGGTGGCTG CAAA	60.0	435	INTERGENIC	--	--	--
Ca6_P3_50049167	Ca6	50049167	AAG/A	TCACCCAATCGGGTT AGTC	AGCAAATTCAGCTCT CTCCA	60.0	333	INTERGENIC	--	--	--
Ca6_P3_50254785	Ca6	50254785	GATATATATATATATATAT/GATTGAT ATATATATATATATATATAT	ACGGCAATCTCAACAC ATGA	TTGATCGTGCAAAATT CCAA	60.1	642	DRR	Ca_13474	O	FAR1
Ca6_P3_5031791	Ca6	5031791	ATTTTTTT/ATTTTTT	TGATGTCGCATGGGTA TTGT	AAAAAGTTGAGCCCA AAGG	59.8	459	INTERGENIC	--	--	--
Ca6_P3_50516806	Ca6	50516806	AATATATATATATATATATATATATAT ATATATATATATATATATAT/AAATATA TATATATATATATATATATATATATAT ATATATATATATATATATATAT	CTGCCAGTGACTCTCC ATCA	TCACTTTGTGGATGC TGAA	60.0	536	INTERGENIC	--	--	--
Ca6_P3_50517117	Ca6	50517117	A/AAAAGTGTTT	CTGCCAGTGACTCTCC ATCA	TCACTTTGTGGATGC TGAA	60.0	536	INTERGENIC	--	--	--
Ca6_P3_50669135	Ca6	50669135	TAAAA/TA	CATGAAAATTGCACAAG ACAAA	TCCCAAATTTATTTTA ATGTCCC	58.7	162	INTERGENIC	--	--	--
Ca6_P3_50799518	Ca6	50799518	CAAAAAAAAA/CAAAAAAAAAA	TTGCAGGGACAATTGT TTGA	TCCGATGCCACAACAA CTTA	60.1	314	INTERGENIC	--	--	--
Ca6_P3_50818138	Ca6	50818138	AAAAATTTTATA/AA	CACATACTTCACATTT GCATTGA	TGTAAACCCCTTACCG TGTGTC	59.9	682	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
Ca6_P3_50898755	Ca6	50898755	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATT/GTTATTATT ATTATTATTATTATTATTATTATTAT TATTATT	GGAACGCGTAACCATG TTCT	ACTCCCCCTAGGTGTT GCTT	60.0	617	INTERGENIC	--	--	--
Ca6_P3_51094981	Ca6	51094981	ATTTT/ATTTTCTTTT	TCACTTGCCGGAATAAA GAAA	GAAATCTTGCATGGCA GACA	59.7	734	INTERGENIC	--	--	--
Ca6_P3_51131297	Ca6	51131297	TA/T	AATCATCCAATTAGGCA GCG	AGCTGGTCTCTCTGTG CCAT	60.1	949	INTERGENIC	--	--	--
Ca6_P3_51176638	Ca6	51176638	TTTATTATTATTATTATTATTATTAT TATTATTA/TTTATTATTATTATTATTAT ATTATTATTATTA	AATGGAAGACGTCGGT TTTG	AGGGAGAGGCAAGTAA AGCC	60.0	496	INTERGENIC	--	--	--
Ca6_P3_51185360	Ca6	51185360	ACC/AC	CACTCCATGGCTTCTG ATGA	AACACCGGACATGACA CTGA	59.8	439	INTRON	Ca_19181	--	--
Ca6_P3_51244062	Ca6	51244062	CGAAAGTTTGAAAGTTT/CGAAAGTTT	GCACCCCTCATTTTTA CCT	TCGAGCATCAAACCAT TTCA	60.2	364	DRR	Ca_19177	--	--
Ca6_P3_51291605	Ca6	51291605	AATATATATATATATATATATATAT ATATATATATATATATA/AATATATATAT ATATATATATATATATATATATATATA TATATATATATA	TCGATGATCCAACAATT CCA	GTTTGGGTCAATGGAA AGCA	59.9	690	INTERGENIC	--	--	--
Ca6_P3_51398741	Ca6	51398741	GATATATATATATATATATATATAT/G ATATATATATATATATATATATATAT	AAAGAGTGGGGTTGGA GTCA	ACGGAAACAACGACG ATCT	59.5	230	INTERGENIC	--	--	--
Ca6_P3_51483268	Ca6	51483268	TTTATTATTATTATTATTATTATTAT TATTATCATCATTATTATTATTAAAC ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA T/TTTATTATTATTATTATTATTATTA TTATTATTATCATCATTATTATTATTAT	CTGGACGATTTTGGA GTGT	TGCATAATCATTGCCC TCAA	60.0	758	INTERGENIC	--	--	--
Ca6_P3_51514779	Ca6	51514779	CTATATATATATATATATATATAT/CT ATATATATATATATATAT	TTGTTTGGGTATGCTG CAA	TTGAAAATGGTGGGG ATT	60.1	608	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 (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
Ca6_P3_51672786	Ca6	51672786	AATAGGTATA/AATAGGTATAGGTATA	GGTCAAACTGGGTGG AAGA	CCCTCTGCAATGTCGG TAAT	59.9	542	INTERGENIC	--	--	--
Ca6_P3_51703884	Ca6	51703884	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGCT CGG	60.0	475	INTERGENIC	--	--	--
Ca6_P3_51763905	Ca6	51763905	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/AAATAATA ATAATAATAATAATAATAATAATAA TAATAATAA	GAAAAAGCGCTGTAA TGCC	TCCCCCTTTGTCTTCT GTG	59.9	646	INTERGENIC	--	--	--
Ca6_P3_51785881	Ca6	51785881	GTTTTTTTTT/GTTTTTTTTT	AACATTGTTGCGGCCT AAAA	CAGAAGATCACTCGTG CCAA	60.5	382	INTERGENIC	--	--	--
Ca6_P3_5187973	Ca6	5187973	CATATAT/CATAT	AAGCGTGGTCTGAAT AGAAA	TTGTACAGGACCCCT TCCA	59.9	155	INTERGENIC	--	--	--
Ca6_P3_51899244	Ca6	51899244	AATATATATATATATATATATAT/AAT ATATATATATATATATATATATAT	TGACGCGAGAGACATT TGAC	TTCAAGTTTGGCAGAA ACCC	60.0	363	INTERGENIC	--	--	--
Ca6_P3_51959426	Ca6	51959426	CAA/CAAAA	TAATGGTTTTACGCCA ACA	ACCGAAACGCATGTT AAAG	60.0	586	INTERGENIC	--	--	--
Ca6_P3_51967957	Ca6	51967957	AATATATATATATATATATAT/AATAT ATATATATATATATATATAT	CCAAGTTGGGTTCTGA AGTA	TAAGAATCCCCACCA GACG	60.0	719	INTERGENIC	--	--	--
Ca6_P3_5202330	Ca6	5202330	TTG/TTGGTG	TTCCCTGCCAGAAGTT GTTT	GTTGCACGCTGAAAGA TTGA	59.7	686	DRR	Ca_05776	J	MYB
Ca6_P3_52074906	Ca6	52074906	TTTATTAAGCGATTATTATTCAGCGAT TTATTATTA/TTATTTCAGCGATTATTAT TTA	TCCTGAAGATGAGATG CGTG	GGCTATCGCTTATGCA GGAC	59.9	797	DRR	Ca_17514	--	SAP

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
Ca6_P3_52075058	Ca6	52075058	GTTATTATTATT/GTTATTATTATTATT	GCGTGTCTTATTGGAG AGAGC	GGCTATCGCTTATGCA GGAC	59.1	782	DRR	Ca_17514	--	SAP
Ca6_P3_52089565	Ca6	52089565	ATATTTTTCT/ATATTTTTCTTATTATT TTCT	CCGGCACGACAATACC TTAT	AGCGCATCTTTTCATC CAAC	59.8	568	DRR	Ca_17516	A	--
Ca6_P3_52407594	Ca6	52407594	GAAAAAA/GAAAAAA	GAACAAATTTCCAGG CAGA	GAATCGCGAAATGCTA TGGT	60.1	303	INTERGENIC	--	--	--
Ca6_P3_52418069	Ca6	52418069	ACTCTCTCTCTCTCTCT/ACTCTCTC TCTCTCTCTCTCT	GCGACTCCGCAATCAT ATT	ATTGCTGGAAAGGAC CTGA	60.1	383	INTERGENIC	--	--	--
Ca6_P3_52435335	Ca6	52435335	TTATATATATATATATATATATATATA TATATATATATA/TTATATATATATATAT ATATATATATATATATATA	GCAAAATCAAAATTTGGG CAT	GCTCCCACTTCCTTT CCTC	59.8	819	INTERGENIC	--	--	--
Ca6_P3_52529525	Ca6	52529525	TAAAAAAAAA/TAAAAAAAAA	CCCCAGGTGCAATAGA GAAA	TCGCTACTCACGGAT TTTT	60.1	278	INTERGENIC	--	--	--
Ca6_P3_52572155	Ca6	52572155	T/TG	GGGAGTTGTGCTTGG CAAT	TCATCTTCGACACAGG CAAG	60.0	344	INTRON	Ca_17540	--	ARF
Ca6_P3_52670436	Ca6	52670436	AATATATATATATATATATATAT/AA TATATATATATATATATAT	TTTGTTCATAAAATA TCGCATGT	CTTGCAACCGATAGCC ATT	58.9	810	INTERGENIC	--	--	--
Ca6_P3_52676255	Ca6	52676255	GATATATATATATATATATATAT/GAT ATATATATATATATATATATAT	ATGGGTATAAGTACCC GCGA	TGTGTCCATCCCTAAA ACGA	59.3	223	INTERGENIC	--	--	--
Ca6_P3_52783443	Ca6	52783443	AATATATATATATATATATATATAT AT/AAATATATATATATATATATATA TATATATATAT	CGGTGAATCCTTTACG GAGA	GAAGAAGGAGGAGGA ATGGG	60.1	290	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 (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
Ca6_P3_52787964	Ca6	52787964	CG/C	TTCTCACGAACGAACA CGAG	GTGGCACCTCGGTAA CAGT	60.0	667	INTERGENIC	--	--	--
Ca6_P3_52789381	Ca6	52789381	CATATATATATATATATATATATATATATATATATATA/CATATATATATATATATATATATATATATATATATATATATATATATATATA	GTTGGTTCCTAGCAC CGTA	AAGAAGGACGGAAGCT CACA	60.0	867	INTERGENIC	--	--	--
Ca6_P3_5281987	Ca6	5281987	CTTTTTTTTT/CTTTTTTTTT	CCTCCCGTTGTAA TTCA	GAAGAAGACCCAGATC CGAA	60.0	426	DRR	Ca_05771	O	--
Ca6_P3_52848807	Ca6	52848807	ACTCGCT/A	CTGCCAAATACTGCGA CTCA	TCAATTTTGCTTGTA GATGGA	60.0	381	INTERGENIC	--	--	--
Ca6_P3_52850074	Ca6	52850074	ACTAATTTCTAATT/ACTAATTTCTAATT TCTAATT	TCTGATTCGTTAATGAC AACCTTT	CGTGGGAGCAATTATG TCCT	59.1	218	INTERGENIC	--	--	--
Ca6_P3_52850184	Ca6	52850184	TA/T	AGGACATAATTGCTCC CACG	TCCATCTCCAACAACA TCAAA	60.0	305	INTERGENIC	--	--	--
Ca6_P3_52858291	Ca6	52858291	AAAATAA/AAA	CACATGCTGCAAAATG AATG	CCACAAAAATGGTGTT GCAG	60.1	190	INTERGENIC	--	--	--
Ca6_P3_52858643	Ca6	52858643	GTATCTATCTATCTAT/GTATCTATCTA TCTATCTAT	CTGCAACACCATTTTTG TGG	TTTGCTGAAAGCATGT TTGTTT	60.0	689	INTERGENIC	--	--	--
Ca6_P3_52859293	Ca6	52859293	ATATATTATATT/ATATATT	AAGTGAATTCCACCTTC CCA	CGAGCCTCCAACCTCT CTTG	59.4	560	INTERGENIC	--	--	--
Ca6_P3_52862596	Ca6	52862596	T/TTATAA	ACATGAAGCGTTGGGT TGAC	GAGGAGCATGATAGCA AGGC	60.0	193	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
Ca6_P3_5289876	Ca6	5289876	ATT/ATTT	TAAAGGACCAAGTCGG GAAA	TGCTCATGGAGTTAGA AGCAA	59.5	471	INTERGENIC	--	--	--
Ca6_P3_52897673	Ca6	52897673	CATATATATATATATATATATATATAT ATATATAT/CATATATATATATATATATA TATATATATATATAT	TTTTTGTCCTTCATTTGT TGCG	TTGATCCTTCGATTTTT GAATG	58.9	838	INTERGENIC	--	--	--
Ca6_P3_52935026	Ca6	52935026	CATATATATATATATATATATATAT/C ATATATATATATATATATATATATAT	CTTTGTGTGCTTCCCAT CAA	TGCACGAACCTTGTTGA TGAAAA	59.7	888	INTERGENIC	--	--	--
Ca6_P3_5295925	Ca6	5295925	TTTATTATTTATTA/TTTATTATTTATTAT TATTTATTA	TTGACATTTCAAACCGG TCTAT	TGGAAAAGACTCCTGA ATATGGA	58.5	359	INTERGENIC	--	--	--
Ca6_P3_52996524	Ca6	52996524	CATTTT/CT	CTCCGTCATCGCCATA ATTT	TTTTCGGTGATTCAAAA GCC	59.9	891	INTERGENIC	--	--	--
Ca6_P3_53010946	Ca6	53010946	CA/C	TGCATCGATAACCAATC CAA	TACATGCGCCCTGTT TAAT	59.9	301	INTERGENIC	--	--	--
Ca6_P3_53045421	Ca6	53045421	GTATATATATATATATATATATATAT AT/GTATATATATATATATATATATAT ATATATAT	AAATGCGACCTAGGCA AAAA	AGTTGCAGGGACAACA AACG	59.7	155	INTERGENIC	--	--	--
Ca6_P3_53069266	Ca6	53069266	T/TATTA	CATCATCATGTGAGTTG GGG	AGCCGACACCTTTTGA CTTC	59.8	499	INTERGENIC	--	--	--
Ca6_P3_53110822	Ca6	53110822	TTATATATATATATATATAT/TTATAT ATATATATATATATAT	CGGTGAACGGCTAAGT GAAT	TTTACCAATTACAAAA ATTGA	60.1	680	INTERGENIC	--	--	--
Ca6_P3_53218190	Ca6	53218190	TCTTCCTTTTTCTTCCTTCCTTT/TCTT CCTT	AGGGTGAGCAATTTTC CCTT	GCTTTGACGGAGGATC TTTG	59.9	685	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
Ca6_P3_53258128	Ca6	53258128	TAAAA/TAAA	TCTGATTGTGGGTC CTTC	CAGCCTTGCACTCAAG ATCA	59.9	360	INTERGENIC	--	--	--
Ca6_P3_53305336	Ca6	53305336	ATTTTTTT/ATTTTTTTT	CAAGATTTCGTGGTGC AAGA	TTGAGGACAAAAGCTG CTGA	59.8	660	INTRON	Ca_22925	G	--
Ca6_P3_53311252	Ca6	53311252	AT/ATT	GATGGTGGCCATTGAA GAGT	CAACAGTGTATGCACC TGCC	59.9	721	INTERGENIC	--	--	--
Ca6_P3_53312302	Ca6	53312302	AAAAATAAAATAAAATAAA/AAA AATAAAATAAAATAAAATAAA	ATAGCAATTGGTGCATC CCT	ATGACCAAGGCATTGA GGAC	59.4	761	INTERGENIC	--	--	--
Ca6_P3_5331868	Ca6	5331868	TAAAAA/TAAAAAA	AACAACCATTTGATTGA TAACCTTC	TCGGTCAAATTCCTAC CACAAA	59.6	546	INTERGENIC	--	--	--
Ca6_P3_5333071	Ca6	5333071	ATATC/A	AAGTAGTGGGTAACCC GTGC	TGGAGTCATGTTTTTC ATACGTG	59.0	211	INTERGENIC	--	--	--
Ca6_P3_53344452	Ca6	53344452	TGGGG/TGGG	CTTGGGCTTATTCAATG CAA	TAACTCAAGCCAATGA GGGG	58.8	751	INTERGENIC	--	--	--
Ca6_P3_53411441	Ca6	53411441	GGA/G	GACCAAGGCAAGCAAG AAAG	GGTGAAGCTAGAGTG ACGG	60.0	249	DRR	Ca_18883	GC	--
Ca6_P3_53413835	Ca6	53413835	ATT/ATTT	CGTCATTGGGGGACT AAAA	GAGTTCGGGAGTAGG GAAGG	59.8	978	INTERGENIC	--	--	--
Ca6_P3_53414207	Ca6	53414207	AG/A	TCGCACCGGGAGATAC TTAG	GAGTTCGGGAGTAGG GAAGG	60.2	258	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
Ca6_P3_53574745	Ca6	53574745	TAAAAAAA/TAAAAAA	AAAAGTGGTGTGACT GGCA	AGCTCTCCCGAAATGT GTTT	59.2	365	INTERGENIC	--	--	--
Ca6_P3_53615531	Ca6	53615531	ATTTTTTTTT/ATTTTTTT	GATGATTTCTCGGA AGCA	TGAGAAAGAAGCAGCA TCCA	60.2	547	INTERGENIC	--	--	--
Ca6_P3_53628454	Ca6	53628454	ATTTTTTT/ATTTTTTTTT	TGTGATGTCACCTGCTC CCTC	TGCACATGCACACATG CTTA	59.8	545	INTERGENIC	--	--	--
Ca6_P3_53680637	Ca6	53680637	CATATATATATATATATATATATAT/C ATATATATATATATATATATATATAT	TCTATGGCACTTGGAG CCTT	AATTTCATGTCTTTTG CCC	59.8	667	INTRON	Ca_18901	--	--
Ca6_P3_53799025	Ca6	53799025	ATTT/ATTTT	GGCCCAATATTTGAAAC CCT	CAACTTGCAAAGACCC ATCA	60.0	704	INTERGENIC	--	--	--
Ca6_P3_53889398	Ca6	53889398	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	ACAACCTTTGTGAAATC GGC	CCAAATGGCGACTACC AACT	60.0	749	INTERGENIC	--	--	--
Ca6_P3_5405978	Ca6	5405978	CATATATATATATATATATATATATAT ATATATAT/CATATATATATATATATA TATATAT	TCATATTACTTCGGCG ACC	AGCAACAAACAAGATT GCCC	59.9	681	INTERGENIC	--	--	--
Ca6_P3_54068748	Ca6	54068748	CCATCAT/CCAT	GTAAGTGAAAGCGGGA GTGC	ACCACCAACTTGCTTG CTCT	59.9	527	INTERGENIC	--	--	--
Ca6_P3_54068881	Ca6	54068881	TAATATAAAA/TAATATAAAATATAAA AA	GATCCCAACCATCATTT TCC	ACCACCAACTTGCTTG CTCT	60.0	258	INTERGENIC	--	--	--
Ca6_P3_54068968	Ca6	54068968	GA/GATA	GATCCCAACCATCATTT TCC	ACCACCAACTTGCTTG CTCT	60.0	258	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
Ca6_P3_54069131	Ca6	54069131	ATTTT/ATTTTTT	GATCCCAACCATCATTT TCC	AATTACCACGGCCTCT TGTG	60.0	824	INTERGENIC	--	--	--
Ca6_P3_54069845	Ca6	54069845	ATTTTTTT/ATTTTTTTTT	ACAAGAGGCCGTGGTA ATTG	TTTTGGTGGGTTCCAC TTTT	60.0	751	INTERGENIC	--	--	--
Ca6_P3_54070088	Ca6	54070088	ATT/ATTT	GCAATTGTCGTATTTT ATTTTTG	TTTTGGTGGGTTCCAC TTTT	59.8	379	INTERGENIC	--	--	--
Ca6_P3_54070236	Ca6	54070236	TAAAA/TAA	TTTCTTTCTCATGCTT TAGAGG	TTTTGGTGGGTTCCAC TTTT	59.1	123	INTERGENIC	--	--	--
Ca6_P3_54095986	Ca6	54095986	TCA/T	TTTTTCGACTTGGTCC TTT	TTTTTCACGTGAGCA TCAA	58.7	466	INTERGENIC	--	--	--
Ca6_P3_5410706	Ca6	5410706	ATTTTTTT/ATTTTTTTTT	TTTGAAAAAGTGAGGG GTGG	CTTGGTGGTGGTCAG AGGT	59.9	956	INTERGENIC	--	--	--
Ca6_P3_54143633	Ca6	54143633	AATATATA/AATATATATA	CCAAGAGATACGGG GCAA	CGACAAAACAAACCGC ATAA	59.9	907	INTERGENIC	--	--	--
Ca6_P3_54144071	Ca6	54144071	ATTTT/ATTT	GCCGCCGAATCTTATAT TACC	CGTGCATTAACATCGA CAGG	59.8	580	INTERGENIC	--	--	--
Ca6_P3_54144443	Ca6	54144443	ATAAACTAA/ATAAACTAACTAA	TGTTTTGTGGGTGGA CATA	CGTGCATTAACATCGA CAGG	59.8	450	INTERGENIC	--	--	--
Ca6_P3_54160975	Ca6	54160975	AAATAT/AAATATTAATAT	TTGATTTGACAAATTTT ATTGCTT	TCAGTTTTCCGGTTTC TTGC	59.9	703	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 (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
Ca6_P3_54161011	Ca6	54161011	TGAGAGA/TGAGA	TTGATTTGACAAATTTTC ATTGCTT	TCAGTTTTCGGTTTC TTGC	59.9	703	INTERGENIC	--	--	--
Ca6_P3_54181298	Ca6	54181298	CTTTTTTTTT/CTTTTTTTTT	TTTCCGCATAAATGTC ACG	CAAATTTTCAAACAAA ACCCA	59.6	835	INTERGENIC	--	--	--
Ca6_P3_54192734	Ca6	54192734	ATTTTTTT/ATTTTTTTT	GGACGGCGAAAATAAA ACAA	TTGAAAATGGCTAAGG CAAAA	59.9	642	INTERGENIC	--	--	--
Ca6_P3_54198768	Ca6	54198768	TAAAAAAAA/TAAAAAAAA	TAATTTTGCTTCCCCG ACA	CAAACCCACATACCGC AACA	60.4	761	INTERGENIC	--	--	--
Ca6_P3_54202309	Ca6	54202309	AATATATATATATATATA/AATATATA TATATATATA	ATGTCATGCGAGGGA CTAC	TCTGCACCAACCTCAA CACT	60.0	364	DRR	Ca_16276	G	--
Ca6_P3_54215448	Ca6	54215448	ATTTTTTT/ATTTTTTT	TCGAACTGCTTGCACT GAAC	TGTGCGTGTGTCTAAA AGTTGTC	60.2	908	INTERGENIC	--	--	--
Ca6_P3_54259137	Ca6	54259137	TAAAAAAAA/TAAAAAAAA	CGGGCATCATATTTAAC AACAA	TCTATCGGGGACAGA TAAGT	59.7	660	INTERGENIC	--	--	--
Ca6_P3_54304338	Ca6	54304338	ATTTT/ATT	AATGGTATTGCCGACC ATGT	AAGTGTGGTGTGAAA GTTGGA	60.1	594	INTERGENIC	--	--	--
Ca6_P3_54322946	Ca6	54322946	TATTG/TATTGATTG	TATGAATCTTCACCTCC GCC	CCAGTCTGACCTGACC ATGA	60.0	560	INTERGENIC	--	--	--
Ca6_P3_54324356	Ca6	54324356	GTTTTTTTTTTT/GTTTTTTTTTTTTT	TAGGATGCTCTAAATCC GGC	CCTTGTTACCAGGCC TACC	59.3	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 (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
Ca6_P3_54332702	Ca6	54332702	TAAA/TAA	ATGGACGACTTTGGGT TCTG	AGCCCCATAATGTCAA GCAC	60.0	456	INTRON	Ca_16289	O	WRKY
Ca6_P3_54338140	Ca6	54338140	TTTATTATT/TTTATT	ATACCCGACTCCCTCTT GCT	GCAGTTCGGAATAATG CACA	60.1	337	DRR	Ca_16289	O	WRKY
Ca6_P3_54339604	Ca6	54339604	GAGGATCA/GA	ATCATGCGTTTCTCACA TGC	TACGGGGTTGGGGATA ATT	59.7	216	DRR	Ca_16289	O	WRKY
Ca6_P3_54339840	Ca6	54339840	CAAAAA/CAAAA	TAAATTATCCCAACCC CGT	CTGATGAGCTTTCGGT GCTT	60.3	205	INTERGENIC	--	--	--
Ca6_P3_54339929	Ca6	54339929	TC/T	AAATTATCCCAACCCC GTA	TCATTGGACTCTCATC CTCTCA	60.3	628	INTERGENIC	--	--	--
Ca6_P3_54356339	Ca6	54356339	T/TG	TTTCCTACAATGTCAGT CCAAAAA	CATGGCTTTATTTGGT TCCG	59.9	521	DRR	Ca_16293	--	GRAS
Ca6_P3_54369897	Ca6	54369897	CATATATATATATATATATATATAT A/CATATATATATATATATATATATAT ATATA	CCTATCATGGTCTGGC CTGT	TTCCATTGCCTTATTGC ACA	60.0	888	INTERGENIC	--	--	--
Ca6_P3_5441673	Ca6	5441673	CTATATATATATATATATATATATATA /CTATATATATATATATATATATATAT ATA	AAACCTGTGTGATGTG CTGC	CACCACAAAGAGGATA GTCGG	59.8	623	DRR	Ca_05757	QI	B3
Ca6_P3_5465652	Ca6	5465652	CATTATTATTATTATTATT/CATTAT TATTATTATTATT	TGGAGCTGCTGGTACC TCTT	CCACATTTTATTCGCAA GCA	60.0	732	INTERGENIC	--	--	--
Ca6_P3_54674096	Ca6	54674096	A/AC	TGAAATGAGGGAATTAA AATCACA	AGGCTAGCCCCACAAA AGTT	59.7	679	DRR	Ca_21197	O	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDCC 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
Ca6_P3_54683653	Ca6	54683653	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATTAAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA A	TAGTCTCATGCTGACAC GCC	TGCGAGAGAGAAGAAG GAGG	60.0	219	INTERGENIC	--	--	--
Ca6_P3_54712565	Ca6	54712565	AAAACCTAA/AAAACCTAACTAA	GCATACCCTTGGTAAAT TGCTC	TGCTAGAAATAGAATTT GGCACA	59.9	352	INTERGENIC	--	--	--
Ca6_P3_54720503	Ca6	54720503	CTT/CT	GTCTACTCCCTCACCC CACA	CTGGACATCTATTGGT AGCCG	60.0	378	INTERGENIC	--	--	--
Ca6_P3_54754837	Ca6	54754837	GCCAAATCGATTT/GCCAAATCGATTT CAAATCGATTT	GTAAGGCCACCAATC GAAA	TTGTCCGTGAGAGACT GCAC	59.9	939	INTERGENIC	--	--	--
Ca6_P3_55145116	Ca6	55145116	C/CTAGCCCTCCT	GACAAACCGTGGAAC CAAT	GGAGCGACACGATCTA GAGG	59.7	328	INTERGENIC	--	--	--
Ca6_P3_55332973	Ca6	55332973	CAATAATAATAATAATAATAATAAT AATAATAATA/CAATAATAATAATAATA TAATAATAATAATAATA	AGAAACAAGGCAAGCT CCAA	GGAACATTTGGCCTCC AATA	60.0	512	CDS (large-effect mutations)	Ca_21219	K	TALE
Ca6_P3_55437144	Ca6	55437144	AT/A	TGACTTTGATGTCGCAA AGC	AGGGATGCGACCATCT ATTG	60.0	645	INTERGENIC	--	--	--
Ca6_P3_55445574	Ca6	55445574	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATT/GTTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT	AATCACGCGAATCCAC AAAT	AATTCTACCTCCCC ACAC	60.3	582	INTERGENIC	--	--	--
Ca6_P3_55584714	Ca6	55584714	AATTATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT ATTATTATT/AATTATTATTATTATTAT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATT	GCTTCCACATAGGTACT GCG	TTCTCCATTATAGCTC AAGTTTGT	58.4	842	INTERGENIC	--	--	--
Ca6_P3_55769150	Ca6	55769150	C/CT	TCGATTATGCGTAGGG AAGG	TTTTTCCTTTGTAGGC CCAA	60.1	943	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
Ca6_P3_55771133	Ca6	55771133	GTC/GTCTTC	GGAAACGTGTGAACGG AAGT	GGTAACCAATCCGAAG ACGA	60.0	575	INTERGENIC	--	--	--
Ca6_P3_55771190	Ca6	55771190	TAT/TATCGTCTTCGGAT	TTACCGATGCATTGATC GAC	GGTAACCAATCCGAAG ACGA	59.5	143	INTERGENIC	--	--	--
Ca6_P3_55771649	Ca6	55771649	TAAAAAAAA/TAAAAAAAAAAAAA	GGATTGATTATCCGAT GCGT	GAACGCGAGATATTGG GTGT	59.8	544	INTERGENIC	--	--	--
Ca6_P3_55781099	Ca6	55781099	GTTTT/GTTTT	AGAAGGCTACCACTAC GCGA	ATCGACTCCCGAACTC AAAA	60.0	500	INTERGENIC	--	--	--
Ca6_P3_55987809	Ca6	55987809	AATATATATATATATATATATATAT ATATATAT/AATATATATATATATATA TATATATATATATATATATAT	TTCAAGGTTCAATCA TCAACG	AAAGTTGACTCATATCA AAACCCA	59.0	390	INTERGENIC	--	--	--
Ca6_P3_56048704	Ca6	56048704	CTTT/CTT	AAAAACAGGTTGTGCG GAAG	AATGGCCACGAATCTG AAAG	60.1	374	INTERGENIC	--	--	--
Ca6_P3_56087656	Ca6	56087656	CTTT/CTTTT	TTGTGAGCATGAGAAG TTGTTG	TGAAAAATTATTGAAAA AGTTACTTCC	59.0	737	INTERGENIC	--	--	--
Ca6_P3_56087684	Ca6	56087684	CAGA/CA	TTGTGAGCATGAGAAG TTGTTG	CAATTACTCGGTAGTG TCAATCCA	59.0	872	INTERGENIC	--	--	--
Ca6_P3_56139090	Ca6	56139090	AGG/AAACGG	ACCCTCTCACCCCTCTT GAT	TCCTCATCATTCCTC CTTG	59.9	387	INTERGENIC	--	--	--
Ca6_P3_56145952	Ca6	56145952	AAATAATAATAATAATAATAATAAT AATAATAATAA/AAATAATAATAATAA ATAATAATAATAATAATAATAA	CCGAGAGTGACCAAT TGAA	TCAATTGCATAAGCCA AAACA	61.0	687	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 (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
Ca6_P3_563674	Ca6	563674	AATATATATATATATATATATTTAT ATATATATAT/AAATATATATATATATA TATATTTATATATATATAT	GGATCAGATGGGTCGG TAGA	ATGCACGTTTGGTATG GTCA	59.9	441	DRR	Ca_13277	C	--
Ca6_P3_56413983	Ca6	56413983	ATTT/ATT	TTCAACAATCGCAACCA CAT	CGCGGGTCATGTTCTA GTTT	60.0	376	INTERGENIC	--	--	--
Ca6_P3_5645292	Ca6	5645292	CTATATATATATATATATAT/CTATAT ATATATATATATATATATAT	GTAAACCCAAGAGAGG TGCG	TTCTAAATGGCGACTT TCCA	59.7	923	INTERGENIC	--	--	--
Ca6_P3_5645464	Ca6	5645464	TTATATATATATATATATATATATATA TATATAT/TTATATATATATATATATA TATATATATATATATATAT	GGCCACATATGAAGG TGAA	GGTCGCTTTAATTGCA CACA	60.7	846	INTERGENIC	--	--	--
Ca6_P3_56462708	Ca6	56462708	AATATATATATATATATATAT/AAAT ATATATATATATATATATATATAT	CATTCCCTCTGGCTTGT CAT	AGGAAGAGTGGAGTTG CGAA	60.1	605	INTERGENIC	--	--	--
Ca6_P3_56503979	Ca6	56503979	AAACAA/AAA	GTTGGCGCAAACCTCTT CTTC	TGCAACTTTCAGGTCC CTTT	60.0	583	INTERGENIC	--	--	--
Ca6_P3_56504001	Ca6	56504001	ATTTTT/ATTTT	GTTGGCGCAAACCTCTT CTTC	TGCAACTTTCAGGTCC CTTT	60.0	583	INTERGENIC	--	--	--
Ca6_P3_56504140	Ca6	56504140	AAAAGAAA/AAAA	AAATGCAAAGTCGGAT GGTC	TGCGAAGAAGAATGAT CACG	59.9	896	INTERGENIC	--	--	--
Ca6_P3_56504596	Ca6	56504596	CTATA/CTA	CGTGATCATTCTTCTTC GCA	ACGTCCGACTTGCGTC TTAT	59.9	174	INTERGENIC	--	--	--
Ca6_P3_56504753	Ca6	56504753	ATTTTTTTTTTTTT/ATTTTTTTTTTT	CGTGATCATTCTTCTTC GCA	TCGGTACCAAGTTAC CACA	59.9	614	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 (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
Ca6_P3_56505598	Ca6	56505598	AC/A	TGGTAACTTGGTGACC GACA	AATTTTGCAGAAGAA GAAAAAG	60.0	485	INTERGENIC	--	--	--
Ca6_P3_56507452	Ca6	56507452	TATCA/TA	CGTGATCATTCTTCTTC GCA	ATCCAAACATTGGCCA TTTC	59.9	685	INTERGENIC	--	--	--
Ca6_P3_56507592	Ca6	56507592	ATTTTTTTTT/ATTTTTTTTT	CGTGATCATTCTTCTTC GCA	ATCCAAACATTGGCCA TTTC	59.9	685	INTERGENIC	--	--	--
Ca6_P3_56507723	Ca6	56507723	GTTTTTTTTTTTTT/GTTTTTTTTTTTT TTTT	CGTGATCATTCTTCTTC GCA	CTCCCAATTGCAGTG TCCT	59.9	966	INTERGENIC	--	--	--
Ca6_P3_56507798	Ca6	56507798	CA/CAA	AAATTCAAGTCTCGACG CAA	CTCCCAATTGCAGTG TCCT	59.9	511	INTERGENIC	--	--	--
Ca6_P3_5653829	Ca6	5653829	TAAAAAAA/TAAAAAAA	ATTAAGCCGCGTTGGT TATG	TAGCGGCCCAAGTAC AATA	60.0	832	INTERGENIC	--	--	--
Ca6_P3_56554078	Ca6	56554078	GATAATAATAATAATAATAATAATA ATAATCATAATAATCATAATAATAATA TAATAAT/GATAATAATAATAATAATA AATAATAATCATAATAATCATAATAATA ATAATAATAAT	TTGGACTCACGTCGTC AGAG	GTTTGCCATAAGTGG CAGT	60.0	682	INTRON	Ca_17393	D	--
Ca6_P3_56593690	Ca6	56593690	CATGTG/C	GTCGAATCAATCTGCC CAAT	TGCTTACATGACACCC ATGC	59.9	549	INTERGENIC	--	--	--
Ca6_P3_56634765	Ca6	56634765	CATATATATA/CATATATATATATATA TATATATA	GATCTGGCAGAGGAAC TTCG	GAGCCTATGGGAAGGA GAGG	60.0	566	DRR	Ca_17399	--	Dof
Ca6_P3_56688837	Ca6	56688837	GTTTT/GTTTTT	TGTTGAGTCGTGGTTA TGGG	TGAACATGCATTCCGA AAAA	59.4	725	DRR	Ca_17406	--	--

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 (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
Ca6_P3_56713561	Ca6	56713561	ATT/ATATTT	TTCACGTTGGAAC TTG	TTTTTGATT CAGGT GGCA	59.9	833	INTERGENIC	--	--	--
Ca6_P3_56727392	Ca6	56727392	TAA/TAAA	AGGCAAAACATGTTCC CTCA	AATGTTAGTGCACCGT GTCG	60.5	706	INTERGENIC	--	--	--
Ca6_P3_56738738	Ca6	56738738	TAAAAAAA/TAAAAAAA	TTGTCATCATTAAACAG TGCG	GGTTCTAGGGGCTCGA GATT	59.5	337	INTERGENIC	--	--	--
Ca6_P3_56767873	Ca6	56767873	TAAAAAAAA/TAAAAAAAA	TCATGGATTCAACCAGA TGC	TTCATCTTTCAAAC TTG AGACTCG	59.5	188	INTERGENIC	--	--	--
Ca6_P3_56782339	Ca6	56782339	AAATAATAATAATAATAATAAT AATAATAATAATAAGTAATAATAATA ATAATAATAATAATA/AAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAGTAATAATAATAATAATAA ATAATAA	TGAAGTGGTAACAAGG GCATT	ACAAATCCTCAAGAGG GTGC	59.5	409	INTERGENIC	--	--	--
Ca6_P3_56797374	Ca6	56797374	GTATTATTATTATTATTATTATTATT ATTATTAT/GTATTATTATTATTATTATT ATTATTATTATTAT	TGTCATCGTAGGGAGA AGGG	GGTGATTGTTCCAGTG ACCA	60.1	629	INTERGENIC	--	--	--
Ca6_P3_56874982	Ca6	56874982	AAATAATAATAATAATAATAATAAT AATAATAATA/AAATAATAATAATAATA ATAATAATAATAATAA	TGGAATGATGATTTTAT GCATATTT	TTATTTTGACGTTTTC CGC	58.7	725	INTERGENIC	--	--	--
Ca6_P3_56904639	Ca6	56904639	CATATATATATATATATATATATATAT ATATATATA/CATATATATATATATATAT ATATATATATATATATATATA	ATCGCTTGCAATAGGAT TCG	GGAAATGGTTTGGGAT GTTG	60.2	322	INTERGENIC	--	--	--
Ca6_P3_57039572	Ca6	57039572	TAAAAAAA/TAAAAAAA	GGTGTAGTGGATCGGT CTTGA	ATAGTGCCGAAGGAAG CAAA	60.0	334	INTERGENIC	--	--	--
Ca6_P3_57068021	Ca6	57068021	TATAATAATAATAATAATAATAAT/T ATAATAATAATAATAATAATAATAATAA TAATAATAATAATAAT	GGGACTGGGGTCATT AGGT	TCGTTCTTCAGGAAG TCGT	60.1	741	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 (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
Ca6_P3_57072104	Ca6	57072104	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CTCGCTTCTCATTCTC ACC	GAGGTGGGCTCAAATG AGTT	60.0	457	INTERGENIC	--	--	--
Ca6_P3_57093681	Ca6	57093681	GTAATAATAATAATAATAATAATA/G TAATAATAATAATAATAATAATAAT A	CCTAATTGAACGGCTAT CGAA	GCAAAAGACGAGGAGT GGTC	59.2	585	INTERGENIC	--	--	--
Ca6_P3_57104113	Ca6	57104113	AT/ATATATATATATTTT	TCAACAAAATTGGAATG CAGA	TTCTCGCAGAGACGA GAAT	59.1	763	INTERGENIC	--	--	--
Ca6_P3_57117976	Ca6	57117976	AATATATATATATATATATATATAT ATATAAATATATATATATATATATAT ATATA	TTTCATGTGCGTGTGA GTGA	TCAACCAATTCAACAAT TTGACA	59.9	519	INTERGENIC	--	--	--
Ca6_P3_57153972	Ca6	57153972	TTATATATATATA/TTATATATATATA	TTACCCCTGTGTTTGG TTTC	CATCCGTCGGTCATT CATA	59.9	105	INTERGENIC	--	--	--
Ca6_P3_57167945	Ca6	57167945	AATATATATATATATATA/AATATATATA TATATATATA	CGCACCCATACCTGCT TAAT	TGCAATAGGTATTTTG GTGAGC	60.0	881	INTERGENIC	--	--	--
Ca6_P3_57284439	Ca6	57284439	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATA TATATATATATAT	CTTTACCACCTTCATTC GCC	GGGTGAACAGTGAATT AGAATCG	59.6	645	INTRON	Ca_13708	G	NAC
Ca6_P3_57388933	Ca6	57388933	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	TTTCATGAAGCACGGAA ACTG	GGACGCATCCGTTACT CATT	59.8	533	INTERGENIC	--	--	--
Ca6_P3_57443271	Ca6	57443271	AATATATATATATATATATATA/AATATA TATATATATATATA	TTGTGCATTCAACTTTT GCC	GGTAATTGGTCAACCA TCGC	59.7	697	DRR	Ca_13699	R	C2H2
Ca6_P3_57482241	Ca6	57482241	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	ATGATTATTGCCCAGA GGC	TGTGTAACTTGTCTG TCACATGG	59.0	530	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 (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
Ca6_P3_57490883	Ca6	57490883	ATTTTT/ATTTTT	CAAGCATCATGTCGAG CCTA	CTTGTTCGGGTACCTC GTGT	60.0	621	INTERGENIC	--	--	--
Ca6_P3_5765272	Ca6	5765272	TTTTTTATTTTTATTTTTATTTTATT/TT TTTTATTTTATTTTTATT	CTCTTGGACATGTGGT GGTG	TCCCTTTCGTTTTGGTT GAC	60.0	541	INTERGENIC	--	--	--
Ca6_P3_57716318	Ca6	57716318	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATAT TAT	GTCAACCACCGTTGAA CCTT	TTGAACATTGAAATC GGGA	59.9	485	INTERGENIC	--	--	--
Ca6_P3_58164188	Ca6	58164188	A/AGG	GCCCTGTTGCAGGTTA TTGT	TCTTCAGCCTCACCAG AGGT	60.0	384	INTRON	Ca_13624	U	--
Ca6_P3_58195717	Ca6	58195717	AATATATATATATATATATATATATA/ ATATATATATATATATATATATAT	TTTGAAAAAGTCCAAG CTGC	AATTGCTGCAACCGAC TTCT	60.4	636	DRR	Ca_13621	T	bHLH
Ca6_P3_58302986	Ca6	58302986	AATATATATATATATATATATATATAT ATA/AATATATATATATATATATATAT ATATATATATA	TCTGGGCACCTTATGCA ACAC	TTTTTAGGATGTGGAC GTTCCG	59.7	616	INTERGENIC	--	--	--
Ca6_P3_58373671	Ca6	58373671	GATATATATATATATATATATATA/GATA TATATATATATATATATATATA	TCACGCAAAAGATTTCAT AAAAGA	AGTTTGAAGCTGTGC GTCG	58.9	500	INTERGENIC	--	--	--
Ca6_P3_58408707	Ca6	58408707	GATATATATATATATATATATATATA TATATATATATAT/GATATATATATATAT ATATATATATATATAT	AAGACAGCAGCAAAAG CCAT	TGTTTTGTGCGTTGA CACAT	60.0	593	DRR	Ca_15377	U	--
Ca6_P3_5846506	Ca6	5846506	TAAAAAAAAAAAAA/TAAAAAAAAAAA	TGATTAGGCCTGAATT GTGGT	GCAAGTTGCCAAGAAA AAGC	59.4	461	INTERGENIC	--	--	--
Ca6_P3_58539579	Ca6	58539579	CATATATATATATATATATATATATAT ATATATAT/CATATATATATATATATATA TATATATATATATATAT	CGAGCCTAATAGTCGA CCCA	AACGGGTCAACCAATC ACAT	60.2	258	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDCC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected 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_P3_58563480	Ca6	58563480	AT/A	AGCAAAAGGGGGATGA AAGT	GAAAGCATCGTGGGAC ATTT	59.9	160	INTERGENIC	--	--	--
Ca6_P3_58594670	Ca6	58594670	TAAAA/TAAAAA	GATGATGTGGCTGCTC AAGA	TTCATTGTCCGTTGA GTGC	60.0	490	DRR	Ca_15401	--	--
Ca6_P3_58615933	Ca6	58615933	GTAGTT/G	CAAATTGTCCGTGCAAT CAC	GAAGAATGGTAGCG GAACA	60.0	227	INTERGENIC	--	--	--
Ca6_P3_58644726	Ca6	58644726	AATATATATATATATATATATATA/AA TATATATATATATATATATA	TTCCGTACAATTGGGT GGT	TTGATAACAAAGATGT GTCTTGATTTT	60.1	594	INTERGENIC	--	--	--
Ca6_P3_58647704	Ca6	58647704	CTTTTTTTTT/CTTTTTTTTT	TGCGAGTTCGCTGTG TAGT	CAGATTCAATTTGCCAC AAACA	59.7	351	DRR	Ca_15410	U	B3
Ca6_P3_58668815	Ca6	58668815	TTCTTAAATAATTATCTTAAATAATT/ TTCTTAAATAATT	AAACACTTGTGACGAC ACCG	ATCCTTGTCAAACG CACC	59.6	537	INTERGENIC	--	--	--
Ca6_P3_58691212	Ca6	58691212	GTTTTTTTTTTT/GTTTTTTTTTTT	GGCACGTCGTAGGCTT ACTT	GGGTAGCCTAAGGTC CAGG	59.4	835	INTERGENIC	--	--	--
Ca6_P3_58709173	Ca6	58709173	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAA/AAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAA	TGAGTCCGTGTCAGTG CTTC	GACTGCACTGTTTGGC TTGA	60.0	848	DRR	Ca_15414	--	--
Ca6_P3_58758402	Ca6	58758402	ATTTTTTTTT/ATTTTTTTTT	TGGTCTGGCCTATTCT CACC	GATCCGTCAAGTCCCT CGTA	60.1	449	INTERGENIC	--	--	--
Ca6_P3_58781089	Ca6	58781089	C/CGTA	TTCAACGGACGATTTTC TCC	CCTCCGACTAAATGAG GTCC	60.1	756	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
Ca6_P3_58781204	Ca6	58781204	CTTTTTT/CTTTTTT	TTCAACGGACGATTTTCTCC	CCTCCGACTAAATGAGGTCC	60.1	756	INTERGENIC	--	--	--
Ca6_P3_58785175	Ca6	58785175	TTCTCTCTCTCTCTCT/TTCTCTCTCTCTCT	TCAAATATTGATGCGACAAAA	TTGTCAAATGCTGTTTGCCT	58.2	522	DRR	Ca_15422	K	MYB
Ca6_P3_58787039	Ca6	58787039	TAATAAATAAATAAATAAATAA/TAATAAATAAATAAATAAATAAATAA	GCAAAGCATCTAGGTGTCCC	GCCAATCGATGAGATCAGT	59.7	233	DRR	Ca_15422	K	MYB
Ca6_P3_58789488	Ca6	58789488	TC/T	CGATGTTTCCTCCTTCTTCG	AAACAAAAGCGCACACTCAA	59.8	769	INTERGENIC	--	--	--
Ca6_P3_58799381	Ca6	58799381	ATTTTTTT/ATTTTTTTTT	TAGCAACCGGTCATGAGTGA	TGGAAAACACGTTTCAATGTT	60.3	802	INTERGENIC	--	--	--
Ca6_P3_58799717	Ca6	58799717	TAAAAAAAA/TAAAAAAAA	TTCTTTGAGGAGAAAAATCATCA	TGGAAAACACGTTTCAATGTT	58.0	452	INTERGENIC	--	--	--
Ca6_P3_58808278	Ca6	58808278	T/TC	TGGTGCGTCCACTATTCAAA	ATTTTCCCACATGGACGGT	60.1	622	INTERGENIC	--	--	--
Ca6_P3_58811718	Ca6	58811718	TAAAAAA/TAAAAAA	AAGTATCCATGTCAAGGAATCAAA	TTTATGGAAGTCTTTGCGGA	58.9	814	DRR	Ca_15423	K	GATA
Ca6_P3_58813046	Ca6	58813046	AATAT/AAT	AATAGAACCGCAAAACACGG	AAAAGGTTACCGACGACATATCA	60.0	267	INTERGENIC	--	--	--
Ca6_P3_58819093	Ca6	58819093	GAAAAAA/GAAAAAA	GTTGAGCCGACAAAAATGA	TAGTTGAACTCGTGCGTTGC	58.7	815	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 (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
Ca6_P3_58819395	Ca6	58819395	TAAAAAA/TAAAAAAA	TGCAAAAAGGTCAACA GATT	TAGTTGAACTCGTGC TTGC	57.4	381	INTERGENIC	--	--	--
Ca6_P3_58823708	Ca6	58823708	GTAA/GTAAATAA	AATTTTAGATCACGTGG CGT	GCACTCATTAGCCGTT CCAT	57.2	830	DRR	Ca_15424	S	--
Ca6_P3_58823752	Ca6	58823752	TAGGTCAGGTCAG/TAGGTCAGGTCAG GTCAG	GACTACTGAAGTTAGG GGTGGG	GCACTCATTAGCCGTT CCAT	59.0	314	DRR	Ca_15424	S	--
Ca6_P3_58823828	Ca6	58823828	A/ATCATAG	CTTTGAAAGGCCTGAA CCTG	GCACTCATTAGCCGTT CCAT	59.8	276	DRR	Ca_15424	S	--
Ca6_P3_58827188	Ca6	58827188	GAAAAA/GAAAAA	GTGCAAAACCACTGGAA TCCT	TTGGTTTGGTTGGAA CATT	60.0	600	INTRON	Ca_15424	S	--
Ca6_P3_58834846	Ca6	58834846	GTTTTTTTTT/GTTTTTTTTT	TGAAACGTCAACTTTTC GGA	AGGACTTCACCATCAA TTCCA	59.3	292	INTERGENIC	--	--	--
Ca6_P3_58851448	Ca6	58851448	AG/A	CTTGATTGCGGATGG ATTT	TTAAAGCGCTCCCATC AACT	59.9	896	INTERGENIC	--	--	--
Ca6_P3_58858147	Ca6	58858147	TTTTATTATTATTATTATTATTATTA TTTAT/TTTTATTATTATTATTATTAT ATTTATTATTATTAT	AGCTTTTCTTCGCAAA CCA	AGCATTGGTCCCAAAC AAAC	60.0	739	INTERGENIC	--	--	--
Ca6_P3_58873196	Ca6	58873196	GATATATATATATATATATATATATA TA/GATATATATATATATATATATATA TA	TTGAGCGAGAATGTAG AGAGAATG	AGAGCAAGCTTAAGCC GACA	60.0	233	INTERGENIC	--	--	--
Ca6_P3_58874492	Ca6	58874492	GTATATATATATATATATATATATA/G TATATATATATATATATATA	TCTCAATGTGATTTTAA TGTTCCC	GCCTCCTCATGCTGAT TCAC	59.3	671	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 (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
Ca6_P3_58875941	Ca6	58875941	GTTTTTTTTT/GTTTTTTTTT	TGGTCCTTCTGGGA TCTG	TCCGCTGCCCACTAG TTTT	60.0	628	INTERGENIC	--	--	--
Ca6_P3_59035946	Ca6	59035946	TCCGCACCCGCACCCGCACCC/TCCG CACCCGCACCCGCACCCGCACCC	CTAATAACTTGCGGG GCG	GGTTGTTCTTACGGGA CCAA	59.6	394	INTERGENIC	--	--	--
Ca6_P3_59066187	Ca6	59066187	TAAAAAAAA/TAAAAAAAA	TGTTTGTCACACTTTCA AATCCA	TGTGGGCTGATGTTGG TTTA	60.4	608	INTERGENIC	--	--	--
Ca6_P3_59067085	Ca6	59067085	AAAAACAGAGAA/AAAAACAGAGAAAA CAGAGAA	GGCCGGTTTAACAAGA ATGA	GCAACACATTACCAG CAAC	59.9	493	INTERGENIC	--	--	--
Ca6_P3_5906777	Ca6	5906777	TCC/TC	AGGCACATTTAGTCGA CCGT	CATGGAATTGAACCA GGCT	59.6	584	INTERGENIC	--	--	--
Ca6_P3_59072034	Ca6	59072034	CTT/CT	TTGCTTGAAGGATGGA GACC	AGGGAGAAACAAGACT CGCA	60.2	775	INTERGENIC	--	--	--
Ca6_P3_59093194	Ca6	59093194	ATTTTTTTTT/ATTTTTTTTT	GGAGGCAACCCAAC TATG	TCGCATAATTGGAACG TCAA	59.6	271	INTERGENIC	--	--	--
Ca6_P3_5909643	Ca6	5909643	GTTACTTAC/GTTAC	CCCATTTCCGGTTTGT GAC	GATGATTTGGGTTTGG TGGG	60.2	479	INTERGENIC	--	--	--
Ca6_P3_5912125	Ca6	5912125	A/AG	GCGAGAAGATTGCTTC CAAA	GGCTTTTCAATTACCC GTCA	60.5	561	INTERGENIC	--	--	--
Ca6_P3_59141297	Ca6	59141297	CAACAATAATAA/CAA	TTGAATTTTGAAATTT GTGCG	CATTCGCGGTCCCTTA ACT	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 (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
Ca6_P3_59193085	Ca6	59193085	CTTTTTTTTT/CTTTTTTTTT	ATGGGGTTTACCCATT GAA	ACATGATGGCAAGACC AAGA	59.0	511	INTERGENIC	--	--	--
Ca6_P3_59252761	Ca6	59252761	TAGAGAGAGAGAGAG/TAGAGAGAGA GAGAGAG	AATATGCTTTTGGGTCG TGC	CCATTTTAGGCTCGGA TTGA	60.0	633	DRR	Ca_18849	--	--
Ca6_P3_59273276	Ca6	59273276	TA/TAAA	TGAAGCTTGTCCAAA GGTA	GGTGAGAATGAAACG GAGA	59.5	754	INTERGENIC	--	--	--
Ca6_P3_59273311	Ca6	59273311	TA/T	TTTTTGGGCTGAAGCC ATAC	GGTGAGAATGAAACG GAGA	60.1	359	INTERGENIC	--	--	--
Ca6_P3_59349983	Ca6	59349983	AATATATATATATATATATATATAT A/AATATATATATATATATATATAT ATATATA	TTTCATTGCACTCACT CCA	CCTATCATGGCCTGAC CTGT	60.2	777	INTERGENIC	--	--	--
Ca6_P3_59370629	Ca6	59370629	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CCATGGTTCCACCTCA ATCT	CAAGCGATATCCAACG TGAA	59.8	710	INTERGENIC	--	--	--
Ca6_P3_59384361	Ca6	59384361	AATATATATATATATATA/AATATATATA TATATATATA	CGGCCTTATCCTAAAG ACCC	AAAATAGGGAGACCAA TTTCG	59.9	393	INTERGENIC	--	--	--
Ca6_P3_59388804	Ca6	59388804	ATTTTTTTTT/ATTTTTTTTT	TAGTGGAAGGGAACAG AGCG	CAGGATCGACTATTGG ATTGG	60.4	622	INTERGENIC	--	--	--
Ca6_P3_59428823	Ca6	59428823	TA/T	ATGATGTCACTTGATGC GCT	TGAATGCAACCAAATT CGAC	59.3	312	INTERGENIC	--	--	--
Ca6_P3_59434628	Ca6	59434628	CAAAAA/CAAAAA	ACAGCAGCCTTGCACT CTCT	TGTTGCCTCTGTTTT GCAG	60.2	374	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 (°C)	Expected 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_P3_623704	Ca6	623704	TAAAAAAAA/TAAAAAAAA	CGTGTTCGTAGGTCT CCCT	CATGAAGCAAATGGAG ATGG	59.2	722	INTERGENIC	--	--	--
Ca6_P3_6242461	Ca6	6242461	CATATATATATATATATATATATATAT AT/CATATATATATATATATATATATA TATATATATAT	GGCATCCATTGGCTTA GAGA	ATGCGATAGCAAGGGG AGTA	60.2	389	INTERGENIC	--	--	--
Ca6_P3_6409588	Ca6	6409588	TTATATATATATATAT/TTATATATAT ATATATATATAT	TCCACGGCCTCTTG TTAT	AGAGCAAGCAAGTTGG TGGT	60.5	581	INTERGENIC	--	--	--
Ca6_P3_6410135	Ca6	6410135	CACCAACT/CACCAACTACCAACT	ACCACCAACTTGCTTG CTCT	GATCCCAACCATCATT GTCC	59.9	543	INTERGENIC	--	--	--
Ca6_P3_6411151	Ca6	6411151	ATAATTTTGTTAATTTTGT/ATAATTTT GTTAATTTTGTTAATTTTGT	GCACTCCGCTTTCAC TTAC	TTTGGGAAGGGTCAAG AAAA	59.9	929	INTERGENIC	--	--	--
Ca6_P3_6411336	Ca6	6411336	AAT/AATAT	ATCTCGTGGTGCAACA ATCA	TTTGGGAAGGGTCAAG AAAA	60.1	628	INTERGENIC	--	--	--
Ca6_P3_6411391	Ca6	6411391	AATTTATTTATTTATTTAT/AATTTATTT ATTTATTTATTTATTTAT	ATCTCGTGGTGCAACA ATCA	TTTGGGAAGGGTCAAG AAAA	60.1	628	INTERGENIC	--	--	--
Ca6_P3_6498713	Ca6	6498713	ATTTTTTTTT/ATTTTTTTTTTT	TTCCAAAAACAACCATA GTTTCA	TTGTTTTGCCCATAC AAAA	58.6	782	INTERGENIC	--	--	--
Ca6_P3_6534305	Ca6	6534305	CTTTTTTTTT/CTTTTTTTT	TGAGTCGGCTTATCAT GTTTAAT	ACTCATTGCCCATCA TTTG	57.9	821	INTERGENIC	--	--	--
Ca6_P3_6583204	Ca6	6583204	TAAAAAAAA/TAAAAAAAA	TACGCGGATACGGGT ATGT	AGGACAAATGTGGGAA TTGG	60.2	421	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
Ca6_P3_6584882	Ca6	6584882	ATTATTTTTATTTTTATTTTTATTTTTAT ATTATTTTTATTTTTATTTTTATTTTTAT TTTTAT	AAAGACAAAATTATCCT TGTGATAAAA	GACAAATGAATGAAAG CCCG	57.9	476	INTERGENIC	--	--	--
Ca6_P3_6613313	Ca6	6613313	GTTTTTTTTTTT/GTTTTTTTTTTT	ATAACGCATCCATTCTT GCC	TGTTTTCTTCTTCTCCA TGTCG	59.9	495	INTERGENIC	--	--	--
Ca6_P3_6622549	Ca6	6622549	CAAAAA/CAAAAAA	TTGGTTTAGGAATTATG GGCA	AATCACAACCGGAGT GAGG	59.3	527	DRR	Ca_16922	--	--
Ca6_P3_67019	Ca6	67019	TTATATATATATATAT/TTATATATATAT ATATATAT	TCATCATCAGCAGAGC AAGG	ACGCATCGATAACCAA TTCC	60.1	728	DRR	Ca_26377	--	--
Ca6_P3_6749373	Ca6	6749373	TTAATAATAATAATAATAATAATAAA TAATAATAATAATAATAATAATAAT A/TTAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATA	CCAGATCAATCGTGTT GCAC	TGGAAGTTTCGAAAA TGCG	60.1	568	INTERGENIC	--	--	--
Ca6_P3_6754190	Ca6	6754190	AATAATTATTAT/AAT	AAGATTGTCACGTGTT GTCGT	TTGATTGACAAAGCAC CGAA	59.6	688	INTERGENIC	--	--	--
Ca6_P3_6821610	Ca6	6821610	T/TTATTAC	TTTTCAACGTTTCCCGA TTC	CAATTTTCCGATACAC GCC	59.9	434	INTERGENIC	--	--	--
Ca6_P3_6866662	Ca6	6866662	AT/A	CGTGTATGGCATTCAA GTGG	TGGTCTAGCTTGGCAC TCCT	60.0	113	INTERGENIC	--	--	--
Ca6_P3_6914708	Ca6	6914708	TG/TGG	CCATGTCAACATAGCCT CCA	CATTAGTGGCACACCA TTGC	59.5	652	INTRON	Ca_16954	KL	G2-like
Ca6_P3_6990532	Ca6	6990532	TTATATATATATATATATATATATATA TATATAT/TTATATATATATATATATATA TATAT	GGCCACAAACCAAGT GTTT	AGTTCACGGGTGCTTG TTTC	59.9	500	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 (°C)	Expected 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_P3_7669236	Ca6	7669236	ATTTTTTTT/ATTTTTTT	TGGTGTATGGGTCTGT TTGTTT	GGCCATGCTCTAGCAT TACAA	59.3	743	INTERGENIC	--	--	--
Ca6_P3_7679757	Ca6	7679757	TC/TCC	CAGGGGCTCCAATAC TGAA	CGTAGCGATAAAACCT GGGA	60.1	902	CDS (FRAME SHIFT)	Ca_09613	G	--
Ca6_P3_7686149	Ca6	7686149	TA/T	CAATTTTGGTGGCTG CTTT	GCAAATTCAAAAGAATT CAAAGG	60.1	838	INTERGENIC	--	--	--
Ca6_P3_7708884	Ca6	7708884	AAGAG/AAG	CTCATCACACTGGGCA AATG	TGTTCAATTCGAATGC CAAA	60.1	983	INTERGENIC	--	--	--
Ca6_P3_7712583	Ca6	7712583	CATATATATATATATATAT/CATATAT ATATATATATATATATAT	ATCGCAGGTATGAGGA CAGG	GCCATGGTTGTAGGAG AAACA	60.1	256	INTERGENIC	--	--	--
Ca6_P3_7720318	Ca6	7720318	CTATTATTATTATTATTATTATTATT ATTATTATT/CTATTATTATTATTATTAT TATTATTATTATTATT	CTTTTGGCCTTGGTGTT GTT	AAAGGGAAAGGGCAAA GAAA	60.0	682	INTRON	Ca_09607	--	--
Ca6_P3_7734896	Ca6	7734896	TAAAAAAAAA/TAAAAAAAAA	TCACAAGTCGGTGATT TATTGA	TGACAGGGTGGAATC ATCA	59.5	710	INTERGENIC	--	--	--
Ca6_P3_7791689	Ca6	7791689	TAAAAAAAAA/TAAAAAAAAA	GGACTAGGACCGTCTT AAACCTT	TCCAATCCTCACATTTT ACACAA	59.1	537	INTERGENIC	--	--	--
Ca6_P3_7806679	Ca6	7806679	TA/TACA	TCAAGGGATCCCCATA ACAA	TTACATTCCCCATTAA GCC	60.1	742	INTERGENIC	--	--	--
Ca6_P3_7841191	Ca6	7841191	ATTTTTTTTTT/ATTTTTTTTT	GGCTTTGTTTTTGGGTT TGA	CCTCGCCAAGCAAGAT TAAG	60.0	891	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 (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
Ca6_P3_7841423	Ca6	7841423	AT/ATATGT	TTTGTAAACCCTTTTCGT TATGC	CCTGCCAAGCAAGAT TAAG	58.2	628	INTERGENIC	--	--	--
Ca6_P3_7861016	Ca6	7861016	TAAAAAAAAA/TAAAAAAAAA	CAAATATTCCAACGTCA ACCAA	ACGCCTCCGCTTTTAT TGAT	59.9	556	INTERGENIC	--	--	--
Ca6_P3_7866313	Ca6	7866313	TAAAA/TAAA	CCCACCCACTCAACTTT CTC	TGCATCTGAGGAAAAC AACG	59.5	365	INTERGENIC	--	--	--
Ca6_P3_7972862	Ca6	7972862	GTATATATATAT/GTATATATATATAT	CTCATTGACTTGGGAT CCGT	GAGAAAAGGTGGATCC TACATACC	59.9	921	INTERGENIC	--	--	--
Ca6_P3_7985102	Ca6	7985102	TTT/TTTAATT	TCAACAGGATTGCCAA CTG	CACACCACCAACGTT GAAG	59.7	473	INTRON	Ca_09577	G	--
Ca6_P3_7997168	Ca6	7997168	AAAAAATTAT/AAAAAATTATGAAAAATT AT	GCTTGCATTCACTCAG ACCA	GACACATGGTTGCACG ATTG	60.0	625	INTERGENIC	--	--	--
Ca6_P3_8022121	Ca6	8022121	TAATTAAAAATTAAAAAT/TAATTAAAA TTAAAAATTAAAAAT	TTTGTTCGATGGCT CATA	TGTTTTCCGAGCGTA CACA	60.2	818	INTERGENIC	--	--	--
Ca6_P3_8045263	Ca6	8045263	ATTTTTTTTT/ATTTTTTTTTTT	TGCGAATCTTCTCTTC AACA	TTTTCCCCCACTAATTG CAT	58.6	492	INTERGENIC	--	--	--
Ca6_P3_8087365	Ca6	8087365	ATAATTAA/ATAA	CGTTCAACTGAAATTG CCA	ATCCACACTCCAGCC TGAT	59.7	450	INTRON	Ca_09562	S	CAMTA
Ca6_P3_8108556	Ca6	8108556	ATTTTTTTTTTT/ATTTTTTTTTTT	GCGCGAAAGAATAACC AAAA	CCTCTAGGTGGCCAAA CAAA	60.2	353	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 (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
Ca6_P3_8109504	Ca6	8109504	CTTTTTTTTT/CTTTTTTTTT	TTTTTCTCGGAAATTGT TCTTAAA	TTTGAAAATAAGAGG TGGCA	58.5	794	INTERGENIC	--	--	--
Ca6_P3_8174663	Ca6	8174663	ATT/ATTTT	TGACCTGACTTATTTCC ACCC	GAGTGGTGAGCATGC GTTTA	58.9	302	DRR	Ca_09552	K	--
Ca6_P3_8240133	Ca6	8240133	ATTTTTTTT/ATTTTTTTTT	ATCTTCCCCTATTCGTT GGA	GCTAGAAGTGCAAGAG CCCA	58.5	575	INTERGENIC	--	--	--
Ca6_P3_8254638	Ca6	8254638	TTATATATATATATATATATATATA TA/TTATATATATATATATATATAT ATATATATATATA	TGTACCGGAAACTAT GTTGC	TTGTGACGATTCTCCG TTGA	57.7	810	INTERGENIC	--	--	--
Ca6_P3_8259286	Ca6	8259286	CATATATATATATATATATATA/CATA TATATATATATATATATATATA	GGAACCATGGGTGCTT TTTA	GACATCGGGAAGTGAC AACA	59.8	610	INTRON	Ca_09544	T	YABBY
Ca6_P3_8313713	Ca6	8313713	GTTTTTTTTT/GTTTTTTTTTTT	TTTGACAATCTCATGTT TTGCAG	GGGTCAAAAAGTGTC AGGT	60.2	730	INTERGENIC	--	--	--
Ca6_P3_8364911	Ca6	8364911	CATATATATATATATAT/CATATATATAT ATAT	ACCGATGCACCGTTAG ATTG	CGAATGGTGCGGATCT CTTA	60.0	612	DRR	Ca_09538	K	HD-ZIP
Ca6_P3_8395678	Ca6	8395678	AATATATATATATATA/AATATATATATA TATATATA	AACAAGACAAGGTGGG AACG	CACACATGCTTATGAA CCCG	60.0	369	INTERGENIC	--	--	--
Ca6_P3_8410500	Ca6	8410500	CAA/CA	AATCGATTGATTCAGCC CAG	TAATGCCCGTTTTC AAAG	60.0	795	INTERGENIC	--	--	--
Ca6_P3_850916	Ca6	850916	TCC/TCCC	AATCAAGTGCAAAAGT GGGG	ACCACACCATATCCA GCAT	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
Ca6_P3_8539955	Ca6	8539955	CTGT/C	ATGCCAAGCTCTCTGC GTAT	TATGCAGGATGCAAAA TGGA	60.0	431	INTERGENIC	--	--	--
Ca6_P3_8705473	Ca6	8705473	AAGAGAGAGAGAG/AAGAGAGAGAG	GCTTGTGGGGATGTTA AACC	GAAGGGAATGAAATGC GAAA	59.3	492	INTERGENIC	--	--	--
Ca6_P3_8746520	Ca6	8746520	TAAAAAAAAA/TAAAAAAAAA	GCGGTGATGCCAGTTA GAAT	GGGAATGGTTTGCAAT TGAC	60.1	627	DRR	Ca_16759	--	HD-ZIP
Ca6_P3_8796967	Ca6	8796967	A/AG	GCCAAACAATAGTTGAA ACCAA	AACGTTACGCATGAAC CTCC	59.0	588	INTRON	Ca_16754	E	--
Ca6_P3_8816206	Ca6	8816206	TAAAAAAAAA/TAAAAAAAAA	AAAAACAACCGCAAAA TGC	ACGCGCTGATAAATAT TCCG	60.0	699	DRR	Ca_16752	--	--
Ca6_P3_8834153	Ca6	8834153	ATTTTTTTTT/ATTTTTTTTT	TTGCAGATTTTGGAGAA GTTCA	TTTGGTGGGTGATAGG CAAT	57.7	401	INTERGENIC	--	--	--
Ca6_P3_8877553	Ca6	8877553	ATTTTTTTTT/ATTTTTTTTT	CATAATGGGAAGCTGT TGCC	TGACACATCTATTCAAC CGCA	60.5	353	INTERGENIC	--	--	--
Ca6_P3_8923181	Ca6	8923181	TAAAAAAAAA/TAAAAAAAAA	AAAATTCAAGAGGTTGG CCA	TTTTATTCCTTCCCAA GCC	59.7	546	INTERGENIC	--	--	--
Ca6_P3_8924425	Ca6	8924425	AATATATATATATATATATA/AATA TATATATATATATATATATA	ATTTGGCATATTCTCGG TCG	TTCATGGGTCTTGCAAT TTGA	59.9	419	INTERGENIC	--	--	--
Ca6_P3_9014214	Ca6	9014214	CA/CAA	TACTGGGGTGTCTGGT GTGA	AGCTGCACGCAGACTG TAAA	60.0	441	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
Ca6_P3_9035166	Ca6	9035166	ATTTTTTTT/ATTTTTTTT	CCATCATATTTTGAAC CCCTT	AAGGCATAGACTACAT TTGGCA	59.1	597	DRR	Ca_16737	--	--
Ca6_P3_9060428	Ca6	9060428	TTATAAAACATATAAAA/TTATAAAA	AAAGTACAATGAGTCAA ACAATTATCC	ATATGCTTCACTTGCC CCAC	58.2	555	DRR	Ca_16733	E	--
Ca6_P3_9091565	Ca6	9091565	GTTATTATTATTATTATTACTAT TATTATTACTATTATTATTGTTATTA TTATTATTATTATT/GTTATTATTATTAT TATTATTATTACTATTATTACTA TTATTATTATTGTTATTATTATTATT	CTGAGCTCGAGGAAGC AGAT	GGCCGAAAATGATGTG AAAT	59.9	564	INTERGENIC	--	--	--
Ca6_P3_9101782	Ca6	9101782	G/GCCA	TTGATAACTTGAAAATG AAATGAAA	GTTTGATCGGAGCAA CCAT	57.1	521	INTERGENIC	--	--	--
Ca6_P3_9128509	Ca6	9128509	CTTTTTTTTT/CTTTTTTTTTT	AAACACCAAAGGTGAG GCAC	TTTGC GTTACGAATT GATGA	60.0	411	INTERGENIC	--	--	--
Ca6_P3_9140484	Ca6	9140484	TAA/TAAA	TGTTTCATTTTTAAATG CGTCG	TCTACCCAGGCCACT GTAG	60.0	476	DRR	Ca_08683	E	--
Ca6_P3_9203559	Ca6	9203559	GAA/GTTATATTAA	TCGTGAAATAGTGGAC GGTG	TGAACATCAAAATGCC CAAA	59.6	763	DRR	Ca_08676	OT	--
Ca6_P3_9269804	Ca6	9269804	GGCGC/GGC	TATTGTGCAAAGCTCAG GGA	GGGGATAAAGTCCTTC CTGC	59.4	292	INTRON	Ca_08672	--	--
Ca6_P3_9279949	Ca6	9279949	TA/T	AGTTTAGGCGTGCGGT TTTT	GGATTTTGGGGATGTT TGAA	61.0	826	INTERGENIC	--	--	--
Ca6_P3_9369260	Ca6	9369260	ATTTTTTTTTTT/ATTTTTTTTTTTT	TGCGATTAGTTGGTCC CTTC	TTTGCGATGTTAATTG CCA	60.1	856	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 (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
Ca6_P3_9403873	Ca6	9403873	AATATATATATATA/AATATATATATA TATATATA	TTTGTGCGCAATGATAG TTTGA	TAGCGTTCCGAATCTT TCGT	58.4	891	INTERGENIC	--	--	--
Ca6_P3_9507466	Ca6	9507466	TTAATAATAATAATAATAATAATAA TAATAATAATA/TTAATAATAATAATAAT AATAATAATAATAATAATAATAA	GGTCATTGGACCCTA GGAA	TTACGCAGATTGCTG TTTTT	58.8	592	INTERGENIC	--	--	--
Ca6_P3_9579497	Ca6	9579497	C/CCGA	GATCGATTGATGTATCC GCA	TTTTTCAATGGTTTAA CTCGC	59.5	607	INTERGENIC	--	--	--
Ca6_P3_9623905	Ca6	9623905	CT/C	TCCAAAAACGTCAAACG ACA	AAAAACAAATCCATG CCG	60.1	599	INTERGENIC	--	--	--
Ca6_P3_9640750	Ca6	9640750	CAAAAAAAAA/CAAAAAAAAA	CACACACAATTACATG GCA	TTAAACCAAGTCCGAGT TGGG	60.0	564	INTERGENIC	--	--	--
Ca6_P3_9666045	Ca6	9666045	CTATGATATTGGTGTGAATTATGATAT TGGTGTGAATTAT/CTATGATATTGGTG TGAATTAT	TATAAGGGAGGATGGG GCTC	TGCATGTTGTCCTTCC AAAA	60.2	656	INTERGENIC	--	--	--
Ca6_P3_9740823	Ca6	9740823	GGT/GGTGATGGTGT	TATCCAGCAAGAATCTG CCC	ACCCGCACCGTGATAT AAAA	60.2	205	INTERGENIC	--	--	--
Ca6_P3_9873238	Ca6	9873238	GTTCAAC/GTTCAACTTCAAC	AACTGTGGAACCAGAC AGGG	AACATCGACCGGATTT AACG	60.0	544	INTRON	Ca_08602	F	--
Ca6_P3_9884658	Ca6	9884658	AT/ATGT	GCCTTTGAGCGGTAAT GAAA	TCGGAAATTGGAGTC AAGC	60.2	716	INTERGENIC	--	--	--
Ca6_P3_9916884	Ca6	9916884	CTTT/CTTTT	GGTTGAAAGGTGAATT CCGA	TTTTCGCGTAGTGACG TGAG	59.9	524	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 (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
Ca6_P3_9998146	Ca6	9998146	AATATATATATATATATA/AATATATATA TATATATATA	AGTGCATGTTCCATGA CGTG	CTCACTTACCCTCGCT CCTG	60.6	116	INTERGENIC	--	--	--
Ca7_P3_10102297	Ca7	10102297	ATTTTTTTTTT/ATTTTTTTTTTT	ATCGGATACGCAACCG TACT	CATGCGGTACACACCA AAAA	59.5	375	INTERGENIC	--	--	--
Ca7_P3_10118295	Ca7	10118295	GAAAAAAAAA/GAAAAAAAAAAA	AGGCTGTCCGTTAGGG ACTT	AGTGTGGTCTGACCTG AGCC	60.1	526	INTERGENIC	--	--	--
Ca7_P3_1018603	Ca7	1018603	TAAAAAAA/TAAAAAAA	TTGCAACATGATAGCT GCC	GCGATCTTTACGGGA ACAA	59.8	254	INTERGENIC	--	--	--
Ca7_P3_1018745	Ca7	1018745	C/CT	TTGCAACATGATAGCT GCC	TTGTTGGCATTGTTGT GGTT	59.8	467	INTERGENIC	--	--	--
Ca7_P3_1018777	Ca7	1018777	ATTGCAT/ATTGCATATTGCAT	TTGTTCCCGTAAAAGAT CGC	TTGTTGGCATTGTTGT GGTT	60.1	233	INTERGENIC	--	--	--
Ca7_P3_10192729	Ca7	10192729	TTTTTTTCATATA/TTTTTTTCATATAAT GTTTTTTCATATA	CCCATTCCGAATACATT GCT	GAGTTGGGTGCACGAT TTTT	59.8	624	INTERGENIC	--	--	--
Ca7_P3_10231657	Ca7	10231657	TA/T	CTGATTTACAAGCGAA GCA	AGAAGAAAGCAAGCCA CCAA	60.1	309	CDS (FRAME SHIFT)	Ca_12785	V	--
Ca7_P3_10239926	Ca7	10239926	CATTATTATTATTATTATTATTATTA TTATTATTATT/CATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATT	TCATCCTCAACACAAG GTCG	CGGCAAAATATAAGGA ACACG	59.7	485	INTERGENIC	--	--	--
Ca7_P3_10240117	Ca7	10240117	ATTTTTTT/ATTTTTTTT	CCTCAGGATGCGACCA TCTA	CCAGCTTGAACAATGT TTCTT	61.2	687	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 (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
Ca7_P3_10240372	Ca7	10240372	CTTATTATTATTATTATTATTATTA/ CTTATTATTATTATTATTATTATTAT TATTATTA	CGTGTTCTTATATTT GCCG	AATCTCAAATGCCCC ACTT	59.5	629	INTERGENIC	--	--	--
Ca7_P3_10245354	Ca7	10245354	G/GATTTTACCAAGGTT	ACAGGGTCTGGTTGCA AGAT	GAATGGCCACTTTCTA CCCA	59.6	238	INTERGENIC	--	--	--
Ca7_P3_10291279	Ca7	10291279	GTTTTTTTTTTTT/GTTTTTTTTTTTT	TCTGCTGCTACTGCTC CTGA	GAAGTCTCCCTCAAC AAGC	60.0	480	INTRON	Ca_12791	--	--
Ca7_P3_10293605	Ca7	10293605	GTTT/GTT	CCACGGGAGCAAACCT TCTA	TTGGGAAGCTTAAGGA GCAA	60.2	721	DRR	Ca_12792	E	--
Ca7_P3_10337607	Ca7	10337607	AATATATATATATATATATATATAT ATATATA/AATATATATATATATATAT ATATATATATA	CACGGGCACCTGTAA GAAT	AAAGATGGGCTTGGTA CGTG	60.0	881	INTRON	Ca_12794	A	--
Ca7_P3_10357948	Ca7	10357948	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATATA TAT	GTGGTACTGGAGGCCA CATT	GAGACGAGTGTTGGG TGAAT	59.9	722	INTERGENIC	--	--	--
Ca7_P3_10371145	Ca7	10371145	ATTTTTTTTT/ATTTTTTTTT	TTATTGGTGGAGAAGA CGGC	CCCAAATAATTCGCC ACAT	60.1	346	INTERGENIC	--	--	--
Ca7_P3_1038892	Ca7	1038892	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATA TATATATATATAT	GTACGAGATGACGACG CCTT	ATGAATGCAGTTACGT GGCA	60.3	717	INTERGENIC	--	--	--
Ca7_P3_10398617	Ca7	10398617	AATATATATATATATATA/AATATATA TATATATATATATA	TATTGAAACAAACGCAC CCA	TTGCACTCACTCCAAC GAAC	60.0	600	INTERGENIC	--	--	--
Ca7_P3_10399061	Ca7	10399061	TAAAAAAAAA/TAAAAAAAAA	CAAAACAAATCATCTCGT GCAA	AGGGGGCTTACCTAGT TGGA	59.7	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
Ca7_P3_10433773	Ca7	10433773	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TACAACTTTTGCAATGG GCA	TGACCATCCAAATCGA ATCA	60.1	498	INTERGENIC	--	--	--
Ca7_P3_10568493	Ca7	10568493	TTATATATATATATATATATATATATAT T/TTATATATATATATATATATATATAT	ACGATGGAGGCCAAAG TATG	AAAATAAGGCATGGTG TTGGA	60.0	487	INTERGENIC	--	--	--
Ca7_P3_10592238	Ca7	10592238	TTTTATT/TTTTATTGATTTATT	ACTGTCAGGAAGGAAC GGTG	GTCCACTGTGCCACAT CATC	60.2	569	INTERGENIC	--	--	--
Ca7_P3_10667777	Ca7	10667777	TA/T	AAACGTCATAGCAAATA GATGAAA	ACTCACTAGGCAACCG CAAT	57.2	713	INTERGENIC	--	--	--
Ca7_P3_10682834	Ca7	10682834	TTATATATATATATATAT/TTATATAT ATATATATAT	CAATGCTACCTCTTGCC GAT	AAAGGGCCCGTTATA AAAA	60.2	514	INTERGENIC	--	--	--
Ca7_P3_10740094	Ca7	10740094	TAAAAATTT/TAAAAATTTTAAAAAATT T	TTTTTGCATTGCCACTT CTG	TTCTGATTTAAATTCCA ACTTGTGAG	59.8	492	INTERGENIC	--	--	--
Ca7_P3_10783409	Ca7	10783409	ATTTTTT/ATTTTTTTT	GGAGGGAGAACTTTTA AGAGAGAAA	GTCCATTTCCAGTGG CTGT	59.8	454	INTERGENIC	--	--	--
Ca7_P3_10821468	Ca7	10821468	AAATAATAATAATAATAATAATAAT AATAATAAT/AAATAATAATAATAATAAT AATAATAATAATAATAATAAT	ACGTGACGTGGATGGG TTAT	TTTCGTCGTCTCAAT CGAA	60.1	816	INTERGENIC	--	--	--
Ca7_P3_10843337	Ca7	10843337	TTTATTATTATTATTATTATTATTAT TA/TTTATTATTATTATTATTATTATT A	CCAAAAATCAGCCGGA TCTA	AACAGACCCGCAGTTT TGAG	60.0	626	INTERGENIC	--	--	--
Ca7_P3_10850624	Ca7	10850624	ATTTTTTTTTT/ATTTTTTTTTTTT	GCATTCAATTAAGTGCT CCCA	GGCAGTTTTGTCTCCT TCCA	60.1	552	DRR	Ca_12839	R	SBP

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 (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
Ca7_P3_10863846	Ca7	10863846	TGGGGGGGG/TGGGGGGG	GGACAGGGAAGAGGAA AAGG	ACAACCTACAACAGTC CCCG	60.0	466	INTERGENIC	--	--	--
Ca7_P3_10867933	Ca7	10867933	TA/T	GCAGCTGAGCTTGCAC ATAG	CATTGCGAACACATTG ATCC	59.9	369	DRR	Ca_12841	--	Dof
Ca7_P3_10914028	Ca7	10914028	G/GTTTACGGT	TGGTTGGGCTAATCCT TCTTT	GGTGATAAGGTGATTG CATCC	60.0	139	DRR	Ca_12848	--	--
Ca7_P3_10982487	Ca7	10982487	ACTCTCTCTC/ACTCTC	TGGACCGTAGAAAACC GTTC	GCCCTTCGATTTTTA GAGC	60.0	325	INTERGENIC	--	--	--
Ca7_P3_11004650	Ca7	11004650	T/TC	CGCAATCCAAGAAAAG AAGC	GCTACAAGTGTGCGT TGGA	60.0	910	INTERGENIC	--	--	--
Ca7_P3_11061823	Ca7	11061823	CAAAAAAAAA/CAAAAAAAAA	ACTCGGGTGATGATTG AACC	TCACCGTCTATACAT GTCTCC	59.8	250	INTERGENIC	--	--	--
Ca7_P3_11073789	Ca7	11073789	CTTTTTTTTT/CTTTTTTTTT	TTGCAGCATCAACTAG GCAC	CCTCTCCAAATCGCT ACAA	60.0	649	INTERGENIC	--	--	--
Ca7_P3_11082142	Ca7	11082142	TTATATATATATATATATATA/TTATA TATATATATATATATA	GCCCGAAATAGCTTTC CTTC	GACGTGGCACAGTCTA ATGC	60.2	671	INTERGENIC	--	--	--
Ca7_P3_11083612	Ca7	11083612	TAAAAAAAA/AAAAAAAA	ACTGTTTGTGCATCAAC CTGA	TTTTTAGGCAGGTGGA CATATT	58.0	702	INTERGENIC	--	--	--
Ca7_P3_11332314	Ca7	11332314	AATATATATATATATA/AATATATATA TATATATATATA	AACCCAAGTTCCAAATG ACG	ACCCAAGAGAGGTGC GACTA	59.8	569	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
Ca7_P3_11382209	Ca7	11382209	ATTTTTTTTT/ATTTTTTTTTT	TGTGCTACTTGCCATG CTCT	CGACCGACTCACTTT CCAT	59.6	826	INTERGENIC	--	--	--
Ca7_P3_11401602	Ca7	11401602	TATAATAATAATAATAATAATAAT/ ATAATAATAATAATAATAATAATAA T	GTGGAGAATTGTCGGG CTAA	CCTTAGACCGTTCTG GACA	60.1	585	INTERGENIC	--	--	--
Ca7_P3_11436682	Ca7	11436682	CAATAATAATAATAATAATAATAAT AATAATAATAATA/CAATAATAATAA TAATAATAATAATAATAATAATAAT A	TGTGCGTTTTAGAGTG CAATG	AATGTCACCAAGGCC AAAG	59.9	578	INTERGENIC	--	--	--
Ca7_P3_11511673	Ca7	11511673	C/CCCGCGAACTT	TGACCCTAAGAACCCA CCAG	GGATGGGGTAAACATT GTCC	60.0	514	INTERGENIC	--	--	--
Ca7_P3_11603131	Ca7	11603131	TA/TATAGA	CACACGAGGAGGGATC AAAT	TGCTGTCATCGCTTTG TTTT	59.9	682	INTERGENIC	--	--	--
Ca7_P3_11616012	Ca7	11616012	TC/T	CCTAACAGTTTAGCAG GCCG	GCCTGGGTCAATTGC TTTA	59.9	871	DRR	Ca_09338	--	--
Ca7_P3_11647837	Ca7	11647837	GATTTTATTTT/GATTTTATTTAATTT ATTTT	GCACCAAACAAGAAGG GAAA	GGAGATTCTGTGCGCAT ATTT	60.1	166	INTERGENIC	--	--	--
Ca7_P3_11655384	Ca7	11655384	CTTTTTTTTT/CTTTTTTTTT	GTGCATGGTGAATGG ACTT	TATGTGGACTGCCACG TGTT	60.8	758	DRR	Ca_09334	TDK	C3H
Ca7_P3_11665923	Ca7	11665923	GTATATATATATATA/GTATATATATA TATATATA	ACCAAACGAGAGAGCC TCAA	CCCAAGAAACGAAAAC GAAA	60.0	426	INTERGENIC	--	--	--
Ca7_P3_11692112	Ca7	11692112	CTATATATATATATATATATATAT/ CTATATATATATATATATATATATA TATATATATAT	GTGGAAAAGGAAGTCG CAAG	GCTGAAGACAGTATG CGAA	59.9	872	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 (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
Ca7_P3_11697587	Ca7	11697587	ATAAATCGCTAA/ATAA	GGCTATCGCTTATGCA GGAC	TTCAGCGATTATTCAA CGATTT	59.8	709	DRR	Ca_09328	--	SAP
Ca7_P3_11722297	Ca7	11722297	CCTCTCTCTCTCTCTCTCTCT/CCTC TCTCTCTCTCTCTCTCTCTCT	TTGGCATAATCAGCGT CAAA	TGGAGGAGATGATTTG GGAG	60.2	312	INTERGENIC	--	--	--
Ca7_P3_11747378	Ca7	11747378	AAAAAT/AAAAATAATTAAAAAT	TCTCTCTGGGAGTGCG ACTT	ACTTCGTCACCATCG ATCA	60.1	439	INTERGENIC	--	--	--
Ca7_P3_11747910	Ca7	11747910	GTATTATTATTATTATTATTATT/GT ATTATTATTATTATTATTATTATTAT T	CAATTGATCGATGGTT GACG	TGTGCCACCCCTTTT AGAG	59.9	704	INTERGENIC	--	--	--
Ca7_P3_11829063	Ca7	11829063	AATATATATATATATATATATA/AATA TATATATATATATATATATATATA	ACATGTAGCCTGGCCT ATGG	TTTCCATTGCACTCACT CCA	60.0	764	INTERGENIC	--	--	--
Ca7_P3_11835682	Ca7	11835682	CATATATATATATATATATATA/CATATA TATATATATATATATATA	GTCTCACCAGCAGCAA CAAA	TTTTTGGCCGATGAGT ACCT	60.0	485	INTERGENIC	--	--	--
Ca7_P3_11930884	Ca7	11930884	TAAAAAAAA/TAAAAAAAAA	TGGACATAAATAATTGT CATGTGTG	TTGAAGAGGGTCCAA AATG	59.9	726	INTERGENIC	--	--	--
Ca7_P3_12003043	Ca7	12003043	TT/TTTAT	GATGGCAAAGACACAC ATGG	CGGTTGTGAGCATTGG ACTA	60.0	884	INTERGENIC	--	--	--
Ca7_P3_12204671	Ca7	12204671	ATTTTTTTTT/ATTTTTTTTT	GCTTGGTTGGATAGCG AGAG	CACCTCAGCTACCGTT CACA	60.0	730	INTERGENIC	--	--	--
Ca7_P3_12291336	Ca7	12291336	TATAATAATAATAATAATAATAATA ATAATAATAAT/TATAATAATAATAATA TAATAATAATAATAATAATAATAAT	TAAAGCCAACAACCACA CCA	TTTTTCCCATGTTTC CG	60.0	523	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
Ca7_P3_12365777	Ca7	12365777	TTATATATATATATATATAT/TTATATAT ATATATATATATATAT	TTCTGGGAACAGATTTT GGAG	TTCAAAAGAATCGGAG GAAGA	60.0	434	INTRON	Ca_09277	K	HSF
Ca7_P3_12368556	Ca7	12368556	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	TTTGTTTGTGTGCGG TGT	TCGAACGGAGGCTCTA AAAA	60.1	727	DRR	Ca_09277	K	HSF
Ca7_P3_12425707	Ca7	12425707	ATTTTTTT/ATTTTTTTT	GGTTCTGGTTCAAAGG TGGA	CATGAAAAATATTTATG CAACACACA	59.9	212	INTERGENIC	--	--	--
Ca7_P3_12447118	Ca7	12447118	TAAAAAAAA/TAAAAAAAA	TTTGTCCTCGAGTTCGA ATGT	ATAAGGGGCAGCCTTA GGAA	60.5	301	INTERGENIC	--	--	--
Ca7_P3_1245279	Ca7	1245279	A/AATTTTCAT	TGCACAAAACACACAAC CCT	TCGCTCTGTGTCAGT TTTG	60.0	468	INTERGENIC	--	--	--
Ca7_P3_12465968	Ca7	12465968	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATA TATATATATATAT	TTATGAACCTCGGTTGCT TCG	CAGATGTGAGTCAGTC CGAGA	58.9	331	DRR	Ca_09270	--	--
Ca7_P3_12483013	Ca7	12483013	G/GA	GCGCAAACTGCAAAGT CATA	CCTTTTCGGACAGGAA ATCA	60.0	723	DRR	Ca_09268	R	bHLH
Ca7_P3_12522504	Ca7	12522504	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	GTCCAATTTGCTGTGT GGTG	TCAAAGCATTGTCGG ATGA	60.0	374	INTERGENIC	--	--	--
Ca7_P3_12539752	Ca7	12539752	TTTTATTTA/TTTTATTTTATTTATTTA	TCCTACTGAAGTCGTG GCCT	TGCATTTTACCAACAT CGT	59.9	596	INTERGENIC	--	--	--
Ca7_P3_12601954	Ca7	12601954	ATCTCTCTCTCTCTCTCTCTCTCT/A TCTCTCTCTCTCTCTCTCTCTCT	GAGATGGGTGCGACGT TATT	AGCATGCTTTGAAAGG GGTA	60.0	193	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 (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
Ca7_P3_1267304	Ca7	1267304	TAAAAAAAAA/TAAAAAAAAA	AGATGCATCCAAATG GGAG	TTCTTGGACTTTCGT GTTTG	59.9	361	INTERGENIC	--	--	--
Ca7_P3_1267778	Ca7	1267778	GAAAAAAAAA/GAAAAAAAAA	ATGGAGGAGGAATGT GACC	ATTACCTTTGCGGCC TATT	58.8	576	INTERGENIC	--	--	--
Ca7_P3_12691360	Ca7	12691360	CAAAATCATTTT/CAAAATCATTTTAT TAAAAAATCATTTT	GTCAAGGCCTATGGT CAGA	TTTGTCATGGGATG GCTA	60.1	909	INTERGENIC	--	--	--
Ca7_P3_12748420	Ca7	12748420	TAAAAAAAAA/TAAAAAAAAA	TACTTTGTTGGATGGG AGCC	CTTGCTCCTCTCAG GTGG	59.9	421	INTRON	Ca_09244	T	YABBY
Ca7_P3_12758535	Ca7	12758535	ACC/AC	ATACCCAGAATTTGCGT TGC	AATGATCATGTGCCTC ACCA	60.0	851	INTERGENIC	--	--	--
Ca7_P3_1277335	Ca7	1277335	CTTTTTTTTT/CTTTTTTTTT	CACGATAGTGGGGAGC AACT	TAACCGTGGGATCCAC AAAT	60.1	553	INTERGENIC	--	--	--
Ca7_P3_12809836	Ca7	12809836	AATATATATATATATATATATATAT /AATATATATATATATATATATATA TATATAT	TTATTCTCCACACAAG CCC	CGTTCTTGAGCCGATC TACC	59.9	857	DRR	Ca_09238	--	Dof
Ca7_P3_12844900	Ca7	12844900	CTTATTTTATTTTATTTTATTTTAT TTTTATTTTATTTTATTTTAT/CTTATT TTTATTTTATTTTATTTTATTTTAT TTTTA	TGCTCTTCAAAAGTAAT TGTTCC	AGATCGACTGCTCCCA AATG	57.6	458	INTRON	Ca_09236	--	--
Ca7_P3_12854739	Ca7	12854739	CATATATATATATAT/CATATATATAT ATATATAT	GAACATGCACTTGCTCT CCA	TCTTTTATCCCATTTTC TCACA	60.0	426	INTERGENIC	--	--	--
Ca7_P3_13037732	Ca7	13037732	TA/TAA	AAATGTGCTGATCGGG TTTC	GGCCGATACGATAATG GGTA	59.9	715	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 (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
Ca7_P3_1326824	Ca7	1326824	T/TA	TCCAAAAATGCACTCAA ATCA	ATGAGTGGGAGAACAT TGCC	59.1	715	INTERGENIC	--	--	--
Ca7_P3_13317205	Ca7	13317205	AAT/AATAT	CGAAATGACAATGGTG TTGC	AGAGCTGGCTTTTTG AACA	60.0	454	INTRON	Ca_16026	K	TALE
Ca7_P3_1339137	Ca7	1339137	ATTTTTTTTT/ATTTTTTTTTT	CTTCACAACCAGAGCA CCAA	TGCATTAAATTTTACGG AGAAACA	59.9	638	INTERGENIC	--	--	--
Ca7_P3_13454799	Ca7	13454799	AT/A	GGCTCTTAACCTTGTC GTCG	TGGTTCTATCACTTTG GGGC	59.7	868	INTERGENIC	--	--	--
Ca7_P3_13555513	Ca7	13555513	C/CGTAAT	TTTCTAATCAGTGGCT GGTC	TCAACGAGCATGTGGA AAAG	59.2	554	DRR	Ca_16040	--	bZIP
Ca7_P3_13588964	Ca7	13588964	AATATATATATATATAT/AATATATATAT ATATATAT	AAATCGATGAATGGGT GGAG	AGAAACGTGCGGTGTC TCTT	59.8	561	INTERGENIC	--	--	--
Ca7_P3_13651611	Ca7	13651611	GGATGATGATGA/GGATGA	GGGTTTCATGTTGCTC CTGT	TCCATCAATCTCCCCT TCAG	60.0	294	CDS (large-effect mutations)	Ca_16047	DR	--
Ca7_P3_13712605	Ca7	13712605	AAATAATAATAATAATAATAATAAT AATAATAA/AAATAATAATAATAATA ATAA	TTGTCTCGAGTTTGAAC CCA	GGATGCCAATGGGTGA AGTG	59.3	476	INTERGENIC	--	--	--
Ca7_P3_13811117	Ca7	13811117	CTTTTTTTTT/CTTTTTTTTTT	TGGTCTCATCCACATGA TGC	TGCTTGCTCGTTATTT TGA	60.5	648	INTERGENIC	--	--	--
Ca7_P3_13825459	Ca7	13825459	AT/ATT	GGATGCCTGAATTCTT CCA	AATGTTGGGGATGCTC TCGT	60.0	483	CDS (FRAME SHIFT)	Ca_16059	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 (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
Ca7_P3_13891702	Ca7	13891702	CTATATATATATATAT/CTATATATAT ATATATATAT	TGCCTTTTACTCTTGGT GGG	GAGTGGGATTTTGGAG GTGA	60.1	596	INTERGENIC	--	--	--
Ca7_P3_13909902	Ca7	13909902	AATATATATATATATATA/AATATATATA TATATATATATA	TCGTCATTTGAAACAGC GAC	GAAAACTTCGGCAATG TGGT	59.8	611	INTERGENIC	--	--	--
Ca7_P3_14008662	Ca7	14008662	A/AC	TGTTCAAACACGCAAAAC AAG	GTTGCGCTCTCGTAGC TCTT	58.4	441	INTERGENIC	--	--	--
Ca7_P3_14026857	Ca7	14026857	GAAAAA/GAAAA	TACAAATTGGATGCGG TTGA	TCTTCCACCCAGTTTT CACC	59.9	233	INTERGENIC	--	--	--
Ca7_P3_14062165	Ca7	14062165	GATATATATATATATATATATATATA TAT/GATATATATATATATATATATAT ATATATATATAT	AAGAGCGGTGTTGGAG TCAT	CGGAAACAAACGGACA ATCT	59.7	231	INTERGENIC	--	--	--
Ca7_P3_14075293	Ca7	14075293	CATATATATATATATAT/CATATATATAT ATAT	TTTGTTTAGCCACAAC TTTGA	CGTGCTCGGGATTAT TTGT	57.6	862	INTERGENIC	--	--	--
Ca7_P3_14141705	Ca7	14141705	T/TG	CCTTGCTACGAATCCG ATGT	CCGGAGATTGCAGAAT TTGT	60.1	571	INTERGENIC	--	--	--
Ca7_P3_14198908	Ca7	14198908	GTAATAAATAATAAATAATAATAATA ATAAT/GTAATAAATAATAAATAATAAT AAT	TAGCCCCACCTGGACT ATTG	TCATCCAACACTTCAA CCCTT	59.9	413	DRR	Ca_23036	J	--
Ca7_P3_14226740	Ca7	14226740	CAAAAAAAAA/CAAAAAAAAA	CGTCATTGCAAAAAGA GACG	CATATTGGAATCCCGT TGCT	59.5	220	INTERGENIC	--	--	--
Ca7_P3_14235712	Ca7	14235712	ATGTTGTTGTTGTTGTTG/ATGTTGTT GTTGTTGTTGTTGTTGTT	CTTGGCTTTTGGTGT GGTT	TCACCAATCCACCTTG TTCA	60.0	423	CDS (large-effect mutations)	Ca_23041	--	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
Ca7_P3_1423751	Ca7	1423751	GTAATTAATTAA/GTAATTAATTAATTAA	CGAGCTTTAAGCCACC TTTG	GGATTCGACCCTTG CTTA	60.0	706	INTRON	Ca_03325	--	--
Ca7_P3_14255944	Ca7	14255944	AT/ATT	CGTCTTGTTGCATTGTT CGT	CAAATTGTTTCTCATA CCGCA	59.8	519	INTERGENIC	--	--	--
Ca7_P3_14311103	Ca7	14311103	AA/AACA	GAGGGCCAAATTCAC TCAA	CCAATTCCTCCCTGCA TTTA	60.1	541	INTERGENIC	--	--	--
Ca7_P3_14350409	Ca7	14350409	CGA/CGAAGA	CGTCAAAAAGAGACGA CACAA	ATATATACGCTCCGCC CAAC	59.0	180	INTERGENIC	--	--	--
Ca7_P3_14411410	Ca7	14411410	AATTATTATTATTATTATTATTAT T/AATTATTATTATTATTATTAT	TCGTTCTTCAGGAAG TCGT	TGGGGTCATTAGGTG GACA	59.8	733	INTERGENIC	--	--	--
Ca7_P3_14443370	Ca7	14443370	ACC/ACCC	CCGGAAGAACATTCAA AGGA	GCTATGTTCCGATTGC CATT	60.0	352	INTERGENIC	--	--	--
Ca7_P3_14469399	Ca7	14469399	ACTCTCTCTCTCTCTCTCTCTCTCT CT/ACTCTCTCTCTCTCTCTCTCTCT CT	ATCGTTTACGCGAATAT GCC	CTCAGTGTGAAGCCTC CTCC	60.0	774	CDS (FRAME SHIFT)	Ca_09992	KT	DBB
Ca7_P3_14691767	Ca7	14691767	ATCTTCTTCTTCTC/ATCTTCTTC	GCATTCACCTTTGGCAT GTG	AAGGTGTTGGAACCAA GTTGA	60.3	715	INTERGENIC	--	--	--
Ca7_P3_14761486	Ca7	14761486	TC/T	GAAGCCGCAACACATG ACTA	TGCTCACAGCTTGTC CGTC	59.9	678	DRR	Ca_09972	QR	B3
Ca7_P3_14896597	Ca7	14896597	CTTTTTTTTT/CTTTTTTTTTT	TCTTTTGAGGGGTAA CGGA	AAGCATCCGCTTTT ACCA	59.5	351	DRR	Ca_09961	P	--

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
Ca7_P3_14912277	Ca7	14912277	C/CCCCATTT	GGA CTGGATCCGACTT TGAA	TCCCTTTTCGTTGTTT CAG	60.1	624	INTERGENIC	--	--	--
Ca7_P3_14948950	Ca7	14948950	ATAGTTAGTTAGTTAGTTAGTT/ATAGT TAGTTAGTTAGTTAGTTAGTT	AAAAAGCCTTACAGCC CCAT	GTCCAAGTTTGACAGC CACA	60.0	685	INTRON	Ca_09958	--	bZIP
Ca7_P3_14992578	Ca7	14992578	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	GACTTGCAACGAAG CAAA	GCCCTATTTAATGCAG GCAA	60.0	345	INTRON	Ca_09954	A	--
Ca7_P3_15071788	Ca7	15071788	A/AAAAT	GGGGTGTGAATAGCTA CCGA	TAGCCACGGCCCTAGT ATTG	60.0	201	DRR	Ca_09947	--	--
Ca7_P3_15083591	Ca7	15083591	ATAATA/ATAATATTAATA	TAGTAGGTTGTTGGCC GAGG	CACCCGAAGAGCATCA ATTT	60.1	433	INTERGENIC	--	--	--
Ca7_P3_15131960	Ca7	15131960	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	ACCCAAATCCAAATGA GCA	GTTCCAAATGACGACT TCCC	60.3	520	INTERGENIC	--	--	--
Ca7_P3_15401109	Ca7	15401109	ATTTTTT/ATTTTT	CCCATAACCGAAGCTT CAAA	GAAAACGATTTAAAGA ATCAACTTCC	60.1	771	INTERGENIC	--	--	--
Ca7_P3_15418326	Ca7	15418326	AATATATATATATATATAT/AATATAT ATATATATATATATATAT	CAGGGAAGCGATCAC CTAA	CCGAAATAACCGCAAC TTGT	60.2	551	DRR	Ca_09919	R	FAR1
Ca7_P3_15467222	Ca7	15467222	TTTATTATTATTATTATTATTATTAT TATTATTATTAT/TTTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTAT	TGGGAAACGGTGCTAA ACTT	TCCATTACGGCAAAT TCAA	59.6	716	INTERGENIC	--	--	--
Ca7_P3_15507861	Ca7	15507861	AAT/AATGAT	AACACACTCCCTCCCT CCAT	CCACCAGCCTTCCTA ATTT	60.8	653	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 (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
Ca7_P3_15562093	Ca7	15562093	GAAAATAA/GAA	AATACACCACCTTCCAC CCA	TTTTTAAGGGATCCGA CGTG	60.1	161	INTERGENIC	--	--	--
Ca7_P3_15653714	Ca7	15653714	CTTTTT/CTTTTTTT	TTTCTTGCAAGGGTAAT TTGC	GCTTGTTGGCCGACT TAAT	59.2	641	INTERGENIC	--	--	--
Ca7_P3_15731042	Ca7	15731042	CAAAAAA/CAAAAAAA	TCAAAGGTGAGGAAAC TGCC	TGTACACCCAACGTGG ATCA	60.2	451	DRR	Ca_09898	A	--
Ca7_P3_15772403	Ca7	15772403	GTT/GTTATTATTATT	TCGACCATGTTTCACAG ACG	TGTTGATATTTTGTGT GTGCG	60.7	122	INTERGENIC	--	--	--
Ca7_P3_15841363	Ca7	15841363	GC/GTGATC	CTTTCGGAAGTTCAGG CAAC	GGTGCTGTCTCGGATG AAAT	59.9	415	INTERGENIC	--	--	--
Ca7_P3_16001405	Ca7	16001405	AATTATTATTATTATTATTATAT/ ATTATTATTATTATTATTATTATAT	AAAACACAACGTGCAAA CGA	GGGTCACCAAGCACAG TTTT	60.2	679	INTERGENIC	--	--	--
Ca7_P3_16038352	Ca7	16038352	AATATATATATATATATATAT/AAAT ATATATATATATATAT	CACGCGGGATATTCTT CATT	AATGCTTTTGCCTGT TGG	59.9	612	INTERGENIC	--	--	--
Ca7_P3_16051093	Ca7	16051093	TAA/TAAA	TGGTTCGTCGGATATG TGAA	TTGAGTTCACGTACGC GTTT	59.9	600	INTERGENIC	--	--	--
Ca7_P3_16104383	Ca7	16104383	CATATATATATATATATATATATAT/ CATATATATATATATATATATATAT ATATA	GGTGATTGCCAGCAAC TGTA	GAGGGGAGAAGTGTC ATGGA	59.7	608	INTERGENIC	--	--	--
Ca7_P3_16126431	Ca7	16126431	TAAAAAAAAA/TAAAAAAAAA	TCACTATTCATGCAAC CGC	TTTGAAGATTTCGCTTA CGA	59.7	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 (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
Ca7_P3_16190416	Ca7	16190416	GATATATATATATATATATATATAT/G ATATATATATATATATATATATATATA TAT	AACCTTTTGCCTAGCCT CAA	AAAAACCCAAAATGG GAAA	59.9	484	INTERGENIC	--	--	--
Ca7_P3_16191254	Ca7	16191254	ACCAT/A	TTTTCTTCTCCACCGC ATA	AAAAACGTTCTGCTTTT GTTGTC	60.6	456	INTERGENIC	--	--	--
Ca7_P3_16240640	Ca7	16240640	TCAACAACAA/TCAACAACAACAA	AACCCAAAGTTAGGGA TCCAA	CACCTCACGTAGAGGA CGCA	59.7	306	INTERGENIC	--	--	--
Ca7_P3_16251538	Ca7	16251538	ATTTTTTTTT/ATTTTTTTTTT	GGAGTCGATTATGCGT AGGG	TCAAACCACTCATTTT GGCT	59.6	394	INTERGENIC	--	--	--
Ca7_P3_16259772	Ca7	16259772	AT/ATATT	GGAAAGCAACTGTTGG GGTA	AAGAAGACTTTGTTTT GCAAGG	60.0	391	INTERGENIC	--	--	--
Ca7_P3_16297902	Ca7	16297902	ATTTTTTTTTTT/ATTTTTTTTTTTT	ACAGAGGTGTGTGTGG GTGA	CCTTCACCAGATGGAA GAACA	60.0	716	INTERGENIC	--	--	--
Ca7_P3_16349610	Ca7	16349610	CTTTTTTTTTT/CTTTTTTTTTT	GCAGTGCTGAATTTG GTGA	TTGGTTTCATGACTTG CATCT	59.8	740	INTERGENIC	--	--	--
Ca7_P3_16367679	Ca7	16367679	TTATTAT/TTATTATATTAT	AATGCATTGTCCCTA TCG	AACGACCCCACTTGAC ACTC	59.8	805	INTERGENIC	--	--	--
Ca7_P3_16438750	Ca7	16438750	A/ATAATAT	TCTCCGAGAAGTGGAT GCTT	CACCATAATTTTGATGT GCCA	60.0	580	INTERGENIC	--	--	--
Ca7_P3_16452686	Ca7	16452686	TTATATATATATATATAT/TTATATAT ATATATATATATAT	GCCGATCGCTGATTTA ATGT	ATTGAAAACCAACGAA CCAA	60.1	715	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 (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
Ca7_P3_1649022	Ca7	1649022	ATTTTT/ATTTT	CCTTAGTGATTGGAG GGCA	CGAGAAGGTCGTGAG GTAGC	60.1	564	INTERGENIC	--	--	--
Ca7_P3_16537182	Ca7	16537182	CTTTTTTTTT/CTTTTTTTTTTT	AGCGCTATAAAGTGGT GCGT	AAGCCTTCCACAACAA AGGA	59.9	795	INTERGENIC	--	--	--
Ca7_P3_16687870	Ca7	16687870	CTTTTTTTTTTTTT/CTTTTTTTTTTTTT	CCCGATCAAAACATTGA GACC	TTGCAAGAATGGTGTA ACAAGTG	60.3	773	INTERGENIC	--	--	--
Ca7_P3_16717763	Ca7	16717763	TCCCCC/TCCCCC	CTCTCTCCCCTCATTTT CCC	TCTTCAACAACAAAAGA ATTAGCAA	60.0	395	INTERGENIC	--	--	--
Ca7_P3_16923436	Ca7	16923436	G/GAAT	ATGATTTGAATCCTGGC AGC	GGGAAGGAACCGAGC TATTC	60.0	829	INTRON	Ca_15886	--	--
Ca7_P3_16941588	Ca7	16941588	TAAA/TAAAA	TGCCGTAGTATTCACCA CCA	TGCCATGAAATTCTGC CATA	60.0	852	INTERGENIC	--	--	--
Ca7_P3_16970821	Ca7	16970821	TTATATATATATATATATATA/TTATA TATATATATATATATA	CAAAGGAACATTGTGAT CGAA	CAAAGCCAAAACCAAC ATCA	58.6	742	INTERGENIC	--	--	--
Ca7_P3_17003791	Ca7	17003791	AATATATATATATATATATATATATAT ATATATATATATATATATATA/AATAT ATATATATATATATATATATATATATA TATA	GGTTCAAACCCAAGAC CTCA	AAGTTGCCATCTTGAA TCGG	59.9	660	INTRON	Ca_15881	--	--
Ca7_P3_17028658	Ca7	17028658	TAAAAAA/TAAAAAA	AGCTACCGAAAACTTC GCC	TGCCACTGATCTTTCT CGTG	60.7	249	INTRON	Ca_15881	--	--
Ca7_P3_17073394	Ca7	17073394	AATATATATATATATATATA/AATATA TATATATATATATATATATATATA	TCCTTAGCCAAAGAGC CAAA	GTGTGGGAACCTTGTT GCTT	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_17118683	Ca7	17118683	AAATAATAATAATAATAATAATAAT AA/AAATAATAATAATAATAATAATA ATAATAA	CATAGTCGTTTATCCGT TTGTCA	TTTGCCATCGCAAGTA AAAA	59.1	761	INTERGENIC	--	--	--
Ca7_P3_17133790	Ca7	17133790	ATTTTTTT/ATTTTTT	GACACTACCCGGCATC AAGT	CCAACCCAAATAAATG AAAATCA	60.0	530	INTERGENIC	--	--	--
Ca7_P3_17172621	Ca7	17172621	AATCATAT/AATCATATCATAT	GGCTAAACCTTGCTTT GGC	AGACTCTGCTTGACCG GAAA	58.8	541	INTERGENIC	--	--	--
Ca7_P3_17374590	Ca7	17374590	CTTTTTTTTTTT/CTTTTTTTTT	GCATCTGTAAACAAGA CCCG	ACATCGATAAGAGGCA GCGT	59.6	525	INTERGENIC	--	--	--
Ca7_P3_1746463	Ca7	1746463	ATTTTTTTTTT/ATTTTTTTTT	TCCTTCACGATATCCAA GGAC	GGGCAGGTTAAAGCCA CATA	59.0	463	INTERGENIC	--	--	--
Ca7_P3_17564589	Ca7	17564589	CTTTC/CTTCCACCTTTTTC	CAACAAAGGGAACGAA GGAA	TCAAGAAAAACCAAAG AGCCA	60.1	738	INTERGENIC	--	--	--
Ca7_P3_17596965	Ca7	17596965	GACTTAACTTAA/GACTTAA	CATCTATGCCACCTCCA CCT	GATCCAGAAGAAGGCT GCAC	60.0	789	INTRON	Ca_15849	--	--
Ca7_P3_17922655	Ca7	17922655	TGGGGGG/TGGGGG	AAGTCGAGTGCTTGAG CCAT	TCTTTGCGTGCGTGCT ATAC	60.0	606	DRR	Ca_15831	--	bHLH
Ca7_P3_17949907	Ca7	17949907	AATATATATATATATATATATATA/ AATATATATATATATATATATATAT ATATA	GTTGTCGTAGCATCGG GAGT	TTCCCTTATGGTGAG TAATGA	60.1	265	INTERGENIC	--	--	--
Ca7_P3_18007229	Ca7	18007229	TAATAATAATAATAATAATAA/TAATAAT AATAATAATAATAATAA	GGCGACACTTCAATGG ACTT	TGCATTGCCATTTCGA GTTA	60.1	627	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
Ca7_P3_18007668	Ca7	18007668	CTTATTATTATTATTAT/CTTATTAT TATTATTAT	CTCGTGTTTCTCGGTG GTTT	AAGTCCATTGAAGTG CGCC	60.1	264	INTERGENIC	--	--	--
Ca7_P3_180427	Ca7	180427	C/CAGAGGCA	TCAACAGCAGCTTTGC ATTC	TTTCGCAGCTGGTATG TGAG	60.1	280	INTERGENIC	--	--	--
Ca7_P3_18085316	Ca7	18085316	ATTTTATTTTTATTTTT/ATTTTATT TTTT	ACAAACAAGTTGAGCA CCCC	AAACGCCTCAAGCTAT TCCA	60.0	682	INTERGENIC	--	--	--
Ca7_P3_18121209	Ca7	18121209	TAAAA/TAAAAA	TGAAAAGCAATCCCAA TGT	AATGGGCATTCGTAA TCGT	58.1	429	INTERGENIC	--	--	--
Ca7_P3_18122610	Ca7	18122610	AATATATATATATATAT/AATATAT ATATATATATAT	GCGAGAACAATTTCTT GGG	CCACACACTAACACAA CGCC	59.7	305	INTERGENIC	--	--	--
Ca7_P3_18130662	Ca7	18130662	TAAAAAAAAA/TAAAAAAAAA	TTCACCCCATTTTTCGA GAC	GGTTCGAACATTTTGA TGTTTTT	59.9	339	INTERGENIC	--	--	--
Ca7_P3_18144279	Ca7	18144279	AGTGTGTGTGTGTGTGTGTGT/A GTGTGTGTGTGTGT	GACAGCGGATCACTAC CTCC	GAAATGTGCATTTTCC GCTT	59.7	262	INTERGENIC	--	--	--
Ca7_P3_18188416	Ca7	18188416	CTTT/CTTTT	TGTCTTGAGCATGCCTT GTC	AAATGCAACCCCAAT GCTC	60.0	525	INTERGENIC	--	--	--
Ca7_P3_18199412	Ca7	18199412	CAGA/CA	GCCCATTTGAGTGGA GTGT	TCCACCTTGGCACCTT TAAT	60.0	355	DRR	Ca_22138	--	--
Ca7_P3_18234685	Ca7	18234685	ATTTTT/ATTTTTT	CCAAAATTCACCTCTC CACCC	TCAACTTCTGTTGCC ATGA	60.0	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 (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
Ca7_P3_18333235	Ca7	18333235	A/ATTAT	GCAAGTGTGTTTGTGG CACT	TTCAAGCACATAATGC AAGTCC	59.8	113	INTERGENIC	--	--	--
Ca7_P3_1835089	Ca7	1835089	CAA/CAA	AACAAAAGTAGCGTGC GACA	ATTTGTCAACTCGGG TTTG	59.5	632	INTERGENIC	--	--	--
Ca7_P3_18356812	Ca7	18356812	TAAAAAAAAA/TAAAAAAAAA	TTCTCGATGGTGATT GACA	AATGCAATCAGACGCA AACA	60.0	497	INTERGENIC	--	--	--
Ca7_P3_18439833	Ca7	18439833	TAGAG/TAG	TATTTGGAGCAGCGGG TTAG	CCCACAACCACACACT CATC	60.2	813	INTERGENIC	--	--	--
Ca7_P3_18587623	Ca7	18587623	AAAGGCGGAAGGCGG/AAAGGCGG	CGATGATGACTGATTG GGGT	TGTTTGTGTTTGAGG CGTT	60.7	374	INTERGENIC	--	--	--
Ca7_P3_18587996	Ca7	18587996	CTTTTTTTTT/CTTTTTTTTT	GAGTGTACAAAGGCGG AAGG	GGGTGTTACAAGGAGT CTTGG	59.7	865	INTERGENIC	--	--	--
Ca7_P3_18588285	Ca7	18588285	ATTTTTTTTT/ATTTTTTTTT	AACGCCTCAAAACACAA ACA	GGGTGTTACAAGGAGT CTTGG	59.2	630	INTERGENIC	--	--	--
Ca7_P3_18588675	Ca7	18588675	TTATAT/TTATATAT	CCAAGACTCCTTGTAAC ACCC	GCACATATACACGT AAAATCGCA	58.6	299	INTERGENIC	--	--	--
Ca7_P3_18773517	Ca7	18773517	TAAAAAAAAA/TAAAAAAAAA	CCGTCTAAGATTGGGC TGAT	AGGGCATGCATGATGA TTTT	59.2	709	INTERGENIC	--	--	--
Ca7_P3_18823370	Ca7	18823370	TTATATATATATATATATATA/TTATA TATATATATATATATATATA	TGTTGTCTTGAAATTGT TGTGTTTT	GCACAATTTTCCAAC ATGAAA	59.9	112	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	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
Ca7_P3_18914671	Ca7	18914671	G/GCTGAAAAGT	GGTTGGAGCACTGAGA AAGC	TGTAGTTGGGGCCTTA GTGG	60.0	337	INTERGENIC	--	--	--
Ca7_P3_18945632	Ca7	18945632	GATATATATATATATATATATATA TATATAT/GATATATGTATATATATAT ATATATATATATATATATATATAT	TGTTCCACGAGTTTTTG TGAA	GGAAATTCTGTCGACCT CAAA	59.2	697	DRR	Ca_12313	C	--
Ca7_P3_19006687	Ca7	19006687	T/TATTA	GGCAGTACCTCCCATT GTGT	ATGACCATTGAGTTCG CATC	59.9	809	DRR	Ca_12315	--	--
Ca7_P3_1902358	Ca7	1902358	GTTTTAATAATA/G	CAAGTTTATCTCTTCAA TC GCGT	TCGCATATTGCTCTCC CTCT	59.8	318	INTERGENIC	--	--	--
Ca7_P3_19095896	Ca7	19095896	GTTTTTTTT/GTTTTTTT	GTTTTGCTTCCCAC TTC CA	CTCCTTG CAGATAG CGCC	60.1	580	INTERGENIC	--	--	--
Ca7_P3_19229684	Ca7	19229684	GTTTTTTTTTTTT/GTTTTTTTTTTTT	AATTGTTTGGTTGCGG AAAG	AAAATGGTGGTGTGCA AAGA	60.0	374	DRR	Ca_12330	T	MYB_related
Ca7_P3_19247078	Ca7	19247078	GTATATATATATATATATATATATAT /GTATATATATATATATATATATAT	GAGCAACA AAAATTGA GA AACA	CTAATTGCGCGGTCT TCAT	58.5	376	INTERGENIC	--	--	--
Ca7_P3_19257572	Ca7	19257572	AAATAAATAATAATAATAATAAAT AATA/AAATAATAATAATAATAA TA	TTTTTACAGGGAAGCG AGGA	AAAAATTGAATAAACCA ATTTCACA	59.8	768	INTERGENIC	--	--	--
Ca7_P3_19310476	Ca7	19310476	AATATATATATATATATATATATAT /AATATATATATATATATATATATA TATAT	TGTTACACAACAAAATA CCTGTG	CGTCTTGTCTTTCTTC CATCA	57.6	813	INTERGENIC	--	--	--
Ca7_P3_19359944	Ca7	19359944	A/AGCCATTGAC	ACGAGTGC GG GTATCA ATGT	GAGAAATGGAGGCAAT GGAA	60.4	456	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CD 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
Ca7_P3_19399714	Ca7	19399714	GTTTTTTTTT/GTTTTTTTTT	TCGCCATCATCCAT CTA	TCGGTTGGATAACCAC TTATGTT	60.0	678	INTERGENIC	--	--	--
Ca7_P3_19456451	Ca7	19456451	AATATATATATATATATATATATA/ AATATATATATATATATATATATA	TTACTCCATCCGTTCCA AAAA	CGACGTGGCATATTAC CATC	59.4	411	INTERGENIC	--	--	--
Ca7_P3_19464912	Ca7	19464912	T/TAAC	GATGCGACGACTTCAA ACAA	TTTTCTTAACAACGCC CTTCT	59.8	470	INTERGENIC	--	--	--
Ca7_P3_19534402	Ca7	19534402	TTATATATATATATATATATATATA TAT/TTATATATATATATATATATATA TAT	GCCCAAATTCTAAATGG CAA	CACCCTCGGTCTAAAG TCCA	59.9	448	INTRON	Ca_12348	--	--
Ca7_P3_19582568	Ca7	19582568	AATATATATATATA/AATATATATATA TATATA	AAGTTCGAAATGCCGA TTTG	CCCGTACGTGTGAGAA AACC	60.1	584	INTERGENIC	--	--	--
Ca7_P3_19589014	Ca7	19589014	AATTTATCTATTTATCTATTTAT/AATTT ATCTATTTATCTATTTATCTATTTAT	GGTCGTCCAAATAGTA CCCG	CCGATTTCCCAAAGGT TTTT	59.3	358	INTERGENIC	--	--	--
Ca7_P3_19589201	Ca7	19589201	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	GGTCGTCCAAATAGTA CCCG	AGGAAGCCCAAGTTCC AAAT	59.3	828	INTERGENIC	--	--	--
Ca7_P3_19594228	Ca7	19594228	CATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATT/CATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT	AGTTGTATCGGCAAAA CCGA	GACCACGTAATGTGTT TGCCT	60.5	683	INTERGENIC	--	--	--
Ca7_P3_1962967	Ca7	1962967	AACCACC/AACC	GGTGGTTTAGCAGCCA TGTT	TGCAAGCTCAAACACA CACA	60.0	556	CDS (large-effect mutations)	Ca_03278	--	--
Ca7_P3_1964425	Ca7	1964425	AATTTAT/AAT	ATTCGATGTTTCATGCCA CAA	CAATTCGGTCATCCAT ACCC	59.9	666	DRR	Ca_03278	--	--

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
Ca7_P3_19694255	Ca7	19694255	TATAATAATAATAATA/TATAATAA AATAATAATAATA	CAAAAGGCACGAATCG AAAT	AACTGAGACCTGCTG GCTA	60.1	285	INTERGENIC	--	--	--
Ca7_P3_19718791	Ca7	19718791	GTAATAATAATAATAATAATAATAA TAATAATAATAATAA/GTAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAA	TTAGGGAGCTTACATC GCGT	TAGCTGTGAGTTGACG ACGG	59.9	488	INTERGENIC	--	--	--
Ca7_P3_19731743	Ca7	19731743	ATTTTTTT/ATTTTTTTTT	TCAAAACCTCCAAACGA ACC	TTTGCATAGGAGCAAA GCCT	59.9	628	INTERGENIC	--	--	--
Ca7_P3_19857139	Ca7	19857139	AAATAATAATAATAATAATAATAAT AATAATAA/AAATAATAATAATAATA ATAATAATAATAATAATAA	CCATATGTCATAGTGC GGTCA	AGAGGCAACAAGAAC CGAA	59.4	314	INTERGENIC	--	--	--
Ca7_P3_19859015	Ca7	19859015	GAAAAAAAA/GAAAAAAAAA	TGAGATCTATACCCGG GCTG	GGTCTTTTCAGTTGAT CCAGA	60.1	638	INTERGENIC	--	--	--
Ca7_P3_19860378	Ca7	19860378	GT/G	CCTCAATATGTTGGGA CATGC	TGATTCTCAGGGAGGG TGTC	60.2	464	INTERGENIC	--	--	--
Ca7_P3_19968336	Ca7	19968336	TG/TGCGTAGGG	TCAAATTTGGAGTTG GGAG	CCCAATACCCTAAACC CTAACC	60.0	405	INTERGENIC	--	--	--
Ca7_P3_19977840	Ca7	19977840	T/TA	ACCCAATTACTGGAGAT GCG	AGGAAGAGTGGAGTTG CGAA	60.0	693	INTERGENIC	--	--	--
Ca7_P3_20059991	Ca7	20059991	TTGT/TTGTGT	TGATTGCGATCAACCA ATAA	TCATCATTTGAGTCATC TTGCC	59.0	487	INTERGENIC	--	--	--
Ca7_P3_20079503	Ca7	20079503	TTAAAGCCA/TTAAAGCCATAAGCCA	GGGGAGGAATTTGTTG GAAT	GGTCATTGATGGGAGA CATGA	60.0	674	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_20480558	Ca7	20480558	GAAAA/GAA	TTCCGCTTATGGTGAG TAATGA	TTTGTGTTGTGCAATTGT ATTGTAGTT	59.6	520	INTERGENIC	--	--	--
Ca7_P3_20482683	Ca7	20482683	TAAAAAA/TAAAAAA	ACCAAAATTCTGATGTG GCA	TTTTATTCAATGCCGAA GGC	59.0	387	INTERGENIC	--	--	--
Ca7_P3_20486117	Ca7	20486117	AATATATATATATATATAT/AATATATAT ATATAT	TGCTCTACGACACAATA TCAACAA	GCGAGCAGTGTGTTT TCAA	59.7	391	INTERGENIC	--	--	--
Ca7_P3_20488727	Ca7	20488727	TC/T	CAAACATGGTGCTCTT GTGC	ATTGCCCATGTTTCA AGAG	60.0	731	CDS (FRAME SHIFT)	Ca_12399	T	M-type
Ca7_P3_20492867	Ca7	20492867	TGAAA/TGAAAGAAA	AAGGAACGAATGAACG AACG	CCCTCTCAATCATCC TCAA	60.1	595	INTERGENIC	--	--	--
Ca7_P3_20493080	Ca7	20493080	AGG/AG	TTGAGGATGATTGAGA GGGG	ACGAACGTGTGCCAAC ATAA	60.0	265	INTERGENIC	--	--	--
Ca7_P3_20494272	Ca7	20494272	CAA/CAAA	AGACGTGTCGATCGAG CTTT	AGCTGAATGCAAACCC TTGA	60.0	497	DRR	Ca_12400	--	AP2
Ca7_P3_20494326	Ca7	20494326	CA/CATCGA	AGACGTGTCGATCGAG CTTT	AGCTGAATGCAAACCC TTGA	60.0	497	DRR	Ca_12400	--	AP2
Ca7_P3_20494626	Ca7	20494626	CTTTTTTTTT/CTTTTTTTTTTT	AGACGTGTCGATCGAG CTTT	GCACCTCAACACCACC CTAT	60.0	623	DRR	Ca_12400	--	AP2
Ca7_P3_20497715	Ca7	20497715	CAAAAAAA/CAAAAAAAA	TGTTTCACACCAACCAC GTT	CGTAGCAGCTATAAG GGCG	59.9	606	INTRON	Ca_12400	--	AP2

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
Ca7_P3_20503190	Ca7	20503190	TAA/TAA	GGTCAAAAGAAAAGCT CAGGC	ATGAAGGAGTGGAGC GAGAA	60.4	935	INTERGENIC	--	--	--
Ca7_P3_20503526	Ca7	20503526	T/TCAC	TTGAAGGTTTTTGGGAA TATGG	ATGAAGGAGTGGAGC GAGAA	60.0	141	INTERGENIC	--	--	--
Ca7_P3_20505258	Ca7	20505258	TAGAGAGAGA/TAGAGAGA	CGACAAACATCCAAACA TGG	TTTTTCAGAATTTTCCA TGCC	59.8	438	INTERGENIC	--	--	--
Ca7_P3_20505889	Ca7	20505889	ATA/ATAGAAATTA	GGCATGGAAAATTCTG AAAAA	TTCAATTTCTCGATTGAG GGC	59.0	803	INTERGENIC	--	--	--
Ca7_P3_20505916	Ca7	20505916	GGA/G	GGCATGGAAAATTCTG AAAAA	TTCAATTTCTCGATTGAG GGC	59.0	803	INTERGENIC	--	--	--
Ca7_P3_20510218	Ca7	20510218	GTAAT/GTAATAAT	TTGAACAATGCAAGAG CCAC	CTGCTCATGTTTCCCG TTTT	59.8	933	INTERGENIC	--	--	--
Ca7_P3_20517142	Ca7	20517142	ATTTTTTT/ATTTTTTTT	CCCAGTGACAGGTTTC AGGT	ACGTTTGTGGGTCA GTTC	60.0	579	INTERGENIC	--	--	--
Ca7_P3_20530900	Ca7	20530900	AACG/AACGACG	GCAAACTCCTAGTTGCT GAGG	CGAGTGTACATAGAT GGCAA	59.1	890	INTERGENIC	--	--	--
Ca7_P3_20532893	Ca7	20532893	ATTATTTATTATTTATTAT/ATTATTTA TTTATTAT	GATATATTGCAGGTGC CGGT	TGACACGTGGCTCAAT TGTT	59.8	618	INTRON	Ca_12402	--	--
Ca7_P3_20533749	Ca7	20533749	TG/T	AGCCACGTGTCACTCA ACAG	GATGGTTTTGCGAGCT TCAT	59.9	721	DRR	Ca_12402	--	--

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
Ca7_P3_20537234	Ca7	20537234	CAAAAA/CAAAAA	TCGCACAGGATGAGAA CTTG	TCAGCCTCTCCATCAA ACCT	60.0	179	INTERGENIC	--	--	--
Ca7_P3_20538991	Ca7	20538991	GTTTT/GTTT	GGCCATTGGATCTAGC AAAA	GCCATTCATCAAGGAA GGAA	60.0	635	DRR	Ca_12404	F	--
Ca7_P3_20553068	Ca7	20553068	GGTT/G	CCATGGCGGACTTTGT TATT	TGCACATTGTTGTTCC CAGT	59.8	637	CDS (large-effect mutations)	Ca_12405	K	--
Ca7_P3_20554410	Ca7	20554410	AA/AACCTA	CATCTGACCTGGACTT CGGT	TTTTCTGAAGGGTTGT TGCC	60.1	682	INTRON	Ca_12405	K	--
Ca7_P3_20555621	Ca7	20555621	TACACACA/TACACACACA	GTACGAGTGGCAAGAG AGGC	TACCTGGCAGATATCC CGTC	60.0	158	DRR	Ca_12405	K	--
Ca7_P3_20556517	Ca7	20556517	ATA/ATATTGATTTTA	TGCAGTGGCATATTCC AAAA	ATAGCAGAGGCGGCAA AGTA	60.1	457	DRR	Ca_12405	K	--
Ca7_P3_20560193	Ca7	20560193	CAAAAAAA/CAAAAAAA	TGCATTTGAAATTTGCA GGA	TCAACCCCAATACACC CCTA	60.2	602	DRR	Ca_12406	--	M-type
Ca7_P3_20566104	Ca7	20566104	CCAC/CC	GTTTGCATGACATGAG CGAC	ATGTAAAAGCAAAAGG GGCA	60.3	103	INTERGENIC	--	--	--
Ca7_P3_20566359	Ca7	20566359	T/TA	GGTGACTGGTGGGATT GTTT	TGAAAGTTCTCTTTAAT CTGTCACG	60.2	370	INTERGENIC	--	--	--
Ca7_P3_20567011	Ca7	20567011	TAAAAAA/TAAAAAA	TGGAATTCATGTGTCTT TGGA	CACCTTCCTTGTGTTC CGAT	59.0	281	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
Ca7_P3_20567982	Ca7	20567982	TAAAAA/TAAAAAA	CGGTGAGGACTATTTT AGAACG	TCCCTCCAATTACA GCTT	59.2	778	INTERGENIC	--	--	--
Ca7_P3_20568263	Ca7	20568263	AT/A	TGGAAGAGTAAGATAG GGAGGAA	CCCCTCCAATTACAGC TTTTC	58.4	508	INTERGENIC	--	--	--
Ca7_P3_20569701	Ca7	20569701	ATT/AT	GGTTTTTGGGAGGTTT GCTT	CATCCAAAGGGAAGAC GAAA	60.3	695	INTERGENIC	--	--	--
Ca7_P3_20570561	Ca7	20570561	TAA/TAAAAA	TTTCGTCTTCCCTTTGG ATG	TTGCGCATGACGATAT CAAT	60.0	757	DRR	Ca_12407	--	--
Ca7_P3_20573093	Ca7	20573093	GCAAGACAA/GCAAGACAAGACAA	AATGCAAGCAACCAAAA ACC	ATAGACCTGGCTGCAA GGAA	60.0	617	INTRON	Ca_12407	--	--
Ca7_P3_20574766	Ca7	20574766	GTTT/GTTTT	GGGAGATCGGAATGCA TAGA	ATGCGTGACGGTGCAT AATA	60.0	276	INTERGENIC	--	--	--
Ca7_P3_20575471	Ca7	20575471	T/TA	AAATCCATTGTTTGAC ACG	ACCCACCTCCAGATT TTCC	58.3	743	INTERGENIC	--	--	--
Ca7_P3_20576017	Ca7	20576017	TC/TCC	GGAAAACTGGAGGT GGGT	TGCCTCAAATTCACAT GGA	60.2	489	INTERGENIC	--	--	--
Ca7_P3_20596404	Ca7	20596404	CATATATAT/CATATATATAT	CCTTTCACCTTCTTCAC CCA	GGTGAAATAAACACC CCCTT	60.1	480	INTERGENIC	--	--	--
Ca7_P3_20599872	Ca7	20599872	TGG/TG	TCCCAAGTGGTTTCC ATAA	TCTGCACTGTCTCAAG CACC	60.2	758	DRR	Ca_12410	--	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_20602595	Ca7	20602595	ATTCTTTCT/ATTCTT	CTACAGTGCTGGCAAG GTGA	ATTAATGGTCCAACAC CCCA	60.0	196	CDS (FRAME SHIFT)	Ca_12411	--	--
Ca7_P3_20614138	Ca7	20614138	CTA/CTATA	CTTTGCAACAGCAACT GCAT	CCGACATCACAGCTTT CTGA	60.1	389	INTRON	Ca_12414	--	MIKC
Ca7_P3_20617780	Ca7	20617780	C/CAAT	GGCGAGGGATGGAATT TTAG	GAATTGGGACTTCTGC CGTA	60.8	777	INTERGENIC	--	--	--
Ca7_P3_20617963	Ca7	20617963	ATTTTTTT/ATTTTTT	TCAATTTGAATGTCAAA CACACA	GAATTGGGACTTCTGC CGTA	59.0	393	INTERGENIC	--	--	--
Ca7_P3_20622427	Ca7	20622427	CTTTTTTTTTTTTT/CTTTTTTTTTT	TTTTGAAACTCTTGCC GTC	GGGTGGTCAAGAATG TGCT	60.2	183	INTERGENIC	--	--	--
Ca7_P3_20623409	Ca7	20623409	TAACAA/TAA	AGGTGTCGAAGGATCA CCAC	CTCGAGGAGACGAGAA ATGC	60.0	212	INTERGENIC	--	--	--
Ca7_P3_20626429	Ca7	20626429	CTAATA/CTAATAATA	TCAGTTATCGTCGTTG GTCG	CGTGCAACATTTTCTT CCA	59.7	623	INTERGENIC	--	--	--
Ca7_P3_20629724	Ca7	20629724	AATGAT/AAT	ATGTGGACTCAGGGGA TGAG	CGGAGCGCAACTTCAT ATTT	59.9	655	INTERGENIC	--	--	--
Ca7_P3_2066755	Ca7	2066755	CAAAAAAAAA/CAAAAAAAAAA	TCGTTGGAGAGTTGGT GATG	TGGGATGGTAAGCATT TGAA	59.7	563	INTERGENIC	--	--	--
Ca7_P3_2076110	Ca7	2076110	GAAAAAAAAA/GAAAAAAAAA	TTAATGCAGCCTCTCG GACT	GGTCAGGTGTGGACG TCTTT	60.0	442	INTRON	Ca_03264	G	MYB_related

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
Ca7_P3_20934834	Ca7	20934834	TAAAAAAA/TAAAAA	CCAAATTGGGTCAATAA CGC	GTGACCGGACCTATT GCAT	60.2	951	INTERGENIC	--	--	--
Ca7_P3_20947613	Ca7	20947613	TTCAAATCTTGATCAAATCTT/TTCAA TCTTGATCAAATCTTGATCAAATCTT	TAAACCACTATCGGGT GGC	GAAAGTTGCTTTAGCG GCAC	59.8	824	INTERGENIC	--	--	--
Ca7_P3_21024512	Ca7	21024512	CTTTTTTTTTTT/CTTTTTTTTTTT	CGAAGCAAATGGTGAT TGTG	AGGTAACATCGTAGGG CGTG	60.1	437	INTERGENIC	--	--	--
Ca7_P3_21091701	Ca7	21091701	AATATATATATATATATATATATATA/ AATATATATATATATATATATA	TGAATTTTTGAGGCCTA CGG	TTCCGAGTTGTTTGAG AGGA	60.1	644	INTERGENIC	--	--	--
Ca7_P3_21099731	Ca7	21099731	T/TGCGCAA	GAGAAATCAAAATGGC CCA	AGTGCTCTGTTCCT GAGA	59.9	500	INTERGENIC	--	--	--
Ca7_P3_21103274	Ca7	21103274	TAAAAAAA/TAAAAAAA	TAAATGTCCCCAGTG GAGC	CGGGAGATACGTAGGA GCAA	59.9	359	INTERGENIC	--	--	--
Ca7_P3_21106311	Ca7	21106311	TAAA/TAA	TGAACGGAACAAGAGG CTTT	CAATTGGTTGATCCTC GTGA	59.9	595	INTERGENIC	--	--	--
Ca7_P3_21207750	Ca7	21207750	GCATCCCCA/GCATCCCCATCCCCA	TTTTATCCACAAAAAT TCAAAAA	GAATGAGCAAGAAAGA CGGC	58.9	505	INTERGENIC	--	--	--
Ca7_P3_21234294	Ca7	21234294	AGTGTGTGTGTGTGTGTGTGTG/AG TGTGTGTGTGTGTGTGTGTG	TTCAGTGGCATTGAGA CATTG	TAGTTTGGGAGCATGT CGTG	59.7	544	DRR	Ca_14495	S	--
Ca7_P3_21237171	Ca7	21237171	TAAAAAAAAA/TAAAAAAAAA	TGAAGCGCTCTCCCAT AGTT	CCATGGATGTTAGTCC GTGA	60.0	226	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 (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
Ca7_P3_21244805	Ca7	21244805	TAAAAAAAAA/TAAAAAAAAA	GTCATCTCACTCTCGG CCTG	TGCGACTGTGGGAAT ATCA	61.0	576	INTERGENIC	--	--	--
Ca7_P3_21386667	Ca7	21386667	AA/AAGTTAGGGA	AAAAAGGATTCTCGGG GAAA	CTCGCGTTCCTGTGTA TATT	59.9	622	INTERGENIC	--	--	--
Ca7_P3_21434053	Ca7	21434053	ATTTTTTTT/ATTTTTTTT	TTTTTGTTGGCTAAGT GGAG	GAAGCACAAAGAATAA AAGCAACA	57.9	939	INTERGENIC	--	--	--
Ca7_P3_2143788	Ca7	2143788	GAAAAAAAAA/GAAAAAAAAA	TTATTTTGCTGCACTTT GCG	TCCTCTCTCTGCTCT GCTC	60.0	343	INTERGENIC	--	--	--
Ca7_P3_21670841	Ca7	21670841	A/AAGAT	TGACAAATCTTTGCAAC CCA	ATTGCTCATTTTCATGC CCTC	60.1	217	INTERGENIC	--	--	--
Ca7_P3_21673889	Ca7	21673889	CTATTATTATTATTATTATTATTATT ATTATTATTATTATTAAATTAATATTAT TATTATTATTATTATTATTATTATTA CTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATGCTATTATTATTATTAT	CCGTAAGGAAAAGGA ACTTTG	CGATTTCCCTCACGAC AAAT	59.2	755	INTERGENIC	--	--	--
Ca7_P3_21675349	Ca7	21675349	CTAT/CTATTAT	AGCCAAAGACAAACAAA CCAG	CAACCTCTTCACGCAT CAAA	59.3	167	INTERGENIC	--	--	--
Ca7_P3_21678336	Ca7	21678336	CATATATATATATATATATA/CATATATA TATATATATATATATATA	TCTCTTTATCATTGCGT TTGC	ATAACCGTGCCAATAG GTGG	58.1	489	INTERGENIC	--	--	--
Ca7_P3_2168224	Ca7	2168224	CATA/CATATA	TTCTGAGATTGGCAAAA GGG	CGCGATCGTTCACTGA TATG	60.2	820	INTRON	Ca_03253	P	--
Ca7_P3_21685577	Ca7	21685577	TT/TTAT	TTTATAAATTGGCCCCA TCG	TAGGGGGACCAAGAAA CTGG	59.6	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
Ca7_P3_21688080	Ca7	21688080	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGACCGTGACGTTGT TCAT	ACAAGCCACGTGAGTT TTCC	60.0	361	INTERGENIC	--	--	--
Ca7_P3_21688548	Ca7	21688548	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATT/TTTATTATTA TTATTATTATTATTATTATTATTATT ATT	GCAAATCCAACCTGCGT GTAA	TGAACCTTTTAAGACCC CACTAACC	59.7	189	INTERGENIC	--	--	--
Ca7_P3_2169903	Ca7	2169903	T/TA	CAGGGCCTTACTGCTA CAGG	CAACGGAAAACATCGT TCAA	59.9	397	INTRON	Ca_03253	P	--
Ca7_P3_21728387	Ca7	21728387	CAAAA/CAAA	ATCTCTGCGCAATATCG CTT	AGCCGACTTTTCCTAC CACA	60.0	674	INTERGENIC	--	--	--
Ca7_P3_21729097	Ca7	21729097	TAAAAA/TAAAA	TGCTCAAAAGGGGAAG AAAA	GCCACGTGGTTGAAAG AAGT	59.8	240	INTERGENIC	--	--	--
Ca7_P3_21729303	Ca7	21729303	T/TC	TTGCTCAAAAGGGGA GAAA	TTGTTATTTCTTTATG CCGTTG	59.8	426	INTERGENIC	--	--	--
Ca7_P3_21731192	Ca7	21731192	ATTTTTTTTT/ATTTTTTTTT	TGATGGATACCCTTTTG AACG	ACCGCTCCAGCTGAGA ATAA	59.8	838	INTERGENIC	--	--	--
Ca7_P3_21743270	Ca7	21743270	CAA/CA	TTGCCCTCTAAATTCT TGG	TCCCTCGTATTAGCC CTCA	59.2	686	DRR	Ca_14521	--	--
Ca7_P3_21743482	Ca7	21743482	TGGCTAAATATGAGGGCTAAATA/TGG CTAAATA	TCGAAGCATAAGGTTG ATCC	GGGATTGAGCGCCTAT ACAA	57.8	500	DRR	Ca_14521	--	--
Ca7_P3_21743627	Ca7	21743627	ATTTTTTT/ATTTTTTTT	TGAGGGCTAAATACGA GGGA	GGGATTGAGCGCCTAT ACAA	59.7	461	DRR	Ca_14521	--	--

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 (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
Ca7_P3_21743947	Ca7	21743947	AA/AAATA	CCTGGTGTGCATTGAA AAGA	AATTGCGGTTTTGGTT CAAG	59.7	410	DRR	Ca_14521	--	--
Ca7_P3_21744212	Ca7	21744212	CT/CTCTTTTTTTTTT	TTGTATAGGCGCTCAAT CCC	AATTGCGGTTTTGGTT CAAG	60.1	354	INTERGENIC	--	--	--
Ca7_P3_21745626	Ca7	21745626	TTTTATATTAT/TTTTAT	ATAGGGCCCATTTTACA GCG	CCAGTTGCCCTGTCCA TACT	61.2	455	INTRON	Ca_14522	O	MYB
Ca7_P3_21749692	Ca7	21749692	A/AG	AAGGTTTCGTGGAAGG CTCT	GACTCAAGCGACGATG ATGA	60.2	430	INTERGENIC	--	--	--
Ca7_P3_21750508	Ca7	21750508	CTTTTT/CTTTTTT	GTATACTGTGTCAGC CCGA	GAACCAACTGCCCTTG TCAT	59.7	382	INTERGENIC	--	--	--
Ca7_P3_21755502	Ca7	21755502	TG/TAAATAGAGATGAGG	TTTTGAGGTGGTGTAT GGCA	TTTCCTGGCTGCAAAA GAGT	60.0	780	CDS (FRAME SHIFT)	Ca_14523	R	ARF
Ca7_P3_21784554	Ca7	21784554	GAAAAAAAAA/GAAAAAAAAA	GGGTTGCTCATGGGAT AACA	TCCTAGAACATGCATC ACGC	60.7	390	INTERGENIC	--	--	--
Ca7_P3_21950073	Ca7	21950073	TCACACACACACACACACACACA CACACACAC/TCACACACACACACA CACACACACACAC	AGCAATCGAAAGTGGA GCAT	TTACCCGTTCACTCCC ACTC	59.8	302	INTERGENIC	--	--	--
Ca7_P3_21977655	Ca7	21977655	TACA/TA	AAATCCCTCTCCCTGA GGA	TAAGCCAGAACATGCC GAGT	60.0	629	INTRON	Ca_14535	D	LBD
Ca7_P3_22028394	Ca7	22028394	G/GA	TCATCAAATCCGTAACG CAA	TCCATGTTTTGCTCTAT TGGC	60.1	271	DRR	Ca_14536	R	MYB

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
Ca7_P3_22036269	Ca7	22036269	GCTC/G	GCTCAGCCTTGAAATC GAAC	TTCATCATCATCTTCAA ACAAAA	60.0	627	INTERGENIC	--	--	--
Ca7_P3_22038011	Ca7	22038011	C/CT	CTCCAAATTTCCAGCCA AAA	ACACGGACGGGTCTTG TATC	60.0	822	INTERGENIC	--	--	--
Ca7_P3_22039243	Ca7	22039243	ACC/AC	CGTTATTGCAACCACAA CCA	CAATTCAACTCCGACG TGTG	60.4	622	INTERGENIC	--	--	--
Ca7_P3_22043317	Ca7	22043317	T/TG	TGGTTCAAATGCTGTAA TCTTCTC	ATTGCTCAATACACG GGTC	59.7	884	INTERGENIC	--	--	--
Ca7_P3_22045478	Ca7	22045478	ATTTTTTT/ATTTTTTT	TGTGGTGTTCACAAA GACA	CAAAGCGAAGTGCAAA ATGA	60.0	246	INTERGENIC	--	--	--
Ca7_P3_22046891	Ca7	22046891	CATAATAATAATAATAATAATAATA ATAATAATAATAAT/CATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAAT	ATAATTTGCCTTTGCGG TTG	TTCTGTGAGCAAGGCT GATG	60.0	319	INTERGENIC	--	--	--
Ca7_P3_22046957	Ca7	22046957	CTATATATATATATATATATATAT/CT ATATATATATATATATATATAT	ATAATTTGCCTTTGCGG TTG	TTCTGTGAGCAAGGCT GATG	60.0	319	INTERGENIC	--	--	--
Ca7_P3_22046996	Ca7	22046996	TGCGCGC/TGC	ATAATTTGCCTTTGCGG TTG	ACCTGGTCGTAGATGC CACT	60.0	414	INTERGENIC	--	--	--
Ca7_P3_22091542	Ca7	22091542	GAAAAAAAAA/GAAAAAAAAA	CCCCAACCTCCATTCT ATT	AATTGCAAGATGAGGG CAAC	60.0	347	INTERGENIC	--	--	--
Ca7_P3_22126044	Ca7	22126044	TAAAAAAAAA/TAAAAAAAAA	TGAAGCAACAAAGCTG ATGAA	TTGTTGCAACCACTTC CAAA	59.6	518	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
Ca7_P3_22156943	Ca7	22156943	ATTTTTTTTTTTT/ATTTTTTTTTTTT T	ATGCATTCCATTCACTT CCA	GCCAAAATGTTTGTCA GGGT	58.9	674	DRR	Ca_14544	G	G2-like
Ca7_P3_22327481	Ca7	22327481	TC/T	GATTCATCGCAGCTCA AACA	GATCAAAACCGGGGAA AAAT	60.0	638	DRR	Ca_14548	--	--
Ca7_P3_22377445	Ca7	22377445	TAAAAAAAAA/TAAAAAAAAA	TCAATTTTATTAGAG GCACGC	CCAAAAACCAACCA CCAT	59.7	322	INTERGENIC	--	--	--
Ca7_P3_22380060	Ca7	22380060	CATATATATATATATATATATA/CATA TATATATATATATATA	GCGAATTGCGATTAAT GTGA	GCCACTTGTTTGTGT TGATG	59.7	510	INTERGENIC	--	--	--
Ca7_P3_22440146	Ca7	22440146	TAATATA/TAATATAAAATATA	GAAGTTGTAATCGGAG GCCA	GGCAGAGATGGAGT GATGT	60.1	542	INTERGENIC	--	--	--
Ca7_P3_22455025	Ca7	22455025	TCCCC/TCCCCC	GCCCAAAGGCATAAGT CTCA	CCCTTCCGAAAATT CATT	60.2	272	INTERGENIC	--	--	--
Ca7_P3_22457765	Ca7	22457765	GATCAAAATCAAAATCAAAATCAAA/GA TCAAAATCAAAATCAAA	TTGTCTCCAGTTTGGT CCC	GGGCTATCGCTTATGT TGGA	59.9	696	DRR	Ca_14558	--	--
Ca7_P3_22523169	Ca7	22523169	CCGGACGG/CCGGACGGACGG	ACCTTGTGGATGGCAG TTTC	TGGCATTGATGATGGC TTTA	60.0	328	INTERGENIC	--	--	--
Ca7_P3_22584474	Ca7	22584474	TTGTGT/TTGT	TTTGGTATAGCGATTG AACCA	CCCGAAGGATATTGT GAGT	59.5	724	INTERGENIC	--	--	--
Ca7_P3_22587400	Ca7	22587400	TTATATATATATATATATATATATA T/TTATATATATATATATATATATA TATATAT	AAGGAACAAAACGTCAT TTTCAA	AGTCAGACGCTACTCG GCAT	59.9	519	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 (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
Ca7_P3_22658192	Ca7	22658192	GTATATATATATATATATATATAT/GT ATATATATATATATATATATAT	TACACCTGAGTCCGCT ACCC	TCCCAAGTTTCAAATG CTGA	60.1	494	INTERGENIC	--	--	--
Ca7_P3_22678046	Ca7	22678046	AG/AGG	ACCAGTCAACAAATGC CCTC	CCACCAACTTTAGCTC CGAA	60.0	314	INTERGENIC	--	--	--
Ca7_P3_22689398	Ca7	22689398	ATTT/ATT	AAAGCATGTTCTCCAA TGC	CTGGCATGCTCAAGTT CTGA	60.1	457	INTRON	Ca_19533	--	NAC
Ca7_P3_22745128	Ca7	22745128	G/GGTAGTTAGTGAT	GGAGTTGGTCGTACAC CCAT	CGAGGCATTCTTCAC AAAT	60.0	634	INTRON	Ca_19530	R	--
Ca7_P3_22898346	Ca7	22898346	CAAAAAAAAA/CAAAAAAAAA	CCCCGAATACATAAACA TAACCA	TGGCAGTGCTTCAATT CTTG	59.9	932	INTERGENIC	--	--	--
Ca7_P3_22899812	Ca7	22899812	CTTATTATTATTATTATTATTATTAT/ CTTATTATTATTATTATTATTATTAT TA	TTGATTGGGGTAGCTT CGAG	TATTCAAAAGGAAGGC ACGC	60.2	681	INTERGENIC	--	--	--
Ca7_P3_22944728	Ca7	22944728	GAAAAA/GAAAAAA	GCATGCCATAATCTTTT TGGA	TCGTCGTTGAACCTCA AGTG	59.9	799	INTERGENIC	--	--	--
Ca7_P3_2294516	Ca7	2294516	CAGAGAGAGAGAGAGAGAGAGAGAGA GAGAGAG/CAGAGAGAGAGAGAGAGA GAGAGAGAGAGAGAGAGAG	CATAACGAATTCGCGG TTTT	GTCTGGGTTGGTAGGC GTTA	60.0	428	INTERGENIC	--	--	--
Ca7_P3_22960245	Ca7	22960245	AATATATATATATATATATATATATAT ATATATATATAT/AATATATATATATATA TATATATATATATATAT	TTGGTATTGAACTCGG AGGC	CTTTCACGTTTCGGTTA CGGT	60.1	700	INTERGENIC	--	--	--
Ca7_P3_22969908	Ca7	22969908	CTT/CTTT	AATGTGCTGATCTGTG AGCG	CCTTGGAGTATTCTCG GCAG	60.0	894	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 (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
Ca7_P3_23075370	Ca7	23075370	AAATAATAATAATAATAATAATAAT A/AAATAATAATAATAATAATAATAA TAATAATAATA	AACGGATGACCTCTC CTCT	TTTTGGTGGGATTTT GGA	60.1	812	INTERGENIC	--	--	--
Ca7_P3_23166901	Ca7	23166901	TTATATATATATATATATATATAT/TT ATATATATATATATATATATAT	TTTTGGTAGGGTCAGG TTCG	GAAATGTGAAACCATC GCCT	60.0	775	INTERGENIC	--	--	--
Ca7_P3_23191638	Ca7	23191638	CAA/CAAA	AACCCAGGCCCAAAC TAACT	ACATGTTGCCGTTGTC AAAA	59.9	313	INTERGENIC	--	--	--
Ca7_P3_2319219	Ca7	2319219	TNNNNNNNNNNNNNNN/TNNNNNNNN NNNNN	GGTTTTGCATCTTCCCT CAA	CAGGTCCCAAGTCCAA GGTA	60.1	370	INTRON	Ca_03240	L	--
Ca7_P3_23269244	Ca7	23269244	TAAAAAA/TAAAAAA	TAAATCTCGTCTCGTG GCT	TTTTTGGCAGCAATTA ATGAG	60.1	956	INTERGENIC	--	--	--
Ca7_P3_23487930	Ca7	23487930	ATTTTTTTTT/ATTTTTTTTT	TTCCACCTTTTGAATC TGC	TTGGTTTCATGACCTG CATC	60.1	505	INTERGENIC	--	--	--
Ca7_P3_23564944	Ca7	23564944	TTAAATAAATAAATAAATAAATAA ATAAATAA/TTAAATAAATAAATAA AATAAATAAATAA	TTGGACCACAAGGAGT GTCA	CCGAAATCAATTTGAA CCG	60.1	795	INTERGENIC	--	--	--
Ca7_P3_23595743	Ca7	23595743	GTTTTTTTTT/GTTTTTTTTT	GCGATTTGAGATCGGA GAGA	TGCCATTTTGTGTAG GTGA	60.4	718	INTERGENIC	--	--	--
Ca7_P3_23631733	Ca7	23631733	AG/A	TCACATTGACCTCTTTG GTCC	AAATTATTCTCGCCC CCAC	60.0	414	INTERGENIC	--	--	--
Ca7_P3_23644052	Ca7	23644052	AAAGAAGAAGAAGAAGAAGAAGA AGAAGAAGAA/AAAGAAGAAGAAGA AAGAAGAAGAAGAAGAA	CCAGGATAAAACAGCC CAGA	GCCATCCACAAGGTCA AAGT	60.1	550	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
Ca7_P3_23667025	Ca7	23667025	AAATAATAATAATAATAATA/AAATAATA ATAATAATAATAATA	ACACTGATTTCCCAAAA CGC	TTTCCTTCCCTTCTCAT TGC	60.0	728	DRR	Ca_26877	G	FAR1
Ca7_P3_23679781	Ca7	23679781	AATATATATATATATATATAT/AAATAT ATATATATATATATAT	ACATCCACCCATACAG GCAT	GCCATTCTCATGAGGG AAAA	60.1	816	INTERGENIC	--	--	--
Ca7_P3_23688628	Ca7	23688628	TTAATAATAATAATAATAATAATA/T TAATAATAATAATAATAATAATAAT AATAATA	CCACAAAGACAATCGA GCAA	CGTGCAATCTGCTTGG AGTA	59.8	308	INTERGENIC	--	--	--
Ca7_P3_23750922	Ca7	23750922	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT /ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT	TGCCATGCACAGGTAG AAGT	TAGTGGGGTGCATGTA AGGG	59.3	570	INTERGENIC	--	--	--
Ca7_P3_23766427	Ca7	23766427	TAAAA/TAAAAA	GGGAATCGGGTTAAAG AAGG	TTTTGGTTTTCGTTTC TGG	59.8	373	INTERGENIC	--	--	--
Ca7_P3_23780060	Ca7	23780060	TTATATATATATATAT/TTATATATATAT AT	CGCTCGTCTATGCGAT TGTA	TAAATCTCCGCTCGC AACT	60.0	946	INTERGENIC	--	--	--
Ca7_P3_23804197	Ca7	23804197	CATATATATATATATATATAT/CATAT ATATATATATATATAT	GCACCGTGAGTAAAT CGGT	ATGTTTTGGATTTTGG CTCG	60.0	704	INTERGENIC	--	--	--
Ca7_P3_23807464	Ca7	23807464	AA/AATACTCTTA	TGGGTCCTGGAAGGTT AGTG	TGTCATGGCAAATA CCGA	60.0	482	INTERGENIC	--	--	--
Ca7_P3_23850887	Ca7	23850887	GGA/GGAGA	TAACGTTCCACGGCT TAAC	ATTAAATTCTCACGA GCGG	60.0	195	DRR	Ca_26881	--	--
Ca7_P3_23879653	Ca7	23879653	TCC/TC	AGGAAGGAACACTGCA AAGC	TTTCATCTGCCCTTCC AAGT	59.5	619	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 (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
Ca7_P3_23882859	Ca7	23882859	AATATATATATATATATATA/AATATATA TATATATATATATATA	TATTTTGGATTTTGGCT CGG	ATGGGTTTCGCGTAGA CAAC	59.9	400	INTERGENIC	--	--	--
Ca7_P3_23903739	Ca7	23903739	TAAATAA/TAAATAAAAATAA	TGAGCATGGAATTTGG TTGT	TGAATTCATGGCTAAG AAGCCT	59.0	592	INTERGENIC	--	--	--
Ca7_P3_23907440	Ca7	23907440	AATATATATAT/AATATATATATAT	TTGGAGAATTCAAAAAT AAGGCA	CGTGACAAAGCACGAA AGAA	60.0	513	INTERGENIC	--	--	--
Ca7_P3_23909711	Ca7	23909711	CTTTATTTATTTATTTATTT/CTTT ATTTATTTATTTATTTATTT	CATTTCTTCTCTAAGCG GCG	GCATGTAGCACAAAGG AGCA	60.1	658	INTERGENIC	--	--	--
Ca7_P3_23944596	Ca7	23944596	GAAAAAAAA/GAAAAAAAAA	AAATCATTGAGCATGAA ATGGA	TTCCATCCTCCCTCTT TCA	59.4	825	INTERGENIC	--	--	--
Ca7_P3_24027767	Ca7	24027767	GATAATAATAATAATAATAATAA/GA TAATAATAATAATAATAATAATAA	ACAATGGATGCTCACG ACAC	GTTTCCCATCCTCCCT TTGT	59.6	633	INTERGENIC	--	--	--
Ca7_P3_24034829	Ca7	24034829	CCTGT/C	GGGCTGAGTGCAAACC TAAG	TCGGTTCCTAGAGCAC ACAA	59.9	184	INTERGENIC	--	--	--
Ca7_P3_24096310	Ca7	24096310	TCCCCC/TCCCCC	CTTGCCACCACTAATG CTCA	ACAACCGATTTCAGC CATC	59.9	818	DRR	Ca_19914	--	--
Ca7_P3_2416214	Ca7	2416214	TTATATATATATATATATATATATA TATATATATATATATAT/TTATATATATA TATATATATATATATATATATATAT	TGGGTCTGTTTGAAAG GTGA	TTTGACCAACCACAC AAAT	59.1	530	INTERGENIC	--	--	--
Ca7_P3_24165192	Ca7	24165192	ATTTTTTT/ATTTTTTT	TGAAATATTTTGGTCC ATCCA	GAGCCCCACAAATCAA AGAA	59.2	646	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
Ca7_P3_24209885	Ca7	24209885	AGAGT/AGAGTTTTGAGT	CTCGATGAGGGTGTGG AAAT	GGGTGACATCAAGCCT CATT	59.9	354	INTERGENIC	--	--	--
Ca7_P3_24347972	Ca7	24347972	TAAAA/TAAAAA	CTCTCATCTGAGGGCA AAGC	CGATTGAATTAAGCCC AGGA	60.1	356	INTERGENIC	--	--	--
Ca7_P3_24348355	Ca7	24348355	TAA/TAAA	TCCTGGGCTTAATTCAA TCG	CGTTCCTGAGGGAATT GTGT	60.0	378	INTERGENIC	--	--	--
Ca7_P3_24348515	Ca7	24348515	CAA/CAAA	TCCTGGGCTTAATTCAA TCG	CGTTCCTGAGGGAATT GTGT	60.0	378	INTERGENIC	--	--	--
Ca7_P3_24366097	Ca7	24366097	G/GGC	GGAGGGTTTTGGTTTG GAAT	TCTCCATTCTGTCCG TAGG	60.0	760	INTERGENIC	--	--	--
Ca7_P3_24421160	Ca7	24421160	AATATATATATATATATATA/AATATA TATATATATATA	AGGAAGCCCAAGTTCC AAAT	ACAGCCAACAACCACA TCAA	59.9	469	INTERGENIC	--	--	--
Ca7_P3_24485265	Ca7	24485265	CG/CAACTTTG	GTCCACCCCTAGGAGC TTTC	CGGACCAAAAATTA GCGA	60.1	986	INTERGENIC	--	--	--
Ca7_P3_24495058	Ca7	24495058	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT/T TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATT	TCCGTCGTAGCTTTTTG ACA	TCTGAATCCGACATAG TGCG	59.5	625	INTERGENIC	--	--	--
Ca7_P3_24502290	Ca7	24502290	T/TAAGCA	AATTGGCAGAACAGG GATG	AGAAAAGCAGGGGAAG CAAT	59.9	575	INTERGENIC	--	--	--
Ca7_P3_24561191	Ca7	24561191	TAA/TA	CCCACCCCTATCTGTC ATGT	TGACATTGCTGAGGAG CTTG	59.7	766	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 (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
Ca7_P3_24782937	Ca7	24782937	AGATGGTTAATGATAATGA/AGATGGT TAATGATAATGATGGTTAATGATAATG A	CGCGAACTCAATTTAC GTA	AAATGATGGTTGTTGG GCAT	59.9	696	INTERGENIC	--	--	--
Ca7_P3_24786712	Ca7	24786712	AATATATATATATATATATATAT/AAT ATATATATATATATATATATATAT	ACAGACCCGACCAAGT CAAC	TCAAACATTTAACGATC ACCAT	60.0	447	DRR	Ca_19894	GC	HSF
Ca7_P3_24845569	Ca7	24845569	CTTT/CTTTT	TAAACGGCTTGCCTCT GACT	TCCTTCCAAGACATCG GTTC	60.0	412	INTERGENIC	--	--	--
Ca7_P3_25060530	Ca7	25060530	GTTTTTTTT/GTTTTTTTTT	TTGTCGATTTGGCACTT CAG	TGAATGTGGATCCCCT CAAT	59.8	327	INTERGENIC	--	--	--
Ca7_P3_25111194	Ca7	25111194	AATATATATATATA/AATATATATATA TATATA	GGGATTGAGAGGAGAG GGTC	ATTTAAATGTCGTGAC CGGC	60.0	489	INTERGENIC	--	--	--
Ca7_P3_25133201	Ca7	25133201	ATATTATTATTATTATTATTATTATT AT/ATATTATTATTATTATTATTATT ATTATTAT	CTCAATCGTGGGTGAC CTTT	TCCTACGTATCCCCAA GTGC	60.0	381	INTERGENIC	--	--	--
Ca7_P3_25157289	Ca7	25157289	CTTGTTGTTGTTGTTGTTGTTGTT GTTGTTGTTGTTGTT/CTTGTTGTTGTT GTTGTTGTTGTTGTTGTTGTTGTT	CATCTTCATTGCCTCCC ACT	CGTTGCACGAAGACC ATTA	60.1	214	INTERGENIC	--	--	--
Ca7_P3_2525335	Ca7	2525335	CAATACAATTGATTAATA/CAATACAAT TGATTAATACAATTGATTAATA	TGGTGGAAAAATAGCA TTTGG	CCTCTCCCGAATGACT CAAG	59.8	868	INTERGENIC	--	--	--
Ca7_P3_25302232	Ca7	25302232	ATTTTTTTTTT/ATTTTTTTTTT	TTGGGTGATTGTGTTT CCA	TGGCACAAAGATTACG ACCA	59.8	750	INTERGENIC	--	--	--
Ca7_P3_25342809	Ca7	25342809	TAAAAAAA/TAAAAAAA	CATTCAACAGCCACAT GACC	CGGTACCGCATTCGAG TATT	60.0	642	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 (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
Ca7_P3_26056806	Ca7	26056806	CTTTTT/CTTTTTTTTT	GTTGCCACTTGGCGTA AAAT	GGCCGATTACTGCTC ACAT	60.0	393	INTERGENIC	--	--	--
Ca7_P3_26075420	Ca7	26075420	TTATATATATAT/TTATATATATATAT	TATTTTGGATTTTGGCT CGG	TTTGATCAAGGAGAA ACGG	59.9	584	INTERGENIC	--	--	--
Ca7_P3_26118670	Ca7	26118670	TTATATATATATATATATATA/TTATATA TATATATATATA	CGGGACTAGAAAGCAA CGAG	TTTTATAGTGGAGGCC AGGG	60.0	691	INTERGENIC	--	--	--
Ca7_P3_26160184	Ca7	26160184	AG/A	GTGGCTACCTTCTTGG GTGA	TTTCATCGCCGAAACC TATC	60.1	141	INTERGENIC	--	--	--
Ca7_P3_26221720	Ca7	26221720	AATATATATATATATATAT/AAATATAT ATATATATAT	CTTGGGAATTGGAGAG CAAG	GGGTTCTTTCTTGA AGCC	59.8	671	INTERGENIC	--	--	--
Ca7_P3_26228410	Ca7	26228410	GAAAAAAAAA/GAAAAAAAAAAAAA	ATGGTGCAAAATGGTG ACAA	GAAAGTCGGTGCATGG AAGT	59.8	304	INTERGENIC	--	--	--
Ca7_P3_26235537	Ca7	26235537	TTATATATATATA/TTATATATATATATA TA	TGCGACCTCAGTTTCT CAAA	GGGGTCATAGCATCCC CTAT	59.6	157	INTERGENIC	--	--	--
Ca7_P3_26240583	Ca7	26240583	G/GTAACATATT	GTTTCCACATCCAGA GGAA	GAGATCAACGTGAATT GGTCA	59.9	330	INTRON	Ca_23643	--	HD-ZIP
Ca7_P3_26248461	Ca7	26248461	G/GA	TGCATACCAGGGAAAA ATGA	TTCAATCTCCGAAATC GGTC	59.0	596	INTERGENIC	--	--	--
Ca7_P3_2625656	Ca7	2625656	CATATATATATATATATATATATATAT ATATATATATATAT/CATATATATATATA TATATATATATATAT	CCTACTACAAGGATCG GCCA	TTAGGCTCCGTATCGG ATTG	60.1	618	DRR	Ca_03215	G	--

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
Ca7_P3_26427819	Ca7	26427819	ATTTTTTTTT/ATTTTTTTTT	TCTTCACACAATCTCCC CAA	CATTGTCTAGCCCCTT TGAG	59.1	622	INTERGENIC	--	--	--
Ca7_P3_2646640	Ca7	2646640	ATATTATTATTATTATTATTAT/ATA TTATTATTATTATTATTATTAT	GGATGGAGAGCAATCC TCAA	CAAAAGCCAAGCACAT CAAA	60.2	683	INTERGENIC	--	--	--
Ca7_P3_26468080	Ca7	26468080	GAAAAAAAA/GAAAAAAAA	AAAAGCCAAGCAATG AATG	TTTGGTCTTGGGCTCT TCAG	60.1	561	INTERGENIC	--	--	--
Ca7_P3_26563030	Ca7	26563030	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTACTATTATTATTATTAT/AT GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TATTATTATTATTATTATTATTATTA TATTATTATTATTATTATTATTATTA	GCAAACAAGGCTGAAG AAGAA	CGGCTACATCCAGTCC TCTC	59.6	460	INTERGENIC	--	--	--
Ca7_P3_26567174	Ca7	26567174	TAAAAAAAA/TAAAAAAAA	TATGCATTGCAAAACAC GAT	TTCATTTTCTTCGTG GTCA	60.1	430	INTERGENIC	--	--	--
Ca7_P3_26596101	Ca7	26596101	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TTTTGTTCCTCCATG CCA	TTCGTGTGCGTTTGAC TACA	59.1	454	INTERGENIC	--	--	--
Ca7_P3_26662956	Ca7	26662956	CAA/CA	TCCAAGCTTCCTTCAAT GGT	CTCAAAAGCGCTCCAA TTTC	59.7	542	INTERGENIC	--	--	--
Ca7_P3_26691926	Ca7	26691926	C/CTATT	CGGTGTGGTGTTATTC GTTG	TGCAAGAGACCGAAGA AGGT	59.9	443	INTERGENIC	--	--	--
Ca7_P3_26694678	Ca7	26694678	TCCCCC/TCCCCCCCCC	CTCGCCATCCGAGAT ATAA	GCTCACTAACTCTGCC TGGG	60.0	881	CDS (FRAME SHIFT)	Ca_16250	--	--
Ca7_P3_26696024	Ca7	26696024	C/CAGATAAGGGGA	CGTACACATTCGACG ATTG	CCGGCTTAGCTACGAT CTTG	60.0	635	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 (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
Ca7_P3_27081077	Ca7	27081077	TATTTT/TATTTTAAATTTAAATTTT	ACCATGACGTCTCCAA CACA	ACCGCCACAAATGTTA AAGC	60.0	613	INTERGENIC	--	--	--
Ca7_P3_27115436	Ca7	27115436	GATATATATATATATAT/GATATATATAT ATAT	CAATTCCACAGGTAC GCTT	CAAACCTAATTTTCA AACACG	60.0	347	INTERGENIC	--	--	--
Ca7_P3_27272092	Ca7	27272092	CTTT/CTT	ATTTAGAGGCGAAGTT GCGA	GATTCCTTCTTAA CGCC	60.0	540	INTERGENIC	--	--	--
Ca7_P3_27341260	Ca7	27341260	A/AG	CACGATCCACACAAA ACAC	TCTCCCTCCTTCTCC ATTT	59.9	382	INTERGENIC	--	--	--
Ca7_P3_27346895	Ca7	27346895	TTATATATATATATATATAT/TTAT ATATATATATATATATATATAT	TGCTTGATTGCTTGAGT TCC	CGCGCAGATTGTCAA TAGA	59.0	641	INTERGENIC	--	--	--
Ca7_P3_27410630	Ca7	27410630	TTTATTATTATTATTATTATTA/TTAT TATTATTATTATTATTATTA	GGAGGAGGAAAAGAT GAGG	AATTTGACACTTTCACC GGC	60.0	463	INTERGENIC	--	--	--
Ca7_P3_27521328	Ca7	27521328	CAAA/CAA	GCCAAATCCCTCTTTC TCC	CCTTCCACACAACCA CAGA	60.0	393	INTERGENIC	--	--	--
Ca7_P3_27530025	Ca7	27530025	TG/TGAAAAG	TCAAATGAGGCAAGTG CAAG	TTGAAAAGGGCCAAC TGTC	60.0	259	INTERGENIC	--	--	--
Ca7_P3_27641750	Ca7	27641750	T/TAATGAC	AATGACGACGACGATG ATGA	TCCTCTGCAGATCCT CCTA	60.1	327	DRR	Ca_16215	--	--
Ca7_P3_27761690	Ca7	27761690	TTATATATATATATATATATAT/TT ATATATATATATATATATAT	AAATTCGAGCACTTAC GCT	GTTTGTGAGTAAGCTC GCC	60.0	873	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
Ca7_P3_2776778	Ca7	2776778	TATTATTAT/TATTATTATGATTATTAT	TTTTCGACACTTGATC GTT	GAAGTGTGTGTGATCC GGTG	59.3	431	INTERGENIC	--	--	--
Ca7_P3_27774210	Ca7	27774210	TAAAAAAAA/TAAAAAAAA	TGGGGGAAGTTCTCAT CAAG	TTGCCTTCTCAAACA GACC	60.0	597	INTERGENIC	--	--	--
Ca7_P3_27819009	Ca7	27819009	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA AA	CAAAAGGGCAACATGC CTAT	GCAAGATCGCATTCCT GTCA	60.0	454	INTERGENIC	--	--	--
Ca7_P3_27903023	Ca7	27903023	TGG/TG	TTCCAGTCGGACCTA TGAG	AGGCCACATGTTGTGT GAGA	60.1	434	INTERGENIC	--	--	--
Ca7_P3_27916399	Ca7	27916399	ATT/ATTTTTTT	GGCGGCGATAATAACA AAAG	TCCTCTCCTAGAACAC CCCA	59.6	688	INTERGENIC	--	--	--
Ca7_P3_28037378	Ca7	28037378	ATTTTTTT/ATTTTTTTT	TGGCAGACAATATCGTT GGA	CTGATGCTCGGATCTA CCGT	60.1	334	INTERGENIC	--	--	--
Ca7_P3_2808679	Ca7	2808679	GAAAAAAAA/GAAAAAAAA	ACTTCCCTGTGGAACG ACAC	ATATGCACGGAACGAA AACC	60.0	431	INTERGENIC	--	--	--
Ca7_P3_28089294	Ca7	28089294	GAAAAA/GAAAAA	CGTAAAGTCCACTTCC GTTTC	CAACAGATGTTGTGCG TGTG	58.8	500	INTERGENIC	--	--	--
Ca7_P3_28094429	Ca7	28094429	GAAAAAAAA/GAAAAAAAA	ATCGGAAATGGATGTAT GCC	TGGGATGTTGCACATC TTGT	59.6	587	INTERGENIC	--	--	--
Ca7_P3_28129563	Ca7	28129563	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA AA	TCTTCACCAAAACAAAC CCA	GCATCGTAAAGTTGCA CATCA	59.0	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 (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
Ca7_P3_28185239	Ca7	28185239	CA/CATAAA	TGTTGCCCTCTTGAGTT TCA	TGGAGTGCATTTGTTT CCAA	59.4	560	INTRON	Ca_26608	--	Trihelix
Ca7_P3_28190197	Ca7	28190197	AGTTTATTGG/AGTTTATTGGTTAT TTGG	TTGGTTTATTGGGTTG GGA	ACCAGGAAAAGAAGAA GGGC	60.0	519	INTERGENIC	--	--	--
Ca7_P3_2831340	Ca7	2831340	TAAAAAAAA/TAAAAAAAAA	TGATAATCTCGCGGGA TAGG	GAATTGCCGAAAATG ATTGA	60.0	465	DRR	Ca_03193	K	GATA
Ca7_P3_28317021	Ca7	28317021	ATTTTTTTTTT/ATTTTTTTTTT	GATCCCATGTATGGTG AGGG	CTGTCTGTTGCAGCTG GTGT	60.0	481	INTERGENIC	--	--	--
Ca7_P3_28353975	Ca7	28353975	AATATATATATATATAT/AATATATAT ATATAT	ACGGAAACAATGGAC GATG	TGGTGTGGAGTCATG CTTT	60.8	215	INTERGENIC	--	--	--
Ca7_P3_28373395	Ca7	28373395	TTTCTTCTTCTTCTTCTTCTTC/TTT CTTCTTCTTCTTCTTCTTC	CGAAAGCACCTTCTGC ACAC	GTAACGACGCGATGA ATT	59.6	485	INTERGENIC	--	--	--
Ca7_P3_28381412	Ca7	28381412	GATATATATATAT/GATATATATATAT ATAT	AATGTGCAGGGTGTGA AACA	CCTCAGTTGGATCGAC TGGT	60.0	384	INTRON	Ca_18923	R	--
Ca7_P3_28400986	Ca7	28400986	CATATATATATATATATATATATATAT AT/CATATATATATATATATATATATA TAT	TCGAGTTATTCGCATGT GTATTG	ACTTTATCCGTTGCGG TGAC	60.0	288	INTERGENIC	--	--	--
Ca7_P3_28428539	Ca7	28428539	AATATATATATATATATATATATATAT ATATATATAT/AATATATATATATATA TATATATATATATATATATATATATAT	CGTGCTTTTTGTGTTTC CCT	AACTAGACGACGTGAT CGGC	60.1	506	INTERGENIC	--	--	--
Ca7_P3_28451984	Ca7	28451984	CAAAAAAAAA/CAAAAAAAAAA	GGTGACGACATTGAGA GGGT	CACGGGCAAGTAAGCA AGAT	60.0	652	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
Ca7_P3_28462671	Ca7	28462671	ATATTATTATTATTATTATTATTATT ATTATTATTATT/ATATTATTATTATTAT TATTATTATTATTATTATTATT	GGCGTTGGTTTCACTC AAAT	GTTGCATGAAGGCAAA GGAT	60.0	600	INTERGENIC	--	--	--
Ca7_P3_28529637	Ca7	28529637	ATTTTTTT/ATTTTTTTT	CAGACCAGACCGTGCT TTTT	ATGTGGCCTGTCATAG GCTT	60.3	498	INTERGENIC	--	--	--
Ca7_P3_28557235	Ca7	28557235	TACTTA/T	TGCGATGGAAATGGTA TTGA	CACAACACCGAGAGAA CGAA	59.9	233	INTRON	Ca_18943	L	C3H
Ca7_P3_28561460	Ca7	28561460	CCAC/CCACAC	CACTGCTTTAGCAACCA CCA	TTCTAGAAGCGGCGTT GTTT	59.9	678	DRR	Ca_18943	L	C3H
Ca7_P3_28562877	Ca7	28562877	AGTACAAGTACAAGT/AGTACAAGTAC AAGTACATGTACAAGTACAAGT	AAGCAACACAGCACAA CCAA	TTGAGCACCACATTCA GAGC	60.3	658	INTERGENIC	--	--	--
Ca7_P3_28615286	Ca7	28615286	TAAAAAAAAA/TAAAAAAAAA	GAATATTGAATTGTGGC TGGC	AGCATGTGCACCATGT GTTT	59.4	706	INTERGENIC	--	--	--
Ca7_P3_28698838	Ca7	28698838	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	TCCACACAAAAACCCAA TCA	CCTGTGCAGAAGTTGC TTGA	59.8	691	INTRON	Ca_18957	--	--
Ca7_P3_28702659	Ca7	28702659	ATCCTCC/ATCC	TCCATTAACCCCTCTTGA GGAAA	TCAGGATGAAGAAGGG GAGA	59.9	531	INTERGENIC	--	--	--
Ca7_P3_28706973	Ca7	28706973	T/TTAAGGTAC	TCACCCATCTTCACTC TTGTCA	TTGGTTTTTGATGGTG GGAT	59.6	503	INTERGENIC	--	--	--
Ca7_P3_28707412	Ca7	28707412	GAAATAACAATAAAAAACAATAACAATA AAA/GAAATAACAATAAAAAACAATAAC AATAAAAAACAATAACAATAAAAA	ATCCCACCATCAAAAA CAA	GATATGTTCCGAGTGC CGTT	60.0	491	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 (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
Ca7_P3_28889070	Ca7	28889070	ATTTTTTTTT/ATTTTTTTTT	AAGACCAAAGGCTTCA GCAA	TTCCGCTGCTCGTAA TTCT	60.0	541	INTERGENIC	--	--	--
Ca7_P3_2900774	Ca7	2900774	TTAATAATAATAATAATAATAATAA TAA/TTAATAATAATAATAATAATAA TAATAATAA	GTCTCGGGTCTCTTCC TTCC	TTGCCCTGATTTTATA CCAA	60.2	789	DRR	Ca_03186	L	bHLH
Ca7_P3_29076436	Ca7	29076436	GTTTTTTTTTTT/GTTTTTTTTTTT	CCGAGAGAATTATTACC CATACA	CCATTTTGCTTTGGC GTAT	57.9	412	INTERGENIC	--	--	--
Ca7_P3_29119308	Ca7	29119308	GGAGAGAGAGAGAGAGAGAGAGAGA GA/GGAGAGAGAGAGAGAGAGAGAGA GA	CCACAAGGAAGTTCGG AAGA	CTCCCAACGCTCTCG TAAG	60.2	190	INTRON	Ca_11796	FE	--
Ca7_P3_29215835	Ca7	29215835	T/TG	CAACACACATTGTT CCAA	CGGTGAAAATAGAGGG ACCA	57.9	560	DRR	Ca_11784	--	--
Ca7_P3_29245826	Ca7	29245826	AATATATATATATATATATA/AATATA TATATATATATATATATATA	ATTTCAGCATGCCAAT TTC	GCAACATTGGGTGTTG TTTG	59.9	516	INTERGENIC	--	--	--
Ca7_P3_29280548	Ca7	29280548	ATATTATTATTATTATTATTATTATT ATT/ATATTATTATTATTATTATTATT TATT	TTGTTTGAAAAACCAAT ATGACA	TTGCAACTACCAAAATA AACAAITTC	57.2	875	INTERGENIC	--	--	--
Ca7_P3_29311995	Ca7	29311995	ATATTATTATTATTATTATTATTATT ATTATTATTATTATT/ATATTATTATTAT TATTATTATTATTATTATTATTATTAT TTATTATTATTATT	TCATCGAAAACCTCAAA AACTATGA	GATGCAGGTCATGAAA CCAA	59.2	494	INTERGENIC	--	--	--
Ca7_P3_29326465	Ca7	29326465	TTATATATATATATATATAT/TTATAT ATATATATATATATAT	GAAGTCAACGGAATCT CATCC	TGAATAGAGGATGTCG TGTGAAA	58.6	392	INTERGENIC	--	--	--
Ca7_P3_29416457	Ca7	29416457	ACC/AC	AAAATCATTACTCACCA TAAGTGAA	TGCTCTCCTCCTTCAA CAACT	59.3	436	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 (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
Ca7_P3_29416537	Ca7	29416537	ATATAAATTATAAATTATAAATTAT/ATA TAAATTATAAATTATAAATTATAAATTAT	AAAATCATTACTCACCA TAAGTGGAA	TGCTCTCCTCCTTCAA CAACT	59.3	436	INTERGENIC	--	--	--
Ca7_P3_29416730	Ca7	29416730	AAGAAGTTGTTGAAGGAG/AAG	ATTGTAGAAGGAAGAG GAGAAGCA	AAAAAGCTGATGTGTA CCTGTTGA	59.9	100	INTERGENIC	--	--	--
Ca7_P3_29417874	Ca7	29417874	ATTT/ATT	AGTTGTTGAAGGAGGA GAGCA	TTGTAGGCTGGACATC ATGC	59.1	645	INTERGENIC	--	--	--
Ca7_P3_29418101	Ca7	29418101	C/CT	CATGTACACGTCACATC GGA	TTGTAGGCTGGACATC ATGC	59.0	329	INTERGENIC	--	--	--
Ca7_P3_29433568	Ca7	29433568	T/TG	AGGCATGATTCAAGGT ACGG	CAGGTGAAGGTCCATT TCGT	60.0	278	DRR	Ca_11776	--	--
Ca7_P3_29446201	Ca7	29446201	ATTTTTTTTT/ATTTTTTTTTTT	CGTTGCGCATGTGTAA TTTG	TCATTCCCAACATTATT TCGTG	61.1	639	DRR	Ca_11775	R	--
Ca7_P3_2946667	Ca7	2946667	CTTTTTTTTT/CTTTTTTTTT	GATGGATCTGCTGGGA CCTA	CGCACTTAATGCACAC CAAC	60.0	485	INTRON	Ca_03180	T	E2F/DP
Ca7_P3_29470400	Ca7	29470400	ATTTTTTT/ATTTTTTTTT	CGATTTTGTTGTGATTT GTGC	GCAAAATGTTTTCTGC GGTT	59.1	542	DRR	Ca_11771	--	ERF
Ca7_P3_29475338	Ca7	29475338	ATTT/ATT	ACGGAAGGTAGCAAAA TTGG	TTGTGGCTCACTTATG GTGAA	59.1	801	INTERGENIC	--	--	--
Ca7_P3_29547777	Ca7	29547777	AT/ATT	TGCAGATTAAGACGCG ATTG	TAGCTTTTCTGGGGTG GATG	60.0	419	INTRON	Ca_11767	--	SBP

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 (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
Ca7_P3_2958870	Ca7	2958870	CTTTTTTTTTTT/CTTTTTTTTTTT	TTTATTGGGAAGAGGG GAAAA	GGTAGGACTTACTGTC CCAGGAT	59.8	349	INTERGENIC	--	--	--
Ca7_P3_29610109	Ca7	29610109	TCCC/TTCCCC	AACAGAAAGAAGGCCG TTTG	TGAGTTAAGCCCCGCT AGAA	59.4	134	DRR	Ca_11764	--	--
Ca7_P3_29682311	Ca7	29682311	GGTTTTATATAAGTTGTTTTATA/GG TTTTATA	AAAATTCATTCTCGCAT CGC	CACTTGGTCTGCTCGC ATAA	60.2	639	INTRON	Ca_11755	--	--
Ca7_P3_2977293	Ca7	2977293	CTTTTTTTTTTT/CTTTTTTTTTTT	CCCCAATATCTCTGCAC TCC	GCAACTCGTCCAATCA GGTT	59.5	456	INTRON	Ca_03176	R	--
Ca7_P3_29776063	Ca7	29776063	TAAAAAA/TAAAAAA	TGGTTACACTTCGTGG CAAA	CATGGGCACTACATCG TCAC	60.1	679	INTERGENIC	--	--	--
Ca7_P3_29885289	Ca7	29885289	TAAAAAA/TAAAAAA	TCAGGGGGTAACGAGT TTTG	ATTGCGCCCAAGAATA AATG	60.0	713	INTERGENIC	--	--	--
Ca7_P3_29987440	Ca7	29987440	AAATAATAATAATAATAATAATA/AA ATAATAATAATAATAATAATAATAA TAATAATA	GAACATGGTTGATTGG ATTGC	CTCCTCGTTGTGTTGG ATCA	60.2	751	INTERGENIC	--	--	--
Ca7_P3_29996051	Ca7	29996051	GAAAAA/GAAAAAA	GGCCAGCACTAATTC AGGA	CGAACCGATAAAACT AATCTGG	60.2	774	INTERGENIC	--	--	--
Ca7_P3_30001737	Ca7	30001737	ATC/ATCTC	TATGATTCGTTTGGG TGTT	CAGAGATGGTGGTGGT TGTT	60.1	511	INTERGENIC	--	--	--
Ca7_P3_30009196	Ca7	30009196	A/AC	AATTGTGGTTGTGGTT CGGT	GATGGTGCTGGGGAAT CTAA	60.1	881	INTRON	Ca_11728	--	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_30011389	Ca7	30011389	TC/T	AGAATTTTCGTGGTCT TCG	CCACTGCCAACCTGGT ATTC	59.2	898	DRR	Ca_11728	--	bHLH
Ca7_P3_30011617	Ca7	30011617	ATTTTT/ATTTTTTT	TTTGGTTCACCAATTAT TACAAGC	CCACTGCCAACCTGGT ATTC	59.4	670	DRR	Ca_11728	--	bHLH
Ca7_P3_30015369	Ca7	30015369	GTTT/GTTTTT	CCAAAATTAGAAAAGCT TTGAACG	CCCCAAGCAAAAGAAA CAAA	60.5	562	INTERGENIC	--	--	--
Ca7_P3_30015428	Ca7	30015428	TAA/TAAA	CCAAAATTAGAAAAGCT TTGAACG	CCCCAAGCAAAAGAAA CAAA	60.5	562	INTERGENIC	--	--	--
Ca7_P3_30016977	Ca7	30016977	TATA/T	CAACGGTTGGAACAAA TTGA	TCAGAATGAAGCGACG TGAC	59.4	767	INTERGENIC	--	--	--
Ca7_P3_30019715	Ca7	30019715	CATAT/CAT	CGCACTTCTCAAATGAA CGA	CGACCCTTCTGCATTG ATCT	60.0	648	INTERGENIC	--	--	--
Ca7_P3_30020338	Ca7	30020338	TG/T	AGATCAATGCAGAAGG GTCG	GAGCTTGCAAATGCCA TAAA	60.2	324	INTERGENIC	--	--	--
Ca7_P3_30024153	Ca7	30024153	A/AT	GCCAAAGGAGAGAATG CTTG	GTGGGGATATAGGGTT GGCT	60.0	823	INTRON	Ca_11727	--	--
Ca7_P3_30026167	Ca7	30026167	C/CTTTAATTGT	CGGAACCTGATTTCGG ATGT	ATCCAATCAGCAATGC ATCA	59.9	653	INTRON	Ca_11727	--	--
Ca7_P3_30035988	Ca7	30035988	GAAAAAA/GAAAAAA	CAACTTCACTTGC GGAT TCA	ACAATTCCATGTGCTG GTGA	59.8	623	DRR	Ca_11724	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 (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
Ca7_P3_30039331	Ca7	30039331	CAAA/CA	AACAGGTCGGCTTCAT CATC	GGAAGGATATGAGCGT CCAA	60.1	223	INTRON	Ca_11724	O	--
Ca7_P3_30042599	Ca7	30042599	ATGCG/A	TGCGAAGTAGTTTGA TGTGG	ACGGATGAAACTGCCG TAAC	60.2	617	INTERGENIC	--	--	--
Ca7_P3_30042952	Ca7	30042952	TAAAAAA/TAAAAA	GTTACGGCAGTTTCAT CCGT	CAAGCAAAAACCCAA CTTCC	60.0	662	INTERGENIC	--	--	--
Ca7_P3_30046644	Ca7	30046644	GCC/GC	GCCTCAACACAGTTTC CATT	AGGGGGATGTGAAATT AGGG	60.0	108	INTERGENIC	--	--	--
Ca7_P3_30047737	Ca7	30047737	GTTTTTTTTT/GTTTTTTTTT	ACTTCATCCCCGACTA CCT	TGCCATTACACACAC ACACA	59.8	485	DRR	Ca_11723	O	GeBP
Ca7_P3_30053648	Ca7	30053648	CAAAGT/C	GGACTGAAAAGAAAAAT ATGCGA	GTGCTCTCTTTTGCCG ATTCT	59.6	774	INTERGENIC	--	--	--
Ca7_P3_30057009	Ca7	30057009	AGG/AGGG	CAAGACCCATTGCCAA AAGT	AACCAACAAGCAGCCA TTCT	60.0	476	INTRON	Ca_11722	P	NF-YB
Ca7_P3_30059154	Ca7	30059154	AGG/AGGG	GTGCAGTGCTGTTTT TGGA	CAAATTGGCAACCTGG TTCT	60.0	481	INTRON	Ca_11722	P	NF-YB
Ca7_P3_30059206	Ca7	30059206	AAAGAAG/AAAG	GTGCAGTGCTGTTTT TGGA	CAAATTGGCAACCTGG TTCT	60.0	481	INTRON	Ca_11722	P	NF-YB
Ca7_P3_30059256	Ca7	30059256	GGTGTG/GGTGTGTG	GTGCAGTGCTGTTTT TGGA	CAAATTGGCAACCTGG TTCT	60.0	481	INTRON	Ca_11722	P	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 (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
Ca7_P3_30059401	Ca7	30059401	CAAAA/CAAAA	GTGCAGTGCTGTTTC TGG A	CTTTAGCTAACGGGTG CTCG	60.0	624	INTRON	Ca_11722	P	NF-YB
Ca7_P3_30070754	Ca7	30070754	AT/A	AACAGGAACTCACCGA CAGC	TCAAATGTTTCGGTCTT CTTCTC	60.3	565	INTERGENIC	--	--	--
Ca7_P3_30072048	Ca7	30072048	ACAAAG/A	GCCATGGGAATAAAGA GTGC	TAATGGCCAAACGTTT CAGG	59.5	139	INTERGENIC	--	--	--
Ca7_P3_30072900	Ca7	30072900	GTTTTT/GTTTTTT	TGAGATTGGAACATAAC GGTGA	TCAAATTTTCAAGCAA ATCCC	59.6	667	INTERGENIC	--	--	--
Ca7_P3_30073920	Ca7	30073920	CAA/CA	TTGATCAAAACAATACG TGTGC	GCCAAATGGGTGCTGAT TATT	58.6	544	DRR	Ca_11719	--	NAC
Ca7_P3_30078953	Ca7	30078953	GAAA/GAAA	ATGCCAAAACGTAGCA AAGC	CGCACCACTTTCCATC ATAA	60.3	749	INTERGENIC	--	--	--
Ca7_P3_30096152	Ca7	30096152	GTTTTT/GTTTT	GGCTTGGACGAATCGT GTTA	AACAAACGCGTGAAT CTCC	61.0	333	INTERGENIC	--	--	--
Ca7_P3_30097365	Ca7	30097365	GTAATTAA/GTAA	CCGGCAAACAATTTTCT CAT	TCAAACCTCCCCCTT TTCT	59.9	613	INTERGENIC	--	--	--
Ca7_P3_30098086	Ca7	30098086	AGGG/AGG	TGAGAATGAAGGGAT ACGC	ACGACCTTCGACGAAA ACAT	60.0	340	INTERGENIC	--	--	--
Ca7_P3_30099385	Ca7	30099385	AT/ATTT	TGGGCACATGTCACAA AACT	TGAGGTATGGGAAGG GTGAG	60.0	840	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 (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
Ca7_P3_30102321	Ca7	30102321	GTTTTTTTTT/GTTTTTTTTTTTTT	GCTCTGATTCCGTCGA GAAC	TGTGTGATTGCCCCAG TTTA	60.0	577	DRR	Ca_11717	--	bZIP
Ca7_P3_30102864	Ca7	30102864	GA/G	TAAACTGGGGCAATCA CACA	TGATTATGCAGCAACC AAAA	60.0	585	DRR	Ca_11717	--	bZIP
Ca7_P3_30107818	Ca7	30107818	TA/TAACCAGTTTATAA	GAAGGCTGCAACTCCT TGAC	AACGTGAAACCCACCA AAAC	60.0	764	INTRON	Ca_11716	T	WRKY
Ca7_P3_30107844	Ca7	30107844	TCCC/TCCCC	GAGCTCGGAGATGGTT CTTG	CCACCAGTAAACTCTG CCGT	60.0	680	INTRON	Ca_11716	T	WRKY
Ca7_P3_30129218	Ca7	30129218	C/CATT	ACAACGAGTGCCGGTT ATTC	ATCGCAAATTCAAAGC CATC	60.0	360	INTRON	Ca_11715	U	--
Ca7_P3_30130016	Ca7	30130016	T/TA	CCACGTGAGTTACCAT GCTG	TCCACGTACGTTTAGC CACC	60.2	674	INTRON	Ca_11715	U	--
Ca7_P3_30130333	Ca7	30130333	CTTT/CT	GGTACGGTACGGTGGC TAAA	TCTCCGATCCATAATAA TTGACCTA	59.9	302	INTRON	Ca_11715	U	--
Ca7_P3_30131573	Ca7	30131573	ATTTTT/ATTT	TGTTTTCGGCTAACACA TCG	TGCAATGTCCAACCTCA CTTGT	59.7	372	INTRON	Ca_11715	U	--
Ca7_P3_30131606	Ca7	30131606	CAAAA/CAAAA	TGTTTTCGGCTAACACA TCG	TGCAATGTCCAACCTCA CTTGT	59.7	372	INTRON	Ca_11715	U	--
Ca7_P3_30132345	Ca7	30132345	AC/A	GGGGGTCATCACCCTA AACT	TGATGACCGTGTAGGA ACCA	60.1	139	INTRON	Ca_11715	U	--

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
Ca7_P3_30154060	Ca7	30154060	TAAAAAAAAA/TAAAAAAAAA	AAATGACCAAATCGGC AAAA	TTTAAAGTCGACAGTT TAGCTTC	60.3	533	INTERGENIC	--	--	--
Ca7_P3_30159383	Ca7	30159383	CATATAT/CATAT	ACAAGCGAGTTCACCT CACG	TTCCCGCAGATATGTT AGGC	59.1	610	INTERGENIC	--	--	--
Ca7_P3_30161331	Ca7	30161331	GTTTTTTT/GTTTTTTT	TTTCCTCAATTTGTCGG CTC	GACAAAGAGAAATGTG GACCAA	60.2	187	INTRON	Ca_11712	Q	B3
Ca7_P3_30161681	Ca7	30161681	TAA/TAAAA	TTTCCTCAATTTGTCGG CTC	TGCAATTGTAGAATCT CTCAAACA	60.2	723	INTRON	Ca_11712	Q	B3
Ca7_P3_30161768	Ca7	30161768	ATTTTTTTTT/ATTTTTTT	TTTCCTCAATTTGTCGG CTC	TGCAATTGTAGAATCT CTCAAACA	60.2	723	INTRON	Ca_11712	Q	B3
Ca7_P3_30161856	Ca7	30161856	TA/TATATAAA	TGGTCCACATTTCTCTT TGTC	TGCAATTGTAGAATCT CTCAAACA	60.5	557	INTRON	Ca_11712	Q	B3
Ca7_P3_30162231	Ca7	30162231	TCCC/TCC	TTTTTACAAAACTTTGA ACCTCCT	TGTTGTCCAGCTCTTG TTGG	57.6	617	INTRON	Ca_11712	Q	B3
Ca7_P3_30190640	Ca7	30190640	ATTTTATTTTTATTTT/ATTTTATTTTTAT TTTTATTTT	GTCCACATTGCTGGCC TTAT	GACAATGTCCAACCAC GAGA	60.0	424	INTRON	Ca_11709	U	--
Ca7_P3_30191256	Ca7	30191256	ATTT/ATTTT	CTCAATCTCGTGGTTG GACA	GCCAACAAGCATTTC CCTA	59.7	560	INTRON	Ca_11709	U	--
Ca7_P3_30192681	Ca7	30192681	TAAAA/TAAA	TGTCCGAGTCATTTTGT CAT	TCCCATGGTTCAAAG TTGT	59.1	541	INTRON	Ca_11709	U	--

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
Ca7_P3_30201680	Ca7	30201680	CTTTT/CTTTT	GGTGGGGTTTATGGTCTTGA	ACGCCTTCTCAAGCTTACCA	59.6	842	INTERGENIC	--	--	--
Ca7_P3_30205006	Ca7	30205006	G/GTTT	AAAGAGGGGGTTGAGGCTTA	TTGTGTTTGTTCAAAAGGAGG	60.1	721	DRR	Ca_11707	--	ERF
Ca7_P3_30208302	Ca7	30208302	CGA/C	TTGGACGATGTGGATTGAAA	CCATCTCAGCATGTGTTGG	59.9	642	INTRON	Ca_11706	--	--
Ca7_P3_30208770	Ca7	30208770	ATTT/ATT	CCAAACACATGCTGAGATGG	CTTCCTTTGCACGACCGTAT	60.1	707	INTRON	Ca_11706	--	--
Ca7_P3_30218967	Ca7	30218967	CTTTTTTTTT/CTTTTTTT	CCGATTTTGCAGGTCAATTT	TGCGGTTCAAAGTTATGCAA	59.9	419	DRR	Ca_11706	--	--
Ca7_P3_30220020	Ca7	30220020	CA/C	CGCTCTAGCGCAAACAAAGG	AACACCGACACCGAATTCAT	60.3	163	DRR	Ca_11705	GC	HSF
Ca7_P3_30221695	Ca7	30221695	T/TGAA	CTTGTTGATGCAATGTTGGC	TTTGCCACACAAAAACAA	60.1	538	INTERGENIC	--	--	--
Ca7_P3_30230176	Ca7	30230176	GTTTTT/GTTTT	ACAATTGCTCATGCGGTACA	GGTGATTACGACACATTGGC	60.1	540	INTERGENIC	--	--	--
Ca7_P3_30240597	Ca7	30240597	GTTTTTTTTT/GTTTTTTTTT	TAAATGCGGCAATGTCAAAA	TCTGAGCATGCAATAATAACC	60.1	646	INTERGENIC	--	--	--
Ca7_P3_30249579	Ca7	30249579	ATTTTTTTTTT/ATTTTTTTTT	TTTTTCAGAAAGTCGCATCCC	AGCTTCGGCTTAATTTGGCT	60.2	392	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 (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
Ca7_P3_30251129	Ca7	30251129	TG/TGCTCGTGG	ATCATTCAATGTTTCGAC GCA	AAGTCGTTTCAAATCG TGCC	60.1	419	INTERGENIC	--	--	--
Ca7_P3_3033651	Ca7	3033651	TAAAAAAAAA/TAAAAAAAAA	TCCGAATACCATTGTTC AAAA	ACGGGAATCAAGAAGA GGGT	58.0	760	INTERGENIC	--	--	--
Ca7_P3_3034764	Ca7	3034764	AATATATATATATATATAT/AATATAT ATATATATATAT	TGAGTAGCACAAATTGG AGGTTT	TTCAACGATTCAATCTA ACCGA	58.8	536	INTERGENIC	--	--	--
Ca7_P3_30394072	Ca7	30394072	AAAA/AAAAATGATAAA	GCCCAAAATTCAAAGT CCA	TGCAGGAGTTGTCACA GCTTA	59.9	506	INTRON	Ca_11690	--	MYB_related
Ca7_P3_30415200	Ca7	30415200	C/CG	CAATTCAAAGAAACCC CAGA	GTTAAATCGCCTTTTC CACG	59.1	750	INTERGENIC	--	--	--
Ca7_P3_30415401	Ca7	30415401	ATG/A	GGAGTCATTCTCTCCC ATGAA	GTCCTCGTCCCTCATG TTGT	59.1	683	INTERGENIC	--	--	--
Ca7_P3_30415603	Ca7	30415603	TG/TGG	GGAGTCATTCTCTCCC ATGAA	GTCCTCGTCCCTCATG TTGT	59.1	683	INTERGENIC	--	--	--
Ca7_P3_30424159	Ca7	30424159	A/AT	TCATCTTCGATGCAAA CCA	AGGAGGTCGCATCCAA TAAC	60.2	407	DRR	Ca_11688	--	MYB_related
Ca7_P3_3050532	Ca7	3050532	CGTTAAAGAG/CGTTAAAGAGTTAAAG AG	GCCATTTGCTTTGAAAA CAT	ATGGCAAAGAGGGTAC TCCA	59.9	537	INTERGENIC	--	--	--
Ca7_P3_3053020	Ca7	3053020	ATTTT/ATT	TATCCCTCAAACCTG ACG	AACAACAAATTGCATG GGCT	59.9	219	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
Ca7_P3_30679476	Ca7	30679476	CAAAAAAAAA/CAAAAAAAAAA	AGAGGGGCCAAGAAG TCAG	TCCTCATCCTCATGAA TTGTTC	60.7	532	INTERGENIC	--	--	--
Ca7_P3_30720515	Ca7	30720515	CTTTTT/CTTTTTTTTT	CGTTAAGGAGGGGGAA TCTC	CTATCACGGCCCGTAC TGTT	59.9	477	INTERGENIC	--	--	--
Ca7_P3_30737184	Ca7	30737184	TTATATATATATATATATATATATA /TTATATATATATATATATATATA	TCCGCTTTTATTGTGT GTCA	AATCTGAACAAGGGCC AATTA	59.2	717	INTERGENIC	--	--	--
Ca7_P3_3076524	Ca7	3076524	ATTTT/ATTT	GAAATGGATTGTGGAA GGGA	CCTCTTAGGTGTGCCT CTGC	59.7	742	INTERGENIC	--	--	--
Ca7_P3_30779876	Ca7	30779876	GAAAAAAAA/GAAAAAAAA	TGATGAGGTGAATGGC ATGT	AGGAGATGGTGATGGT CAGC	59.9	536	INTERGENIC	--	--	--
Ca7_P3_30874290	Ca7	30874290	TAA/TAAA	TTGTCTCAACAATCTCC CCC	ACCACCTCACTGCCCT ACAC	59.9	734	DRR	Ca_23317	--	--
Ca7_P3_30967683	Ca7	30967683	ATTTT/ATTTT	CCCCATGATCTTCCCTT TTT	GCAACAACTATGGC AGGT	60.1	355	DRR	Ca_23312	--	--
Ca7_P3_30981750	Ca7	30981750	TG/TGG	GGTAAGGGCTCCTTCC AAAC	GGGTCTGCACGATTTA CAAAA	59.9	967	INTERGENIC	--	--	--
Ca7_P3_31087789	Ca7	31087789	GAAAAAAAAA/GAAAAAAAAA	ATTGACACAATCTGGG GGA	TCAAAGCACATCGTGA AAGC	60.2	400	INTERGENIC	--	--	--
Ca7_P3_31112471	Ca7	31112471	TGG/TG	GCAAAGGCACTCATT CATT	GCAAAACACGAGAAG GAGG	60.1	493	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 (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
Ca7_P3_31154823	Ca7	31154823	GATATATATATATATATATATAT/GAT ATATATATATATATATATATATAT	CTGCGATAATGACGAT GACG	TGTAACCTTCTTGACTT GTCCTTTTG	60.2	627	INTERGENIC	--	--	--
Ca7_P3_31185689	Ca7	31185689	GAAAAAAAAA/GAAAAAAAAA	TTGGCCCCTTTGAGAT ATTTT	TTCCGGGTCTCTCAA AGTG	59.8	820	DRR	Ca_10140	T	--
Ca7_P3_31196591	Ca7	31196591	C/CATATTT	AAAAATTACCACCGTGA ACAA	TGTTCTTAACCTAGCT GGCGA	57.1	897	DRR	Ca_10138	--	--
Ca7_P3_31197800	Ca7	31197800	GTT/GTTT	CTGCCACCCTGTCCAT AAGT	ATCCTACTGTGGGTTT CAGC	60.0	474	DRR	Ca_10138	--	--
Ca7_P3_31201080	Ca7	31201080	C/CGGA	TGATCCACCATGTCCAT CAT	TACGACCCGACATGAA ACAA	59.6	346	DRR	Ca_10137	--	bHLH
Ca7_P3_31201587	Ca7	31201587	T/TG	TGTCCGACATCGACAC ATTT	CTCACCTGATTCCATG AGCA	60.0	445	INTRON	Ca_10137	--	bHLH
Ca7_P3_31207254	Ca7	31207254	GCACAC/GCAC	AGTGAGGATGGTTAGG GGCT	TACATGTGTCGGTTTG GGTG	60.0	235	INTERGENIC	--	--	--
Ca7_P3_31210939	Ca7	31210939	CTC/CTCAATC	CCTTTCTCAGCCCATAT CCA	TCAACAATGCAAACGA AGGA	60.0	306	DRR	Ca_10136	--	ARF
Ca7_P3_31217391	Ca7	31217391	A/AT	GGGACAAAATTGAACT GGGA	CCCTGGTGAACAGGTG TCTT	59.8	938	INTRON	Ca_10135	G	--
Ca7_P3_31217521	Ca7	31217521	GATACAT/GATACATCATACT	GACCAAGTGC AAAGGGA TGTT	CCCTGGTGAACAGGTG TCTT	60.0	460	INTRON	Ca_10135	G	--

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 (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
Ca7_P3_31219950	Ca7	31219950	TAAAAAAAAA/TAAAAAAAAA	TGTTTGCGTCCATATT TGA	AGGAGATGGGAAAA GCAAT	59.9	500	INTRON	Ca_10135	G	--
Ca7_P3_31220451	Ca7	31220451	A/AC	ATTGCTTTTCCCATCT CCT	TGGCTTTAAGGGTACT TGGC	59.9	293	INTERGENIC	--	--	--
Ca7_P3_31225268	Ca7	31225268	GAAAAAAAA/GAAAAAAAAA	CATGAGGAACATCAG GCAA	TGATGATGCAGGTCA TGGT	59.6	330	INTRON	Ca_10134	A	--
Ca7_P3_31230604	Ca7	31230604	GAAAAAAAAAAAAA/GAAAAAAAAA AAAA	TGGGATGAGTGTGCAT TTTC	TCAAAATTTAGCGCCT ACACAA	59.5	647	INTERGENIC	--	--	--
Ca7_P3_31232674	Ca7	31232674	CTTTTTTT/CTTTTTTTTT	GCAAAATAGCTCTGC GGTC	CTCTTCTCGTTGAA CGCC	60.0	565	INTERGENIC	--	--	--
Ca7_P3_31241126	Ca7	31241126	ATTTTTT/ATTTTT	TGGACAAAGCTCACAA CTGC	TCAAACCTCCCATGC AAAA	60.0	753	INTERGENIC	--	--	--
Ca7_P3_31252776	Ca7	31252776	CTTT/CTTTT	TCCATTGACTGCTCCT TTT	TTGCAACACTTTCTGG AGCA	59.7	567	INTERGENIC	--	--	--
Ca7_P3_31252979	Ca7	31252979	TTATTTATTTATTTA/TTATTTATTTATT ATTTA	TCCATTGACTGCTCCT TTT	TTGCAACACTTTCTGG AGCA	59.7	567	INTERGENIC	--	--	--
Ca7_P3_31262018	Ca7	31262018	CATATATATATATATATATATATATAT ATATA/CATATATATATATATATATAT ATATATATATATA	TTTGGTTCCATCAAGT GAC	ATGGGTATATGCCGTT TCCA	59.5	733	INTERGENIC	--	--	--
Ca7_P3_31291456	Ca7	31291456	TTGATTTACTGATTTACTGATT/TTGAT TTACTGATT	GAGCATGAGCAACACC AAGA	CCTCATGAATGGCCAA ATCT	60.0	713	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
Ca7_P3_31336610	Ca7	31336610	AATATATATATATATATA/AATATATA TATATATATATATA	TGCCACAATCAACTAT TGG	ATCCAAATTCATGCTTC CCA	59.4	341	INTERGENIC	--	--	--
Ca7_P3_31385029	Ca7	31385029	CATTATTATTATTATTAT/CATTATTATT ATTAT	GGGTGGAAATAAGTAA CACTGTTTG	TGGGTAGAAACAAAT GGGG	60.1	516	INTERGENIC	--	--	--
Ca7_P3_31406570	Ca7	31406570	CAATAATA/CAATA	GACCATCTTAATGACC GCAA	ATGCGTCGGTGCAATA ATAA	60.0	449	INTERGENIC	--	--	--
Ca7_P3_31413055	Ca7	31413055	AATATATATATATATATA/AATATATATA TATATATATA	ACCTGGAGGGTAAGGG TACG	GGTTTAATTTTCGGGC CATT	60.2	655	INTERGENIC	--	--	--
Ca7_P3_31467652	Ca7	31467652	AATATATATATATATATATATATAT /AATATATATATATATATATATAT	CACGTGTAGTGGTCGG ATGT	AATAGGGGACCAAAA CTGC	59.5	491	DRR	Ca_10111	--	--
Ca7_P3_31500210	Ca7	31500210	CCC/CCCAGGCC	GTTTCGAGATCTTTCGG TCCA	CATTGCATTGCATCTA ACCG	60.2	170	INTERGENIC	--	--	--
Ca7_P3_31507309	Ca7	31507309	GATATATATATATATATATAT/GATAT ATATATATATATAT	TAAC TTGCAAGAGGAG CCGT	TGTGTCCTACCTGCGT CAAG	60.0	454	INTRON	Ca_10108	O	--
Ca7_P3_31630725	Ca7	31630725	ATTTTTTTTT/ATTTTTTTTTTTTT	GGCTAAATTACTGTG GTCCCTT	TTTTATGGGTTTGGTT GAAAA	59.8	193	INTERGENIC	--	--	--
Ca7_P3_31745904	Ca7	31745904	TCCCC/TCCC	TGCATGGAATGGTGAG TGAT	ATTGATGGGTTTACTT GGCG	59.9	219	INTERGENIC	--	--	--
Ca7_P3_31808937	Ca7	31808937	CTATATATATATATATATATATATA /CTATATATATATATATATATATATA ATA	AACTGTACCCGAGTGA TGCC	GATACAAGGGGTTTCT GCCA	60.0	304	INTRON	Ca_10083	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
Ca7_P3_3256595	Ca7	3256595	CTCGTTCGT/CTCGT	AAAGAAAACGTCGCCT GAGA	CACGGA CTGGCTTG TAAT	60.0	559	INTERGENIC	--	--	--
Ca7_P3_32601479	Ca7	32601479	A/AGGAATGCT	CAGCAACAGCGCAAAG ATTA	GGATGACAAAGAAAG CCAA	60.2	543	INTRON	Ca_10025	TU	--
Ca7_P3_32603436	Ca7	32603436	TACA/TA	TTGCAGGATGCACAGA AAAG	TTCTCTCCCTCAGT CCCA	60.0	504	DRR	Ca_10025	TU	--
Ca7_P3_32613866	Ca7	32613866	AT/ATT	AAAAGGTGGTTAGCTC TTTGACA	GGGGCGAAAGATTTT ATTT	59.4	377	INTERGENIC	--	--	--
Ca7_P3_32635727	Ca7	32635727	CTTTTTTT/CTTTTTTTTT	GAGGGAGCTTGAGAAG GACA	CAATTACCATCACACC CCCT	59.5	249	INTERGENIC	--	--	--
Ca7_P3_32649545	Ca7	32649545	T/TC	TTGCAGGATGCACAGA AAAG	AGGTGCATCCCCTGTA ACTG	60.0	415	INTERGENIC	--	--	--
Ca7_P3_32650059	Ca7	32650059	TAATAATGTAAAAA/T	ATGGGACTGTGGGAGA GAGA	GAAAAAGGCTTCAAAC ATCAAA	59.6	398	INTERGENIC	--	--	--
Ca7_P3_32654894	Ca7	32654894	AAATAATAATAATAAT/AAATAATAA TAATAATAATAATAAT	AACGAAGTGAGACGTG AGCA	TGATGGCTATGGTGGA ACAA	59.6	618	INTERGENIC	--	--	--
Ca7_P3_32655163	Ca7	32655163	TTAATA/TTA	AACGAAGTGAGACGTG AGCA	TGATGGCTATGGTGGA ACAA	59.6	618	INTERGENIC	--	--	--
Ca7_P3_3270944	Ca7	3270944	GTTAATTAATTAATTAATTAAT/GTTAAT TAATTAAT	CAACACATGATCAGCAA CCC	TTGTCCCTTTGAAGG ACAG	60.0	376	INTRON	Ca_03141	--	--

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
Ca7_P3_32778038	Ca7	32778038	CATTTATTTATTTATTTATTT/CATTTAT TTATTTATTTATTTATTT	TTTGGACTCAATCAACA TTGACA	AAATTGTCCTTTGATTCA GCTCATTT	58.2	560	DRR	Ca_10016	L	--
Ca7_P3_32820886	Ca7	32820886	TAAAAAAAAA/TAAAAAAAAA	CCCAACATGCTTCTTGC TCT	TCATAAGAAAGTGGCT TCCCA	60.4	789	INTERGENIC	--	--	--
Ca7_P3_32929529	Ca7	32929529	T/CAATG	TCCCGAAATAGGGAAC CTCC	GAAGAGAGGGAAAGG GAAGG	60.3	665	DRR	Ca_10005	--	--
Ca7_P3_33068248	Ca7	33068248	CTTTTT/CTTTTT	CTTCTTCGTCATCCATT GGC	AAGCCTATCACTCATC CAATCAA	60.6	624	INTERGENIC	--	--	--
Ca7_P3_33069265	Ca7	33069265	AATTATT/AATT	TGACATGCATGATTCAA CTGG	TTTGAATTGGTCCCTG ATTTT	60.5	617	INTERGENIC	--	--	--
Ca7_P3_33070699	Ca7	33070699	TTAATAATAATAATAA/TTAATAATAATA ATAATAATAA	TCACAAGAACATAAGCC ATAAATCA	GGGTTTACCGTGATC ACTC	59.9	456	INTERGENIC	--	--	--
Ca7_P3_33102819	Ca7	33102819	ATT/AT	AACAGTCCCGCATTGG ATAG	CAGCACTGTCCAATT GTGC	60.0	447	INTERGENIC	--	--	--
Ca7_P3_33108892	Ca7	33108892	CTCT/CTCTGTCT	TTAGCTTTTGAGGCGT GTGA	AAAAGTGTTTGAGGGG CAAG	59.6	438	INTERGENIC	--	--	--
Ca7_P3_33124042	Ca7	33124042	AGGG/AGG	TAAAGGACCAAGTCGG GAAG	TGCCAACCCCTAACAC AACA	59.2	501	INTERGENIC	--	--	--
Ca7_P3_33134722	Ca7	33134722	ATTTTTTTTT/ATTTTTTTTT	TCGTGTGTTCAAATTC TTGA	CGGTTGGAAGTTGGAA GTGA	59.2	523	DRR	Ca_16144	--	--

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 (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
Ca7_P3_33138413	Ca7	33138413	TGG/TG	CATCCTAAAAGGACAG CCCA	AGAAGAGGCGCATGAA CAAT	60.1	522	DRR	Ca_16145	P	NF-YC
Ca7_P3_33149769	Ca7	33149769	CGG/CGGG	TCCGGTACACAACCTTT CCC	TGGCATTITTTGTGCA TTGT	59.8	624	INTERGENIC	--	--	--
Ca7_P3_33175105	Ca7	33175105	CTT/CT	TGAAGAAATCAATCATG CAAGT	AACTTGC GTTAGAGTC GGGA	57.4	598	INTERGENIC	--	--	--
Ca7_P3_33181868	Ca7	33181868	AG/A	GAGCTCTTTGGCCTTT GATG	ATATTGATGTTGGTCG GGGA	60.0	603	DRR	Ca_16149	IOT	--
Ca7_P3_33181956	Ca7	33181956	CACATA/CA	GAGCTCTTTGGCCTTT GATG	ATATTGATGTTGGTCG GGGA	60.0	603	DRR	Ca_16149	IOT	--
Ca7_P3_33189130	Ca7	33189130	TG/TGCAG	AGACATTTTGTTCAATG GATCTG	AGGAGAAATGCGAGGA AACA	58.1	462	INTERGENIC	--	--	--
Ca7_P3_33190565	Ca7	33190565	TAAAAAAAAA/TAAAAAAAAA	ACTCGGGCTAGTCCAG TCCT	TTGACGAGTTGTGAGC AAGG	60.3	720	INTERGENIC	--	--	--
Ca7_P3_33194117	Ca7	33194117	TAAAAAA/TAAAAAA	TTGACCTATATACAAA CCCAAGA	CCCACGTGCTTTTCA AGGT	58.2	796	INTERGENIC	--	--	--
Ca7_P3_33194624	Ca7	33194624	ATT/ATTT	ACCTTGAAAAGACAG TGCG	GGATTTAATCGAAATA CTGCAACA	60.0	532	INTERGENIC	--	--	--
Ca7_P3_33212883	Ca7	33212883	GA/GATTTTTATTTTCA	TTCAAAAAC TCCGAAA AGG	GGCCAATCATGTACCA AAAGA	60.2	368	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 (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
Ca7_P3_33213668	Ca7	33213668	CT/CTT	TTCTTGTGGCAATTTG TTGTC	TCTTTTCGAGGAAAG TCCAA	60.0	225	INTERGENIC	--	--	--
Ca7_P3_33213765	Ca7	33213765	GTTTTTTTT/GTTTTTTTTT	TTCTTGTGGCAATTTG TTGTC	TCTCATCACTTAAACCC ACACAA	60.0	379	INTERGENIC	--	--	--
Ca7_P3_33213840	Ca7	33213840	ATTTT/ATT	TTCTTGTGGCAATTTG TTGTC	GACTTATAAGCCACCC TTTCAA	60.0	640	INTERGENIC	--	--	--
Ca7_P3_33219414	Ca7	33219414	GT/GTT	GGGGAAAGTTGTCGTT TTCA	AAGACCCAAACAAAG AGCTAAAA	59.9	246	INTRON	Ca_16150	--	--
Ca7_P3_33219780	Ca7	33219780	CA/CAA	GGGGAAAGTTGTCGTT TTCA	GAGAAAAATTTGCATG CCGT	59.9	848	INTRON	Ca_16150	--	--
Ca7_P3_33220954	Ca7	33220954	CTATATATATATATAT/CTATATATATAT ATATATAT	CATAAGTCGCGCATTTT GAA	TGAAGGAAAGCAGAAG GGAA	59.8	507	INTRON	Ca_16150	--	--
Ca7_P3_33224999	Ca7	33224999	ATTTTTTTT/ATTTTTTTTT	AGTCACTGCTCAAGCC TGGT	TTGCTCACTTGGCTGT ATGC	60.1	909	INTRON	Ca_16150	--	--
Ca7_P3_33227269	Ca7	33227269	TTAT/TTATAT	CACACGTGCGAGGTAT GTCT	TATCGGCTGCAAGACA ACTG	59.8	916	INTRON	Ca_16150	--	--
Ca7_P3_33230173	Ca7	33230173	GTT/GT	TGGCTTGTTGTTGTT GGTA	AGACCGTGTGGAGAAT TTGG	60.0	741	DRR	Ca_16150	--	--
Ca7_P3_33230587	Ca7	33230587	GA/GAA	CCAAATTCTCCACACG GTCT	TGCGTCCATGCTTGTG TTAT	60.0	113	DRR	Ca_16150	--	--

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
Ca7_P3_33232491	Ca7	33232491	TTCATAATCATAATCAT/TTCATAATCAT	CCTTATGGGAGACATG TGGAA	CGTGGTCATGTATCGT CCAG	59.8	517	INTERGENIC	--	--	--
Ca7_P3_33237542	Ca7	33237542	CAT/CATGTTTAT	ACGTTGTCTCTTCGCT GTC	TTGGGTGATAAGGCCA AAAC	60.5	433	INTERGENIC	--	--	--
Ca7_P3_33238784	Ca7	33238784	GTATATATATATATAT/GTATATATATAT	TTCCCATGCCAATTGTA GGT	TGCACAAGAAATCGAA TGGA	60.2	592	INTERGENIC	--	--	--
Ca7_P3_33241567	Ca7	33241567	TG/T	GAGCCCTCTTTTCTTG GCT	TGTTCTCTTGTTCCCA CCA	60.0	399	INTRON	Ca_16151	--	--
Ca7_P3_33243964	Ca7	33243964	GA/GAA	CAACGGTGCAGAGTGA AAAA	TGTTTCATAACTGAAG GGGGA	59.9	624	DRR	Ca_16151	--	--
Ca7_P3_33246780	Ca7	33246780	ATGATGTTTG/ATGATGTTTGATGTTTG	GCATAATGTCTTGGGC AGGT	TTCATGACATTTTCCCC ACA	60.0	471	INTERGENIC	--	--	--
Ca7_P3_33253365	Ca7	33253365	A/AAT	TTCATCCATCAAATTGG TTCC	TGAACACATCAATCAAA CACGA	59.6	529	INTERGENIC	--	--	--
Ca7_P3_33253907	Ca7	33253907	AATA/AA	TCAAGTTGATTCAATCG CTCA	ATGGACGACAAAGGCG TTAC	59.4	955	INTERGENIC	--	--	--
Ca7_P3_33269093	Ca7	33269093	TCAACAA/TCAA	TTTGACATCCTTTTGCA CCA	CCAAATTGTCTTTGGG TGCT	60.1	637	INTERGENIC	--	--	--
Ca7_P3_33272874	Ca7	33272874	TG/TGG	GGACCCATTACTTTCC TTGTTT	TCGCTTGTTTATTTTCC CCA	59.7	375	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
Ca7_P3_33278017	Ca7	33278017	TAAAAAAAAAAAAAAAAA/TAAAAA AAAAA	CGTTTGTCCAACCCAAT AGC	TGGAAATGAGATGTG CCAA	60.4	335	DRR	Ca_16155	--	S1Fa-like
Ca7_P3_3328423	Ca7	3328423	CCCTTCACC/CCC	GCAATTGAATAGACGC GGTT	ATTGTGTCGCGACTCT GACC	60.1	327	INTERGENIC	--	--	--
Ca7_P3_33284980	Ca7	33284980	T/TTA	GCTCTGCTTACCTTGT GGT	ATAGCGTCGGCTAAAC TCCA	59.5	740	DRR	Ca_16156	R	--
Ca7_P3_3332398	Ca7	3332398	GAAGAGCTTCTGTA/GA	GGCTCGACAAAGCAAA GTCT	TTTTCGGAACCAACAA CCTC	59.6	456	INTERGENIC	--	--	--
Ca7_P3_33326344	Ca7	33326344	ATTTTT/ATTTTTTT	TTGTCGTCGTTAGAC TCCA	CATTGAACCGTGTGAA CTTTG	59.3	929	INTERGENIC	--	--	--
Ca7_P3_33327221	Ca7	33327221	TAAA/TAAAA	TGCACATAACTTGTGC GACC	TTCCATTTTCCCTTAGT GCG	60.7	658	INTERGENIC	--	--	--
Ca7_P3_33327595	Ca7	33327595	T/TG	GCATTGATCCGCCTAA AGAA	TGGGCTGTCTATCCCA ATTC	60.2	882	INTERGENIC	--	--	--
Ca7_P3_33327850	Ca7	33327850	TTATATATA/TTATATA	CGCACTAAGGGAAAAAT GGAA	TGGGCTGTCTATCCCA ATTC	60.1	438	INTERGENIC	--	--	--
Ca7_P3_33330043	Ca7	33330043	TAAAATAAA/TA	TGGCAAGAATGAAAAAT GGA	TGTAGTCGGTGATGGG ACAA	59.1	466	INTERGENIC	--	--	--
Ca7_P3_33331664	Ca7	33331664	ATTTTTTT/ATTTTTTTTTT	TATGAATAGTCGGCAA GGGG	ACAACCGTGATTCATG CAAA	59.9	607	INTRON	Ca_16158	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 (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
Ca7_P3_33334558	Ca7	33334558	AGTGTTTCATAAAGTTGTTCATAAAG/ AGTGTTTCATAAAG	CTTTCAGGAAAGTGCC TTGG	ACCAAAAGGCACCAGA GATG	59.8	682	INTRON	Ca_16158	R	G2-like
Ca7_P3_33336366	Ca7	33336366	T/TA	AAGCCAGGCGATTTAT GATG	ATCGGCAAATATCCGA GAAA	60.1	510	DRR	Ca_16158	R	G2-like
Ca7_P3_33336451	Ca7	33336451	GATTA/GATTATGGTTAATTA	AAGCCAGGCGATTTAT GATG	ATCGGCAAATATCCGA GAAA	60.1	510	DRR	Ca_16158	R	G2-like
Ca7_P3_33350171	Ca7	33350171	TG/T	TGTGGCTGAAGTCAAT GAGC	AATTTGTCTCAACAAC CCG	60.0	547	INTRON	Ca_16161	YU	--
Ca7_P3_33351722	Ca7	33351722	TAA/TAAA	AGAGGCATATGGTGAA ACCG	TTAGGCACATCAGCA CTTG	60.0	258	INTRON	Ca_16161	YU	--
Ca7_P3_33366145	Ca7	33366145	CTG/CTGTG	TGGGGAAAAGGTGTTT TCTG	TCGTGACTGCTCAAAA ATGG	59.9	811	INTRON	Ca_16162	YU	--
Ca7_P3_33368154	Ca7	33368154	CA/CAA	AAGTTTCGTTGGTCTCC GTG	AGGCCATGAATACAAC TCGG	60.1	644	DRR	Ca_16162	YU	--
Ca7_P3_33372788	Ca7	33372788	CTTTTT/CTTTTTTT	CCTGCTCAACACACT CACAA	ACTCGAACTCCCTTCA GACG	59.9	546	INTERGENIC	--	--	--
Ca7_P3_3337424	Ca7	3337424	GTATATATATATATATATATATAT ATATATATATATAT/GTATATATATATAT ATATATATATATATATATATATAT	TTTCTTCCCTCATCCTC CCT	TCGCCACATGATGAT TTTA	60.0	738	DRR	Ca_03132	R	--
Ca7_P3_33384355	Ca7	33384355	A/AC	TTAAGGGACCACAAGT GGTATT	TGGATAACCATGTCCA GACAAA	57.5	460	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
Ca7_P3_33385148	Ca7	33385148	GAAA/G	TTCATCGTTTCCCGAA CTC	GCAACAAGAACCGAA AACA	60.1	420	INTERGENIC	--	--	--
Ca7_P3_33385317	Ca7	33385317	AT/A	TTCATCGTTTCCCGAA CTC	CCTCTTGTCTTCTTGT GGCA	60.1	723	INTERGENIC	--	--	--
Ca7_P3_33409249	Ca7	33409249	GAATAATA/GAATA	AAGTGCATGGACGCAT GATA	TCCAACAATCCCAGTG AAAA	60.1	185	DRR	Ca_16164	--	C3H
Ca7_P3_33412820	Ca7	33412820	ACATATCGAATT/ACATATCGAATTTCC ATATCGAATT	TTTCTTGCTTTCAACTC GCA	CCAGTTTCTCAATCCC TTGG	59.7	548	INTRON	Ca_16164	--	C3H
Ca7_P3_33413011	Ca7	33413011	TTGTGTGTGT/TTGTGTGTGTGT	AATTTGACAACCTTGGC ACC	ATGGTGGAGGGGAGA AAAAAG	59.8	508	INTRON	Ca_16164	--	C3H
Ca7_P3_33413065	Ca7	33413065	CA/CAAA	AATTTGACAACCTTGGC ACC	ATGGTGGAGGGGAGA AAAAAG	59.8	508	INTRON	Ca_16164	--	C3H
Ca7_P3_33415578	Ca7	33415578	TAAC/T	CATCGTTGAATCGTTG GTTG	GTGCGATGTACGAATG ATGC	60.0	617	DRR	Ca_16165	U	Dof
Ca7_P3_33416224	Ca7	33416224	TTGAAAAAGTTAATATGAA/TTGAAAAA GTTAATATGAAAAAGTTAATATGAA	CAATTAGCCTATTAGTT TGCCCA	TTTTGTTTTTCCCCCTT CAA	59.6	462	DRR	Ca_16165	U	Dof
Ca7_P3_33420385	Ca7	33420385	TCCAAAAACCAAA/TCCAAAA	CCAGTTTCAACCGACAT CCT	TTTATAGTTCGCCAGG GCAC	60.0	619	INTRON	Ca_16165	U	Dof
Ca7_P3_33420924	Ca7	33420924	TC/TCC	ACCTAATCAGGGCCGA TTCT	TTGGTGTGTTGTTTCC CTGA	59.9	292	INTRON	Ca_16165	U	Dof

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
Ca7_P3_33421552	Ca7	33421552	AATATATATATATATATA/AATATATA TATATATATA	GTCTTGGGTGATGGCA AAGT	GATTCTGCCTACTCAT GTTTCAA	60.0	479	INTRON	Ca_16165	U	Dof
Ca7_P3_33423876	Ca7	33423876	AGTTGGTT/AGTTGGTTGGTT	CCCTTAGTTGGTTCATA TTATTGC	CTGAGAAAACTGGGT CCGA	58.1	493	INTRON	Ca_16165	U	Dof
Ca7_P3_33425512	Ca7	33425512	A/AT	AACCAGGCTGCCCTTT TATT	ATGCGGTGTGTGAAAT GTGT	60.0	520	INTRON	Ca_16165	U	Dof
Ca7_P3_33442845	Ca7	33442845	ATTAAAA/ATTAAATTTAAAA	CAATGAGGAGGCTGAA CCAT	CAAACCTCGCAAAGGGG TTTA	60.1	509	INTERGENIC	--	--	--
Ca7_P3_33467078	Ca7	33467078	TTTGGGCTTGGGCTTGGGC/TTTGGG CTTGGGC	CGTCGTAGGGATGTGA AGGT	TAGGGATCTTCGTCA TCGG	60.0	156	CDS (large-effect mutations)	Ca_16168	--	--
Ca7_P3_33467659	Ca7	33467659	AGTATGTATGTAT/AGTATGTATGTATG TATGTAT	AGTGCTTTTCATGAGG GTGG	GGTTCCCATCGCTTGA AGTA	60.1	423	INTRON	Ca_16168	--	--
Ca7_P3_33485683	Ca7	33485683	GAAAT/GAAATTAAT	AATTTGGGGCCTGTTTT CAC	ATCGGAACCCACTTCT CCTT	61.1	570	INTRON	Ca_16169	--	--
Ca7_P3_33485739	Ca7	33485739	ATATAT/ATATATCTTTTATAT	TAGTTGCGAATGGATG GTCA	ATCGGAACCCACTTCT CCTT	60.1	246	INTRON	Ca_16169	--	--
Ca7_P3_33521232	Ca7	33521232	ATTTTTTTTTTT/ATTTTTTTTTT	TCAAAATTTTCAACCA AACCC	ATGAATCAACGATACG GCTG	60.1	548	INTERGENIC	--	--	--
Ca7_P3_33521345	Ca7	33521345	TA/TAGA	TGTTGAACATTGTAACA GCCG	GACGAAAAATGATTTA GACGTTCA	59.6	364	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
Ca7_P3_33521411	Ca7	33521411	ATT/ATTT	TGTTGAACATTGTAACA GCCG	GACGAAAAATGATTTA GACGTTCA	59.6	364	INTERGENIC	--	--	--
Ca7_P3_33526924	Ca7	33526924	A/ACGTAG	TGGCATTGAAAAAGAA AAGG	GATGCCACCACCTGAA AGAT	60.0	721	INTRON	Ca_16172	S	M-type
Ca7_P3_33527250	Ca7	33527250	GAAAAAAAA/GAAAAAAAAA	GCATTCCACAAAATCCA CCT	GATGCCACCACCTGAA AGAT	59.8	319	INTRON	Ca_16172	S	M-type
Ca7_P3_33527602	Ca7	33527602	ATCTCTCTCTCTCTCTCT/ATCTCTC TCT	ATCTTTCAGGTGGTGG CATC	GGGCCAAACAAACTA GCAA	59.9	326	INTERGENIC	--	--	--
Ca7_P3_33533856	Ca7	33533856	GAAAAAA/GAAAAAAA	CCAAATTGGGAAGAGC TGAA	ATGCCGTGAAGATTCC ATTC	60.2	546	INTERGENIC	--	--	--
Ca7_P3_33534157	Ca7	33534157	AT/ATT	GAATGGAATCTTCACG GCAT	AATCATGCGCAAATAT GGGT	59.9	308	INTERGENIC	--	--	--
Ca7_P3_33535580	Ca7	33535580	AT/A	TGCAATGAAAACACTG GGAG	AAAGTTCTCATTCAGC ATTACGG	59.7	246	INTERGENIC	--	--	--
Ca7_P3_33535802	Ca7	33535802	TAAAAAA/TAAAAAAA	TGCAATGAAAACACTG GGAG	GCTTCCCTGTAAAAAG GTTGG	59.7	712	INTERGENIC	--	--	--
Ca7_P3_33539042	Ca7	33539042	TA/TAA	GGTAAATATGTGCATG GCC	GGATTAGCACCGTCCA ATTT	60.0	722	INTERGENIC	--	--	--
Ca7_P3_33539096	Ca7	33539096	AA/AATA	GGTAAATATGTGCATG GCC	GGATTAGCACCGTCCA ATTT	60.0	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_33539636	Ca7	33539636	GTTTT/GTTT	AAATTGGACGGTGCTA ATCC	CACGAAAGTTTCATC ACAAA	58.9	243	INTERGENIC	--	--	--
Ca7_P3_33555164	Ca7	33555164	CAATTAAT/CAAT	TCATGGGATCAAACCC ATATC	TAATGATTTTTGGACGT GCG	59.5	632	INTERGENIC	--	--	--
Ca7_P3_33556956	Ca7	33556956	ATTATAATTTTATAA/ATTATAA	TGCGGATTTTACGCTA CCT	CCATTTTCCAATGGTT GATG	59.7	646	INTERGENIC	--	--	--
Ca7_P3_33558467	Ca7	33558467	A/AGCTT	TGAAGGACAACCTCAGT GTCACC	TGCATTTTCTCTCTTC CACTT	60.2	897	INTERGENIC	--	--	--
Ca7_P3_33558610	Ca7	33558610	CTTG/CTTGTTAGTTTTG	TTCAAGGACATTGCCAA TTTAT	TGCATTTTCTCTCTTC CACTT	58.5	492	INTERGENIC	--	--	--
Ca7_P3_33560322	Ca7	33560322	CT/CTGT	TCACACCATTGTCACCT TGAGA	CCAAAGTCCCTCATTC TTTCC	59.2	773	DRR	Ca_16175	QI	B3
Ca7_P3_33560340	Ca7	33560340	AAAAATAA/AAAA	TCACACCATTGTCACCT TGAGA	CCAAAGTCCCTCATTC TTTCC	59.2	773	DRR	Ca_16175	QI	B3
Ca7_P3_33561157	Ca7	33561157	TATCATCATCAT/TATCATCAT	CGTGTACTCCCTTTC CCTT	GGCCATTTTGTGCAGA TTTT	60.4	431	DRR	Ca_16175	QI	B3
Ca7_P3_33562209	Ca7	33562209	CTG/CTGTG	CATCTGGCAACACATC ATCC	TGTGACAAAGATGAGC CAGG	59.9	599	INTRON	Ca_16175	QI	B3
Ca7_P3_33564972	Ca7	33564972	TTATATATATA/TTATATATA	TGCTTCATTGTGTTTGT GCC	GGGATTGATTTTTCAC TTTTCAA	59.7	287	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 (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
Ca7_P3_33568045	Ca7	33568045	CT/C	GGTTGGAGGAAGGTGC ATTA	TGATCCACGACACAGA GAGC	59.9	637	DRR	Ca_16176	O	--
Ca7_P3_33575013	Ca7	33575013	TAAAAA/TAAAAAA	CAAATTGCATTTTCCTC CCT	AATAATTCACCACGAA CGGG	59.0	516	DRR	Ca_16178	I	--
Ca7_P3_33575264	Ca7	33575264	TAAAAA/TAAAAA	CAAATTGCATTTTCCTC CCT	TTGTTGGTGAGTGCTC TTGG	59.0	691	DRR	Ca_16178	I	--
Ca7_P3_33576122	Ca7	33576122	GTTTTTTTTT/GTTTTTTTTT	TAATTTAACGAACGGCC GAG	TTGGGTGACTCATGGT GAGA	60.1	410	DRR	Ca_16178	I	--
Ca7_P3_33581462	Ca7	33581462	AGTATT/A	AATCTTGGGATTGTGC TGC	TTAGCCTTTCAATATG GCGG	60.1	531	INTRON	Ca_16178	I	--
Ca7_P3_33597364	Ca7	33597364	CTAATTAATT/CTAATT	GATGTTAACGCACCTC CACC	CACACTTCGATCTCCG ATCA	60.4	483	INTERGENIC	--	--	--
Ca7_P3_33597557	Ca7	33597557	TC/T	GATGTTAACGCACCTC CACC	CGGTTTGTCCACACTT CGAT	60.4	492	INTERGENIC	--	--	--
Ca7_P3_33627476	Ca7	33627476	GAAAAA/GAAAAA	TTTCCAAGCCATGACAA TCA	ATCAAGCGTGAACCAA GGTC	60.0	322	INTERGENIC	--	--	--
Ca7_P3_33633265	Ca7	33633265	TAAA/TAAA	GAAATGGTGGTACCAA TGCC	TGAAGAAGACCAAAGC GAAGA	60.1	423	INTERGENIC	--	--	--
Ca7_P3_33633508	Ca7	33633508	ATTTTTTT/ATTTTTTTTT	TGGTTCAAATTTTGGAA GGAA	TGAATGAAGGGAAGG AAGA	59.4	693	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
Ca7_P3_33633816	Ca7	33633816	TCTTCCTTCCCTTC/TCTTC	TCTTCGCTTTGGTCTTC TTCA	TTCAAGTTCCCAACGG GTAG	60.1	900	INTERGENIC	--	--	--
Ca7_P3_33636918	Ca7	33636918	CTT/CAATTTTTTT	TTTTTCACCTTTTCACA ACCC	GGCACTTAAGTTTGGG CTGA	59.0	633	INTERGENIC	--	--	--
Ca7_P3_33638562	Ca7	33638562	AATGAAT/AATGAATATGAAT	TCGCAAGAGTTTGAC CTTT	TTCTAAAACGGAAAG CTATTTGA	59.9	643	INTERGENIC	--	--	--
Ca7_P3_33639029	Ca7	33639029	TAAAAAAAA/TAAAAAAAAA	TCAGAGCTTTGCAGTTA TGTGA	GCACATGGTTTCGAAT GTTG	58.7	555	DRR	Ca_16180	--	ERF
Ca7_P3_33639526	Ca7	33639526	T/TTGCCTTC	CAACATTCGAAACCATG TGC	TATTCACACCGACGAT TTGG	60.0	752	DRR	Ca_16180	--	ERF
Ca7_P3_33640029	Ca7	33640029	TTA/T	CCAAATCGTCGGTGTG AATA	TTTTGGAGGAGATGTT TGGG	59.4	526	DRR	Ca_16180	--	ERF
Ca7_P3_33640082	Ca7	33640082	TAA/TAAA	CCAAATCGTCGGTGTG AATA	CCTTTGTTGCTGGGA TCAT	59.4	614	DRR	Ca_16180	--	ERF
Ca7_P3_33642641	Ca7	33642641	ATTTTTTTTT/ATTTTTTTTT	CCAGGCAAAGCTAGGT GAAC	GGGTTCTGCTGTCAA TTTT	59.9	166	INTRON	Ca_16180	--	ERF
Ca7_P3_33643277	Ca7	33643277	CAAAAAAAAA/CAAAAAAAAA	CCCAATAAAATGTGGG GAAA	ATCTTGCGCCGAATT TGAG	59.5	312	INTRON	Ca_16180	--	ERF
Ca7_P3_33648393	Ca7	33648393	TTCTCTCTCTCTCTCT/TTCTCTCTC TCTCTCTCT	GGTTTAAGCCCTCAATT GCT	GGGGGATATATTGAAT GAAGAAA	58.3	755	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
Ca7_P3_33648564	Ca7	33648564	A/AT	TCCCAAATAAGCATTAG GATGAA	GGGGGATATATTGAAT GAAGAAA	59.8	317	INTERGENIC	--	--	--
Ca7_P3_33653612	Ca7	33653612	GAAAAAAAAA/GAAAAAAAAA	TGCCACATCACCCCTAA TCA	TTGGAGTTGTGCCAAT GTGT	59.9	517	INTERGENIC	--	--	--
Ca7_P3_33659410	Ca7	33659410	AAAAA/AAAAAGAAATGAAAA	AACGGAGTAGTAATGC AGCAGA	ATTCAATGATGGTGAT GCGA	59.1	242	INTERGENIC	--	--	--
Ca7_P3_33660304	Ca7	33660304	GAAAAA/GAAAAA	TCGGCAGTACCAATTT ACA	TACAACGGTTTGATCG GTGA	60.1	610	INTERGENIC	--	--	--
Ca7_P3_33660715	Ca7	33660715	GTACTA/GTACTACTA	TCACCGATCAAACGGT GTA	GGCAATTCACGAATTA TGGG	60.0	556	INTERGENIC	--	--	--
Ca7_P3_33666530	Ca7	33666530	T/TTTTTA	GATTCCCCACTTTGCAT GAT	CAATCTTCGCTTGTTTT CCTTT	59.8	430	INTERGENIC	--	--	--
Ca7_P3_33670297	Ca7	33670297	ATTTTTTTTTTTT/ATTTTTTTT	CCTAAAATTTGCCATTC GGA	TTGAACGGTCGAGTTC TAACA	59.9	979	INTERGENIC	--	--	--
Ca7_P3_33683250	Ca7	33683250	CAA/CA	AAAAACGCAAGTCATCA TCCT	GATTGAGCCGAAAGTG AAGC	58.7	427	INTERGENIC	--	--	--
Ca7_P3_33683634	Ca7	33683634	C/CCTT	GCTTCACTTTCGGCTC AATC	CACAATCAAGGCCATC AAAA	60.0	214	INTERGENIC	--	--	--
Ca7_P3_33706376	Ca7	33706376	TAAAA/TAAA	GAAAATTCAAAGGTGT AATTGCT	GAGTGCCGGAACAGA CAAAT	59.8	395	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
Ca7_P3_33719688	Ca7	33719688	AC/A	TCACATCAATGTGTTTG GACC	CATGCGTGACAGAAAG GAGA	59.3	653	INTERGENIC	--	--	--
Ca7_P3_33722781	Ca7	33722781	TAAAAAA/TAAAA	AAACAAGGAACAAATG CGG	TGCAGCTCCTAACGAT GTTG	60.0	699	INTERGENIC	--	--	--
Ca7_P3_33724426	Ca7	33724426	A/ACAT	CCTCTTTTGGTGACCA CCTT	TTTTTCTCATTGGGAG CTGG	59.0	863	INTERGENIC	--	--	--
Ca7_P3_33724685	Ca7	33724685	CAAAAA/CAAAAA	TCTCAGCAAACTAAGT CCG	TTTTTCTCATTGGGAG CTGG	59.2	297	INTERGENIC	--	--	--
Ca7_P3_33732435	Ca7	33732435	ATTTTTTTTT/ATTTTTTTTTT	GTTGATCGGGAAAAAG GGAT	GGAAGCGATAAGCACC AAAG	60.1	190	INTERGENIC	--	--	--
Ca7_P3_33732961	Ca7	33732961	TT/TTGAAAGT	CTTTGGTGCTTATCGCT TCC	TGGTCCCCCTATTTTA GCTG	59.8	919	INTERGENIC	--	--	--
Ca7_P3_33734013	Ca7	33734013	ATTTT/ATTT	ACATCACCTTCGACCA CTCC	AATGACCAAGTCGGGA AAAA	60.0	607	INTERGENIC	--	--	--
Ca7_P3_33739910	Ca7	33739910	TG/T	GCCACACCTTCTGGT GACT	AGCTCTGAGTCCATCC TCCA	60.2	512	INTRON	Ca_16182	--	--
Ca7_P3_33740406	Ca7	33740406	ACT/ACTCT	TTGGAGGATGGACTCA GAGC	ATGGTGCAACTGAGA ATCC	60.3	470	INTRON	Ca_16182	--	--
Ca7_P3_33745537	Ca7	33745537	AA/AATA	CTTGCCCTAACCTCTTC CAC	CCGTTTCATTCAACGG AGAG	59.8	750	DRR	Ca_16182	--	--

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
Ca7_P3_33745626	Ca7	33745626	CAAAAA/CAAAAA	CTTGCTCAACCTCTTC CAC	CCGTTTCATTCAACGG AGAG	59.8	750	DRR	Ca_16182	--	--
Ca7_P3_33746470	Ca7	33746470	T/TAA	CAAAATTAAATGGCAC AGGG	TTTCCCAATCCACCAC TCTC	59.4	332	DRR	Ca_16182	--	--
Ca7_P3_33746942	Ca7	33746942	ATTTTT/ATTTTTT	GAGAGTGGTGGATTGG GAAA	GACATTTATTTGTTTT CCGCC	59.9	623	DRR	Ca_16182	--	--
Ca7_P3_33747403	Ca7	33747403	T/TG	GGCGGAAAAAAAATA AATGTC	CCATGGGAAGTGGCAT TATC	59.7	202	INTERGENIC	--	--	--
Ca7_P3_33749761	Ca7	33749761	ATTTTTTT/ATTTTTTTTT	ACCAAACCATTCATCCT TGG	AAAATCGTGATGCGAA CACA	59.6	417	DRR	Ca_16183	J	--
Ca7_P3_33753838	Ca7	33753838	AG/A	CCTCCAAAAACACTCTC CCA	TGACAAGAACCTCTGC GTTG	60.1	810	INTRON	Ca_16183	J	--
Ca7_P3_33766122	Ca7	33766122	ATTT/ATTTT	AATATTTGGCTCCACCA CCA	GGGTTACAAACTTCCT GCCA	60.2	564	INTRON	Ca_16185	--	--
Ca7_P3_33768316	Ca7	33768316	CTA/CTATA	GCTTCATTGGTGCATC CTTT	TCAGGCTAAAAGTGAA AACTCG	60.1	303	INTERGENIC	--	--	--
Ca7_P3_33769034	Ca7	33769034	ATTTTTTTTT/ATTTTTTTTT	TCACAAGGGTAGTTTT GTCITTTT	CAACATTTTATTTTGTG ATGTATCTGG	58.4	439	INTERGENIC	--	--	--
Ca7_P3_33772634	Ca7	33772634	AAGA/AA	TGGATTTGTTTGGATG CAG	TTCCCAACTTTTCAAAA TATCCA	59.5	512	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
Ca7_P3_33775388	Ca7	33775388	TAAAAAAA/TAAAAAA	TTTTTGACGGAAAAACG ACC	TCGTGCATCCTCACTC TCAC	60.0	368	INTERGENIC	--	--	--
Ca7_P3_3377629	Ca7	3377629	GTTTTTT/GTTTTTTTT	ATAACCGCAAGCAAAA CCAA	GGGGATTTTGAGTTG GAGT	60.5	649	INTRON	Ca_03127	T	C3H
Ca7_P3_33778992	Ca7	33778992	GAAA/GAAAA	CGTTGAGTGACGATGA AATGA	TTTTTCAGCGCGAGAT TTTT	59.7	675	INTERGENIC	--	--	--
Ca7_P3_33781676	Ca7	33781676	ATT/ATTATTT	ATGGAATTCTGTGTGG TTCC	TCGTAAATACCAGCAT CATCAA	58.4	508	INTERGENIC	--	--	--
Ca7_P3_33782058	Ca7	33782058	ATTTTT/ATTTTTTT	CGTAGACATGTTTTTGC ATTTCA	TTTGAAAAAGCATGGA TCATT	60.0	656	INTERGENIC	--	--	--
Ca7_P3_33786813	Ca7	33786813	CCTC/CCTCACTC	TTTTGAAGGTTGCCCAA AAC	AATATCTCAAACATGC CCCG	60.0	370	INTRON	Ca_16186	T	bHLH
Ca7_P3_33786874	Ca7	33786874	CTTTT/CTTT	TGAGTTTACCACCTC GTCC	AATATCTCAAACATGC CCCG	60.0	121	INTRON	Ca_16186	T	bHLH
Ca7_P3_33792984	Ca7	33792984	ATTTTTTT/ATTTTTT	CCTTGGAGGACCAAG AACA	CAGAGACAAGAATCCC CCAA	60.1	578	DRR	Ca_16187	--	--
Ca7_P3_33795086	Ca7	33795086	T/TA	GGTGTAAACAAAAGGCC CAAA	AAGGATATGATGAAGG GCCA	59.8	408	INTRON	Ca_16187	--	--
Ca7_P3_33795817	Ca7	33795817	AAAATGAAATGAAATG/AAAATGAAATG AAATGAAATG	GTGGGGCATAGCTTCG TTTA	TTCCCCGGGTAAACACA ATAA	60.1	359	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
Ca7_P3_33795948	Ca7	33795948	TTAAT/TT	GTGGGGCATAGCTTCG TTTA	TTCCCCGGGTAAACACA ATAA	60.1	359	INTERGENIC	--	--	--
Ca7_P3_33796459	Ca7	33796459	ATTT/ATTTT	TTACCCGGGGAACCTCA AACT	GGATGTGAAAACAGCC CAAT	60.7	804	INTERGENIC	--	--	--
Ca7_P3_33798138	Ca7	33798138	GAAAAAAAA/GAAAAAAAA	TCGCAGTTGGATATTC GAGA	GCACAGTCAGATGCAA TGCT	59.4	552	INTERGENIC	--	--	--
Ca7_P3_33802472	Ca7	33802472	TTATATATATTCAT/TTATATATATTCAT ATATATATTCAT	TACTGACCTCTATCGCC GGT	CGTATGCGACTCATCC ATTG	59.7	612	DRR	Ca_16188	P	GRAS
Ca7_P3_33803390	Ca7	33803390	TACAC/TAC	TGAGGATGGAATGGGT TTTG	CTTTGGTTTCACATTG GGCT	60.7	555	DRR	Ca_16188	P	GRAS
Ca7_P3_33803853	Ca7	33803853	T/TTTG	AGCCCAATGTGAAACC AAAG	CGATTTTAAACCAAAA TGTTAAATG	60.0	865	INTERGENIC	--	--	--
Ca7_P3_33805672	Ca7	33805672	TAAATGAAAAATGAAAA/TAAATGAA AAATGAAAAATGAAAA	TCACCGCAACTGACAA AGTC	GCGTTATTAGACGAAT GACTTGAA	59.9	406	INTERGENIC	--	--	--
Ca7_P3_33806939	Ca7	33806939	AAAAATTAATAATTAATA/AAAAATTA AAAATTAATAATTAATA	AGGCATAGGCACAGGA AAGA	TTCGATAGTCGCACAA CCAC	59.8	842	INTERGENIC	--	--	--
Ca7_P3_33807259	Ca7	33807259	AT/A	TCCAATCCAAGAGCTAA ACCA	TTCGATAGTCGCACAA CCAC	59.7	465	INTERGENIC	--	--	--
Ca7_P3_33815682	Ca7	33815682	AATAT/AAT	ATGGCTATTCACTGCCA TGC	ATCATCCTTGGTCCCG AATA	61.0	434	DRR	Ca_16190	E	--

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 (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
Ca7_P3_33815769	Ca7	33815769	TAAA/TA	ATGGCTATTCACTGCCA TGC	ATCATCCTTGGTCCCG AATA	61.0	434	DRR	Ca_16190	E	--
Ca7_P3_3381604	Ca7	3381604	CATATATATATATATATAT/CATATAT ATATATATATAT	TTTCATGGAGAAGGA TGGG	CAGCGAAAGCAAAACA ACAA	60.0	301	INTRON	Ca_03127	T	C3H
Ca7_P3_33820036	Ca7	33820036	GA/GATA	AGGGTATTGAGGGATG GGAC	ATAGAGCGAGCATGGC AGAT	60.0	452	INTRON	Ca_16190	E	--
Ca7_P3_33820121	Ca7	33820121	AAG/AAGTAG	AGGGTATTGAGGGATG GGAC	ATAGAGCGAGCATGGC AGAT	60.0	452	INTRON	Ca_16190	E	--
Ca7_P3_33821649	Ca7	33821649	CTATATAT/CTATAT	ATCCCCATTCCAACA TGA	AAACACATGCCTTATT GCCC	60.0	553	INTRON	Ca_16190	E	--
Ca7_P3_33822073	Ca7	33822073	ATTTTTTTT/ATTTTTTT	GGGCAATAAGGCATGT GTTT	GAAGGTTGAGTCAATC GGGA	59.8	520	INTRON	Ca_16190	E	--
Ca7_P3_33823687	Ca7	33823687	AAATTTTTTTT/A	CTAGAGGTTGCCCCAC GTTA	TGGGAAATGATGCATG GTAA	60.1	857	INTERGENIC	--	--	--
Ca7_P3_33823773	Ca7	33823773	AATA/AA	CGCGTTTCGACATTTTA TCC	TGGGAAATGATGCATG GTAA	60.5	632	INTERGENIC	--	--	--
Ca7_P3_33826188	Ca7	33826188	CTT/CT	TCGAATGTGGCTGAAA AGAA	TTGGTGACCCGATAGT TTGA	59.4	617	INTERGENIC	--	--	--
Ca7_P3_33834706	Ca7	33834706	AGG/AG	CAAGGCTAGTAGCAGG TCGG	GGGTTGGTCGGTTATG TTGA	60.0	371	DRR	Ca_16191	--	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_33839241	Ca7	33839241	CAAA/CAAAA	CATCATAGTGTTCGCGAATTT	CGGCTATTTACTCTGC CAGC	59.1	729	INTERGENIC	--	--	--
Ca7_P3_33846076	Ca7	33846076	CTATATA/CTATA	TTAAGATGAACCAAGC CCTCT	GAAAGAGGTTGGAGCA CAGC	57.9	471	INTRON	Ca_16192	--	NAC
Ca7_P3_33846722	Ca7	33846722	T/TA	GCTGTGCTCCAACCTC TTTC	CAGCGTGCACATGGAT TAGT	60.0	544	INTRON	Ca_16192	--	NAC
Ca7_P3_33850307	Ca7	33850307	TAA/TAAA	CATTAAGACGGTCTCTA GTCGG	ACCCGTTCTACTTGG CACC	58.7	558	INTERGENIC	--	--	--
Ca7_P3_33852197	Ca7	33852197	CTATATATATAT/CTATATATATATAT	TGCATCAACTTTTGGG TGA	TTGGCCATATTTGAAC CACTC	60.1	303	INTERGENIC	--	--	--
Ca7_P3_33852463	Ca7	33852463	CAAA/CAAAAA	TGCATCAACTTTTGGG TGA	GCCCTCTTGGACTTCT TTCC	60.1	733	INTERGENIC	--	--	--
Ca7_P3_33852684	Ca7	33852684	TAA/TAAA	CCAAATGGGTTGCTAT TTTCT	GCCCTCTTGGACTTCT TTCC	59.4	654	INTERGENIC	--	--	--
Ca7_P3_33852713	Ca7	33852713	ATTTTTTT/ATTTTTTT	CCAAATGGGTTGCTAT TTTCT	GCCCTCTTGGACTTCT TTCC	59.4	654	INTERGENIC	--	--	--
Ca7_P3_33855544	Ca7	33855544	CT/C	TGCAACATTTTACTCAA TCCG	ACTTGATTGCACATGG ATCG	58.7	137	INTERGENIC	--	--	--
Ca7_P3_33855784	Ca7	33855784	TAAAAAAAAAAAAA/TAAAAAAAAA	CGATCCATGTGCAATC AAGT	CACTCTAAGAGGGGCC TCAA	59.5	528	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 (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
Ca7_P3_33855831	Ca7	33855831	TAAA/TAA	CGATCCATGTGCAATC AAGT	CACTCTAAGAGGGGCC TCAA	59.5	528	INTERGENIC	--	--	--
Ca7_P3_33855896	Ca7	33855896	TTTTGTTT/TTTT	CGATCCATGTGCAATC AAGT	CACTCTAAGAGGGGCC TCAA	59.5	528	INTERGENIC	--	--	--
Ca7_P3_33856093	Ca7	33856093	AT/A	GCCCCTCTTAGAGTGT TTGC	AAGATGTCATTTAAATC GAACCAA	58.9	106	INTERGENIC	--	--	--
Ca7_P3_33856959	Ca7	33856959	GAAAAAAA/GAAAAAA	TCCCATCATAAATCTTG TGCC	ACTTTTGCTCTGGCTT CCAA	59.8	161	INTERGENIC	--	--	--
Ca7_P3_33857243	Ca7	33857243	GAAAAA/GAAAAAA	TTGGAAGCCAGAGCAA AAGT	GCCTCGTTTCATTTAAT CTGC	60.0	691	INTERGENIC	--	--	--
Ca7_P3_33857446	Ca7	33857446	GAAA/GAA	TTGGAAGCCAGAGCAA AAGT	GCCTCGTTTCATTTAAT CTGC	60.0	691	INTERGENIC	--	--	--
Ca7_P3_33862970	Ca7	33862970	GAAAAAAA/GAAAAAAA	TTGGACACCAGACCCA AAAT	GGGGAGGGGTCTTTA CTGAG	60.2	887	INTRON	Ca_16193	U	--
Ca7_P3_33877621	Ca7	33877621	TACAATG/TACAATGTGTACTACAACAA TG	TTGTGCATGTATTGGG CTTG	CGGGGGTATTCTGTG AAGA	60.5	544	INTRON	Ca_16194	O	--
Ca7_P3_33878318	Ca7	33878318	TTGATG/TTG	TCTTCACAGAAATACCC CCG	TGTTGGGACAAGCAAA ATCA	59.9	508	INTRON	Ca_16194	O	--
Ca7_P3_33880621	Ca7	33880621	GA/GACA	AAAAAGATGTCTGCGG CTGT	GAAAAGAACGTGTGCA TCATTT	59.9	811	DRR	Ca_16194	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_33880672	Ca7	33880672	TGAC/T	AAAAAGATGTCTGCGG CTGT	GAAAAGAACGTGTGCA TCATTT	59.9	811	DRR	Ca_16194	O	--
Ca7_P3_33880711	Ca7	33880711	ATTTTTTTTT/ATTTTTTT	AAAAAGATGTCTGCGG CTGT	GAAAAGAACGTGTGCA TCATTT	59.9	811	DRR	Ca_16194	O	--
Ca7_P3_33880787	Ca7	33880787	ATT/ATTT	AAACACTGGCTGTGGA AAAA	TCAGACCCAAATGAGA GGAA	58.3	985	DRR	Ca_16194	O	--
Ca7_P3_33880924	Ca7	33880924	TAAAAAAA/TAAAAA	TTTTTGTAATGATTGCT TGAATTT	CCGTTTCACTTTACCTT CGC	57.1	711	DRR	Ca_16194	O	--
Ca7_P3_33881967	Ca7	33881967	TG/TGG	TCCGACAAAAGCTTCA CACA	AGTTGGTGTGGAGATG GAGG	60.4	502	INTERGENIC	--	--	--
Ca7_P3_33894708	Ca7	33894708	ATTTTT/ATTTTT	TCACTATGACAACGGG GTGA	CCCGTGAAATGTCTTG GAGT	60.0	286	INTERGENIC	--	--	--
Ca7_P3_33894736	Ca7	33894736	GTTTTTTTTT/GTTTTTTTT	TCACTATGACAACGGG GTGA	CCCGTGAAATGTCTTG GAGT	60.0	286	INTERGENIC	--	--	--
Ca7_P3_33895177	Ca7	33895177	CTTTTT/CTTTT	ACTCCAAGACATTTAC GGG	GCATGCAATTCACGCA TTAT	60.0	340	INTERGENIC	--	--	--
Ca7_P3_33917687	Ca7	33917687	ATTTTTTTTT/ATTTTTTTTT	TCATGTTTTCTTTGCT GCG	GAGCCATAATTACTCA AGATGCAA	60.0	703	INTERGENIC	--	--	--
Ca7_P3_3402006	Ca7	3402006	GTTTTTTTTTTTT/GTTTTTTTTTTTT T	GATCTAACACGACCAA GCC	TGGTGCTTTTCAATTT GCAG	59.6	571	DRR	Ca_03124	--	--

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
Ca7_P3_34031619	Ca7	34031619	AATATATATATATATATAT/AATATATAT ATATATATATATATATATATATATAT	AGCCCCACAAAGTTGT TCAC	GTTGGTTCCTAGCAC CGTA	60.0	801	INTERGENIC	--	--	--
Ca7_P3_34047376	Ca7	34047376	ATTTTTTTTTT/ATTTTTTTTTT	TTAGATTGTGCGGTGA GGC	AGAACCAAGAGGCGAC TTCA	60.4	572	INTERGENIC	--	--	--
Ca7_P3_34080547	Ca7	34080547	AT/A	AGGCAGGGGCAACTAA AGAT	TTTGTGGGGTGCTTA GTTT	60.1	446	INTRON	Ca_16200	--	--
Ca7_P3_34108298	Ca7	34108298	AT/ATTT	CAAAGGGTGTGCTGAG AGAA	CGAAATATGGACGCA ACAA	59.0	479	INTERGENIC	--	--	--
Ca7_P3_34108342	Ca7	34108342	TAAAAAAAA/TAAAAAAAA	CAAAGGGTGTGCTGAG AGAA	CGAAATATGGACGCA ACAA	59.0	479	INTERGENIC	--	--	--
Ca7_P3_34111135	Ca7	34111135	TAAAAA/TAAAAA	AGCAACAAACATGACC ACCA	AAAACACAAATTTGAG GCCG	60.0	511	INTERGENIC	--	--	--
Ca7_P3_34116846	Ca7	34116846	ATTTTTTT/ATTTTTTTT	GATTGACGTCCTGTCT CGG	AGAATTGGCAGATTG ATGG	60.7	571	INTERGENIC	--	--	--
Ca7_P3_34143500	Ca7	34143500	CA/CAA	AATGAGATGCCGATTTT TGC	AATGTTACCTTGACAG ACCG	60.0	615	INTRON	Ca_21006	K	ERF
Ca7_P3_34144763	Ca7	34144763	CTT/CTTT	GGCCATAGAGTGCAAG AAGC	CTCACCAAAACCTG AAAA	60.0	388	INTRON	Ca_21006	K	ERF
Ca7_P3_34152194	Ca7	34152194	TAA/TAAAAGAA	AAGCTTGAGCAGGAC AGAA	CTGCAAGATCGCAGGT GTAA	60.1	775	INTRON	Ca_21006	K	ERF

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
Ca7_P3_34157692	Ca7	34157692	CA/CAAA	TCCTCTTCCTGGGATTC CTT	GGCTACGGGTTTCAAA CAAA	60.0	427	INTRON	Ca_21006	K	ERF
Ca7_P3_34165927	Ca7	34165927	ATTTT/ATTTT	TCTTCTTTGGCCATTCC ATC	ACACCTTCTTGACAGG GGTG	60.0	507	INTRON	Ca_21006	K	ERF
Ca7_P3_34167836	Ca7	34167836	CATTATTA/CATTA	CATGCAGCTGTCGAGT GAAT	CCTCCAGTCAAAGAAA CCGA	60.0	709	DRR	Ca_21006	K	ERF
Ca7_P3_34171842	Ca7	34171842	TTT/TTTTATAATGTT	CCAATCCAATCACCCAA TTC	AAGAACGTAGATGATG GCGG	60.0	238	INTERGENIC	--	--	--
Ca7_P3_34173546	Ca7	34173546	GT/GTATCT	TGGGGTCAAATGTTAC GCAT	TTTGATCTTCTTCGCT CGCT	61.1	499	INTERGENIC	--	--	--
Ca7_P3_34174102	Ca7	34174102	CTTTTTTT/CTTTTTTTTTT	AGCGACCGAAGAAGAT CAAA	GCTTGCATTTTGGGTG AGAT	60.0	509	INTERGENIC	--	--	--
Ca7_P3_34178534	Ca7	34178534	CTATAT/CTATATAT	GGAGACAATTTTCGTT GGCT	GGTTGTGGTGGTCGTC TTCT	59.2	891	INTERGENIC	--	--	--
Ca7_P3_34178572	Ca7	34178572	TAAA/TAA	GGAGACAATTTTCGTT GGCT	GGTTGTGGTGGTCGTC TTCT	59.2	891	INTERGENIC	--	--	--
Ca7_P3_34187425	Ca7	34187425	GAA/GAAA	AGGTCTGGATTCTGG TTTG	ACATCCGTGCAAGGAA AAAG	60.0	646	INTRON	Ca_21004	S	--
Ca7_P3_34190333	Ca7	34190333	AAG/AAGAG	TCGAACACTTGCCTG AGAA	TTGGTCTTTTGCATCT TCG	57.2	559	DRR	Ca_21004	S	--

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 (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
Ca7_P3_34195399	Ca7	34195399	CTGATGA/CTGA	GTTGAATTTGGCCTTCC TGA	AGGCTAACACCATTGC CAAC	60.1	837	DRR	Ca_21002	--	WRKY
Ca7_P3_34195712	Ca7	34195712	AT/ATTT	GAGGCTCCATATTGCG AAAA	AGGCTAACACCATTGC CAAC	60.2	189	DRR	Ca_21002	--	WRKY
Ca7_P3_34195793	Ca7	34195793	TAAAAAAAAA/TAAAAAAAAA	GAGGCTCCATATTGCG AAAA	AGGCTAACACCATTGC CAAC	60.2	189	DRR	Ca_21003	O	FAR1
Ca7_P3_34196242	Ca7	34196242	GTTT/GTT	GTTGGCAATGGTGTTA GCCT	TTGAGGGTTGCTTTTG TTGTT	60.0	771	DRR	Ca_21002	--	WRKY
Ca7_P3_34196824	Ca7	34196824	ACC/ACCGCC	AACAACAAAAGCAACCC TCAA	GTTAGTGCAGCGAACC AACA	59.6	302	CDS (large-effect mutations)	Ca_21002	--	WRKY
Ca7_P3_34202611	Ca7	34202611	AAGAGAGAGAGA/AAGAGAGAGAG A	TATTGCGTTTGGTGTC GGTA	TAGCTAAATCGTGCTT GCCA	60.0	814	INTRON	Ca_21002	--	WRKY
Ca7_P3_34202826	Ca7	34202826	CTTTT/CTTTT	CACCATTGATGACAAG AGCG	ATCGTGCTTGCCAGCT TTAC	60.3	248	INTERGENIC	--	--	--
Ca7_P3_34203381	Ca7	34203381	A/AATATATAGGTAG	GTAAAGCTGGCAAGCA CGAT	CCCAGAACAAAAGTTG GTGAA	60.4	725	INTERGENIC	--	--	--
Ca7_P3_34204751	Ca7	34204751	TTATATATATA/TTATATATATATA	AGCATTGCGCGTAAAG AGAT	TGATGTTACATGACGT GTTTGG	60.0	665	INTERGENIC	--	--	--
Ca7_P3_34205414	Ca7	34205414	ATTTT/ATTTT	TTGAAATACACACAA AATTGACA	TTGACCTTGAAATCAA CTCACC	59.4	267	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
Ca7_P3_34213991	Ca7	34213991	TCAGAATTACAGAATTACAG/TCAGAAT TACAG	TGCGCGATCTCTAATCA ATG	CGGCAACCTTACCTCA ACTC	59.9	763	INTERGENIC	--	--	--
Ca7_P3_34216629	Ca7	34216629	GTTTTTTTT/GTTTTTTTT	TTTGTCCCTCCCAAGAA ATG	ATCTCACCCCTGGTTG TCTG	59.9	427	DRR	Ca_20999	L	--
Ca7_P3_34217652	Ca7	34217652	TAAAAAAAA/TAAAAAAAAA	GCCACAAACCTCATGC CTAT	TGCAGCAGTCAATGTT CCTC	60.0	347	DRR	Ca_20999	L	--
Ca7_P3_34222973	Ca7	34222973	A/AAATAT	GCAAACTGGGGAGAA ACAA	TCGCTTACTGGCTTCC ATCT	60.1	792	INTRON	Ca_20999	L	--
Ca7_P3_34223513	Ca7	34223513	ACCCCC/ACCCCCC	AGATGGAAGCCAGTAA GCGA	ACAGAGCCTAAACCA GGCA	60.0	244	INTERGENIC	--	--	--
Ca7_P3_34224527	Ca7	34224527	CAAAAAAAAA/CAAAAAAAAA	GCATTTTGACACATCTA TTCAACC	GGCGGACGAACTTATT TTCA	59.8	893	INTERGENIC	--	--	--
Ca7_P3_34226505	Ca7	34226505	AAATA/AA	AACACCAATCGCTCTT CAC	GAGGGAAACACCAACT CAAA	60.1	889	INTERGENIC	--	--	--
Ca7_P3_34226865	Ca7	34226865	TTCTCTCTCTCTCTCTCTCT/TTCTC TCTCTCTCTCTCTCTCTCT	GCGAATCAATGTTCA AGC	GAGGGAACACCAACT CAAA	59.3	196	INTERGENIC	--	--	--
Ca7_P3_34229450	Ca7	34229450	GATAT/GAT	GCATTGGAAGCGAATG GTAT	AGCCAGCCAGCTAAAA TTCA	59.9	435	INTRON	Ca_20998	--	--
Ca7_P3_34237238	Ca7	34237238	GGTTGTTGTTGTTGTTGTTGTTGTTG/ GGTTGTTGTTGTTGT	TTCCCAATTGCAACAAT CAA	GGTCTCATCTCATCCT CCCA	59.9	437	CDS (large-effect mutations)	Ca_20997	--	S1Fa-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
Ca7_P3_34237601	Ca7	34237601	TTG/TTGGTTTTGGTTATG	TGGGAGGATGAGATGA GACC	CAAGGAACCATCCATT TGCT	60.0	590	INTERGENIC	--	--	--
Ca7_P3_34238466	Ca7	34238466	TAAA/TAA	AGCAAATGGATGGTTC CTTG	AATGCAGCTCCACAG TTTA	59.9	915	INTERGENIC	--	--	--
Ca7_P3_34239748	Ca7	34239748	CAAAA/CAAAA	GCTCATTCAAAAGTAA ACCGAA	TTTCAAACCGTCAATTA TTAATGC	59.7	583	INTERGENIC	--	--	--
Ca7_P3_34251685	Ca7	34251685	TGA/TGAAGA	GGGTCGATTGGTGAAG AAGA	GGTTCAGAATCGTGGT CGTT	60.1	165	CDS (large-effect mutations)	Ca_20996	S	--
Ca7_P3_34278071	Ca7	34278071	T/TC	TCTTCAAGTGGTCGCTT CCT	CCTTCGCCATTTAATTT TGG	60.0	915	INTERGENIC	--	--	--
Ca7_P3_34278231	Ca7	34278231	ATTTTT/ATTT	TGGACTGCTCGATTGT CAAA	CCTTCGCCATTTAATTT TGG	60.4	557	INTERGENIC	--	--	--
Ca7_P3_34278471	Ca7	34278471	T/TAAATAC	TTTGACCCATCAAATCA TCAAA	CCTTCGCCATTTAATTT TGG	60.2	102	INTERGENIC	--	--	--
Ca7_P3_34279049	Ca7	34279049	ATT/ATTT	GGTCATGAGTTTTGATT CCCA	AGACAAATATCGGTAC GGCG	59.8	642	INTERGENIC	--	--	--
Ca7_P3_34279316	Ca7	34279316	CCA/CCACCACA	CGCCGTACCGATATTT GTCT	TAGCAGGACGGAATTG CTCT	60.0	217	INTERGENIC	--	--	--
Ca7_P3_34282882	Ca7	34282882	TAAA/TAAAA	TGCAGCATGGAACATT GAT	CCTCCGACTTGTGTCC ATT	60.1	199	INTRON	Ca_20990	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_34283590	Ca7	34283590	ATTT/ATTTTT	TTTGTGCACTGATGCT GTCA	TTGCTCGCATATGGGT TATG	60.0	355	DRR	Ca_20990	A	--
Ca7_P3_34285857	Ca7	34285857	CATATATATA/CATATATA	AGCTTGAAAGCAAACG GTGT	AGCACATCCAATGTCT GACG	59.9	503	INTERGENIC	--	--	--
Ca7_P3_34286325	Ca7	34286325	A/AAATAT	ACGTCAGACATTGGAT GTGC	TTGTTTTCAAGGAGTT GCGA	59.6	666	INTERGENIC	--	--	--
Ca7_P3_34290113	Ca7	34290113	T/TAG	TTTTGAACAGAACCAAG GGC	GAAGAGAAAAGCCGGT GTTG	60.1	362	INTRON	Ca_20989	K	NAC
Ca7_P3_34295146	Ca7	34295146	AATTTGT/AATTTGTTATCTATTTGT	CCAACTGGCCTAGGAT GAAA	TGGGAGAAAAACAAGC AAGG	60.1	579	INTERGENIC	--	--	--
Ca7_P3_34309669	Ca7	34309669	GTTTTTTT/GTTTTTTT	TGTGAGTCGATGAATC AGCC	TCGAATTTCTGTGTCCA CTCA	59.8	417	INTERGENIC	--	--	--
Ca7_P3_34309692	Ca7	34309692	TA/T	TGTGAGTCGATGAATC AGCC	TCGAATTTCTGTGTCCA CTCA	59.8	417	INTERGENIC	--	--	--
Ca7_P3_34309775	Ca7	34309775	ATTTTTTTTT/ATTTTTTTTT	TGTGAGTCGATGAATC AGCC	TCGAATTTCTGTGTCCA CTCA	59.8	417	INTERGENIC	--	--	--
Ca7_P3_34311495	Ca7	34311495	TAAAA/TAAA	TCCAGCATGCAGCATA GTTT	TGCAGGACCAGATAGG GAAG	59.4	214	INTERGENIC	--	--	--
Ca7_P3_34311535	Ca7	34311535	TAAAAAAA/TAAAAAAA	TCCAGCATGCAGCATA GTTT	TGCAGGACCAGATAGG GAAG	59.4	214	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 (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
Ca7_P3_34312118	Ca7	34312118	AAATTAAT/AAAT	TTGCTAATTGCTAATTG CTTTG	TGGAGTGAGTGTGAGA AAGGAG	57.4	388	INTERGENIC	--	--	--
Ca7_P3_34312381	Ca7	34312381	CTTT/CTTTTT	CTCCTTTCTCACACTCA CTCCA	TTGGTGGACTTCCCAA CTTC	59.5	515	INTERGENIC	--	--	--
Ca7_P3_34312433	Ca7	34312433	GATAAATA/GATA	CTCCTTTCTCACACTCA CTCCA	TTGGTGGACTTCCCAA CTTC	59.5	515	INTERGENIC	--	--	--
Ca7_P3_34312678	Ca7	34312678	ATTTTTTTTT/ATTTTTTTTT	CTCCTTTCTCACACTCA CTCCA	TTGGTGGACTTCCCAA CTTC	59.5	515	INTERGENIC	--	--	--
Ca7_P3_34313194	Ca7	34313194	TTCACAATC/TTCACAATCTCACAATC	TGGGAAGTCCACCAAA GTTC	TTGATTGTGGTGTGTTT ACCG	59.9	618	INTERGENIC	--	--	--
Ca7_P3_34315074	Ca7	34315074	GATATATA/GATATATACATATATATATA	TTCGTATAATTGGAATC ACTTCTAACA	TTGCACCCGTAGTATT GTGG	59.5	561	INTERGENIC	--	--	--
Ca7_P3_34315993	Ca7	34315993	GTA/GTATTTA	AACAAAAGATTGAATTG AAAGACA	TCTTCTAGGGGTGAGA CCCA	57.1	555	INTERGENIC	--	--	--
Ca7_P3_34316435	Ca7	34316435	ATAATTAAT/ATAATTAATTAAT	CATGGGTCTCACCCCT AGAA	AAGGTTGCCATTGTAT TGGG	59.9	412	INTERGENIC	--	--	--
Ca7_P3_34317406	Ca7	34317406	ATATA/ATATAGTATA	TGGAATTGTATGCGA GACG	GCAGGGTTTTTGTTTT TGGA	59.7	896	INTERGENIC	--	--	--
Ca7_P3_34317535	Ca7	34317535	AATATATATATA/AATATATATATA	TTGTTTTTGGTGAAAAG TGTGTG	GCAGGGTTTTTGTTTT TGGA	60.0	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
Ca7_P3_34318359	Ca7	34318359	AACAAATACAAATA/AACAAATA	TGTGTTGCTTTTGATT CCA	GCTAGCAGCCACCTTC TTTG	57.7	917	INTERGENIC	--	--	--
Ca7_P3_34318595	Ca7	34318595	CATTATTACAGATT/CATTATTACAGA TTTATTATTACAGATT	TCAATGACTGTGACAAA ATCCA	GCTAGCAGCCACCTTC TTTG	59.0	503	INTERGENIC	--	--	--
Ca7_P3_34320519	Ca7	34320519	C/CTA	TTAACAAAACGGCTCCA ACC	ACATGGCTTGAGATTG GAAT	60.0	438	INTERGENIC	--	--	--
Ca7_P3_34321055	Ca7	34321055	AA/AATA	CTCCAAGCCATGTTGG ATTT	CATTTCCTCCCTCCCA ATTT	59.9	382	INTERGENIC	--	--	--
Ca7_P3_34321800	Ca7	34321800	TA/T	TGTAAGAGTCGGTGCC TTCA	TTTTCTCATGGATCTTT TGGA	59.4	820	INTERGENIC	--	--	--
Ca7_P3_34321844	Ca7	34321844	ATTTTTTTT/ATTTTTTTTT	TCGGTGCCTTCATATT GACT	TTTTCTCATGGATCTTT TGGA	59.6	812	INTERGENIC	--	--	--
Ca7_P3_34328779	Ca7	34328779	AT/ATTCAGT	AGGGAGGCACTTCGGA GTAT	GTGCAACCGATTGGTA TCCT	60.1	793	INTERGENIC	--	--	--
Ca7_P3_34331157	Ca7	34331157	GAAAAA/GAAAA	CTCCTTTGGCCATAAAA CCA	ATTGCGTTCGAATCTT GGAG	59.9	368	INTERGENIC	--	--	--
Ca7_P3_34331908	Ca7	34331908	GAGTAGTTTA/G	GGACAATTCCAACGA CCAA	CCATTACGAAGGGGA AGTA	60.7	800	INTERGENIC	--	--	--
Ca7_P3_34335084	Ca7	34335084	TTATATA/TTATA	CCAATAACAATGGGGG TTCA	CCTCTTTGTTGGATGA GGGA	60.4	259	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 (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
Ca7_P3_34336023	Ca7	34336023	AA/AAAAAAGA	TATTTGACCCGTGAGA CGTG	CAACCACAATTCAATT ATGCAA	59.6	539	INTERGENIC	--	--	--
Ca7_P3_34336122	Ca7	34336122	T/TTTA	TATTTGACCCGTGAGA CGTG	CAACCACAATTCAATT ATGCAA	59.6	539	INTERGENIC	--	--	--
Ca7_P3_34338542	Ca7	34338542	AACTTGTA/AA	CCCCAACAAAGGTCAT CAAT	TGAGCTCCACCTTTTG ATCC	59.6	503	INTERGENIC	--	--	--
Ca7_P3_34342253	Ca7	34342253	TTTTT/TTTTTATTTT	AATGATAGGTGGACGT TCAAA	GGGTAACCTCGCCACA ACTA	57.1	725	INTERGENIC	--	--	--
Ca7_P3_34347667	Ca7	34347667	A/AC	TCATTTAGCGGCTGGT TTCT	TGCCGCAATAAAATGA AACA	59.8	643	DRR	Ca_20986	C	--
Ca7_P3_34348983	Ca7	34348983	T/TA	TTACCCTCCAAAGACAC TTCG	CTTGTCGGCTTAAATC CCAA	59.2	321	DRR	Ca_20986	C	--
Ca7_P3_34348997	Ca7	34348997	ATTTTTTTT/ATTTTTTT	TTACCCTCCAAAGACAC TTCG	CTTGTCGGCTTAAATC CCAA	59.2	321	DRR	Ca_20986	C	--
Ca7_P3_34350373	Ca7	34350373	TAAA/TAA	AAAGAAGCGACGAATC TCCA	CATGCAGGTAAATTGT TGCC	60.0	599	INTRON	Ca_20986	C	--
Ca7_P3_34370452	Ca7	34370452	AA/AAGA	AGCCCAAATATGCGCT TAGA	CCGAAACTATTTCCAC GACC	59.8	522	INTERGENIC	--	--	--
Ca7_P3_34375146	Ca7	34375146	GTCCACTCCACTCCACTC/GTCCACTC CACTCCACTCCACTC	GAGGGGTTTGTGGAAT GGTA	GTAATCACCAACCAAT CGGG	59.6	271	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 (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
Ca7_P3_34383642	Ca7	34383642	TTCT/TT	TTAATTCAGTCGATGCC ACG	TCTGAAAAATACACGT TGAATACAT	59.7	841	INTERGENIC	--	--	--
Ca7_P3_34392098	Ca7	34392098	ATTTTTTT/ATTTTTTTTT	GGCGAGCATGAAATAC CAAT	TCTGCCAAAAACGAAG ATCG	59.9	819	INTERGENIC	--	--	--
Ca7_P3_34394315	Ca7	34394315	AG/A	TATTTGGCTATCTGCG GTCC	TCGGATGTAAATGCGA TGAA	60.1	726	INTERGENIC	--	--	--
Ca7_P3_34396059	Ca7	34396059	TATCTTATAAAA/TATCTTATAAAATCTT ATAAAA	GTGCCAGAGGAGGTGG TAGA	TGACATTTGGGTCAGC ATGT	60.3	944	INTRON	Ca_20981	QR	B3
Ca7_P3_34396656	Ca7	34396656	CTT/CT	CACATGCTGACCCAAA TGTC	TTGAACAAAATCACGA CCGA	60.0	216	INTRON	Ca_20981	QR	B3
Ca7_P3_34397123	Ca7	34397123	ATTTTTTTTT/ATTTTTTTTT	TGTCGGTCGTGATTTT GTTC	ATGCAAGATGGGTATC GTGT	59.5	594	INTRON	Ca_20981	QR	B3
Ca7_P3_34397143	Ca7	34397143	AT/A	TGTCGGTCGTGATTTT GTTC	ATGCAAGATGGGTATC GTGT	59.5	594	INTRON	Ca_20981	QR	B3
Ca7_P3_34397419	Ca7	34397419	CTA/CTATA	ACACGATACCCATCTTG CAT	TCGATGCAGCACACTC TTGT	57.9	608	INTRON	Ca_20981	QR	B3
Ca7_P3_34407884	Ca7	34407884	TAAAAAAAAA/TAAAAAAAAA	ATGCAACTTGGTGGAT GCTT	GCATGCAGCCTTGTG ATTA	60.5	586	INTERGENIC	--	--	--
Ca7_P3_34412063	Ca7	34412063	ATTTTTTT/ATTTTTTTTT	AATGCGAGGAAAACTC GCTA	TCCCTGTTTCTACGCC AAAC	60.0	746	INTRON	Ca_20980	PT	FAR1

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 (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
Ca7_P3_34412369	Ca7	34412369	TACGCTA/TACGCTAACGCTA	ATTGTTGCTTCCCAATT TCG	GCTCAGCTGGTTTCAT AGGC	59.9	741	INTRON	Ca_20980	PT	FAR1
Ca7_P3_34456097	Ca7	34456097	TTATATATATAT/TTATATATATATAT	ACAATTGTTGCACCAC GAGA	GCATATAAGTGGCTAA CCGCA	60.2	619	INTERGENIC	--	--	--
Ca7_P3_34509317	Ca7	34509317	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATATA TATAT	GAGTCTCTTTGATTGAT TGATAGGA	GGTCGAGGAAGAACCA CAAA	58.0	945	INTERGENIC	--	--	--
Ca7_P3_34583170	Ca7	34583170	CATATATATATATATATATATATATAT ATATAT/CATATATATATATATATATATA TATATATAT	TTTCATCCACCAAGAAG CTCA	GAACTCGACCAGTGCA GACA	59.4	253	INTERGENIC	--	--	--
Ca7_P3_34587026	Ca7	34587026	TTATATATATATATATATATATATATATA TATA/TTATATATATATATATATATATAT ATATATATATATA	CGTTTGATTTTGTTGG TGA	TAGTGCAGAACTCCCT CGTT	59.4	455	INTERGENIC	--	--	--
Ca7_P3_34650181	Ca7	34650181	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	CGACTAATCTTGACAAC ACGGA	TGGAACCTCGGTTACAT TTTGAA	60.2	505	INTERGENIC	--	--	--
Ca7_P3_34663130	Ca7	34663130	ATTTTTTTTTTT/ATTTTTTTTTTTTT	AAATTTTGGTTGCGATT CCA	ACCCGGGTATAAGGTT CCAC	60.3	385	INTERGENIC	--	--	--
Ca7_P3_34672457	Ca7	34672457	ATATTATTATTATTATTATTATTATT ATTATT/ATATTATTATTATTATTATTAT TATTATTATT	TTGTGCATTATTGAGGT GGA	ATTTGCACTTGGTTTG ACCC	57.5	897	INTERGENIC	--	--	--
Ca7_P3_34730133	Ca7	34730133	CTTTTTTTTTTT/CTTTTTTTTTTTTT	GAGTTTGAATGGTTGC CGTT	TTGGTTTCCAAATTTG TGCT	60.0	722	DRR	Ca_17610	Q	B3
Ca7_P3_34735432	Ca7	34735432	CAA/CAAA	GGTTTTGCCCTATTTC CAT	TTGCAAGTTTAGATCG CTTGTC	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_34800785	Ca7	34800785	AATATATATATATATATATATAT/AA TATATATATATATATATATATAT	AACACATCCGGTTCC ATTA	AGCGGCATAACCGTAT GAAC	60.1	547	DRR	Ca_17614	--	--
Ca7_P3_34922873	Ca7	34922873	AATTATTATTATTATTATTATTATTA TTATTATTATTATTA/AATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTA	GCCACCACCTTCTTGA ACAT	TTGTCCAAGGTGCAAT TCAA	60.0	604	INTERGENIC	--	--	--
Ca7_P3_35048654	Ca7	35048654	TTATATAT/TTATATATAT	AGGTGGGCAACTTTGA TGAC	GCATCTGGCTAGGAAC TTGG	60.0	673	INTRON	Ca_17632	R	--
Ca7_P3_3505469	Ca7	3505469	TC/T	AAATCAAGAGAGGCCT GCAA	GGGAGAGCTAGGGAG GAAGA	60.0	507	INTRON	Ca_03117	Z	MYB_related
Ca7_P3_35065891	Ca7	35065891	AT/A	TTTTGAAACAATGCTCG TGG	CAACCATCTTAATGA CCACAAA	59.7	644	DRR	Ca_17634	--	--
Ca7_P3_3509080	Ca7	3509080	CGT/CGTTTGTGT	GCCTGTGCTACTCAAA TGG	TGCCTGCCTGCCTACT ACTT	59.7	963	INTRON	Ca_03117	Z	MYB_related
Ca7_P3_35109014	Ca7	35109014	ATTTTTTT/ATTTTTTTTT	CCTGGGATGGTGATGA GAGT	TCCCAACCAGACTGAA CTGG	59.9	806	INTERGENIC	--	--	--
Ca7_P3_35109351	Ca7	35109351	TAAAAAA/TAAAAAA	TGTTTTAACGTTTGCCT TGC	TCCAATGAATCCCTTG CTTC	59.8	674	INTERGENIC	--	--	--
Ca7_P3_35110110	Ca7	35110110	AC/ACC	GAAGCAAGGGATTTCAT TGGA	CATCAGAGGCATGAGA AGCA	60.0	717	INTERGENIC	--	--	--
Ca7_P3_3512331	Ca7	3512331	ATTT/ATT	AATTCGCATGCATATTC AACA	GCAGAGATTTGATTGCG AGGC	59.0	677	INTRON	Ca_03117	Z	MYB_related

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 (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
Ca7_P3_3512361	Ca7	3512361	AG/A	AATTCGCATGCATATTC AAC	GCAGAGATTTGATTGCG AGGC	59.0	677	INTRON	Ca_03117	Z	MYB_related
Ca7_P3_35131412	Ca7	35131412	TAAAAAA/TAAAAAAA	TCGTGGTCGCATTGAA CTTA	GAATCAAAATGGAGCG GAAA	60.3	376	INTERGENIC	--	--	--
Ca7_P3_35134144	Ca7	35134144	TAAA/TAAAA	ACCATTCCATTTCTCCT TGC	CCTTCAATTTTGCCGT CAGT	59.0	494	DRR	Ca_17638	--	ERF
Ca7_P3_35139699	Ca7	35139699	TG/TGAG	ATTCAAAACAAACGCATG CAA	CAGCTGGCACCCCTTAC AAGT	60.1	535	INTERGENIC	--	--	--
Ca7_P3_35140766	Ca7	35140766	G/GA	TTTTAAGCCACATCATG CCA	GTTCCCTCCCTCCATCC CTAA	60.1	585	INTERGENIC	--	--	--
Ca7_P3_35141972	Ca7	35141972	TA/TAA	TTGTCCCACGAGGAGA AAAC	CGACAAACACAATCAC TGGG	60.1	824	INTERGENIC	--	--	--
Ca7_P3_3515316	Ca7	3515316	GGTGTG/GGTG	TCGGAGAGGGTTTGTA CCAC	TTTATGTCCGCCTTTCT TCA	60.0	259	DRR	Ca_03116	I	--
Ca7_P3_35156256	Ca7	35156256	ATTTTT/ATTTTTT	TTCTGTGTTGTAGCAC CCC	CACCATGTCCGATTG TCAG	60.0	757	INTERGENIC	--	--	--
Ca7_P3_35166389	Ca7	35166389	CATGT/CATGTTATTTTATGT	ATCAAGGTGGGGATTG TTGA	TTGTAGTTTTTTCAGT GGTGC	60.2	781	INTERGENIC	--	--	--
Ca7_P3_35166766	Ca7	35166766	TAAAAAAA/TAAAAAA	GGCGCTATATGGTATT TGAGTT	GGTTCTTCGCCTTCAC AAAC	58.7	948	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
Ca7_P3_35166938	Ca7	35166938	AAATAA/AAA	GCACCACGTGAAAAAC TACAA	GGTTCTTCGCCTTCAC AAAC	58.7	437	INTERGENIC	--	--	--
Ca7_P3_35170170	Ca7	35170170	TAAAAA/TAAAA	TGACTTTTGGTGGCTA GGGT	TTTGTCCATTTCGTAT CCCA	59.6	362	INTERGENIC	--	--	--
Ca7_P3_35173494	Ca7	35173494	ATTTTTTT/ATTTTTTTTTTT	CTCCTTGCTCAGATTCT TGTA	TTTTTAAATCAAGATT CCTTCCTC	59.6	725	INTERGENIC	--	--	--
Ca7_P3_35175205	Ca7	35175205	GAAAAA/GAAAAA	TACTTTGCGTGTTCTCG TCG	CCCATGAAGGAAAAAT AGCG	60.1	657	INTERGENIC	--	--	--
Ca7_P3_35177660	Ca7	35177660	A/ATAAAAAATAAT	GCCAACCGACTCCATC TTTA	TTTAGCAGTTTTTCAAT TTCCAA	60.1	690	INTERGENIC	--	--	--
Ca7_P3_35177885	Ca7	35177885	GAAAAA/GAAAAA	ACTTGCAAATTGCCAC TGT	TTGAAGAGGGTACAAT AGACATTGA	60.6	527	INTERGENIC	--	--	--
Ca7_P3_35178628	Ca7	35178628	TT/TTCT	TTTTCAAACTTTCCCC TCG	TCGTTCAATCAATCAC GAGAA	59.2	241	INTERGENIC	--	--	--
Ca7_P3_35190083	Ca7	35190083	TGG/TG	GCATTGTTGTTTTGGA GGG	CATGGACAAAGTCGTT TCAA	60.3	506	INTERGENIC	--	--	--
Ca7_P3_35192395	Ca7	35192395	ATTT/ATTTTT	TCTCCACTTGCGGAAG AGAT	GAAAACAAGGCAAAGT CCCA	60.0	735	DRR	Ca_17640	--	Trihelix
Ca7_P3_35206628	Ca7	35206628	GT/GTAT	CGGACATCTGTTTGTC CTTG	TCCCATTTTATTTGTCC CCA	59.1	334	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 (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
Ca7_P3_35210755	Ca7	35210755	TAAAA/TAAAAA	TTGAGTTTTCCTTCATT GGTATG	ATATCCGACACTGCTC ACCC	58.2	824	INTERGENIC	--	--	--
Ca7_P3_3521546	Ca7	3521546	CTTT/CTTTTT	TAAGGCTATCCACGTC GTCC	ACCAGCTTCACTCTCT GGGA	60.1	785	INTRON	Ca_03116	I	--
Ca7_P3_35217838	Ca7	35217838	T/TAAAA	AAGGCTAGGATTCTCG GGAT	ATGCGGGATGTTCTTT TCAT	59.2	369	INTERGENIC	--	--	--
Ca7_P3_35217866	Ca7	35217866	ATTTTT/ATTTTTTT	AAGGCTAGGATTCTCG GGAT	ATGCGGGATGTTCTTT TCAT	59.2	369	INTERGENIC	--	--	--
Ca7_P3_35225570	Ca7	35225570	GAAAAAAAA/GAAAAAAAAA	CACCTCCACTTTCTTTC CGA	TGAGAAAAATTAAATG GGGACG	60.2	537	INTERGENIC	--	--	--
Ca7_P3_35225622	Ca7	35225622	GTTTTTTTTT/GTTTTTTTTT	CACCTCCACTTTCTTTC CGA	TGAGAAAAATTAAATG GGGACG	60.2	537	INTERGENIC	--	--	--
Ca7_P3_35227195	Ca7	35227195	GA/GACA	AAAGCGAACGCCATTTT AGA	TCAGAGCAACTGCACT TCAA	59.9	809	INTERGENIC	--	--	--
Ca7_P3_3522923	Ca7	3522923	CTT/CTTT	CCACTTTCCTAGGAG CAAC	TTCCCCAGTGTCAAAG AAGG	59.9	723	INTRON	Ca_03116	I	--
Ca7_P3_35230084	Ca7	35230084	CTT/CTTT	TTTGGTTGCAGTTGG TTT	TCTTCCCATTTCCATTT TTGA	58.2	402	DRR	Ca_17641	--	--
Ca7_P3_35230846	Ca7	35230846	ATTTT/ATTT	AAGTAGCAAAGCCTCA CCCA	CGGATAATTTCAAATG GATCACT	59.9	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_35232044	Ca7	35232044	AA/AAATTA	TTTGACCCTCAGCCATT TTC	GAAAAATGGGAATGCA ATGG	60.1	244	INTERGENIC	--	--	--
Ca7_P3_35256420	Ca7	35256420	ATTTTTTTTTTT/ATTTTTTTTTT	CATTGTGGACTTGTGCG GAGA	CTCACACGGTGCTTCT CAAA	59.7	557	INTERGENIC	--	--	--
Ca7_P3_35273690	Ca7	35273690	C/CTTAA	GAGGGGCGTGAGTAAC AAAA	AAAGAACCACATGAAT CGCC	60.1	882	INTERGENIC	--	--	--
Ca7_P3_35275595	Ca7	35275595	ATTTT/ATTTT	TTGAAGGTGCCTCTGA AACC	CTCATGAAGGATCGCG GTAT	60.2	479	DRR	Ca_17646	R	--
Ca7_P3_35282492	Ca7	35282492	CTT/CT	GAGCCAGCTCTGTGTG TTGA	ACAGCAGGAGCATACA GCCT	60.2	451	INTRON	Ca_17646	R	--
Ca7_P3_3528413	Ca7	3528413	GTT/GT	GGGGAACACATCAAAA CCAC	TTTTCCGGTACAACCG AATC	60.1	266	INTERGENIC	--	--	--
Ca7_P3_35292837	Ca7	35292837	AGG/AGGG	TGCAGGATTTAGTGGT GGTG	GACCCCTCTTTGTAAC GCAA	59.6	154	INTERGENIC	--	--	--
Ca7_P3_35293466	Ca7	35293466	TAAAAAAAAA/TAAAAAAAAAAAA	AATTCCACCAGCTCCAA GTG	TCGGTGCAACATTTTC TTCA	60.1	359	INTERGENIC	--	--	--
Ca7_P3_3529498	Ca7	3529498	TTATATATATATATA/TTATATATATATA	TGTACACACTTATTCGG TCTCATT	CCATCCTCCCCAAAT TTTA	59.0	379	INTERGENIC	--	--	--
Ca7_P3_35299260	Ca7	35299260	ATTTTT/ATTTTT	TTGGAGAGAAAGCAAA ATGGA	AGAGTTTTGGTCCCGT TCCT	59.8	336	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
Ca7_P3_35302573	Ca7	35302573	GTTTTT/GTTTTTT	TTTGAACAGCAATCCAA CCA	AGTGAACAACCAACCC ATTTT	60.1	299	INTERGENIC	--	--	--
Ca7_P3_35305750	Ca7	35305750	GAAAAAAAA/GAAAAAAAA	AGGGAAGCTCCAAGG TCAT	ATGGATAATTGCGACG GTTC	60.1	631	INTERGENIC	--	--	--
Ca7_P3_35313643	Ca7	35313643	TC/T	TTTGATAAAGCAAAAGC TCCA	AACTGAATATGGGCCA GTCC	60.0	805	INTERGENIC	--	--	--
Ca7_P3_35316497	Ca7	35316497	ATTTTTTT/ATTTTTTTT	TTTTGGTTCGTTTGATT CGAG	TTGGCGAAGGAGAGTC AGAT	60.1	757	INTERGENIC	--	--	--
Ca7_P3_35317068	Ca7	35317068	AT/ATT	TGACTCTCCTTCGCCAA GAT	CAATCACCATCGACCA TCAA	60.0	444	INTERGENIC	--	--	--
Ca7_P3_35317088	Ca7	35317088	GTTTTTTTTTT/GTTTTTTTTT	TGACTCTCCTTCGCCAA GAT	CAATCACCATCGACCA TCAA	60.0	444	INTERGENIC	--	--	--
Ca7_P3_35319735	Ca7	35319735	TAAA/TAA	TGCGTAAACAAAATACG AGAAAA	ACTCAATACAACGAAC GGGC	60.1	239	INTERGENIC	--	--	--
Ca7_P3_35319763	Ca7	35319763	CAAAAAAAAA/CAAAAAAAAAA A	TGCGTAAACAAAATACG AGAAAA	ACTCAATACAACGAAC GGGC	60.1	239	INTERGENIC	--	--	--
Ca7_P3_35330032	Ca7	35330032	TTCT/TTCTCTCT	TCACGTGCACTATGCC TCTC	TCGGTGATGGGTATTT GACA	60.0	421	INTRON	Ca_17647	BK	FAR1
Ca7_P3_35331728	Ca7	35331728	A/AG	GTTGCTGATCTGAGGG AAGC	ATCTACATTGCAGGGG TCCA	60.0	727	INTRON	Ca_17647	BK	FAR1

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
Ca7_P3_35331861	Ca7	35331861	TTATAT/TTAT	GTTGCTGATCTGAGGG AAGC	TGGCATGCACTGAAAA ATGT	60.0	860	INTRON	Ca_17647	BK	FAR1
Ca7_P3_35332956	Ca7	35332956	CAAAAA/CAAAA	AGCGGGAGGAATTGAA AGTT	AAACCCGGACCAGATA TTGA	60.1	483	DRR	Ca_17647	BK	FAR1
Ca7_P3_35334121	Ca7	35334121	A/ATTT	TATCCTCCGCTTGCGTT ATG	TGTTCAATTGTGTTTGG TTTGG	60.2	838	DRR	Ca_17647	BK	FAR1
Ca7_P3_35337950	Ca7	35337950	C/CT	CATGATTGCTTTCATG CAG	GGCTAGGGATGAACTA CCCC	60.2	345	INTRON	Ca_17648	--	TCP
Ca7_P3_35350676	Ca7	35350676	A/AT	CATACCGAAAATGCGA CCTT	CCTCACCAAGCTTTGC TACC	60.0	565	DRR	Ca_17650	PT	FAR1
Ca7_P3_35357002	Ca7	35357002	CTTTTTTTTT/CTTTTTTTTTTT	TGGATGTCATGTTTCTT AATGGA	CACATACGGGGTTTTA GATTGC	59.3	657	INTERGENIC	--	--	--
Ca7_P3_35357787	Ca7	35357787	ATT/AT	AAGTTCGAATCTAAAC CCCG	CCCCATTTTCCAATCC TTTT	59.5	768	INTERGENIC	--	--	--
Ca7_P3_35364737	Ca7	35364737	AGATTAGGA/AGA	CGCATTCTCTCGAAAA GTC	TTGGAGAAAGATCTCC GGTT	60.0	439	INTERGENIC	--	--	--
Ca7_P3_35365053	Ca7	35365053	T/TCC	CGCATTCTCTCGAAAA GTC	CAAACACACTCTTGGG AAATCA	60.0	935	INTERGENIC	--	--	--
Ca7_P3_35369159	Ca7	35369159	CAAAAAAA/CAAAAAAA	CCAAAGGCATTGAGG ATTC	TTGCCATTCTTGACA CACA	59.5	308	DRR	Ca_17651	--	--

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 (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
Ca7_P3_35370023	Ca7	35370023	CCACACA/CCACA	TTGACCGAATTTTGCAT GTC	CCCGTCATGGCTCAAA TTAT	59.5	621	DRR	Ca_17651	--	--
Ca7_P3_35370294	Ca7	35370294	TCTAC/TCTACTAC	ATAATTTGAGCCATGAC GGG	TCTTGACAGGTTTGGT TGGA	59.8	128	DRR	Ca_17651	--	--
Ca7_P3_35376790	Ca7	35376790	AGTG/AGTGGTG	GTAAAAGGCGTATGAC GGGA	CTATTTTCCGGAATCC ACGA	60.0	459	INTERGENIC	--	--	--
Ca7_P3_35377784	Ca7	35377784	CAGAGAGAGAGAGAGA/CAGAGAG AGAGAGAGA	ACCCCACCACAAAGTT CAAG	TTCCCAGCAACAAACC TTTC	59.9	245	INTERGENIC	--	--	--
Ca7_P3_35378747	Ca7	35378747	ATT/AT	GGACCCAAATGTGACC TATTGA	CACCGATCATCATTGC TTTA	61.0	825	INTERGENIC	--	--	--
Ca7_P3_35379689	Ca7	35379689	AAAT/A	TCCTCATCACCTGCACA ATC	TCCTCTACCCACCAAA CCAA	59.6	445	INTERGENIC	--	--	--
Ca7_P3_35380408	Ca7	35380408	ATTT/ATTTT	TGGTTTGGTGGGTAGA GGAA	AAATATCTCCATGGGG GAGG	60.3	523	INTERGENIC	--	--	--
Ca7_P3_35382567	Ca7	35382567	G/GCTAA	CCGATCCAATTATATCG ACAG	TTATCAAGGCTCCAC CATC	57.1	742	INTERGENIC	--	--	--
Ca7_P3_35387341	Ca7	35387341	GATATATATATAT/GATATATATAT	AATTTTCACTCAACCC CCG	TTGTGCGATGTCTCAA CCAT	61.1	512	INTERGENIC	--	--	--
Ca7_P3_3540137	Ca7	3540137	GTAT/GTATATAT	TTGTTGGTACGTGCATA GAGC	CATTCACGTGCAA ACGG	58.9	762	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 (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
Ca7_P3_3540357	Ca7	3540357	CTCAAAAT/CT	TCAACAATGAAGCAACA CATCA	CATTGCGCAAGAGAAT ACGA	60.2	634	INTERGENIC	--	--	--
Ca7_P3_35424480	Ca7	35424480	ATTTTTTT/ATTTTTTTT	ATGAATTGGCGTGT GGTT	GTGACCGAACTTGAGC CAAT	60.2	369	INTERGENIC	--	--	--
Ca7_P3_3545324	Ca7	3545324	ATT/AT	TTGACCCAAAAGATAAG CCG	TTGTTGGTTATCGAAG AAGGAAA	60.1	865	DRR	Ca_03114	S	--
Ca7_P3_35490894	Ca7	35490894	TAAAAA/TAAAAAA	AATGCACGAGTGCCAT ATTTT	CAACAACTTCTCATGTT CGCA	60.0	557	INTERGENIC	--	--	--
Ca7_P3_35578932	Ca7	35578932	CAAAAAAAAA/CAAAAAAAAAA	TGTAACGGCCACATAG GTCA	TTGATTGCTGTTTGT TGGA	60.0	280	DRR	Ca_17765	U	--
Ca7_P3_35605462	Ca7	35605462	CATATATATATATATATATA/CATATA TATATATATATATATA	TCAACCATTCCGAGTG CATA	CGCCGTAATGGCTTA AAAA	60.1	667	INTERGENIC	--	--	--
Ca7_P3_3564384	Ca7	3564384	ACT/A	TGCACCTCCAATGACCA GAG	TAGCCAAATGGGCTTA GGTG	59.8	670	DRR	Ca_03113	T	bHLH
Ca7_P3_35645685	Ca7	35645685	TTATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATAT	TTTGTCTCGTTTGAATT TGTGG	CATCATTTCATTCCAAC CCC	60.0	468	INTERGENIC	--	--	--
Ca7_P3_3566099	Ca7	3566099	AATAT/AAT	GGCAGTTGCTCCTGAA TAGC	GGATCAATTGTGAAT TCGTGA	60.0	519	INTERGENIC	--	--	--
Ca7_P3_35661773	Ca7	35661773	AATATATATATATATATATAT/AATAT ATATATATATATATAT	TTTGTGTTTGAGCGAA GACG	TGAACCTGTGTTGCTC CTGC	60.0	603	INTRON	Ca_17773	--	--

[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 (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
Ca7_P3_35977553	Ca7	35977553	AATGA/AATGATGA	TGAGTGCGATGGTTCA GAAG	GCGATTCATCATTCTC CGTT	60.0	608	INTERGENIC	--	--	--
Ca7_P3_3600073	Ca7	3600073	C/CATA	GCTTTTCTGGTCCTGC TTTG	GGTGTCTGGTCTTTGA CCGT	60.0	424	INTRON	Ca_03108	--	NAC
Ca7_P3_3600373	Ca7	3600373	AC/ACTC	ACGGTCAAAGACCAGA CACC	GTTGATGGCTGGACCA CTTT	60.0	350	INTRON	Ca_03108	--	NAC
Ca7_P3_3602053	Ca7	3602053	CTTTTT/CTTTT	GGGGAAAATATCCAAA GGGA	GAAGGGCTCCAAAGTC ACTG	60.0	547	INTERGENIC	--	--	--
Ca7_P3_3602121	Ca7	3602121	GTAT/GTATATAT	GGGGAAAATATCCAAA GGGA	GAAGGGCTCCAAAGTC ACTG	60.0	547	INTERGENIC	--	--	--
Ca7_P3_3602980	Ca7	3602980	TTGAGCTCTG/TTG	AATTCTATGCAGTCGGT GGG	TGGCAGACTCTATGGA ACCAA	60.0	157	DRR	Ca_03107	--	NAC
Ca7_P3_36051090	Ca7	36051090	AATATATATATATAT/AATATATATATAT ATAT	CAATGAAAACCCCATTT CTG	TCATGCAAATTC AAAA GAAATGA	60.2	911	INTERGENIC	--	--	--
Ca7_P3_3608175	Ca7	3608175	CA/CAA	TTTTCGTGGGATCAAAT TCC	ATTCACGAACCTGCGA TACC	59.7	495	INTERGENIC	--	--	--
Ca7_P3_3608219	Ca7	3608219	GT/GTCCCAATTT	TTTTCGTGGGATCAAAT TCC	ATTCACGAACCTGCGA TACC	59.7	495	INTERGENIC	--	--	--
Ca7_P3_3609653	Ca7	3609653	ATTTTTTT/ATTTTTT	TGCATGTGATGTGATG TGATG	CCCCGTGAGCTAGGCT AAAT	60.0	773	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 (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
Ca7_P3_36117059	Ca7	36117059	CTTT/CTTTCTTTATTTT	TGGATTGGGCTTTCCA ATAA	TGCCTTAACGTACCCA AACA	60.3	435	DRR	Ca_13721	G	Trihelix
Ca7_P3_3612730	Ca7	3612730	G/GTTTAA	CTATGGCATCGACATT GCAT	ATCGAGAGATCGCGAG AGAG	59.5	803	INTERGENIC	--	--	--
Ca7_P3_3612993	Ca7	3612993	ATATAATT/AT	AACACTCCGTATGTCC CACC	ATCGAGAGATCGCGAG AGAG	59.7	148	INTERGENIC	--	--	--
Ca7_P3_3613058	Ca7	3613058	CAGAA/CAGAAGAA	AACACTCCGTATGTCC CACC	CAACCCAACACCCAAC TACA	59.7	433	INTERGENIC	--	--	--
Ca7_P3_3615926	Ca7	3615926	TAAAAAA/TAAAAAA	CATGTTCTTGCCGTT TTG	GGCCATTGATTTGA TTTG	60.1	438	INTERGENIC	--	--	--
Ca7_P3_3621838	Ca7	3621838	GAAAAAA/GAAAAAA	TTCTCGAGTCCCTTAAC TTGATT	TTTGGTGAGTGAGGTT AAGAAGC	59.7	839	INTERGENIC	--	--	--
Ca7_P3_362262	Ca7	362262	TTAT/TT	TGATGTGTTGTACATTG ATTTGTG	TAGTCGGCCACAAGAA GACA	58.4	533	INTERGENIC	--	--	--
Ca7_P3_36243491	Ca7	36243491	TAAAAAAA/TAAAAAAA	TGTATCGCGTTAATCTG CGT	TTTGGTTTCATGGATG TGGA	59.4	886	INTERGENIC	--	--	--
Ca7_P3_3632331	Ca7	3632331	GT/GTT	TTTGCAGGTGGACGTT GTTA	TACTTCCGATCGATTC GTCC	60.1	840	INTRON	Ca_03106	E	--
Ca7_P3_36358822	Ca7	36358822	AAGAGAGAGAGAGAGAGAGA/AAG AGAGAGAGAGAGAGAGA	AAAACCCCAACTCAACC GTA	TCGCGCTTTCTTTCTC TCTC	59.3	587	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
Ca7_P3_3636919	Ca7	3636919	T/TTCACATGAGA	TTTTTGAGGGACACCA ATCTT	GTGGTAGTGGTAGGGT CGGA	59.9	745	DRR	Ca_03106	E	--
Ca7_P3_36439529	Ca7	36439529	ATTTTTTT/ATTTTTTTT	CGCTTTTCCGTCTTAG TGC	TCATTTGATAATTCA CACAAA	60.0	628	INTERGENIC	--	--	--
Ca7_P3_3649235	Ca7	3649235	GAATCCAATATCTA/GAATCCAATATCT AAAAATCCAATATCTA	GTCCGAGTCCTAACAG CAGC	TCATGGTGAGATTGGC AAAA	60.0	722	DRR	Ca_03103	U	LBD
Ca7_P3_3650792	Ca7	3650792	A/AATATTAG	ATTACCTGGTCGCAGC AAAC	AGCTGCGTGTCTCTAT CATT	60.1	616	INTRON	Ca_03103	U	LBD
Ca7_P3_3654337	Ca7	3654337	GTGGGAATCTTTT/GTGGGAATCTTTT CATGGGAATCTTTT	AAAGCAAACCTAGCAA CGGT	TATCAGAGCCTCCAT TGGG	59.9	427	INTRON	Ca_03103	U	LBD
Ca7_P3_36548120	Ca7	36548120	TAAAA/TAAAAAA	ACAACCAAGCGTGTGC TGTA	TGTTTGTGGAGAAAT GCCA	60.2	213	DRR	Ca_13744	O	--
Ca7_P3_3659184	Ca7	3659184	A/AC	TTTAGGTGCGCATTCAT CTG	TTAAAGGGTTTCGGCT TCCT	59.8	747	INTRON	Ca_03103	U	LBD
Ca7_P3_3662479	Ca7	3662479	TA/T	GTTTCGTGCAGTGTGG ATTG	GGAGTGTTTCACAAGC CGAT	60.2	448	INTRON	Ca_03103	U	LBD
Ca7_P3_36641003	Ca7	36641003	CTTT/CTT	ACCCAAATTAATCGAA CGG	ATGTAAATGCTTTTTCG GCG	58.8	456	INTERGENIC	--	--	--
Ca7_P3_36665611	Ca7	36665611	AATATATATATATATAT/AATATATAT ATATATATATAT	AGACCAATTCGTGAGT CAACA	CAAGGGCTAAGGATCG AGTG	59.6	850	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 (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
Ca7_P3_3668391	Ca7	3668391	GC/GCC	GCGGGTTTTTGACAAT GTTT	TTACTTTTGACGGGAA ACGG	59.8	618	INTERGENIC	--	--	--
Ca7_P3_3670152	Ca7	3670152	TAGAAG/TAGAAGAAG	CACCAAAGCTGGTCAA AGGT	CCACCATCACCTATTG CCTT	60.1	293	DRR	Ca_03102	TU	--
Ca7_P3_36717770	Ca7	36717770	AATATATATATATATATA/AATATATATA TATATATATA	TGCCTTTAACAATAATC GAGAATG	TGGTTTGGTTCCATCA GGTT	59.6	803	DRR	Ca_13757	S	--
Ca7_P3_3671929	Ca7	3671929	AG/A	TGGAAGGGTAGAAGTG GTGG	TACAGTTTCAGCCTGG GTCC	60.0	700	DRR	Ca_03102	TU	--
Ca7_P3_3674765	Ca7	3674765	ATT/ATTT	AGCTCACATCCCATTCA ACC	CGATCCTGTGGGAGAA CATT	59.9	654	INTRON	Ca_03102	TU	--
Ca7_P3_36774662	Ca7	36774662	TTTATTATTATTATTATTATTATTAT/ TTTATTATTATTATTATTATTATTAT TATTATTATTATTAT	TGGCCTGACCTACTTAT GGC	GGCCTGAGTCTGACCT ACGA	60.1	580	DRR	Ca_13762	I	BES1
Ca7_P3_3679071	Ca7	3679071	T/TGGTTA	GTTGCGCGCATTATTT TAT	TGAAAACGAACCAAA CCGA	60.0	409	INTERGENIC	--	--	--
Ca7_P3_3679152	Ca7	3679152	AT/A	GTTGCGCGCATTATTT TAT	TGAAAACGAACCAAA CCGA	60.0	409	INTERGENIC	--	--	--
Ca7_P3_3679296	Ca7	3679296	GC/GCAAAAAAATATC	GAAAGGGGCTCAGAGG TAGG	GGTAATCACCAAAGTC CATGC	60.2	940	INTERGENIC	--	--	--
Ca7_P3_36803710	Ca7	36803710	TTT/TTTTATT	AAGTGATCATTTGATGC ACAGG	TGACATGTGCAAAATTG AAAGG	60.0	720	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_3682108	Ca7	3682108	TCGATTCT	CCATTTGCAGGATTCAA GGT	GGTGCTTTGCTACCTA GCCTT	59.9	629	INTRON	Ca_03101	--	--
Ca7_P3_36821484	Ca7	36821484	TATATATATATATATATATATATAT /TATATATATATATATATATATATA TATAT	AACGGTGAAGTGCCTT ATGC	AACAGGCCCTAATGGG CTAC	60.1	646	INTERGENIC	--	--	--
Ca7_P3_3689483	Ca7	3689483	TTA/T	AACCAATGACCATCGA GAATC	ACTCCTCTCCCCCTA CCAT	58.9	640	DRR	Ca_03100	S	--
Ca7_P3_3689525	Ca7	3689525	GTTTT/GTTTT	AACCAATGACCATCGA GAATC	TTTCCAACGGTATCC ACAT	58.9	914	DRR	Ca_03100	S	--
Ca7_P3_3689798	Ca7	3689798	TAGAGAG/TAGAG	ATGGTAGGGGAAGAG GAGT	CTTTTCGTTTGCCAA TGTT	58.9	381	DRR	Ca_03100	S	--
Ca7_P3_37005703	Ca7	37005703	T/TAATAATAATAAA	GCATATCCAAGATGCG ACCT	GCAAAAAGCTGAAAAAG TGCC	60.1	550	INTERGENIC	--	--	--
Ca7_P3_3705330	Ca7	3705330	AATATATATATATATA/AATATATATATA TATATA	CTTTGCAAATGGCGAC TTCT	CTTTCGTGGAGCATGA GACA	60.4	218	INTERGENIC	--	--	--
Ca7_P3_37073262	Ca7	37073262	ATTTTT/ATTTTTTT	CCCCAAATCTTTAAGA CAAACC	GACACGTTGACGGATT TTGA	60.1	345	INTERGENIC	--	--	--
Ca7_P3_37147869	Ca7	37147869	CATATATATATATATATATATATATAT ATAT/CACACACATATATATATATATA TATATATATATATATAT	GGAGAAGGAGGAGAA ATGG	TGCGTTACGGTGAAAT GGTA	60.0	283	INTERGENIC	--	--	--
Ca7_P3_37169083	Ca7	37169083	AAATAATAATAATAATAATAATAA/A AATAATAATAATAATAATAATAATA A	GCTTATCGCAACATGG GAAT	TTGACCTTGTGTGCT CCAG	59.9	509	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
Ca7_P3_37171389	Ca7	37171389	TAAAAAAAAA/TAAAAAAAAA	ATGACCGCACCTCAAA TAGG	CGACTTTTCAAGCATT GGGT	60.0	438	INTERGENIC	--	--	--
Ca7_P3_37177641	Ca7	37177641	TAAAAAAAAA/TAAAAAAAAA	CCTGACATAGGGAGAG CGTT	TGTTTCGTTTTGCCAAA GATT	59.3	565	INTERGENIC	--	--	--
Ca7_P3_3732489	Ca7	3732489	TTATATATATAT/TTATATATATATAT	AAGTGGCATATTTTCTC TTCCA	TACTAAAGCCAATGAC CGGC	59.2	208	DRR	Ca_03096	T	--
Ca7_P3_37520348	Ca7	37520348	ACTTATTT/A	GGAAGTAGAAGGGTTG GGGA	GGGATTTGTTTGGAAG GGTT	60.3	376	INTERGENIC	--	--	--
Ca7_P3_37538296	Ca7	37538296	CTTTT/CTTT	TTTGAATCCCATGATGC GTA	TCCCAACCCAAATAAA CCAA	59.9	283	INTERGENIC	--	--	--
Ca7_P3_3754420	Ca7	3754420	GTCTCTCTCTCTCTCTCTCTCTCTC T/GTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	AAATCGACGGCCACAG ATAC	CACAATGTCCATGCTC CAAC	60.0	703	INTRON	Ca_03092	BK	--
Ca7_P3_37556688	Ca7	37556688	TAAAAAAAAA/TAAAAAAAAA	GGGCTGACATTTTCAC CAA	CCAACTTGGTTCCCAA AATC	60.9	400	INTERGENIC	--	--	--
Ca7_P3_37568375	Ca7	37568375	ATTTTTTTTTT/ATTTTTTTTTT	TGTGTTGCAAGTGTGC TTGA	GTTCCGGGTTTGTGTTT GCTT	60.1	851	INTERGENIC	--	--	--
Ca7_P3_37569442	Ca7	37569442	TCTGATGCTGATGCTG/TCTGATGCTG	CCAACTGAGAAGCTTTT GGC	GATGCCTCCAACATGT TCCT	60.0	698	INTERGENIC	--	--	--
Ca7_P3_37586910	Ca7	37586910	TAAAAAAAAA/TAAAAAAAAA	TCATTGGCCAAAACCTTG TGA	CACCGCCATCAAGCTA AAGT	60.1	260	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 (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
Ca7_P3_37595168	Ca7	37595168	ATGTGTGTGTGTGTGTGT/ATGTGT GTGTGTGTGT	CGTTTTGCCTCCTTCA GTC	TGGAACCCGGTAGATA CTTTG	59.9	805	INTERGENIC	--	--	--
Ca7_P3_37595726	Ca7	37595726	ATTTTTTTTT/ATTTTTTTT	CAAAGTATCTACCGGG TTCCA	CAACTCGGTTACACACC TTCA	59.0	659	INTERGENIC	--	--	--
Ca7_P3_3760732	Ca7	3760732	ATGGAAGTGGAACGTGGAAG/ATGGA AGTGGAACGTGGAAGTGGAACGTG GAAG	GGCATGCGATAGTGAT GAGA	CTACGCCTTTGTCAAC CCAT	59.8	310	INTERGENIC	--	--	--
Ca7_P3_37622218	Ca7	37622218	TCA/T	TACCCACGGTAGCTC TTTG	TTGATCATCACCTC AACA	60.1	722	INTERGENIC	--	--	--
Ca7_P3_37654058	Ca7	37654058	TTATATATATATATATATA/TTATATA TATATATATATA	CCTCGCTTTCAAATTCA ACC	TTCTACGATGTAAAGC CCGC	59.7	238	INTERGENIC	--	--	--
Ca7_P3_37660268	Ca7	37660268	ACC/AC	TCATTTGCTTTCAATTT ATGTCG	GTTGTCAATTGGAGGT CGCT	59.2	614	INTERGENIC	--	--	--
Ca7_P3_37660317	Ca7	37660317	CTTTTTTTTT/CTTTTTTTTTT	TCATTTGCTTTCAATTT ATGTCG	GTTGTCAATTGGAGGT CGCT	59.2	614	INTERGENIC	--	--	--
Ca7_P3_37695649	Ca7	37695649	CTTT/CTT	TTCTTGACAAGGGTTG AGCC	TCGGATGGTGATTCTG ATGA	60.2	717	DRR	Ca_22801	KIT	--
Ca7_P3_3770285	Ca7	3770285	CTTTTTTT/CTTTTTTTT	TTTTGCATAACCAAACG CAA	GTTTTGGCAAATTATG GGG	60.1	517	INTERGENIC	--	--	--
Ca7_P3_37754992	Ca7	37754992	CAAAAAAAAAAAAA/CAAAAAAAAAA AAAAA	TGCATCAACAACGTGCA TCA	TGGATGGCTCTTTCC AAAA	59.8	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_37928726	Ca7	37928726	TGATA/T	ATTGTGTCCGCAGGAA AATC	GTGTGTGTCCACTGC CATC	59.9	329	INTERGENIC	--	--	--
Ca7_P3_37956889	Ca7	37956889	GAAAAAAAA/GAAAAAA	ATATTGTCGCGTTTCG TTTG	GGGACCGTAGGTGCA ATTTA	60.9	468	INTERGENIC	--	--	--
Ca7_P3_37964071	Ca7	37964071	T/TTTCAA	CCACCATGCAAGGAGT TTTT	GCACGTTGTAATGAAC GGTG	60.0	470	DRR	Ca_16386	--	HD-ZIP
Ca7_P3_38036867	Ca7	38036867	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTAT/TTTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT	GGAACACCTCGTTCAA GAGC	TTTCAGCAGCAATGG TATG	59.9	570	INTRON	Ca_16391	--	NF-YB
Ca7_P3_38073484	Ca7	38073484	GATAATAATAATAATAATAATAATA ATAATAATA/GATAATAATAATAATA ATAATAATAATA	TGGAGAGAAACAAAT CGGG	TCTGTCTCGCTCACAT ACCG	60.0	424	INTERGENIC	--	--	--
Ca7_P3_38120048	Ca7	38120048	GTTTTTTTTTT/GTTTTTTTTTT	AGTGACCAATTTAGCG ACCG	TAACGGGCCCAACAAT TCTA	60.1	662	INTERGENIC	--	--	--
Ca7_P3_3812373	Ca7	3812373	ATTTTTTTTT/ATTTTTTTTT	GGAAGCTCTGGAAATG TTGG	CCCTACCAATCTTGAG CACC	59.7	488	INTERGENIC	--	--	--
Ca7_P3_38252763	Ca7	38252763	TAAAAAAAA/TAAAAAAAAA	CTCTGGGAGATGACAG GGAC	CTGCGCTCATATCCAG TTGA	59.6	542	INTERGENIC	--	--	--
Ca7_P3_38284727	Ca7	38284727	CAAAAAAAAAAAAA/CAAAAAAAAAA AAAAA	TTTCATTCTGCTGAAGC GTG	TTGACGAACTCCGAAT GACA	60.1	817	INTERGENIC	--	--	--
Ca7_P3_38293400	Ca7	38293400	GA/G	GAGGCAATTGCTTGGA ACTC	TTGCCAATCGATGGTG TTTA	59.8	518	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 (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
Ca7_P3_38457330	Ca7	38457330	CATATATATATATA/CATATATATATATA TA	TCATGATGAGGCAATT GGA	TTGGTTTATTTGGTT GGGA	60.0	385	INTERGENIC	--	--	--
Ca7_P3_38506346	Ca7	38506346	ATTTTT/ATTTTTT	AAACACTTTGTGACCC TGC	TGCATTAAATGGTGAA GGTGA	60.0	668	DRR	Ca_16419	R	NAC
Ca7_P3_38669994	Ca7	38669994	TTTATTATTATTATTATTATTATTAT T/TTTATTATTATTATTATTATTATT	CCTGCCGGTTTATTTG TTC	GCGATCGAATGGCAAT ATCT	59.5	657	INTERGENIC	--	--	--
Ca7_P3_38743655	Ca7	38743655	CTATTATTATTATTATTATTATTATT T/CTATTATTATTATTATTATTATTAT TTATTATT	CTTAGGTTTGCACTCA GCC	CTCAATCGTGGGTGAC CTTT	59.9	932	INTERGENIC	--	--	--
Ca7_P3_38744253	Ca7	38744253	TAAAA/TAAA	AAAGGTCACCCACGAT TGAG	AAGAGTCGCCACAAG AAGA	60.0	448	INTERGENIC	--	--	--
Ca7_P3_38757753	Ca7	38757753	TAAAAAAAA/TAAAAAAAA	GCCATCTTTATTCCAAC CGA	TTTGATGAATTTGATGT TGTTGG	59.9	776	DRR	Ca_16426	--	SBP
Ca7_P3_38800367	Ca7	38800367	ATTTTTTTTTTT/ATTTTTTTTTTT	GGGGTGCAATTCATT GTTT	TGGGCAGCTACCACAA TATG	59.8	315	INTERGENIC	--	--	--
Ca7_P3_38806740	Ca7	38806740	GAAAAA/GAAAAA	TGAGTGCCATTTTCAT CCA	CATGGGAGAAGATTC AGGC	60.0	932	INTRON	Ca_16429	QR	B3
Ca7_P3_38838857	Ca7	38838857	TAAAAAAAA/TAAAAAAAA	CAACGGTGAACCAAC ATGA	ATCCAAGCCGTCTAAG AGCA	58.1	646	INTRON	Ca_16433	C	bHLH
Ca7_P3_38935825	Ca7	38935825	GTTTTTTTTT/GTTTTTTTTT	GAAAAGGCTCCACCA AAAC	TGTAATGGGGTCAAG TGGT	60.8	970	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 (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
Ca7_P3_39029671	Ca7	39029671	C/CTAAGTCTA	CAATGGCTTTGTTGAAT TGG	TGCCGCTATGTACTTT TGCC	59.0	789	INTERGENIC	--	--	--
Ca7_P3_39110983	Ca7	39110983	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT	AGCGTGATTCTTGCTTC CAC	TCGAAAATGAAAATGG GAATC	60.4	341	INTERGENIC	--	--	--
Ca7_P3_39175560	Ca7	39175560	CGTT/CGTTGTT	ATTGGTGATTGATGCAA GGG	GCTACAAAAATTGAAA GACACAGA	60.7	447	INTERGENIC	--	--	--
Ca7_P3_39396290	Ca7	39396290	TA/TAGAA	CGTTGAGAATGATCTTT GGGA	TATTCGACCAATGCGA AGGT	60.1	160	INTERGENIC	--	--	--
Ca7_P3_39443504	Ca7	39443504	C/CT	TCCAACATGCATTCATC CAC	TTTTGTTTTTCATTCGGA GCC	60.3	447	INTERGENIC	--	--	--
Ca7_P3_39498479	Ca7	39498479	CAAAAA/CAAAA	GGCTAAATAACACTTGT GGTCCC	CCACATAAGTGTTTGC CACG	61.0	363	INTERGENIC	--	--	--
Ca7_P3_39498987	Ca7	39498987	ATGAAATC/ATGAAATCCTGAAATC	TCCCCCAAACAGAAATT GAG	TTAAAACGCATGGAC CACA	59.9	699	INTERGENIC	--	--	--
Ca7_P3_39518115	Ca7	39518115	TAAACAAAAACAAAA/TAAACAAAAACA AAAAACAAA	GGTCCCTTGTAAGCCC AAAT	TTTACGAGCCCATTTG TTGA	60.2	450	INTERGENIC	--	--	--
Ca7_P3_39525063	Ca7	39525063	ATTTTTTTTT/ATTTTTTTTTTT	AACGACCAACTTGGA AAAA	GGAGTGGGTCACCGA GAATA	59.4	520	INTERGENIC	--	--	--
Ca7_P3_39562215	Ca7	39562215	CTTT/CTTTT	TTATGTGCTTTGAGCAT CCG	TCATGGCAAATACCGA CTCA	59.8	734	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 (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
Ca7_P3_39611392	Ca7	39611392	AAATAATAATAATAATAATAATAAT AATAATAA/AAATAATAATAATAATA ATAATAATAATAATAATAATAA	CTGTGCGCTTGACTGA TGTT	CTAAATTCGAAATTCG GCCA	60.1	930	INTERGENIC	--	--	--
Ca7_P3_39639645	Ca7	39639645	ATTT/ATT	TTTCCAGTCGATTGGT TTC	ATCGTTCCTTCCTGT GTTG	59.9	406	INTERGENIC	--	--	--
Ca7_P3_39752403	Ca7	39752403	TAAAAAA/TAAAAAA	AGTCGTATACGGGAGA TGCG	CTTGCCATCCTCCAA ACAC	60.1	322	INTERGENIC	--	--	--
Ca7_P3_39760465	Ca7	39760465	CAAAAA/CAAAA	CGAACGGACCCAAGAG AATA	AAAACTCCATTGATGC TGGTG	60.1	612	INTERGENIC	--	--	--
Ca7_P3_3976290	Ca7	3976290	ATTTTTTT/ATTTTTTT	AAAAAGTTGAGGTGGG TAAAAAT	TTGCAAGCTATTGTC CACG	57.3	730	INTERGENIC	--	--	--
Ca7_P3_39852561	Ca7	39852561	AAAAATGTTAAAA/AAAAATGTTAAAT GTTAAAA	TTAATCCAACCATCACA CAAAA	CAAGCGCAGGTGTATG AAAA	57.9	749	INTERGENIC	--	--	--
Ca7_P3_40156951	Ca7	40156951	CTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATT/CTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT ATTATTATTATTATT	TTGGCAAAGAACAATCA CCA	CGGAAAAGCATTAGGT GGTC	60.1	413	CDS (large-effect mutations)	Ca_24266	R	C2H2
Ca7_P3_40168295	Ca7	40168295	TATAATAATAATAATAATAATAATA AT/TATAATAATAATAATAATAATAA TAATAATAATAATAAT	TCTGCAAGACCCAAGT TTGA	TTCAAATCTACCGGA TCGAA	59.4	445	INTERGENIC	--	--	--
Ca7_P3_4020520	Ca7	4020520	ATCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCTCTC/ATCTCTCTCTCTCTC TCTCTCTCTCTCTCTCTCTCTCTCT C	AAAAGTGGGCACAAGC TGTC	TCATTCCCCTGTTTCAT CCAT	60.3	805	INTRON	Ca_03061	U	--
Ca7_P3_40214976	Ca7	40214976	CATTATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT ATT/CATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATT	ATCGGAGGTGCATAGC AAAC	TGCTTGATCACTAACC TCTCCTC	60.1	587	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 (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
Ca7_P3_40337319	Ca7	40337319	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATATATA TATAT	TGCCTTGATCGATGAC CATA	ACGGCAAGACCCTAAA ACCT	60.0	967	INTERGENIC	--	--	--
Ca7_P3_40430153	Ca7	40430153	AAGTAAGTA/AAGTAAGTAGTAAGTA	GTTGGTTCAAAGCAA CCGT	ACAAGGATACGTGCAG GGAC	60.0	493	CDS (FRAME SHIFT)	Ca_20258	--	Trihelix
Ca7_P3_40740486	Ca7	40740486	TTATATATATATAT/TTATATATATATAT AT	TTTTGCACTCGAGTTGT TCG	CGTTTGATCCTGCTTC ACTG	60.0	674	INTERGENIC	--	--	--
Ca7_P3_40764757	Ca7	40764757	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTAT/ATATTATT ATTATTATTATTATTATTATTATTATT TATTATTATTATTAT	AGCCGGGCATCAATTT TATT	TGGATTGGATCCGGT TTTA	60.6	282	INTERGENIC	--	--	--
Ca7_P3_40767782	Ca7	40767782	CTT/CT	TGCCCTTCCACAATTAG GAG	TATCCATTGGGCCATG AAGT	60.1	361	INTERGENIC	--	--	--
Ca7_P3_40804075	Ca7	40804075	ATTTTTTTTT/ATTTTTTTTTTTT	GCCATTTACAGCGCTTT TTC	ATGCTGCAAGGGATCT GAAT	59.9	809	DRR	Ca_20279	O	SRS
Ca7_P3_40941226	Ca7	40941226	AGGGGGGGG/AGGGGGGGGG	GAACAACGCCAAA CGAT	GAGGACTGGACGTACC CTTG	60.0	474	INTERGENIC	--	--	--
Ca7_P3_40965776	Ca7	40965776	ATTTTTTT/ATTTTTTT	TGGTATTGAAACACCC CAAA	AATATGAAGTTGCGGC TGCT	58.7	857	INTERGENIC	--	--	--
Ca7_P3_40985025	Ca7	40985025	TAAAA/TAAAAA	GCAACTGCCTTAAAAA GGAA	GGAACGTGCGTACATT GTTG	59.2	303	INTERGENIC	--	--	--
Ca7_P3_4099790	Ca7	4099790	AATATATATATAT/AATATATATATAT	CAACCAATGGTGAATT GCAG	ATGCGAATGTAAGTGG GGAG	60.0	329	DRR	Ca_03057	G	HB-PHD

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 (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
Ca7_P3_41008241	Ca7	41008241	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	GCCAATCAGGACACAT CTCA	TCAGAACATTCCATCG GTGA	59.6	563	INTERGENIC	--	--	--
Ca7_P3_41008810	Ca7	41008810	TTAA/TTAACTAA	TAGCGCCTACATCGGA GAGT	GTTCAATTATGCGCAAG CATT	60.0	387	INTERGENIC	--	--	--
Ca7_P3_41009960	Ca7	41009960	ATTTTTTTT/ATTTTTTTTTT	CATGACCTCGGTTTCA ATAA	CCCTCACATTTTTAAG GCACA	57.6	814	INTERGENIC	--	--	--
Ca7_P3_41010142	Ca7	41010142	CAA/CAAAA	TGCAATGAATGAAAGTA TGCTACC	GAAAAAGCGCTGTAAA TGGC	60.4	815	INTERGENIC	--	--	--
Ca7_P3_41010572	Ca7	41010572	CT/CTTTT	TGTGCCTTAAAAATGTG AGGG	AAGCGCTGTAATATGC CCAC	60.0	521	INTERGENIC	--	--	--
Ca7_P3_41027569	Ca7	41027569	AT/ATT	TCTCCCAATGTTTGGTG TTG	TACATAACGCAAAGCC ACCA	59.4	205	INTERGENIC	--	--	--
Ca7_P3_41170096	Ca7	41170096	T/TA	TAAGGTTGTCTGGGGA GGTG	CGGCGAATTTGTTTTTC TTTT	60.0	667	INTERGENIC	--	--	--
Ca7_P3_4118702	Ca7	4118702	ATTTTTTTTT/ATTTTTTTTTT	TTGTTATTGCTTGGTGT GGTT	GCAAAAAGAGACCTGC CAAG	58.1	661	INTERGENIC	--	--	--
Ca7_P3_41250872	Ca7	41250872	AT/ATT	GTGATATTGGGGGTG AATG	AAGGGTCCTCTTGAAG CGTT	60.0	680	INTERGENIC	--	--	--
Ca7_P3_41251256	Ca7	41251256	AG/A	CCAATAGTTTAGTGGG CCAAA	AAGGGTCCTCTTGAAG CGTT	59.0	213	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 (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
Ca7_P3_41252327	Ca7	41252327	TTAT/TT	TGCAATGCAATGTCCAT TTT	TTTTCTCATGGTGC AGTG	59.9	324	INTERGENIC	--	--	--
Ca7_P3_41283416	Ca7	41283416	A/AAG	GGTAAACCAATAGCAG CGGA	GAAAAACAGCCCAAT TCAA	60.1	566	INTERGENIC	--	--	--
Ca7_P3_41429174	Ca7	41429174	TAA/TA	TGAGACCGGTTTGAG TACC	CTGCTGCTCTGCATC TCAG	60.0	385	INTERGENIC	--	--	--
Ca7_P3_41439402	Ca7	41439402	TTT/TTTATTAAGTAGAGCGTT	TTTTCATTAGGCCTGAA GGGT	CGCCAAGTAACCACCA AAGT	60.0	503	INTERGENIC	--	--	--
Ca7_P3_41440721	Ca7	41440721	GAAAAAAAA/GAAAAAAAA	CCAACCTCCCAAGT CAAA	ACAGAAGAAGTTGTC GCCT	59.9	183	INTERGENIC	--	--	--
Ca7_P3_41484126	Ca7	41484126	GTATATATATATATATATAT/GTATAT ATATATATATAT	AGATTCGCAGGCAGTT GAGT	CGAGAGAGTGTACGC ATGT	60.0	701	INTERGENIC	--	--	--
Ca7_P3_41545952	Ca7	41545952	CT/CTTT	TCATTCTTGAAATTGCG ACG	GCGACAATGGGTGTGA CTAA	59.8	540	INTERGENIC	--	--	--
Ca7_P3_41564217	Ca7	41564217	AT/ATATTT	CGAGTTGCTTGAGAGG ATTTG	CCTATCATGGTTTGGC CTGT	60.0	568	INTERGENIC	--	--	--
Ca7_P3_41659559	Ca7	41659559	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTAT/TTTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTAT	AGCCACATGCATACAG CTTG	AAGGTTATCCCAAAAT CCCG	59.9	749	INTRON	Ca_17988	K	TCP
Ca7_P3_41751259	Ca7	41751259	TAAAAAAAAAAAAAAAAA/TAAAAAAAAAA AA	GAGATACCCACTGCCA CGAT	AGGTGACAAACCGCCA TAAC	60.0	542	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 (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
Ca7_P3_41807093	Ca7	41807093	TTATATATATATATATATATATATATA TA/TTATATATATATATATATATATAT ATATATA	GCTTGTGTTTAAAGCG CTCC	CGATTCGATTCTCGTT TCCT	60.0	709	INTERGENIC	--	--	--
Ca7_P3_41917376	Ca7	41917376	ATTTTTTT/ATTTTTTTT	CTATGCAGGCCATGTA GTGG	AGCCACACGCTCTAAC CAAC	59.2	575	INTERGENIC	--	--	--
Ca7_P3_41956635	Ca7	41956635	CAAAAAAAAA/CAAAAAAAAAA	TTGGAAAAGCCACCT ACAC	TGCAGTGCAATGTCCA TTTT	60.0	221	INTERGENIC	--	--	--
Ca7_P3_42137652	Ca7	42137652	GACATACAAACATACAAACAT/GACATA CAAACATACAAACATACAAACAT	CCCATGTGGTGATGCT ACTG	GAATGAGGGAATTGCA AGGA	60.0	480	INTERGENIC	--	--	--
Ca7_P3_42224874	Ca7	42224874	ATTTTTTTTT/ATTTTTTTTTT	TCCAACGGCTAAAAA CATC	ATCCACAGCGGTGAC ATCA	59.9	561	INTERGENIC	--	--	--
Ca7_P3_4227831	Ca7	4227831	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	CCGAACTCAATGCTCC TCAT	TGCTCCTTCCTTATTCC ACG	60.2	787	INTERGENIC	--	--	--
Ca7_P3_42321392	Ca7	42321392	TG/TGG	AGTTAAGGGCTTTTCC CCA	CCGGATATAGCCAGCC ACTA	59.9	723	INTERGENIC	--	--	--
Ca7_P3_42358859	Ca7	42358859	TTAAA/TGTCACAAATTGATAAA	AGCTTACCATCCACAAA CGG	ATCACGCAACATAACA CCCA	60.0	726	INTERGENIC	--	--	--
Ca7_P3_42384922	Ca7	42384922	C/CAAAATAA	TTTACAGGCAGCGGAA AAGT	GCTAAGGTGCATGCTT GGTT	59.9	340	INTERGENIC	--	--	--
Ca7_P3_42405206	Ca7	42405206	AATATATATATATATAT/AATATATATAT ATAT	TTGGTATTGAACTCGG AGGC	GTTGGTTCCTAGCAC CGTA	60.1	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 (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
Ca7_P3_42459584	Ca7	42459584	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	GCCCTCAGATGAGAGT CAGG	CTTTGGGCTTGATG GATA	59.9	896	INTERGENIC	--	--	--
Ca7_P3_42465786	Ca7	42465786	CA/CAA	GTCCGTGAGAGACTGC ACAA	CTCTCATCTGAGGGCA AAGC	60.0	743	INTERGENIC	--	--	--
Ca7_P3_42582021	Ca7	42582021	TTATATATATATATATATATATATATA TATATAT/TTATATATATATATATATATA TATATATATATAT	TCAATCGGAAGGAGAA GGTG	TGCCCACTTATACAGC AAAGG	60.2	740	DRR	Ca_20211	--	--
Ca7_P3_42582888	Ca7	42582888	ATC/A	CCTTTGCTGTATAAGTG GGCA	TCGTGTTGCGCCTAAC AAT	60.1	840	DRR	Ca_20211	--	--
Ca7_P3_4263389	Ca7	4263389	CATATATATATATATATATATATATAT ATA/CATATATATATATATATATATATAT ATATATATA	TTGCATAACCCACTGA CCA	TTAGTTTTGCGGCTTC TGCT	60.0	166	INTERGENIC	--	--	--
Ca7_P3_42738535	Ca7	42738535	TAAAAAA/TAAAAAA	TCCCGCTACACTTTGA GGAC	TCAAAGCAAGTGTTG CAGG	60.3	592	INTERGENIC	--	--	--
Ca7_P3_42749373	Ca7	42749373	GATAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA/GATAAT AATAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAA	ATTGGGATTCTCGTCC TCC	GATGCAACAAACCAT GCAC	60.3	642	INTERGENIC	--	--	--
Ca7_P3_42757617	Ca7	42757617	T/TGGTTTGAAGTTTGC	TTTGCTCTGAAAGCCCA AAT	AGTTCCTGCAACTCCG AAGA	59.8	527	INTRON	Ca_20201	--	--
Ca7_P3_42770090	Ca7	42770090	TAGTTGCATATTTAACAGAGTTGCATA TTT/TAGTTGCATATTT	CCATTGTCCATACACCA CGA	GAACAACATGCAAACA TGCC	60.2	745	INTERGENIC	--	--	--
Ca7_P3_42832699	Ca7	42832699	CATTATTATTATTATTATTATTATTATTA TTGTTATTATTATTATTATTATTATTATT ATTATTA/CATTATTATTATTATTATTAT TATTATTGTTATTATTATTATTATTATTA TTATTATTATTA	CCCAACATAGCAAGGT TGAAA	TTGTGGTGGGAAAAAG AAGG	60.0	816	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 (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
Ca7_P3_42848633	Ca7	42848633	ACC/ACCC	TGAAATTATGGGTGGG CATT	TGCACATTTTACAGCG CTTC	60.0	385	DRR	Ca_20198	--	Trihelix
Ca7_P3_42919520	Ca7	42919520	AAT/AAAGAATCAT	TCAGCACTGCACCAA ACAT	AAAAGGCGCATACGCT AAGA	60.3	621	INTERGENIC	--	--	--
Ca7_P3_42924926	Ca7	42924926	GT/GTAT	CATTATAGCCGTTGGC GTTT	AACTTGATGCCGAGTA GCGT	60.0	396	INTERGENIC	--	--	--
Ca7_P3_42931459	Ca7	42931459	TA/T	ACGTAATATTTGTGGC GGC	GGTTGACATTTGTGAG GGCT	59.9	251	DRR	Ca_20196	--	--
Ca7_P3_42931948	Ca7	42931948	AATATATATATATATATATA/AATA TATATATATATATATATATA	AGCCCTCACAAATGTC AACC	GAAATTGACACCTTC CGATTG	60.0	457	DRR	Ca_20196	--	--
Ca7_P3_43007055	Ca7	43007055	TAT/TATCTCAAT	ATACAACACTCCCGTT TGC	CAAAGTTGACAAGGGT CGGT	59.9	619	DRR	Ca_20192	--	--
Ca7_P3_43208355	Ca7	43208355	CTTTTT/CTTTT	CACAGGCACAAAATTT CTCAA	TGAATTGAGATCGTTG GCAC	60.1	568	INTERGENIC	--	--	--
Ca7_P3_43276558	Ca7	43276558	GA/GAA	TCATGATCTTGCCCAA CCA	GTGTAATGGGGCTAGG AGCA	59.9	110	INTERGENIC	--	--	--
Ca7_P3_43375115	Ca7	43375115	CAAAA/CAA	CCAATATCTCGTGTTC CGT	CATTTCAGTTGGGCG AGTT	59.8	335	INTERGENIC	--	--	--
Ca7_P3_4339580	Ca7	4339580	TTTTTATTTTTATTTTTATT/TTTTTAT TTTTATTTTTATTTTTATT	GCTAGTGCCTCCCTTG AGTG	TCACGGGTGCATTGAA CTTA	60.0	614	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
Ca7_P3_43413500	Ca7	43413500	CTA/CTATA	ATAGACCGGTGAATA GGCA	CCAAACTTGGTTGCC CTAA	59.4	401	INTERGENIC	--	--	--
Ca7_P3_43538949	Ca7	43538949	GCCCC/GCCCCC	TCGCATGGTCAAATCA GTTT	TTGTCCTCTTTTGTGT GGAGA	59.7	561	INTERGENIC	--	--	--
Ca7_P3_4369825	Ca7	4369825	ATTTTTTT/ATTTTTTT	GATCGCGTTGACGAG TATT	TGGTCCTCTAAATTTG CCA	60.1	912	INTERGENIC	--	--	--
Ca7_P3_43744745	Ca7	43744745	CAAAA/CAA	AATCAAAGTATCATTC GTCCT	TCCAAAAATCAAAACCA AAACC	57.7	139	INTERGENIC	--	--	--
Ca7_P3_43800916	Ca7	43800916	ATTCTTCTTCTTCTT/ATTCTTCTT TTCTTCTTCTT	TGATGGACTTCGTCT CTTG	CCAGGATAAAACAGCC CAGA	60.0	289	INTERGENIC	--	--	--
Ca7_P3_43811202	Ca7	43811202	CAAA/CAA	GGGTCTGGGATCAACT CTGA	TTGAACTGAATGCAAG CCAC	60.0	630	INTRON	Ca_21355	S	--
Ca7_P3_44001226	Ca7	44001226	GAAA/GAA	GAACACCACACGCAAA GAAA	TTTGTCCAATGGCAGT TTCA	59.7	529	INTERGENIC	--	--	--
Ca7_P3_44001613	Ca7	44001613	T/TG	TGAAACTGCCATTGGA CAAA	CAATTTCTTTGCGTGT GGTG	60.1	476	INTERGENIC	--	--	--
Ca7_P3_44018709	Ca7	44018709	CTTTTTTTTT/CTTTTTTTTTT	CAGTTTGCCGCTGAAA CATA	CGCCAAAAGAATCCCA TTTA	59.9	268	INTERGENIC	--	--	--
Ca7_P3_44088028	Ca7	44088028	CATATATATATAT/CATATATATAT ATATAT	TTTTGTTGCGGCACTAT TCA	CAATATGCATAAATGG CCTGC	60.3	163	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 (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
Ca7_P3_44150096	Ca7	44150096	T/TTTA	AGTCTTACCAGCGCCA CACT	TCCCAACTACAACGAG GACC	59.9	567	DRR	Ca_21366	O	--
Ca7_P3_44150736	Ca7	44150736	TAAAAA/TAAAAAAA	GGTCCTCGTTGTAGTT GGGA	CCAAGGCATCAGCTCA CATA	60.0	467	DRR	Ca_21366	O	--
Ca7_P3_44150980	Ca7	44150980	TAAAAA/TAAAAAAA	TATGTGAGCTGATGCC TTGG	ACCAACCAGATCATTG AGCC	59.8	555	DRR	Ca_21367	PT	C3H
Ca7_P3_4418125	Ca7	4418125	A/ATC	CAAGTCAGCACCGACA AAGA	ATAAAGGGTGACGTG GCAG	60.0	592	INTERGENIC	--	--	--
Ca7_P3_44213010	Ca7	44213010	GTTTTTTTTT/GTTTTTTTTT	TTCGTAATGGACGGGA TGAT	GGCCTTTTACAACGCT TTTTC	60.2	431	INTERGENIC	--	--	--
Ca7_P3_44300379	Ca7	44300379	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT	CTAACTCGCACGCGTA AACA	CGCTTTGAAAAACGGA GTGT	60.1	748	INTERGENIC	--	--	--
Ca7_P3_44380984	Ca7	44380984	GAAAAAAA/GAAAAAAA	AGTGGTGAAGACATG GAGG	CAATTCGATTGCACCC TTCT	60.0	192	INTERGENIC	--	--	--
Ca7_P3_44395386	Ca7	44395386	TAAAAAAA/TAAAAAAA	AAATTTGGTTGAATCGC GTC	GCAGATAATGGGGGTT GCTA	59.9	779	INTERGENIC	--	--	--
Ca7_P3_44396434	Ca7	44396434	ACC/ACCC	ATGCATGTGAAGTAAG GCCC	ACTCAGCCTCTCTCCA ACCA	60.0	458	INTERGENIC	--	--	--
Ca7_P3_44398591	Ca7	44398591	TGCATAGCAT/TGCATAGCATAGCAT	GATCTATGAGGACAGG GCCA	GGTCAAGCCAGTGAAA CACA	60.0	359	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
Ca7_P3_44425083	Ca7	44425083	GTTTTTTTTT/GTTTTTTTTT	CATGGGCCCTATATGG TTCT	CTATACCCGGGCTGAG TGAA	58.7	274	INTERGENIC	--	--	--
Ca7_P3_44474070	Ca7	44474070	AT/ATT	TAGCAACAAAAATGGG GGAG	TGGTAGCGTACCGTTT GACA	59.9	634	INTERGENIC	--	--	--
Ca7_P3_44543618	Ca7	44543618	ATTTTT/ATTTTTT	TGTTCACTGCCAAACTC TGC	TTTGC GTTTCTGTTC GTTG	60.0	517	DRR	Ca_21376	R	ERF
Ca7_P3_44544226	Ca7	44544226	ATCTCTCTCTCTCTCTCTC/ATCTCT CTCTCTCTCTCTC	CAACGAACAGAAAACG CAAA	CGTGTTCGAGAAAGC AAAA	59.9	385	DRR	Ca_21376	R	ERF
Ca7_P3_44614051	Ca7	44614051	GATATATATATATATATA/GATATATA TATATATATA	TGCATGTGGAGGAGAA AGTG	CTTGACGGGATATTG TCCT	59.8	192	INTERGENIC	--	--	--
Ca7_P3_44630877	Ca7	44630877	TTATATATATATATATATATATATA TATA/TTATATATATATATATATATAT ATATA	AAAGCGTGAAAGCATG GAAT	CCGAGTTTCCGAAAAT GAAA	59.7	470	DRR	Ca_15699	--	NAC
Ca7_P3_44663565	Ca7	44663565	GAA/GA	TCTCCACATTTTGCAA TGA	TTTTCCACATGCACC ACAT	60.0	622	INTERGENIC	--	--	--
Ca7_P3_44721166	Ca7	44721166	GTTTTTTTTT/GTTTTTTTTT	CCAGAATCGGACTTGT ATGGA	TGTGGTATTCAGAGCC TCCC	59.9	350	INTERGENIC	--	--	--
Ca7_P3_44773411	Ca7	44773411	AATATATATATATATATATATA/AA TATATATATATATATATATATATAT A	ATTTTCGACTGTTTGCG GAT	TTTCACCCAACATTG CTCA	59.6	647	INTERGENIC	--	--	--
Ca7_P3_44805906	Ca7	44805906	ATTTTTTTTTT/ATTTTTTTTTT	TGACAAGGGTAGCCTC CATC	GCCAAATGCGACAAGT GTTA	60.1	614	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 (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
Ca7_P3_44885868	Ca7	44885868	CA/CAGAAAAATA	TTTGGTTCAAACAAGG GGAG	ACGAAATGTCAAAA CCGC	59.9	373	DRR	Ca_15709	--	FAR1
Ca7_P3_44906228	Ca7	44906228	TTATATATATATATATATA/TTATATA TATATATATATATA	TGTTATGAAAAAGTTCA TAAACATCA	CATCTTTGACAATCAC CCCC	58.3	497	INTERGENIC	--	--	--
Ca7_P3_44965064	Ca7	44965064	GAAAAAAAA/GAAAAAAAA	GGAAGGAAATTGCTC CACTC	ACGATCTCGATTCCTT TTCG	60.1	616	INTERGENIC	--	--	--
Ca7_P3_44989472	Ca7	44989472	GTTACGNNNNNNNNNTTCAGC/GTT CAGC	GCTTCTTTGTTGTCCAA GGC	CCTGCATAAATTTGGG TGCT	59.9	614	INTERGENIC	--	--	--
Ca7_P3_45088200	Ca7	45088200	GCTTCTTCTTCTTCTTCTTCTTCTT CTTC/GCTTCTTCTTCTTCTTCTTCTT TTCTTCTCTTC	AACCAAGACCGGCTTT ATCA	TTTGAGACCAATGCT GACA	59.6	900	INTERGENIC	--	--	--
Ca7_P3_45169614	Ca7	45169614	ATTTTTTTTT/ATTTTTTTTT	TGTCCAATTGGCAATAC AAAA	AAAGAAGCTCGCTTGT ATTGA	58.9	678	INTERGENIC	--	--	--
Ca7_P3_45169923	Ca7	45169923	CTAAATATGTATA/CTA	TCCAATTGGCAATACAA AACA	AAAAGCTGGCAATAAC CCTTT	58.9	767	INTERGENIC	--	--	--
Ca7_P3_45170609	Ca7	45170609	ATTTTTTTTT/ATTTTTTTTT	AAAGGGTATTGCCAG CTTTT	AGGCATAGTTAGACGC CCCT	59.2	778	INTERGENIC	--	--	--
Ca7_P3_45206871	Ca7	45206871	GTATATATATATA/GTATATATATA TATA	AGGAGGTTTGTGTTTG ACGG	TTTGGATTTTGACTCG GAGG	60.0	617	INTERGENIC	--	--	--
Ca7_P3_45206935	Ca7	45206935	GATATATATATAT/GATATATATAT ATAT	AGGAGGTTTGTGTTTG ACGG	TTTGGATTTTGACTCG GAGG	60.0	617	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
Ca7_P3_45211796	Ca7	45211796	GAAAAAAAAA/GAAAAAAAAA	GGCCAAGGTAAGGGTG AGAT	TTGGAAAAGCCACCT ACAC	60.3	621	INTERGENIC	--	--	--
Ca7_P3_45232341	Ca7	45232341	TTATATATATATATAT/TTATATATAT ATATATATATATATAT	TGGATCACCACAAACC ACAC	CTGAGTTGCGACGAGA GTTG	60.3	624	INTERGENIC	--	--	--
Ca7_P3_45241482	Ca7	45241482	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATA TATATATATAT	TTTACCCCAACACGTAA GCC	CAGATCGGCGCTACAC TACA	59.9	554	INTERGENIC	--	--	--
Ca7_P3_45337210	Ca7	45337210	TAAAAAA/TAAAAAA	GTTCTCGCCAGATCA AAAC	AAAGCAACTGACCCCTC CAAG	59.7	718	INTERGENIC	--	--	--
Ca7_P3_45407833	Ca7	45407833	TGG/TG	CCGTCCTTCCTTCTTC TCA	GTGTGCATTGGACCAG ATTG	59.4	445	INTERGENIC	--	--	--
Ca7_P3_45465678	Ca7	45465678	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT/ ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TA	GGTTTGGCGAAAACAA TCAT	AATTGATCACGGGGTG ATGT	59.8	298	DRR	Ca_15740	--	--
Ca7_P3_45507114	Ca7	45507114	CT/C	AAGTGTGCGGATCCTT TGTT	GGTTCCTTGCTCAATT GTTTG	59.6	277	INTERGENIC	--	--	--
Ca7_P3_45574325	Ca7	45574325	TAAAAAA/TAAAAA	AAAAGAACAATCACGGT TATAGATGA	TTGCATTAGAGATTCTT GCGAA	59.4	986	INTERGENIC	--	--	--
Ca7_P3_4562422	Ca7	4562422	ATT/ATTT	TCTCCGATTTCTCTCTC AAA	ACATCTTGGATGATGT GGCA	59.7	283	INTERGENIC	--	--	--
Ca7_P3_45684069	Ca7	45684069	ATTTTTTTTTTTT/ATTTTTTTTTTTT	TTCTCCCTTTTGTGAT CAGA	TGAACACCAATGGGCT AACA	59.7	251	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 (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
Ca7_P3_45710774	Ca7	45710774	GTTTTTTTTTTT/GTTTTTTTTTTT	TTGACACGTGGCAGAG AAAG	TGGTAAACATCACAAA TATGCCA	60.0	541	INTERGENIC	--	--	--
Ca7_P3_45762039	Ca7	45762039	ATT/ATTACTAGTTATTTGTT	TTTTAAGGCGTGTTTTT GGG	TCAACAAGTCACAGGC GATT	60.0	893	DRR	Ca_15751	J	--
Ca7_P3_45829437	Ca7	45829437	TA/TAGTAGGGGTTTTCAAA	TCGTGAGTTTGAGGG AACT	CGAAAAATCCTTTCGC CATA	59.7	536	INTERGENIC	--	--	--
Ca7_P3_45908505	Ca7	45908505	GTATATATATATATATATATA/GTATA TATATATATATATATATATA	CTGGAACCCGAAACAC AGTT	GCGATAAAATGATAA AAGACGG	60.0	615	INTERGENIC	--	--	--
Ca7_P3_46101364	Ca7	46101364	GTTTTT/GTTT	TGCGTCATCAATCCTGA AAC	GCAGTTACTTTTGGCC TCCA	59.7	328	DRR	Ca_15759	--	--
Ca7_P3_46249815	Ca7	46249815	CAAAAAAAAA/CAAAAAA	TCAAGATACCCAGTGC ACCA	GGCAAGTTAACATGTT GCCAG	60.1	627	INTERGENIC	--	--	--
Ca7_P3_46250227	Ca7	46250227	TAAAAA/TAAAA	TCATGATTGGAAGACC GAAA	AATTGAACCCACCTTG CTTG	59.2	393	INTERGENIC	--	--	--
Ca7_P3_46332309	Ca7	46332309	GAACACAA/GAACACAATCAACACAA	AACGTACTGCCTATCAC GGG	TTGCAACTCCACTCT TCCT	60.0	649	INTERGENIC	--	--	--
Ca7_P3_46343144	Ca7	46343144	AAC/AACTATAC	TGGTACATGGAACCCA TCAA	GCTGCTGAATGCTGAA ACAA	59.6	511	INTERGENIC	--	--	--
Ca7_P3_46354851	Ca7	46354851	CTATATATATATATATATATATATAT GTATATATATAT/CTATATATATATATAT ATATATATATATGTATATATATAT	TATCGTTGGACGAATG GACA	TTCATGAGCAACTTTC CACAA	59.9	486	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
Ca7_P3_46480380	Ca7	46480380	GTGCATGCAT/GTGCAT	CTCCCAATTGTGCTTT GGT	CTGAAAGGCCAACCAC TCAT	60.0	784	INTERGENIC	--	--	--
Ca7_P3_46515928	Ca7	46515928	TATAATAATAATAATA/TATAATAATAA TAATAATAA	ACTGATCCACTGTCGC ACAC	TCCACGAGTTCAGAGT TTCG	59.7	547	INTERGENIC	--	--	--
Ca7_P3_46573334	Ca7	46573334	TATAATAATAATAATAATAATAATA ATAATAATAA/TATAATAATAATAAT AATAATAATAATAATAATAA	GGCACGACATCATCATC	CTTTTAGCCGGGTTA CCAT	59.9	597	INTERGENIC	--	--	--
Ca7_P3_4664736	Ca7	4664736	ATTTT/ATTT	CAATTGTGTGTGAGTTT TTGATGA	ATGCACGATGGCACTT GTAG	59.9	604	INTERGENIC	--	--	--
Ca7_P3_46711365	Ca7	46711365	ATTTTTTTTTTTTT/ATTTTTTTTTT TTT	GGAGAAGGATGAAGAA GGGG	GCCGACCGACATATTC TCAT	60.0	502	INTERGENIC	--	--	--
Ca7_P3_4672824	Ca7	4672824	AAATATCGCACAGCTCCAA/AAA	TTGAATCGGTGTCGTT GTTC	CACGACTTTATCAACC ACCG	59.5	556	INTERGENIC	--	--	--
Ca7_P3_46789653	Ca7	46789653	ATTTTTTTTTT/ATTTTTTTTTT	GTTGTGTTGATGACGC TGCT	TGTGCGTATGTGTTTC ACCA	59.9	714	INTERGENIC	--	--	--
Ca7_P3_46840995	Ca7	46840995	ATTTTTTTTTT/ATTTTTTTTTT	AAAGCGCTTGTGTGAAA CGC	GTCACGTATCCTGCTG GTGA	60.4	897	INTERGENIC	--	--	--
Ca7_P3_46886452	Ca7	46886452	ATTTTTTTT/ATTTTTTT	CAACCTGTCCAACCTCC GAT	ACACAGGGAAGATGAT TGCC	60.0	454	INTERGENIC	--	--	--
Ca7_P3_4710565	Ca7	4710565	CTTTTTTTTTT/CTTTTTTTTTT	AAATGAAGGACCATAA GCGAA	TGTTAGTATGCCCTT TCGG	58.7	442	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
Ca7_P3_4711219	Ca7	4711219	ATTTTTTTTT/ATTTTTTTTT	TGGAATTAACAATACGG GGAA	ATTGCCAAGCACCAAA GTTC	59.2	451	INTERGENIC	--	--	--
Ca7_P3_47155072	Ca7	47155072	A/AAGAG	AGGAGGGGTGCGATT TTAT	TTATGCGTGTTGTG CATT	59.8	166	INTERGENIC	--	--	--
Ca7_P3_4720313	Ca7	4720313	CTTTATTTATTTATTTAT/CTTTATTTAT TTATTTATTTAT	CTCTGCTCAAGCATCAT CCA	CATTGGGTGTGAAATG TGTC	60.1	696	INTERGENIC	--	--	--
Ca7_P3_47286553	Ca7	47286553	GATAATAATAATAATAATAATAATA A/GATAATAATAATAATAATAATAAT AATAA	CTGAAGGTGCAACAC GAGA	CAAGGACTAAATTGAA ACCCAAA	60.0	661	INTERGENIC	--	--	--
Ca7_P3_47367383	Ca7	47367383	TAAAAATTGAAAAAATTGAAA/TAAAA ATTGAAA	CGTGTGAGAAAACCTC GACA	GTTCGAATGCCGATT TCAC	59.9	435	INTRON	Ca_19497	L	--
Ca7_P3_47390210	Ca7	47390210	ATTTTTTTTT/ATTTTTTTTT	TGTTTTGATGATTATGC GGC	TTTTCAGTTTGGAAGG ACCAA	59.5	428	INTERGENIC	--	--	--
Ca7_P3_47506059	Ca7	47506059	ACC/AC	ATCAAGGACAACATGG GAGC	ATCGACAAGCAAGAAC CCTG	59.9	535	INTERGENIC	--	--	--
Ca7_P3_47551388	Ca7	47551388	C/CCA	TGGCATTGATGATGGC TTTA	CCAGGATAAACAGCC CAGA	60.0	622	DRR	Ca_19500	O	MYB_related
Ca7_P3_47551645	Ca7	47551645	ATTCTAGAACGGTTTTCTA/ATTCTAGA ACGGTTTTCTAGAACGGTTTTCTA	GCAATTTGTGAAGGA GGGA	CCAGGATAAACAGCC CAGA	60.1	497	DRR	Ca_19500	O	MYB_related
Ca7_P3_47627153	Ca7	47627153	ATT/ATTT	ACGAGTTAGGCCTCAA GCAA	CCACAATCGGAACCAA CTTT	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_47648763	Ca7	47648763	TAAAAAAAAA/TAAAAAAAAA	TGTTTGAAGGACCAAA CTGG	CAAGGCAAGCCCAAA ATAA	60.0	253	INTERGENIC	--	--	--
Ca7_P3_47706481	Ca7	47706481	TTATATATATATATATATATAT/TT ATATATATATATATATATAT	AGGGGAAACGTTTTCT TGTG	TGTCGAGTTGGAGTGC AAAC	59.1	542	INTERGENIC	--	--	--
Ca7_P3_4775529	Ca7	4775529	TAAAAAAAAA/TAAAAAAAAA	TGCACATTGCACACTAC CAA	GTGCATTGGAAGAAAG AGCC	59.7	619	INTERGENIC	--	--	--
Ca7_P3_47801749	Ca7	47801749	GTTTTTTTTTTTT/GTTTTTTTTTTTT	TGAATAAAAGCCCAATT CCG	CAATTAACGATCAAGC GTCG	59.9	448	INTERGENIC	--	--	--
Ca7_P3_47814742	Ca7	47814742	ATTTTTTT/ATTTTTTT	TCCATTCTTGTTGT CAC	GTGTCTGGTGCTTTGT TGGA	59.5	366	INTERGENIC	--	--	--
Ca7_P3_47853077	Ca7	47853077	T/TA	TTGGCACATCTACTCAA CCG	CAACACACTCCTATTTT CCCG	59.7	508	INTERGENIC	--	--	--
Ca7_P3_47865079	Ca7	47865079	CCA/CCACA	TGCTAAAAATATCCAG CCC	GCCCTCAGATGAGAGT CAGG	59.9	562	INTERGENIC	--	--	--
Ca7_P3_48056834	Ca7	48056834	CAAAAAAAAA/CAAAAAAAAA	AATTTCTCCAAGCCTC GTT	TTGATTTTGATTATTTT TGCCG	60.1	622	INTERGENIC	--	--	--
Ca7_P3_48062152	Ca7	48062152	TAAAAAAAAA/TAAAAAAAAA	TACATGTAAGGCATGG GCAA	TCAGAGGATGCGAGTC AATG	60.0	338	INTERGENIC	--	--	--
Ca7_P3_48080346	Ca7	48080346	A/AC	CCTTGTTTAGCCCATTC CAA	TCACAACCGTTGGATG AGAA	59.9	633	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
Ca7_P3_48216190	Ca7	48216190	CTTTTTTTTT/CTTTTTTTTTTT	GAGGCAGACTTCCAG CAAC	TAGGGGAGATGATGCG TTTG	60.0	462	INTRON	Ca_22553	--	HB-other
Ca7_P3_48234646	Ca7	48234646	TTATAT/TTAT	TTGCAAAAGTCAAACCC ACA	ATACTTCTCGCGCAGA GTCC	60.1	660	INTERGENIC	--	--	--
Ca7_P3_48312562	Ca7	48312562	TAAAA/TAAAAA	CGAAGCACAAGGAGAT GACA	CAGTGATGCGGAAAAA CTCA	60.0	196	INTERGENIC	--	--	--
Ca7_P3_48312616	Ca7	48312616	AT/ATATCT	CGAAGCACAAGGAGAT GACA	TTTCCGAGTGCTGTCA AATG	60.0	382	INTERGENIC	--	--	--
Ca7_P3_48328484	Ca7	48328484	CTATTTATTTATTTATTTATTTATTTATTT/ CTATTTATTTATTTATTTATTTATTTATTT TATT	ATTTGGGCCCATCATAA ACA	TTGCTCCTACGTATCT CCCC	60.0	712	INTERGENIC	--	--	--
Ca7_P3_48392684	Ca7	48392684	TAAAAAAAA/TAAAAAAAAA	TGATTCCCCAACATCCA ACT	ATGATATTGGAGTTTG CGCC	60.2	165	INTERGENIC	--	--	--
Ca7_P3_48429143	Ca7	48429143	AATATATATATATATATAT/AATATATAT ATATATATATAT	AACACCGGGTTCAGAT GTGT	GGCCAAATACGTTGGA AATG	60.3	663	INTERGENIC	--	--	--
Ca7_P3_48451818	Ca7	48451818	TAAAAAAAAA/TAAAAAAAAA	CCTACGTATCTCTCGG TGCG	CGACAACTTGGCGGTT CTA	60.8	567	INTERGENIC	--	--	--
Ca7_P3_4846282	Ca7	4846282	TATAAGCATTATATATAC/TATAAGCAT TATATATACATAAGCATTATATATAC	CACGGAGTTAACGCCT CAAG	GAGAGTGAAAAGTTTA TTTTTGTTGG	60.8	498	INTERGENIC	--	--	--
Ca7_P3_48535862	Ca7	48535862	TG/TGTTTTTTAAAG	CGCTGTAAAAGACCTC CGTG	CCAAAAAGGGTGAGAG TTGA	60.8	333	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
Ca7_P3_48546646	Ca7	48546646	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAA/AAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAA	ATCCCCAAAAGCCT GAAA	TTGGTGGTGACTCCAT TGAA	60.8	779	INTERGENIC	--	--	--
Ca7_P3_4867122	Ca7	4867122	AATATATATATATATATATATATAT TTATATATATATAT/AATATATATATAT TATATATATATATATTTATATATATAT AT	AGGTGGTGAGCGTTTT TGAA	TTGATGATGTGAAGGA ATGACAG	60.7	670	INTERGENIC	--	--	--
Ca7_P3_48767321	Ca7	48767321	ACAAACCACCAAAACCA/ACAAACCACC AAACCACCAAAACCA	GCTGCTTTTCCCTCTTT GTG	AATGCGAGTCTCACAA TCCA	60.0	651	INTERGENIC	--	--	--
Ca7_P3_48812999	Ca7	48812999	ATTTTTTTT/ATTTTTTTT	GATCAAGCATTGAGTT GGCA	CATGTGCAATTTGCTT GTCC	59.8	622	CDS (FRAME SHIFT)	Ca_26167	--	--
Ca7_P3_4984873	Ca7	4984873	ATTTTTTATTTTTTATTTTTTATTTTTA TTTT/ATTTTTTATTTTTTATTTTTATTT TTTTATTTTTATTTTTATTTTT	TCACCTCATCCACTCCT TCC	AGCGTTGAGAGGGTTG AGAA	60.0	497	INTERGENIC	--	--	--
Ca7_P3_4994376	Ca7	4994376	GAAAAAAAA/GAAAAAAAAA	AGATGGGATTGCTTGA CTGG	ACCACAATGTAACACC CCGT	60.1	401	INTERGENIC	--	--	--
Ca7_P3_5014340	Ca7	5014340	CAA/CAA	AATACCACCACCGACC ACAT	AATGAGCTCCAACGGT CATC	60.0	787	INTERGENIC	--	--	--
Ca7_P3_5024464	Ca7	5024464	ATTTTTT/ATTTTTTTT	CCCCGCATGTATTATTG GAG	ACCCACATCCGTTTCA TAGC	60.2	294	INTERGENIC	--	--	--
Ca7_P3_5030934	Ca7	5030934	ATTT/ATTTT	AACTGGTCAGATTGGT TGAGAAA	CATCCAATCTTTCACT CCGA	60.0	585	INTERGENIC	--	--	--
Ca7_P3_5033512	Ca7	5033512	CTTTT/CTTTTTT	TGAGATGCACCTATCC CACA	CAATGATCAAGACAG ATCCA	60.1	155	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
Ca7_P3_5033957	Ca7	5033957	AATATATATATATATATAT/AATATAT ATATATATATATATATATATATAT	TGGATCGTGTCTTGAT CATTG	AATAAACCGTTGCAAG TGGG	59.5	592	INTERGENIC	--	--	--
Ca7_P3_5034485	Ca7	5034485	ATTTTTTTTT/ATTTTTTTTT	CCCACTTGCAACGGTT TATT	TGAGGTAAGCTTTGCA TCATGT	59.9	837	INTERGENIC	--	--	--
Ca7_P3_5044561	Ca7	5044561	GA/G	CCAACAACACAGATGC AACC	GCGCTTAGAGTCCAA CCAG	60.0	469	INTERGENIC	--	--	--
Ca7_P3_5070339	Ca7	5070339	GT/G	ATTACCGACATTGCAGA GGG	CATGCAATTGTGATTG CTCC	60.0	400	INTERGENIC	--	--	--
Ca7_P3_5076899	Ca7	5076899	CAAAAAAAAA/CAAAAAAAAA	GCGCTGTAAACGTGC ATAA	TCCTTTCTAAAAACGC GCTG	59.9	100	INTERGENIC	--	--	--
Ca7_P3_5089371	Ca7	5089371	ATTTTTTTTTTTTT/ATTTTTTTTTTT	TTTTTCGTTGGTCATCC ACA	TTTTTCAAATTGCAGCC CAT	59.9	924	INTERGENIC	--	--	--
Ca7_P3_509621	Ca7	509621	ATTTTTTTTT/ATTTTTTTTT	AGCATCAGCTGCTGGT TTTT	GCACCAAACCAAGCCT ATGT	60.0	646	INTERGENIC	--	--	--
Ca7_P3_5139414	Ca7	5139414	T/TC	AAAATGAAAGGCGAGA GGGT	TGCATCAAACCTCCTT CTTG	60.1	836	INTERGENIC	--	--	--
Ca7_P3_5359591	Ca7	5359591	TAAAAAAAA/TAAAAAAAA	CTACTTGTCCCCACCT CAA	GGGAGTTATGGCACGA GTGT	60.0	782	DRR	Ca_06835	--	ERF
Ca7_P3_5370168	Ca7	5370168	CAAA/CAA	GGGGTGATTTAGCAA GGCA	TCAAAGACCACTCAAC TCGTTC	60.0	369	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 (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
Ca7_P3_5375796	Ca7	5375796	CAT/CATAT	TTGTCGTATTGCTGCAC ACA	TAAACATGACAGGCCG CATA	59.9	531	INTRON	Ca_06834	A	--
Ca7_P3_5387713	Ca7	5387713	TATTTAAATTTAAAT/TATTTAAAT	TGCATATAATTGGATCA TTGGTG	ATGGAATGGTGGTGA TGGT	59.6	607	INTERGENIC	--	--	--
Ca7_P3_5388602	Ca7	5388602	CTATATA/CTATA	CAACCTGTGACTCCCA ACCT	GGAGTTTGGAATTCGT TTGG	60.0	398	INTRON	Ca_06831	R	--
Ca7_P3_5395308	Ca7	5395308	A/AGCTG	CTGGCAGCTTCCCTAA CAAG	AAGTGGTGAGCAGCTC CAAT	60.0	754	DRR	Ca_06830	R	--
Ca7_P3_5398164	Ca7	5398164	CA/CAA	CATGGATTGCATTGTT TCG	TTGAATCAGCTCAGCC AGTG	59.9	752	INTRON	Ca_06830	R	--
Ca7_P3_5398578	Ca7	5398578	TAA/TAATGAA	AACCGGCTTGTAAGAC GAGA	TCATGCAGCACAAAGGA AAAG	59.9	617	INTRON	Ca_06830	R	--
Ca7_P3_5398943	Ca7	5398943	TAATAA/TAATAACAATAA	CTTTTCCTTGCTGCA TGA	TCGCTTCACTCCATC TTCT	60.0	348	INTRON	Ca_06830	R	--
Ca7_P3_5399126	Ca7	5399126	CAAAA/CAAAA	CTTTTCCTTGCTGCA TGA	AGGTGAGTGGGCTATG TTGG	60.0	819	INTRON	Ca_06830	R	--
Ca7_P3_5404783	Ca7	5404783	TTC/TTCTAATTTATC	TAACTTGATTGGCACCA CCA	AGCTCAAAGCACAGTC CACA	60.0	300	INTERGENIC	--	--	--
Ca7_P3_5404806	Ca7	5404806	TTATAT/TTAT	TAACTTGATTGGCACCA CCA	TGGCTTAGCTCAAAGC ACAG	60.0	306	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
Ca7_P3_5405092	Ca7	5405092	ATTT/AT	TGGCCTCTCTGAAACC ATCT	TCCAACTTTCTTCCAT CGC	59.8	849	INTERGENIC	--	--	--
Ca7_P3_5405462	Ca7	5405462	TATGTGTTAGTTGATGTG/TATGTG	TGCATGCATACGGAAA CAAG	TCCCTTCCAGAATTG GATG	60.7	624	INTERGENIC	--	--	--
Ca7_P3_5405644	Ca7	5405644	AATATAT/AATATATAT	GCGATGGAAGAAAAGT TGGA	AACGTGCAACAATATC GCAA	60.2	245	INTERGENIC	--	--	--
Ca7_P3_5407517	Ca7	5407517	TCTAAC/TCTAACTAAC	AAATTAGGGAGTGGAT TTTCACC	GTTTGGGTTGAGACG TGGT	59.6	525	INTERGENIC	--	--	--
Ca7_P3_5408599	Ca7	5408599	ACCC/ACC	ATCCAAAACCTCCCAA AAG	TGATGGGAATCATTGG TTGA	60.2	214	INTERGENIC	--	--	--
Ca7_P3_5414070	Ca7	5414070	ACTCTCTCT/ACTCTCT	TGACAAATTCAAACTCC CGA	GGTGACCTGGGAAAT CCTT	59.1	290	INTERGENIC	--	--	--
Ca7_P3_5418013	Ca7	5418013	ACTA/ACTAATGTATAATCTA	TGTGAACACGTTTCA CCA	GGGACCTTCTACTTAC CCGC	58.7	517	DRR	Ca_06827	T	WRKY
Ca7_P3_5429372	Ca7	5429372	ATT/ATTT	AAAGGCGAGATGGAAG GTTG	TTGGTGTGATTCGTGA CCAT	59.3	741	INTERGENIC	--	--	--
Ca7_P3_5435989	Ca7	5435989	AC/A	TGTTTAGATGTGGTGG TGCTG	TTGAAACACGTTTGTC GAGC	59.6	629	DRR	Ca_06825	--	--
Ca7_P3_5443310	Ca7	5443310	CTC/CTCAATC	CGGTGTAGTGGAACCTC CGAT	TGAAGACACGCTCGCA AATA	60.0	740	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
Ca7_P3_5443791	Ca7	5443791	TATAAATAAATAAATAA/TATAAATAAT AA	TATTTGCGAGCGTGTC TTCA	TTTTGATGCTTTTCCA CCA	60.5	516	INTERGENIC	--	--	--
Ca7_P3_5443871	Ca7	5443871	TAAAA/TAAAAA	TATTTGCGAGCGTGTC TTCA	TTTTGATGCTTTTCCA CCA	60.5	516	INTERGENIC	--	--	--
Ca7_P3_5450090	Ca7	5450090	C/CA	ACTGGACATGGGTCTT GAGG	AAAACATTGAGCACTT GGGG	60.0	272	DRR	Ca_06823	--	bHLH
Ca7_P3_5452183	Ca7	5452183	TAAAAAAA/TAAAAAAA	CGCTTCAACCGATTTC TTT	ACCATTGGGTGCAAAA AGAG	60.1	353	INTRON	Ca_06823	--	bHLH
Ca7_P3_5458536	Ca7	5458536	ACTAG/ACTAGCTAG	ACAATTACGTGAAGGC CACA	TTCGGATTGCAACCTT TTTC	59.1	391	INTERGENIC	--	--	--
Ca7_P3_5461440	Ca7	5461440	TAAA/TAAAA	TTTGTGGCCTATTGCA CAG	AACCCACTTGGCACAA AAAG	59.7	343	INTERGENIC	--	--	--
Ca7_P3_5478957	Ca7	5478957	GTT/GTTT	CGGCGATGTTGTTTAA CCT	AAGCATCGAACCCGA ACAT	60.0	210	INTRON	Ca_06818	U	B3
Ca7_P3_5480065	Ca7	5480065	TAAAAAAA/TAAAAA	TGGAGTCGGTTACGTG AGTG	CCTACCCAAACCTTAC CCAT	59.7	820	INTERGENIC	--	--	--
Ca7_P3_5481672	Ca7	5481672	ATTTTTTT/ATTTTTTT	GGTGTCCTGAGTTT GGGT	TGCTTGATTTACCTT AATTCC	59.9	812	INTERGENIC	--	--	--
Ca7_P3_5481726	Ca7	5481726	TA/TAGA	TCTTTGTGTGATGGATA CTCTCG	TGCTTGATTTACCTT AATTCC	59.3	496	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 (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
Ca7_P3_5486158	Ca7	5486158	TAAAAA/TAAAAA	AAACCGAATCAAATTTG TCCTT	AAAGGACTAAAAGTTG CCTGAAA	58.9	326	INTERGENIC	--	--	--
Ca7_P3_5488147	Ca7	5488147	TATTAATTAATT/TATTAATTAATTAATT	AACCTCCTTTTCCGTCA CCT	CATTCCACAGCCTCCA TTTT	60.0	781	INTRON	Ca_06817	CIQ	--
Ca7_P3_5493965	Ca7	5493965	ATTGTTTTGAGTTTGTTT/ATTGTTTT	GTAAGACGCCACCTCT CAGC	CCAAAGAACCCAAACC AAAA	60.0	508	INTERGENIC	--	--	--
Ca7_P3_5513596	Ca7	5513596	TTATATATATAT/TTATATATAT	AGGCTGCTGTAGGAGA TGGA	AATCAACCTTGAATG GTGC	60.0	504	DRR	Ca_06816	BK	G2-like
Ca7_P3_5517116	Ca7	5517116	TAGAA/TA	TCTCCCAATTAAGGAG GGCT	GCTGCAGCCACTGTCA TACT	60.0	173	DRR	Ca_06815	R	MYB_related
Ca7_P3_5524631	Ca7	5524631	ATACAATTTTACAATTT/ATACAATTTT TACAATTTTACAATTT	CTTGGTTCACACGGTT CCTT	CAAAACGCGAATTGCT ATGA	60.0	840	DRR	Ca_06814	--	TCP
Ca7_P3_5526073	Ca7	5526073	C/CT	TCAACCAACCGAAATAA CCC	ACGGTTCTCTCACAAG CGTT	59.7	199	DRR	Ca_06812	G	--
Ca7_P3_5532822	Ca7	5532822	AGACG/AGACGGACG	GAAGCATCGTTCCTTC CTGA	AAAGACGCGGAATTGC TTTA	60.3	578	INTERGENIC	--	--	--
Ca7_P3_5540591	Ca7	5540591	CTTCTTT/CTT	TGTATCCATCTTTCGAA CACCTT	TGCACAACTCCAACA TTGA	59.9	391	DRR	Ca_06810	R	G2-like
Ca7_P3_5545670	Ca7	5545670	AATATATATATAT/AATATATATAT	TGTGCTGAGCAGAACC ATTC	TTAAATAATTTGCCGC CGAC	60.0	636	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 (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
Ca7_P3_5548409	Ca7	5548409	GTTTTTTT/GTTTTTTT	CTATTGGAAAATCTCCG CCA	TCCATCCCACAATTG TTTT	60.0	385	DRR	Ca_06809	--	--
Ca7_P3_5555064	Ca7	5555064	AGGG/AGG	GCAATCCTCGTCGAATT GTT	CAGAGTTTGGCAGAAA AGCA	60.1	448	INTRON	Ca_06808	F	--
Ca7_P3_5559170	Ca7	5559170	ATTTTT/ATTTTTTT	TGTTATGCACCAAGGA CCAA	CCAGCACTCATGTCCA TGTC	60.0	663	INTRON	Ca_06808	F	--
Ca7_P3_5564095	Ca7	5564095	ATTTTTTTTT/ATTTTTTTTT	TTATGCCACTAAAGCAC CCC	TGGCGGATGTGTATGT TGAT	60.0	429	DRR	Ca_06808	F	--
Ca7_P3_5566162	Ca7	5566162	AAGAGAGAGAGAGAGAGAGAGA GA/AAGAGAGAGAGAGAGA	TTGGAAATGAACATGC CAGA	TGGTGCTGATCTCTCA AACG	60.0	482	DRR	Ca_06806	--	--
Ca7_P3_5566541	Ca7	5566541	GTTTTTTTTT/GTTTTTTTTT	CGTTTGAGAGATCAGC ACCA	TAGTTGCACCCAAGTT TTCC	60.0	278	DRR	Ca_06806	--	--
Ca7_P3_5567501	Ca7	5567501	TAAAAAAAAA/TAAAAAAAAA	TCATGAAATGTCATTG GTTG	TTTTTGGCCTGAAAA CAAG	59.4	200	DRR	Ca_06806	--	--
Ca7_P3_5569839	Ca7	5569839	T/TCAATTACAA	GTCTGGAGCTTCTCCC TGTC	AAGGTTTTGAAGGGAA CGGT	60.0	468	INTRON	Ca_06806	--	--
Ca7_P3_5572175	Ca7	5572175	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA	TGTCAAATGTGAGGAA GCCA	TAGGGACCCATATGCA AAAA	60.2	641	INTERGENIC	--	--	--
Ca7_P3_5572728	Ca7	5572728	GTTTAATTTTAATTTTAATTTTA/GTTTA ATTTTAATTTTA	ATGGGTCCTAAAAAT GGC	GCTTGTTACTTATATTC AGAGGGCA	60.0	559	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 (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
Ca7_P3_5573076	Ca7	5573076	TT/TTAT	ATGGGTCCTAAAAAT GGC	CGAGACGCGTCAACA CATA	60.0	699	INTERGENIC	--	--	--
Ca7_P3_5573814	Ca7	5573814	ATTTTTTT/ATTTTTTTT	TATGTGTTTGACGCGT CTCG	AGCTTTTGGCCCAT TTTT	60.9	837	INTERGENIC	--	--	--
Ca7_P3_5578208	Ca7	5578208	AG/AGAATGAATG	ATGGGAAATTGTGAAT GGGA	TGCCCGTTAGTCAATG TTTG	60.0	435	DRR	Ca_06805	--	--
Ca7_P3_5582721	Ca7	5582721	AATATATATATATATATATATATAT /AATATATATATATATATATATATAT TATATATAT	TGCCCACTCATTTGGC TATT	AAGACGGTCTGGTAAC GACG	60.5	494	INTERGENIC	--	--	--
Ca7_P3_5585752	Ca7	5585752	TAAAAAAAA/TAAAAAAAAA	ATTCACACGACCAAAA CCT	TGATGAGATGTATTG ATGCAA	57.0	496	DRR	Ca_06804	--	--
Ca7_P3_5628630	Ca7	5628630	GAAAAAAAA/GAAAAAAAA	CGGGTTGGTATTTATT GGGA	ATTGAGTTGATCACTC GGGG	59.5	678	INTERGENIC	--	--	--
Ca7_P3_5629646	Ca7	5629646	TAAAAA/TAAAA	AACCGTTTCCACACAT AAGA	ACAAAGAGGGATCATG TGGC	59.3	552	INTERGENIC	--	--	--
Ca7_P3_5633058	Ca7	5633058	T/TAAG	GCAAGCCAACCAAA AAAT	ACAGGCGCTTCCTCT TGTA	60.0	386	DRR	Ca_06796	GC	HSF
Ca7_P3_5650363	Ca7	5650363	AAATAATAATA/AAATAATAATA ATA	TCGTTCCCTCTGAAATG AAA	TCGAGTGAACGTGGA GATG	58.3	239	INTERGENIC	--	--	--
Ca7_P3_5652036	Ca7	5652036	AAAT/AAATAGTGAAT	TTGCATGGAGAAATCG CATA	AGCATTGCGCCTCTGT AGAT	60.2	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
Ca7_P3_5657763	Ca7	5657763	GAGACA/GA	AAGGGGATGATTGTTA GGGG	CAGCAGAATTCGCTAC ACCA	60.0	862	CDS (FRAME SHIFT)	Ca_06792	GC	HSF
Ca7_P3_5659102	Ca7	5659102	ATATTATTATTATTATTAT/ATATTAT TATTATTATTA	TCAGCACCATTAATCTTG AGCA	CACAACATTCAAACAAT TGTCAC	59.4	838	DRR	Ca_06792	GC	HSF
Ca7_P3_5663075	Ca7	5663075	A/AT	CGGAGCCTATTGCTGC TATC	TATCCACGGACACGAG TTCA	60.0	524	INTERGENIC	--	--	--
Ca7_P3_5663307	Ca7	5663307	ATCCATTAGT/AT	CGGAGCCTATTGCTGC TATC	TATCCACGGACACGAG TTCA	60.0	524	INTERGENIC	--	--	--
Ca7_P3_5672541	Ca7	5672541	TCCC/TCC	GATTTGACGCATCATC AAC	TTGAAGGCTGAAGCTG GATT	60.1	418	DRR	Ca_06790	--	C2H2
Ca7_P3_5685708	Ca7	5685708	T/TG	TTCCGGTTTTAGCAGTTT GGG	GCGTCACACTGAGACT GGAA	60.1	788	DRR	Ca_06789	K	--
Ca7_P3_5689123	Ca7	5689123	AT/ATGT	TCAACATGCAAGATGG AGGA	GTGCTCATAGGCCCAA TGTT	60.2	461	INTERGENIC	--	--	--
Ca7_P3_5689294	Ca7	5689294	TAAAAA/TAAAAA	CAAGTGAACACGGCG TGAA	GTGCTCATAGGCCCAA TGTT	59.9	422	INTERGENIC	--	--	--
Ca7_P3_5694761	Ca7	5694761	TAAAAA/TAAAAA	GGAATTCTGTTTGCAA GGGA	AACCCATCACTTGCTG ATCC	60.1	627	INTERGENIC	--	--	--
Ca7_P3_5695562	Ca7	5695562	ATTT/ATT	TTGGTTAGGTCCTGCT CACC	AACATGTGTGTTGTGA ATTTGTTC	60.1	753	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
Ca7_P3_5697428	Ca7	5697428	TAAAAAAAAA/TAAAAAAAAA	AATGTTGTAAGGTGGG CGAG	AAGTTAAGGGACCACG AGTGA	60.0	718	INTERGENIC	--	--	--
Ca7_P3_5700861	Ca7	5700861	ATTAGTTT/ATT	GCAGCTCTCATGTGAT TTTCC	GACAATTTTCCATTTG GGGA	59.8	955	INTERGENIC	--	--	--
Ca7_P3_5711255	Ca7	5711255	TATTTGTAA/T	AGGACAGTAGTCACCG TGGG	GATGGACCCACCTTAC ACCA	60.0	419	INTRON	Ca_06787	Q	--
Ca7_P3_5713279	Ca7	5713279	CAAAA/CAAA	GCCTGGTTGCTCCAAT TAA	GGGCTTCAGAAAGTTGC TCAC	60.1	488	DRR	Ca_06787	Q	--
Ca7_P3_5717190	Ca7	5717190	CTTTTTTTTTTTTT/CTTTTTTTTTTT	ACCAAAACTCTATCCCC TTAAAA	CCACTCTCAAAGTCAA TGCC	57.4	620	INTERGENIC	--	--	--
Ca7_P3_5717454	Ca7	5717454	ATTT/ATTTTTT	TGAGAATCAAATGTATC CACGTT	CTTCCTGGCTGAGAGA ATGC	58.5	631	INTERGENIC	--	--	--
Ca7_P3_5719544	Ca7	5719544	CCTCTCTCTCTCTCTCTCT/CCTCTC TCTCTCTCTCTCTCTCT	TTGGAAACACACAGAC CCAA	AAAAGTGTGTTAGGGC GTGG	60.0	456	INTERGENIC	--	--	--
Ca7_P3_5722804	Ca7	5722804	A/AC	TGGGACAGTGAGTCAA TCCA	TCCGATTTTGTCTCTC GACT	60.1	191	INTRON	Ca_06785	R	FAR1
Ca7_P3_5758513	Ca7	5758513	AAATGAT/AAATGATAATGAT	CGGGAAAATATGCTCA AGGA	GGGAAAAGTGGCAGA CTTCA	60.0	543	INTERGENIC	--	--	--
Ca7_P3_5768795	Ca7	5768795	CTCACAGTC/CTCACAGTCACAGTC	TCGGTAACACAACCTCA CATGC	TTGCAGAATTTGATGA CCCA	59.6	406	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
Ca7_P3_5777936	Ca7	5777936	TAAAAA/TAAAAAA	CAAATCCATCCACTCTT CACAA	TGGATTCTTACCATTT GCACTT	60.0	566	INTERGENIC	--	--	--
Ca7_P3_5778254	Ca7	5778254	AAACAA/AAACAACAA	CAAATCCATCCACTCTT CACAA	CTGCAAAAACCTCTT CTCG	60.0	910	INTERGENIC	--	--	--
Ca7_P3_5778638	Ca7	5778638	GAAAAAA/GAAAAAA	AAGCATGGAGCAAAA CGTC	CTGCAAAAACCTCTT CTCG	60.3	145	INTERGENIC	--	--	--
Ca7_P3_5781577	Ca7	5781577	TTAATGAGTTGTAATGAGT/TTAATGAG T	TCAAACAAACCACACC GAAA	AAGCTGAAAGCAAAA CCGA	60.0	416	INTRON	Ca_06780	F	--
Ca7_P3_5785034	Ca7	5785034	T/TC	TCTGCAAAATGTTCTCA TGCTT	CGCTCTCTATCTCTCC GCAC	59.9	837	INTERGENIC	--	--	--
Ca7_P3_5785096	Ca7	5785096	GTCATCATCA/GTCATCA	TTTGCAACTTGTGTCA CTCT	CGCTCTCTATCTCTCC GCAC	58.4	789	INTERGENIC	--	--	--
Ca7_P3_5787059	Ca7	5787059	AT/ATTGTTATT	TTTGACCTCAAGCAAA CCC	ATTTTGGATGAGATCG GGTG	60.1	527	INTERGENIC	--	--	--
Ca7_P3_5789344	Ca7	5789344	CTATA/CTA	AGGCAACAAAAGGGGA AACT	AAATTGTCCTTGGGGG TAGG	60.0	484	INTERGENIC	--	--	--
Ca7_P3_5789380	Ca7	5789380	ATTT/ATTTTT	AGGCAACAAAAGGGGA AACT	AAATTGTCCTTGGGGG TAGG	60.0	484	INTERGENIC	--	--	--
Ca7_P3_5791147	Ca7	5791147	AATTTTAAAGT/AATTTTAAAGTAATAAT ATTTTAAAGT	CGACATGAATAAATTGA GGATGA	TGATCTGGTTGGTGT GTCC	59.0	988	DRR	Ca_06779	S	--

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
Ca7_P3_5792828	Ca7	5792828	G/GA	CAAAGGGTTTGAGAGG TGGA	TTCTGCTGTCGAGTCA TTGG	60.1	413	INTRON	Ca_06779	S	--
Ca7_P3_5798960	Ca7	5798960	CAAAAAAAAA/CAAAAAAAAAA	ATGACATGTCTCGAGC TCCC	TTGGCCCTCTTTTCTC TCAA	60.2	312	INTERGENIC	--	--	--
Ca7_P3_5799756	Ca7	5799756	TGAGA/TGAGAGA	CCATCATACCCCTAGC GAAA	CAGCCTATGTTTGAA ACCC	59.9	730	DRR	Ca_06778	R	--
Ca7_P3_5801268	Ca7	5801268	TAAAAAAAA/TAAAAAAAAA	AAACCAGCTCCCATGT CATC	GGCAGGCTAGCTTTGC TTTA	59.9	607	INTRON	Ca_06778	R	--
Ca7_P3_5801415	Ca7	5801415	ATCTCT/ATCTCTCT	AAACCAGCTCCCATGT CATC	TAACGAAAGTGTTC GGGG	59.9	685	INTRON	Ca_06778	R	--
Ca7_P3_5835511	Ca7	5835511	GGTG/GGTGTG	GCAGTCTAAAAGGTG CCTG	CCAAACCAAGGCATAC CAAG	60.0	544	INTRON	Ca_06776	--	--
Ca7_P3_5836197	Ca7	5836197	ATTTT/ATTTT	AGATTATGCAGAGCGA TGCG	CCAATTGGTGAGAC TGCT	60.2	425	DRR	Ca_06776	--	--
Ca7_P3_5841878	Ca7	5841878	CTT/CT	TGCAACTTTGAAGGTG CTTG	CAACAAAGCCACAAAA GCAA	60.0	731	DRR	Ca_06775	--	--
Ca7_P3_5841891	Ca7	5841891	CTTT/CTTTT	TGCAACTTTGAAGGTG CTTG	CAACAAAGCCACAAAA GCAA	60.0	731	DRR	Ca_06775	--	--
Ca7_P3_5843643	Ca7	5843643	AT/ATT	GGTGAGTTTTTCTCTCC CCC	TTCATCGTCTGAAGTC ACGG	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 (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
Ca7_P3_585059	Ca7	585059	TAA/TAA	GTTTAGGCCGCCACAA AATA	GAAGCTGCTTCCAG CAAC	60.0	871	DRR	Ca_24416	--	--
Ca7_P3_5851736	Ca7	5851736	CTTTTTTTTTTT/CTTTTTTTTTTTT	TGCGCCTGGAAGATAC TTTT	TAGAGTAACGCTCGCA GCAA	59.8	734	DRR	Ca_06773	O	--
Ca7_P3_5857266	Ca7	5857266	AG/AGG	TTAAAAACCAAGAGGCA GGG	GAAGCTTTGACCACAA GGGA	59.2	368	INTERGENIC	--	--	--
Ca7_P3_5858409	Ca7	5858409	AAAATTATA/AAAATTATAAATTATAA	AGTTGCCCAAGTCATTC CAC	AGGGTTTACAAAGACA TCACCA	60.0	883	INTERGENIC	--	--	--
Ca7_P3_5861423	Ca7	5861423	TA/T	CAAATTGAATTAAAGG CACAA	GGAGAGGTAGAGAGT GGTGGC	59.0	717	INTERGENIC	--	--	--
Ca7_P3_5864071	Ca7	5864071	CTAGTAGTAGTAGTAGTA/CTAGTAGT AGTAGTA	TTTGGCTTATCCAGCAA TCC	ATTTAACGTCGGTGCA TTCC	60.0	266	INTERGENIC	--	--	--
Ca7_P3_5865239	Ca7	5865239	CTTTTTTTTTTTTTTTTTTTTT/CTTTTT TTTTTTTTTTTTT	AGCATTCCACCTCAC AGTC	TTCACTTTGTGCTTGC ATCC	60.1	667	INTERGENIC	--	--	--
Ca7_P3_5867187	Ca7	5867187	ATATTATTATTATTATTAT/ATATTATTA TTATTATTATTAT	ACAACAGATGATGGCT GCTG	AATGTACGCACTCCAC CACA	59.9	606	DRR	Ca_06771	P	--
Ca7_P3_586986	Ca7	586986	AA/AATTA	TTCCATTTCTCCACAA AGC	CAACCGCATTGTATC ATTC	60.1	531	DRR	Ca_24415	--	--
Ca7_P3_5872954	Ca7	5872954	A/AC	GCGGTCACTGGTAGGT GAAT	TACACTGCATCACCCC AAAA	60.0	719	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 (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
Ca7_P3_5874353	Ca7	5874353	GA/G	TTGGGTACAACGAGGT CCAC	TTGGCTTGTCACATCA GCTT	58.5	268	INTERGENIC	--	--	--
Ca7_P3_5877004	Ca7	5877004	TTCAAC/T	ACGCGTCTTTTCGAGT CAT	CACGACAAACACTCCA TGCT	59.9	695	INTERGENIC	--	--	--
Ca7_P3_5879622	Ca7	5879622	GT/GTT	GGAAACGTTGGATTTA GGCA	CAACATGAATTGCGGC TATG	59.9	651	DRR	Ca_06770	V	bHLH
Ca7_P3_5883609	Ca7	5883609	AG/A	CAAAAGCTACCCCAAG ACCA	AATCGTAAACGCTTTG GTGG	60.1	799	INTRON	Ca_06770	V	bHLH
Ca7_P3_5884278	Ca7	5884278	GATCAT/GAT	ACGATTTTGCAGGAC AAAC	TCCACCAAGTAAAGCC ATGT	60.0	516	INTERGENIC	--	--	--
Ca7_P3_5884631	Ca7	5884631	ATTTTT/ATTTTTTTT	TCTTGTTTGCCTGTCTC GTG	ATGCGAAGGAGCAATT ATGG	60.0	832	INTERGENIC	--	--	--
Ca7_P3_5884732	Ca7	5884732	CAA/CA	ACATGGCTTTACTTGGT GGA	ATGCGAAGGAGCAATT ATGG	58.1	425	INTERGENIC	--	--	--
Ca7_P3_5886448	Ca7	5886448	T/TG	CCGTATTTGGGGTTC ACTG	GGACACACATGCTGCA AAAG	60.2	289	INTERGENIC	--	--	--
Ca7_P3_5890616	Ca7	5890616	TAAA/TAA	CATGCATCGCACTCTC AAAT	CCACATTCGTGTGCT ATGAG	59.8	773	DRR	Ca_06769	O	--
Ca7_P3_5894442	Ca7	5894442	ATTTTTTT/ATTTTTTTT	CAAGTCATGCACAACAT TTGG	TGTCAACCTGATTGAA CCGA	60.0	531	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 (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
Ca7_P3_5897121	Ca7	5897121	CT/CTTTGTT	CAAAGATTGCTTCAGG GACC	CCACTGTTTAAAATGT GCCG	59.7	451	INTERGENIC	--	--	--
Ca7_P3_5900410	Ca7	5900410	A/AC	GTGCTGCCATGCATTA GAGA	TGATTTTCATTGGACTC TTCCAT	60.0	364	INTERGENIC	--	--	--
Ca7_P3_5903905	Ca7	5903905	CTACAATTT/CTACAATTTTTTATACAAT TT	GGATTGAATGGATCGC TTGT	GTGAGATTGAAAACGC GTGA	59.9	602	INTERGENIC	--	--	--
Ca7_P3_5904299	Ca7	5904299	TTAGAATTTAATTGGTAGAA/TTAGAAT TTAATTGGTAGAATTTAATTGGTAGAA	TCACGCGTTTTCAATCT CAC	GATGCATGCGTTGAAA GTTG	59.8	161	INTERGENIC	--	--	--
Ca7_P3_5909006	Ca7	5909006	GAAAAAA/GAAAAAAA	CGAATGGGAAAAAGCT TCAA	CCAGGAGAAATGAAAC CGAA	60.2	541	DRR	Ca_06768	--	--
Ca7_P3_5915724	Ca7	5915724	GTATTATTATTATTA/GTATTATTATTAT TATTA	GCCCCAAGGTACAAGT CAAA	TTTGTTGTTTTTCGGCA CAA	60.0	268	DRR	Ca_06767	--	bHLH
Ca7_P3_5934199	Ca7	5934199	GTATATATATATA/GTATATATA	TTGAAAACAATTTTGCA GGC	CACGAGCGCTTTAAAA ATCC	58.8	903	DRR	Ca_06764	P	GRAS
Ca7_P3_5934227	Ca7	5934227	AAAAATAAAATAAA/AAAAATAAAATAAA ATAAAATAAA	TTGAAAACAATTTTGCA GGC	CACGAGCGCTTTAAAA ATCC	58.8	903	DRR	Ca_06764	P	GRAS
Ca7_P3_5936103	Ca7	5936103	CTGAT/CT	TCATTGTTCTTGTGGAT CGG	TCGCGGACTAAGTGC TCTT	59.5	269	INTERGENIC	--	--	--
Ca7_P3_5936337	Ca7	5936337	GTTTT/GTT	AAGAGCAACTTAGTCC GCGA	AAGGTAGCGGCTCAC ACAC	60.2	421	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
Ca7_P3_5940912	Ca7	5940912	CAAAAAAAAAAAAAA/CAAAAAAAAA AAAA	GCACAATTTGAACAGT GCCA	TGAGAATGGGGATTTT GCTC	60.7	563	INTERGENIC	--	--	--
Ca7_P3_5943923	Ca7	5943923	GAAA/GAAAAA	CCATTTTGGGGGCTT ATTT	TGGAACTTTTGGGCA TAGC	60.0	537	DRR	Ca_06762	L	--
Ca7_P3_5944748	Ca7	5944748	GTT/GTTTT	TGTCACAACCTCCATTC CCA	ATTTGGAAGAAGTTC GGTG	59.9	359	DRR	Ca_06763	S	C2H2
Ca7_P3_5947080	Ca7	5947080	CCA/CCACA	AGGCTAACGTTGCTTT CCA	GCTTCCTCTGAGTGCA CCTT	59.9	572	INTRON	Ca_06762	L	--
Ca7_P3_5949928	Ca7	5949928	CAAAA/CAAAAAA	AGGAGGCAACAAACA GGAA	CAGCCTGGAGAAGAAC CTTG	59.7	588	INTRON	Ca_06762	L	--
Ca7_P3_5950914	Ca7	5950914	TAAAAA/TAAAAAA	TTTGCCCTTAGTCCTGGA TGC	AGGGCGCTTATCTGAT TGAA	60.2	465	INTRON	Ca_06762	L	--
Ca7_P3_5953288	Ca7	5953288	A/AC	CAAATCCTTTTGAACGT GGG	CACATTCAGGCAACA ATGG	60.3	545	DRR	Ca_06761	A	AP2
Ca7_P3_5953326	Ca7	5953326	GT/GTT	CAAATCCTTTTGAACGT GGG	CACATTCAGGCAACA ATGG	60.3	545	DRR	Ca_06761	A	AP2
Ca7_P3_5953422	Ca7	5953422	GTTTTTTTT/GTTTTTTTTT	ATCACATTTCCATTTGG GGA	CACATTCAGGCAACA ATGG	60.0	321	DRR	Ca_06761	A	AP2
Ca7_P3_5958607	Ca7	5958607	ATTT/ATTTTTTTT	CCCACACAACCTATTG GACC	GCTTCCTGATCAACTG ATGGA	60.1	356	INTRON	Ca_06761	A	AP2

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
Ca7_P3_5975269	Ca7	5975269	TTATATATATAT/TTATATATAT	AGAGCAGAATGGAACA CGCT	TGCAATTTTAATTTTCA TATTTTCG	60.0	472	INTERGENIC	--	--	--
Ca7_P3_5978931	Ca7	5978931	TTAGATACTAG/TTAG	TGCCAAAATGTTTGGTT GTG	CTGGGGACTCGATTGA GAAA	60.4	843	DRR	Ca_06760	--	--
Ca7_P3_5979723	Ca7	5979723	CAAAA/CAAAAA	ATGAAATGCACCAAAAA GCC	TTTGTCAGGGAAGGAT GCTC	59.9	552	INTRON	Ca_06760	--	--
Ca7_P3_5981925	Ca7	5981925	TAA/TA	TGCATGTATGCCAGGT TCAT	CATCAGGGCAAAGGT TGTT	60.0	524	INTRON	Ca_06760	--	--
Ca7_P3_5997553	Ca7	5997553	ATTTTT/ATTTTT	AAAAAGAGGGCACACG AAGA	GAAGCATATTTTTCG GGAA	59.9	618	INTERGENIC	--	--	--
Ca7_P3_6002838	Ca7	6002838	A/AT	GAACCATCTTCAACC CGA	ACGGACGATACTTTGA ACGC	59.9	551	INTERGENIC	--	--	--
Ca7_P3_6006833	Ca7	6006833	ATTTTTTT/ATTTTTT	CATTGCAAATGGGTCA AACA	TTTCTTTCCAATAAAGC TTCAAAAA	60.4	670	INTERGENIC	--	--	--
Ca7_P3_6007275	Ca7	6007275	ATTTTTTT/ATTTTTT	TGAAGCTTTATTGGAAA GAAATCA	TGACAGGTGTCATGCGT GTAT	59.3	576	INTERGENIC	--	--	--
Ca7_P3_6017174	Ca7	6017174	TAA/TA	TGCACTTGTCAAAATGA GTAAAGG	CGTGTCTCGTAACTCA ATCCA	60.5	734	INTERGENIC	--	--	--
Ca7_P3_6017594	Ca7	6017594	ATTTTTTT/ATTTTTT	CCGTACATCCCTGAGA GAATT	CGTGTCTCGTAACTCA ATCCA	59.5	203	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 (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
Ca7_P3_6018232	Ca7	6018232	CTAA/C	GAGCCAACCTGTTGTC TACGG	CGAGGTGACACACATT TTCG	59.8	271	INTERGENIC	--	--	--
Ca7_P3_6020761	Ca7	6020761	TC/T	AAACAAAGGAAAGGAC AAAAATG	TGACGTTTAGTTTTCT GTTTTATTG	58.6	826	DRR	Ca_06757	R	--
Ca7_P3_6021231	Ca7	6021231	TAA/TAAATAAAAA	CAATAAAACAGAAAAAC TAAACGTCA	TTGCTCAACGTAAATT GATTGTG	58.1	595	DRR	Ca_06757	R	--
Ca7_P3_6021693	Ca7	6021693	ATTTTTTTTT/ATTTTTTTTT	TCTTGCAAAAACACGTT TCAA	TTTTGTCCAATTTAC GGA	59.4	366	DRR	Ca_06757	R	--
Ca7_P3_603704	Ca7	603704	TAAGAAATGTTGGCAAAGAA/TAAGAA	GGTTGAGTGAGGGGAG TTGA	TTAAGCATGAAAAGG TCGG	60.1	728	INTERGENIC	--	--	--
Ca7_P3_6045533	Ca7	6045533	AT/A	AATGATTCGTCGGGT CAAG	GACGCATTTTGTGCTT TTCA	59.9	214	INTERGENIC	--	--	--
Ca7_P3_6046707	Ca7	6046707	CAAA/CAAAA	GGATCAGGACTCAGGA GAGACA	CGGGTCAGTGACAAC ATGG	60.8	668	INTERGENIC	--	--	--
Ca7_P3_6049314	Ca7	6049314	TA/T	GCTTGTCATTGTCAC GTTG	GGGGGAATTCGGAGT AAGA	60.2	146	INTERGENIC	--	--	--
Ca7_P3_6049612	Ca7	6049612	CA/CAAA	GCTTGTCATTGTCAC GTTG	TTATGCCCAACCATC TCTC	60.2	686	INTERGENIC	--	--	--
Ca7_P3_6049845	Ca7	6049845	T/TTTC	TCTTACTCCGAAATTCC CCC	TTATGCCCAACCATC TCTC	60.3	560	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
Ca7_P3_6049898	Ca7	6049898	GAAAAA/GAAAAAA	CCATGAGCTGCACATC AAAC	TGGATTCCCTTTGAA ACGA	60.3	453	INTERGENIC	--	--	--
Ca7_P3_6055421	Ca7	6055421	TAAAAA/TAAA	TTTGTGCTTTCCAGGT CCC	AGAAGTCGCATCCAG ACAC	59.9	507	INTERGENIC	--	--	--
Ca7_P3_6056347	Ca7	6056347	GTATACACTATACA/GTATACA	CCATCGATTTAAAAATG AGCA	TATGGGGCGGATAAT TACA	57.8	517	INTERGENIC	--	--	--
Ca7_P3_6060869	Ca7	6060869	ACT/ACTCT	CCTTGGTCTGTCCAC TTGT	GAACACGGACATGTTG TTGC	60.0	454	INTRON	Ca_06754	K	TALE
Ca7_P3_6062955	Ca7	6062955	GTTTT/GTTT	CCAAAGTTCTTGCAATG CTG	TTCGCCTATAGTTTATG CTCGTG	59.5	810	DRR	Ca_06753	--	--
Ca7_P3_6063507	Ca7	6063507	ATT/ATTT	GCACGAGCTAAACTA TAGGCG	ATTGGTCATTTTCCCA CGAA	60.4	660	DRR	Ca_06754	K	TALE
Ca7_P3_6063960	Ca7	6063960	TA/T	ACCTTAAGCAAAGGCA ACGA	CCGAGTGTTACCTCG AAAT	59.9	660	DRR	Ca_06753	--	--
Ca7_P3_6065331	Ca7	6065331	TAAAAA/TAAAAA	TTGTCCACCAAAGTTTC ATTTTC	ATCATGCTTTTTCCCGT CTG	59.0	492	DRR	Ca_06752	T	bZIP
Ca7_P3_6065901	Ca7	6065901	GATAATAA/GATAA	AGACTCGTGAGCACTG AGCA	TTTTGCTTTTTCCACCC ATC	59.9	364	DRR	Ca_06752	T	bZIP
Ca7_P3_6067563	Ca7	6067563	CTTTTTTT/CTTTTTTTTT	ACAAGACTGCTGCTTC CGTT	CCAACCAACCATTCC TCTG	60.1	445	INTRON	Ca_06752	T	bZIP

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
Ca7_P3_6080299	Ca7	6080299	TGTAGTAGTAGTAGTA/TGTAGTAGTAGTAGTAGTA	CGGTGATGAGAGAAAC AGCA	ACGCCAAATATCCAT TTCA	60.0	301	INTERGENIC	--	--	--
Ca7_P3_6080588	Ca7	6080588	GAAAAAAAA/GAAAAAAAAA	CGGTGATGAGAGAAAC AGCA	CGTGTGAATCATGTGC AAAA	60.0	930	INTERGENIC	--	--	--
Ca7_P3_6081485	Ca7	6081485	T/TA	GATTTCTCGGTTTTGT GGA	CATCAATTTTGATCCCT TAATTTTG	59.9	255	INTERGENIC	--	--	--
Ca7_P3_6081828	Ca7	6081828	TTTTTG/T	GATTTCTCGGTTTTGT GGA	AACGAGAGTCTAACGC CTTCC	59.9	825	INTERGENIC	--	--	--
Ca7_P3_6082788	Ca7	6082788	AGTG/A	TGCAGTGCATATGACT CTGTGT	ATTTGACAGCAAAACG GTCC	59.4	477	INTERGENIC	--	--	--
Ca7_P3_6083840	Ca7	6083840	TTA/TTAATA	AGTTGGAAGCCAGGAA TG TG	AGGAGCAGAGCAGAG TGACC	60.1	469	INTERGENIC	--	--	--
Ca7_P3_6084237	Ca7	6084237	CCTTAACTTCTTAA/CCTTAACTTCT TAACTTCTTAA	CCTTAGTTGCACAAAG GGGA	CCGTTTTGGTTCACA TTCA	60.1	164	INTERGENIC	--	--	--
Ca7_P3_6084563	Ca7	6084563	C/CA	CCTTAGTTGCACAAAG GGGA	ACAACGCCAAAAGCTA GGTG	60.1	834	INTERGENIC	--	--	--
Ca7_P3_6087413	Ca7	6087413	GTTTT/GTTTTT	TAAGTTAATGGGAGCG GGGT	GGCCAACCAAACCTCA GTTA	60.7	550	INTERGENIC	--	--	--
Ca7_P3_6087806	Ca7	6087806	CTTTTTTTTTT/CTTTTTTTTTT	ATGTTGGGAGGTTAG GGAC	GGCCAACCAAACCTCA GTTA	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 (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
Ca7_P3_6088639	Ca7	6088639	TAA/TAAA	TTTGATCTCGTGTTCCTT TTCATC	TCGAGCACATTCAACT CCTG	58.4	524	INTERGENIC	--	--	--
Ca7_P3_6097018	Ca7	6097018	AG/A	CTCAGCAGCACAAATC CAAA	GCACAACATCACCATA TCGC	60.0	472	DRR	Ca_06748	--	--
Ca7_P3_6097098	Ca7	6097098	T/TC	CTCAGCAGCACAAATC CAAA	GCACAACATCACCATA TCGC	60.0	472	DRR	Ca_06748	--	--
Ca7_P3_6102449	Ca7	6102449	TA/T	CGAATGAAACGTGTAC TCGAAA	GGTCGTAAGATGGAGA AACGA	60.2	618	INTERGENIC	--	--	--
Ca7_P3_6107322	Ca7	6107322	C/CA	CAATATCACATTGTGCG GTTGAA	TGAAAATGGTGAAAGT GGAACA	59.8	336	DRR	Ca_06747	--	--
Ca7_P3_6107406	Ca7	6107406	AAAAATTTAAAAATTT/AAAAATTTAAAAAT TTAAAAATTT	TGTTCCACTTTCACCAT TTTCA	TGGGTGTTTTATTTTTTC AGATTACTG	60.4	204	DRR	Ca_06747	--	--
Ca7_P3_6107658	Ca7	6107658	TG/T	TGTTCCACTTTCACCAT TTTCA	GAGCAGTGTGGGGTTT TAGG	60.4	703	DRR	Ca_06747	--	--
Ca7_P3_6108030	Ca7	6108030	TTCTCT/TTCTCTCT	CAGGGCCTAGCCCAT TAAC	CCTAGCATGAAGTGC ATGA	60.8	529	INTERGENIC	--	--	--
Ca7_P3_6116383	Ca7	6116383	GAAAAAAAAAAAAA/GAAAAAAAAAAAAA	TGGAAGAACTTTTGATG CCA	CATGTGTGTCCAAGAG GGTG	59.1	352	INTRON	Ca_06745	T	MYB_related
Ca7_P3_6118789	Ca7	6118789	CTTTTTTTTTTTTT/CTTTTTTTTTTT	TAAAGGACCACACAAA GGGG	CGAACTTGCAATTGTCA TGATTT	59.8	894	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
Ca7_P3_6119342	Ca7	6119342	GTTTTTTT/GTTTTTTT	TCATGACAATGCAAGTT CGAC	CATTGTGTCTGCCTT GGAA	59.7	399	INTERGENIC	--	--	--
Ca7_P3_6121180	Ca7	6121180	A/ACTTCC	TTAAATTTACCGCACACG	CGACGTTGTGGTTTCA TGTC	59.6	771	INTERGENIC	--	--	--
Ca7_P3_6122315	Ca7	6122315	TAGAGA/TAGA	TGGGTTTCGAGCCTAAT TTTG	CCGATTCATCCAAAGC CTTA	60.1	435	INTERGENIC	--	--	--
Ca7_P3_6122940	Ca7	6122940	TAAAA/TAA	TTGGAGAGGGGCCTAA AGAT	GACACTCAAACATTCC CGCT	60.0	197	INTERGENIC	--	--	--
Ca7_P3_6125027	Ca7	6125027	GAAAAAAAA/GAAAAAAAA	AGAGGCTGTGAGAGTA GCCG	CAAATTTGACACACCT AAAAAGACA	59.8	683	INTERGENIC	--	--	--
Ca7_P3_6126281	Ca7	6126281	TAAAAA/TAAAA	TTTCTGCCTAGAAAAGT TCCAT	TGTAGCCACGTAAGGA AACCT	57.2	246	DRR	Ca_06744	O	--
Ca7_P3_6126376	Ca7	6126376	TAAAAATAAT/TAAAAATAATAAAAAATA AAT	CGGTCATTTTCAACGT ATTTT	TGTAGCCACGTAAGGA AACCT	58.1	151	DRR	Ca_06744	O	--
Ca7_P3_6126436	Ca7	6126436	ATTTTTTT/ATTTTTT	CGGTCATTTTCAACGT ATTTT	TGTAGCCACGTAAGGA AACCT	58.1	151	DRR	Ca_06744	O	--
Ca7_P3_6126547	Ca7	6126547	AATATATATATATATATATATATATAT /AATATATATATATAT	AAGGTTTCCTTACGTG GCTACA	TCACGGGGCTAATTTT CTTG	60.1	476	DRR	Ca_06744	O	--
Ca7_P3_6126782	Ca7	6126782	CA/CAAAAA	AAGGTTTCCTTACGTG GCTACA	TCACGGGGCTAATTTT CTTG	60.1	476	DRR	Ca_06744	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_6133233	Ca7	6133233	CAAAAAAAAA/CAAAAAAAAAA A	CCTGCCCAAGTTGT TCTA	CTGAGCCAAATCAAG CACA	60.1	494	INTRON	Ca_06744	O	--
Ca7_P3_6138610	Ca7	6138610	T/TG	TTTCAACGCCATTACTT CCC	TGTGACGAGCTTGTC TTTG	59.9	541	INTERGENIC	--	--	--
Ca7_P3_6141211	Ca7	6141211	CAA/CA	GCTCTTCGACGGAATG AGTC	CCCGTACCTACACCA TCAC	60.0	758	INTERGENIC	--	--	--
Ca7_P3_6143274	Ca7	6143274	ATAAACTT/ATAAACTTGTAACCTT	TCGCATTACGATTCATC ACC	TTTGCCTTTGTGTGTG TGTG	59.5	738	INTERGENIC	--	--	--
Ca7_P3_6147633	Ca7	6147633	A/AG	CTAAAGATCGCGGCAG AAAG	GGGATACGTTGGGGA AAGT	60.1	471	INTRON	Ca_06742	--	--
Ca7_P3_6147967	Ca7	6147967	TAAAAAAA/TAAAAAAA	CTAAAGATCGCGGCAG AAAG	GGGATACGTTGGGGA AAGT	60.1	471	INTRON	Ca_06742	--	--
Ca7_P3_6151322	Ca7	6151322	ATTTTTT/ATTTTTT	CCAACCATAAAACCCAA CCA	GAAGTATCCCGTGCAT TATCTG	60.5	640	INTERGENIC	--	--	--
Ca7_P3_6161204	Ca7	6161204	CAAA/CAAAA	TGAATCAAAATGACAGC GTTC	CACTTGTCCGGAGAGT TGTT	58.8	541	INTERGENIC	--	--	--
Ca7_P3_6166062	Ca7	6166062	TAAAAAAA/TAAAAAAA	TCAACACATGAATTGCA CAAAA	CTGTTCCGTGTCTCC CATT	60.0	269	INTERGENIC	--	--	--
Ca7_P3_6238615	Ca7	6238615	ATAATAATAATA/ATAATAATAATA ATTAATAATAATAATTA	GTTGAGGTTCTTCCGG TTCA	TATCGCTTCTGAGAA CGCT	60.1	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 (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
Ca7_P3_6254414	Ca7	6254414	TAAAAAAAA/TAAAAAAAAA	CGAAGTTCGTTTTCCCGTA	TCACCCCACATTGAACT	60.1	718	INTERGENIC	--	--	--
Ca7_P3_6467137	Ca7	6467137	GAAAAAAAAA/GAAAAAAAAA	AAGCCGACGCTACTGCTGT	TTTGTGAGTGGAATGTGGAA	60.1	327	DRR	Ca_06706	GMW	ERF
Ca7_P3_6614224	Ca7	6614224	TAAAAAAAA/TAAAAAAAAA	AGCGCTGCAATAGGCTTTTA	TGAAGATGTTTGCAATGGA	60.1	697	INTERGENIC	--	--	--
Ca7_P3_6668869	Ca7	6668869	TTATATATATATATATATATAT/TTATATATATATATATATATATAT	CACAACCACCTCCTCCT	TTCGAAATAAATGTTTGTGTCTT	60.0	380	INTERGENIC	--	--	--
Ca7_P3_6686273	Ca7	6686273	TAAAAAAAA/TAAAAA	TGCCATAATGTCAAGATGTGA	CCAATTTGTGAAGGAGGGA	59.0	887	INTERGENIC	--	--	--
Ca7_P3_6710088	Ca7	6710088	AAGAGAGAGAGAGAGAGAGAGAGA/GA/AAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	GCCATCCGATCAAAACAACT	CAAGGCCAAATTTCTGTGTT	59.9	839	INTRON	Ca_06690	R	--
Ca7_P3_6711195	Ca7	6711195	GTTATTATTATTATTATTATTATTATAT/GTTATTATTATTATTATTATTATTATTATTAT	ATCCGGAAGTGGGAGAGAGAG	TTCTGGCCGTAGGTTATATCG	60.0	714	INTRON	Ca_06690	R	--
Ca7_P3_6723102	Ca7	6723102	C/CTAGCCTAAACCTG	AACATGGTCTCCACCAATCC	GCCCTCGTGGTTTGTAATT	59.6	412	DRR	Ca_06689	TU	--
Ca7_P3_6746268	Ca7	6746268	AATATATATATATATATA/AATATATATATATATATA	TCAACAATGCTTCCTTCCC	TTCGAAATGTGGGATTAATA	60.1	356	INTERGENIC	--	--	--
Ca7_P3_6799187	Ca7	6799187	CAAAAAAAAA/CAAAAAAAAA	AACGACTCTCGTCGTTCCAT	ATGTTGTCGCACTCTCATCG	59.7	647	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PilI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
Ca7_P3_6808432	Ca7	6808432	GATATATATATATATATATATATATA TATATATA/GATATATATATATATATA TATATATATATATATATA	GGTTCTAAGTGATGGG TGGG	CGCGTGTGATGTTGTTATC	59.3	703	INTERGENIC	--	--	--
Ca7_P3_68102	Ca7	68102	GAAAAAAAAA/GAAAAAAAAA	GCATTTAATTGCGAGG TATCAA	TGGAGATGCCACTTGT TGAG	59.1	649	INTERGENIC	--	--	--
Ca7_P3_6842219	Ca7	6842219	GA/GAAA	CCAATTCGGGGGATAA AGTT	TGGGATGACAAAACGA GTCA	60.0	124	INTERGENIC	--	--	--
Ca7_P3_6849753	Ca7	6849753	GAAAAAAAAA/GAAAAAAAAA	CCGACTCAAATGACTAA AAGCG	ACAATGAGCACAAAGCG ACAG	61.1	371	INTERGENIC	--	--	--
Ca7_P3_6854971	Ca7	6854971	ATTTTTTTTT/ATTTTTTTTT	TATGAGGAGTGTGCTG CTGG	ACTCGCGGACTTAACT TCCA	60.0	348	INTRON	Ca_06677	T	YABBY
Ca7_P3_6876498	Ca7	6876498	TTATATATATATATATATATATATA TA/TTATATATATATATATATATAT ATATATATATA	GTGAGCTGGCTCAATC AACA	CAACACCTAAGCACGC AAGA	60.0	330	INTERGENIC	--	--	--
Ca7_P3_6912264	Ca7	6912264	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	TGCACTTGACATGTT GAATAA	AATCCCTGCAATTGTG GAAG	60.2	560	INTERGENIC	--	--	--
Ca7_P3_6918588	Ca7	6918588	AATATATATATATATATATATATAT ATATATATAT/AATATATATATATATA TATATATATATATATATATATATAT	CCGGACTTAACAAAGC CAAA	TGCTTTTCTGCCCAT ATT	60.1	639	DRR	Ca_06674	R	--
Ca7_P3_6924262	Ca7	6924262	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATATATAT	CAGTGGTCGCAACATG AACT	CTAGCACGGCACACAC ACTT	59.8	516	INTERGENIC	--	--	--
Ca7_P3_6925306	Ca7	6925306	TTTTTATTTTTAT/TTTTTATTTTTA TATTTTATAT	ATTTTGACACGGCAAA GTCC	TGAGTGGCTGAGAACA CTGC	60.0	813	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 (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
Ca7_P3_6986107	Ca7	6986107	AATATATATATATATATATATAT/AATAT ATATATATATATATATATAT	CCCAAACTGCAACAAAT CCT	TTTATTGTGAGCACGG GTGA	60.0	283	INTERGENIC	--	--	--
Ca7_P3_7073432	Ca7	7073432	CATATATATATATATATATATATATAT AT/CATATATATATATATATATATATA T	TGATTAGTCCACATCG CAA	TAGATGCAATAGCCGC ATCA	60.1	418	INTERGENIC	--	--	--
Ca7_P3_7130529	Ca7	7130529	ACCNNNNNNNNNCC/ACC	CGATGACAACAATGCA AACA	TTCATGTGCGTTTAGC AAGC	59.1	553	INTERGENIC	--	--	--
Ca7_P3_715296	Ca7	715296	CTT/CT	ATCAAGCCATGAGCCA CTTT	AAGCTGTGTTGCTCAT GCAC	59.7	444	DRR	Ca_03412	--	--
Ca7_P3_7187376	Ca7	7187376	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGCCCATCTCCATACT GTG	CATCTCGCCTTGCACT TACA	59.5	569	INTERGENIC	--	--	--
Ca7_P3_7255092	Ca7	7255092	AATATATATATATATATATATATATAT ATATA/AATATATATATATATATATATAT ATATATA	AAGGAAAAACAACATC GAATGA	GAACAATTTTATGCGA GGCTTT	58.6	597	INTERGENIC	--	--	--
Ca7_P3_7284443	Ca7	7284443	AATATATATATATATATATATATATAT ATATA/AATATATATATATATATATATAT ATATATATATATATATA	TTGAATTCGGAGTTTT CTTTT	CCTCACTTCATTGCTG CTCA	59.1	992	INTERGENIC	--	--	--
Ca7_P3_7284971	Ca7	7284971	TNNNNNNNNNNNNN/TNNNNNNNNN NNNN	TGAGCAGCAATGAAGT GAGG	TTGCGAGGAAGAAAC GAGT	60.1	484	INTERGENIC	--	--	--
Ca7_P3_7360209	Ca7	7360209	AATTATTATTATTATTATA/AATTATTA TTATTATTA	CTTCTGGGGTGTGAC CAGT	AAAGGCTTGAAGGGA AAAA	60.0	502	DRR	Ca_06622	R	WRKY
Ca7_P3_7383896	Ca7	7383896	CAAAAA/CAAAAA	TGATCTTCTTAACTCA AACGGTG	CCGCACGTGATGAATA GATG	59.7	256	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 (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
Ca7_P3_7398061	Ca7	7398061	G/GAACTAAAGGG	CGCTACACTGTCATGA ACTCAA	GCATGGTTTGCCCTAT GACT	59.0	436	INTERGENIC	--	--	--
Ca7_P3_7459713	Ca7	7459713	TACA/T	TTTTGTCTTAAGTGGG CCG	TGGAGGTCTCCTCGTT CACT	60.1	541	INTERGENIC	--	--	--
Ca7_P3_7512410	Ca7	7512410	GATATATATATATATATATA/GATATA TATATATATATATATATA	TCCGCCTTAGTGCCGT ATTA	TTCCGTGCCATACCGT TTAT	60.6	431	INTERGENIC	--	--	--
Ca7_P3_7535397	Ca7	7535397	GTTTTTTTT/GTTTTTTTT	CGGTAAAAGGGTGCAA ATGT	AAAAATTCCTCCACCA AAGTC	59.9	840	INTERGENIC	--	--	--
Ca7_P3_7558065	Ca7	7558065	TTA/TTAAATA	TCGTCCACTTCCAATT GCT	GCATACAAGAAACCAA CAACCA	60.6	211	INTERGENIC	--	--	--
Ca7_P3_760856	Ca7	760856	GTTGAAGATTG/GTTGAAGATTGAAGA TTG	TAAACGCTTGTGGCAT TTG	AGTTCGCAGGCTCTGT TGTT	59.7	445	DRR	Ca_03403	R	--
Ca7_P3_7738038	Ca7	7738038	TC/T	GATTCCATTGGGATTG GTTG	CACGTTTTAGAGATGT CCATTTTG	60.0	505	INTERGENIC	--	--	--
Ca7_P3_7738228	Ca7	7738228	AAAAAA/AAAAATAGAAAAA	GATTCCATTGGGATTG GTTG	CACGTTTTAGAGATGT CCATTTTG	60.0	505	INTERGENIC	--	--	--
Ca7_P3_7738595	Ca7	7738595	GTATATATATATATATATATATA/G TATATATATATATATATATATA	CAAAATGGACATCTCTA AAACGTG	TCTCTCACCAATCAC CAAA	59.9	583	INTERGENIC	--	--	--
Ca7_P3_7751929	Ca7	7751929	G/GT	AAGGTATCCCTTCCC AAGA	TTGTCGCCATTGATT TGA	59.8	821	DRR	Ca_13244	--	--

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
Ca7_P3_7753007	Ca7	7753007	GTTTTT/GTTTTTTT	GGAGAATCGCCAACCA GATA	GGGGAAACAATGCAG GTAA	60.0	542	CDS (FRAME SHIFT)	Ca_13243	KL	G2-like
Ca7_P3_7756854	Ca7	7756854	CTTTT/CTTT	TGATCCCTGAAGGGCA TAAG	GCAAGGAATCACAAGG GAAA	60.0	260	INTRON	Ca_13243	KL	G2-like
Ca7_P3_7762144	Ca7	7762144	TTTATTATTATTATTATTATTATTAT TATTATTAT/TTTATTATTATTATTATTAT TATTATTAT	TCAAACGAGGGAACT GAAAA	GGAGAGGGAGAGAGT GGGTT	59.7	748	DRR	Ca_13242	TZ	--
Ca7_P3_7835609	Ca7	7835609	TTTATTATTATTATTATTATTATTAT T/TTTATTATTATTATTATTATTATTA TTATT	GCTGCTGGCACATCTA CTCA	GCAACACATGGTCACA TCCT	60.2	555	INTERGENIC	--	--	--
Ca7_P3_7862328	Ca7	7862328	AATATATATATATATATATAT/AATATAT ATATATATATATATAT	TCACGGATTGCGTAAAT GAA	TTATTCTGAGCAAACG TCGC	60.1	581	INTERGENIC	--	--	--
Ca7_P3_7952171	Ca7	7952171	AGGGG/AGGG	TATCCAATTGCGTCG GATT	ACTCGGATGTCTCAAT GCAA	60.3	307	INTERGENIC	--	--	--
Ca7_P3_7957533	Ca7	7957533	GATATATATATATATATATAT/GATATAT ATATATATATATATAT	AAGACTTTGCGAGGGT CTGA	ATCCTCACCTTTGATG CTCG	60.0	669	INTERGENIC	--	--	--
Ca7_P3_8010128	Ca7	8010128	TTTTTTTATTTATTTATTTATTTATTTA/ TTTTATTTTATTTATTTATTTATTTA TTTA	GAGAATGCAGTGAACC AGCA	CTTCCATTTCCCACTT CCA	60.0	601	DRR	Ca_13217	R	NF-YA
Ca7_P3_8083793	Ca7	8083793	ATTTTTTTTT/ATTTTTTTTT	GAGCGAGTCGTGCTTT TGAT	GAGCCTAACCGTGCCA ATAA	60.5	261	INTERGENIC	--	--	--
Ca7_P3_8148602	Ca7	8148602	C/CACAG	GCAAGTCATGCATGCT CCTA	TCTTGGGGAAATTGGT GTAA	60.0	483	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 (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
Ca7_P3_8148654	Ca7	8148654	GATACATACATA/GATACATA	GCAAGTCATGCATGCT CCTA	TCTTGGGGGAATTGGT GTAA	60.0	483	INTERGENIC	--	--	--
Ca7_P3_816979	Ca7	816979	AAATAAAATTAATAAAAT/AAATAAAA ATTAATAAAATTAATAAAAT	CGACCAATGTTTTCTT CTTCA	CAGATCATGGCACGTG AAAG	59.2	496	DRR	Ca_03396	--	--
Ca7_P3_8190330	Ca7	8190330	TTTATTATTATTATTATTATT/TTTAT TATTATTATTATTATTATT	CGTGCCAAAACAAATTA CCTG	GTCGTTTCATGGGAA GCTA	60.4	490	INTRON	Ca_13195	O	--
Ca7_P3_8191124	Ca7	8191124	CTTTTTTTTTTTTT/CTTTTTTTTTT TTT	TGCATCATTATCGGG TTTT	GCGTTTCAAGAGGTCG TAGC	60.2	149	INTRON	Ca_13195	O	--
Ca7_P3_8191219	Ca7	8191219	GG/GGTG	TGCATCATTATCGGG TTTT	TAACAAGTGGGAGTC GCAT	60.2	206	INTRON	Ca_13195	O	--
Ca7_P3_819442	Ca7	819442	ATTAG/A	TTCACGAAATTTGTTCC CCT	TGTACATTTCTAAAA CACATTGA	59.4	784	INTERGENIC	--	--	--
Ca7_P3_8236684	Ca7	8236684	ATTTTTTTTT/ATTTTTTTTT	GGTTGTTGGGCTTTGA AGAG	CGCAAGTAAGCTTCAC CGA	59.7	531	INTERGENIC	--	--	--
Ca7_P3_82713	Ca7	82713	TTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AA/TTAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAA	TGGGAAGAAGCCTTTC TTGA	AAAAACCAGACAAAC AACGA	59.9	590	INTERGENIC	--	--	--
Ca7_P3_8300958	Ca7	8300958	TTATATATATATATATATATATATATA TATATATA/TTATATATATATATATAT ATATATATATATATATATATATATATA	TCCTTGATACCTGCATT TGTCG	TGAGTTGCGTTGAGAA TTGG	60.1	828	INTERGENIC	--	--	--
Ca7_P3_8412208	Ca7	8412208	CATATATATATATATATAT/CATATAT ATATATATATATATAT	TTGGTGCAATGTTCA GAAA	AATTAGGGGCCAGAA TGCC	60.1	774	DRR	Ca_13166	R	Nin-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 (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
Ca7_P3_8447254	Ca7	8447254	GTA AAAAATTAAAAATTAAAAATTAA AAAAT/GTAAAAAATTAAAAATTAAAAA ATTAAAAAATTAAAAAAT	GGTGACATTTTATTTGA GACAGACA	ATCACCGTTCAATTG ATGG	59.5	627	INTERGENIC	--	--	--
Ca7_P3_8478873	Ca7	8478873	TAGAGAGAGA/TAGAGAGA	ACACCATCATAGGCAC ACGA	TATTGCCTACGGGTCA GGTC	60.0	290	INTERGENIC	--	--	--
Ca7_P3_8479391	Ca7	8479391	CATATATATATATATATATATATATAT /CATATATATATATATATATATATATA TATATAT	GACCTGACCCGTAGGC AATA	TTCCGTCAGAGGACAA GTCA	60.0	739	INTERGENIC	--	--	--
Ca7_P3_8578840	Ca7	8578840	AATATATATATATATATAT/AATATATAT ATATATAT	GAGTGGTGTGGAGTC GATG	ATTTTGCATGGGGTG TTGT	59.1	566	INTERGENIC	--	--	--
Ca7_P3_8579100	Ca7	8579100	GAAAAA AAAAA/GAAAAA AAAAAA	TCGAAATTTGACAAAGA GTGAA	ATTTTGCATGGGGTG TTGT	57.5	190	INTERGENIC	--	--	--
Ca7_P3_8601888	Ca7	8601888	TGGGGGGGGGGG/TGGGGGGGGGGGGG GG	AGCGTTATTAGGAAAG CGGA	CTCCTCCTTTATTCG ACCC	59.0	381	INTERGENIC	--	--	--
Ca7_P3_8615682	Ca7	8615682	CCTTCTTCTTCTTCTTCTTCTTCTT/ CCTTCTTCTTCTTCTTCTTCTTCTT	GCGGTTTCAACAAGTG GATT	AATAAAGCAGGCAGC CAAA	60.0	623	DRR	Ca_15357	--	TCP
Ca7_P3_8719047	Ca7	8719047	GCACACA/GCACA	AGTTTGCAGGTGAATT GGG	GTAAGGACTGGACGG TGGA	60.0	598	INTRON	Ca_15344	O	MYB_related
Ca7_P3_8750327	Ca7	8750327	TT/TTGCAACT	AATTTTGGGAGCACG TTTG	CATCCAGAGCAAACT GCAA	60.0	410	INTRON	Ca_15341	V	--
Ca7_P3_875747	Ca7	875747	TTATATATATATATATATAT/TTATAT ATATATATATATATAT	TTTTGCCCAAAAGTAG TGG	GGACACCAATTTGACA CCCT	60.0	483	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
Ca7_P3_8772540	Ca7	8772540	TTATATATATATATATATATATATATATATATAT T	AACCGCATGTTTGAGA GTCA	TGGGTTTGGTCAATTG GAGT	59.3	641	DRR	Ca_15338	--	ERF
Ca7_P3_8828027	Ca7	8828027	T/TCC	GTGGACACCTGAAATT GGCT	TTCAGTTGGCGTTTTTC TGTG	60.0	543	INTERGENIC	--	--	--
Ca7_P3_8886120	Ca7	8886120	TTCTCTCTCTCTCTCTCT/TTCTCTCTC TCTCTCT	CAGATGACTTGACATAC AATAAATGAA	CAAATTCACCACTCGT GCAG	58.6	927	INTERGENIC	--	--	--
Ca7_P3_8964759	Ca7	8964759	CTA/C	TTGCATGAGTTGGAGA CTCG	AGTTGCCGTTACGGAT TGAA	60.0	575	INTERGENIC	--	--	--
Ca7_P3_8975913	Ca7	8975913	T/TAA	TGCCTCCATAGGATTCT TCG	TGTTTGTGTTGAAGC TCGC	60.2	611	INTERGENIC	--	--	--
Ca7_P3_9015154	Ca7	9015154	CTTTTCTCGA/CTTTTCTCGATGCTTCA TTTTCTCGA	TCTCCTGCTTCGATTCTG TTT	TTGCTGAATTGCTGAG TTCG	60.0	235	INTRON	Ca_15313	U	bHLH
Ca7_P3_9055570	Ca7	9055570	ATTTTTTT/ATTTTTT	GAACGCATACGTGGAT CTGA	GATAAACGAGCCACACA AGGA	59.7	369	INTERGENIC	--	--	--
Ca7_P3_9086531	Ca7	9086531	TAAAAA/TAAA	TTGAACCCAAGAACAAA GAAAAA	CACACCCATACCCGCT TAAT	60.0	504	INTERGENIC	--	--	--
Ca7_P3_9109915	Ca7	9109915	AATTATTATTATTATTATTATTATTATTA TTATTATTAT/AATTATTATTATTATTAT TATTATTATTATTATTATTATTATTAT	TCTGCAACATTTTCCTC TCG	GGTTGGGAAACACAAA CTCAA	59.0	636	INTERGENIC	--	--	--
Ca7_P3_9146501	Ca7	9146501	ATATTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT/ATATTAT TATTATTATTATTATTATTATTATTATTA TTATTATTATT	TGAAGCTGGTAATGAA GGGG	TTTGGGTCGCTTCTTA ATCC	60.1	430	INTRON	Ca_15301	K	E2F/DP

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 (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
Ca7_P3_9151717	Ca7	9151717	CTT/CT	GTGAAGCATGGTTGAG AGCA	GAGTGAGGGTGCAAC CATTT	60.0	584	INTRON	Ca_15300	C	bHLH
Ca7_P3_9174467	Ca7	9174467	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/AAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAA	AAAAAGGAATCCCACG ACAA	GACAAAGGAGCTTGCA ACAA	59.4	572	INTERGENIC	--	--	--
Ca7_P3_9180941	Ca7	9180941	TA/TAGA	ATGATTTCCACGAGCC AAAC	TGCAACATTTCTGAT GAGC	59.9	322	INTERGENIC	--	--	--
Ca7_P3_9181858	Ca7	9181858	CT/C	TATTACCCAACCAAGCG AGC	TGAACCTTGATTGCCG CTAA	60.0	554	INTERGENIC	--	--	--
Ca7_P3_9182870	Ca7	9182870	CATATATATATATATATAT/CATATATAT ATATATAT	TGCAATTGATGCTTGGT GAT	AAAGGGCATATTTGCA ATCG	60.1	857	INTERGENIC	--	--	--
Ca7_P3_9240312	Ca7	9240312	CAAT/CAATAAT	TAATTTGAGGGGTGTG GGAA	TTGCCCATCACCAATA TCCT	60.2	632	INTERGENIC	--	--	--
Ca7_P3_9255165	Ca7	9255165	CACTTACTTACTTACTTAC/CACTTACT TAC	AATTTGCAACCAATTAC CGC	ATCCACCAACAACAGC AACA	59.8	220	INTERGENIC	--	--	--
Ca7_P3_9288646	Ca7	9288646	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/AAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAA	TGCATGCTTGCCATAG AAAA	GCGAAGTGCATGAACG ATTA	60.4	945	INTERGENIC	--	--	--
Ca7_P3_9332729	Ca7	9332729	T/TTCAAAATGA	ACCAATCCAATGCCAT CAT	TCATCTTTTGATTGTG GCG	60.0	201	INTERGENIC	--	--	--
Ca7_P3_9336558	Ca7	9336558	AAATAATAATAATAATAATAATAAT AATAAT/AAATAATAATAATAATAAT AATAATAATAATAAT	GCATGCATGGATGAGA AATG	TTTTCGGTATCCTTCTA TGTCG	60.0	641	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
Ca7_P3_938760	Ca7	938760	GTTTTTTTT/GTTTTTTTT	TTGCTATCAACACCCCA AAA	GAGGCTTGTAAGCAT GCCA	59.0	495	INTERGENIC	--	--	--
Ca7_P3_9401015	Ca7	9401015	ATAT/ATATGTAT	AATAGGTCCGGATGT TTCC	TTGAACGGAGAAAAC CGCT	60.0	345	INTERGENIC	--	--	--
Ca7_P3_9404184	Ca7	9404184	ATTT/ATT	TTTTCTTGGAACGAA GTG	AAACGAGTGCCTGAA CTGA	60.1	555	INTERGENIC	--	--	--
Ca7_P3_9559666	Ca7	9559666	TAAAAAAA/TAAAAAAA	CCAAATTGTAAACCGTA AAATGAA	TTTTATCCAATCTTCG CGT	59.3	420	INTERGENIC	--	--	--
Ca7_P3_9568338	Ca7	9568338	TAAAAAA/TAAAAAA	TGCTATCAATTGCGACA AAAA	GGCTTTGCAAGAGAAG ATCG	59.3	222	INTERGENIC	--	--	--
Ca7_P3_9578967	Ca7	9578967	AAAAATTA/AAAAATTA/AAAAATTA/AAAA	ACTCCACAACACTTACG CCC	CGGAATACGGCGAATT AAGA	60.0	669	INTERGENIC	--	--	--
Ca7_P3_9688902	Ca7	9688902	CATATATATATATAT/CATATATATATAT ATAT	ATACCCCTCCACACAA ACA	TTCGGAGTGCCTTTTC TCTT	60.1	379	INTRON	Ca_17288	U	--
Ca7_P3_9728333	Ca7	9728333	ATTTTTTTTT/ATTTTTTTTT	TCTCGCATATGTTGTT TGG	CACTCACCCCTATGCC AACT	59.5	722	INTERGENIC	--	--	--
Ca7_P3_9747646	Ca7	9747646	CTTTTTTTTTTTTT/CTTTTTTTTTTTTT	AGATCGGTCTATGCATT CGG	AAAAATTGTGGCGGTA CAAA	60.1	769	INTERGENIC	--	--	--
Ca7_P3_9821749	Ca7	9821749	CTTATTATTATTATTATTA/CTTATT ATTATTATTATTATTATTA	CTTATGGGTTTGTGGG GATG	AAGGAAAGTACAAACG CCGA	60.0	564	INTRON	Ca_12747	G	--

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 (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
Ca7_P3_9843845	Ca7	9843845	AAATAATAATAATAATAATAA/AAAT AATAATAATAATAATAATAA	TTGAAATTTCCCGAAGA TGC	CAACTGCCTCCTATTTT TATTTTGA	60.0	304	INTERGENIC	--	--	--
Ca7_P3_9956875	Ca7	9956875	GTTTTTTTTT/GTTTTTTTTT	TTTTGAATTCCTCCGAT GAT	TTGTACCAGTAGCCGT TGGA	60.2	210	INTERGENIC	--	--	--
Ca7_P3_9988764	Ca7	9988764	CATATATATATATATAT/CATATATATAT ATATATAT	CCGTCCGTCGTAGTAG CAAT	AGAGACATCGTGGGT GAGG	60.2	704	DRR	Ca_12765	--	ERF
Ca8_P3_10052768	Ca8	10052768	ATTTTTTTTT/ATTTTTTTTT	TGGAGCAATCACTCAA ATGC	AAGGGGTCCACCTCAA AAAT	59.8	696	INTERGENIC	--	--	--
Ca8_P3_10069108	Ca8	10069108	A/AC	CCATCAGCCCAAAAG TTGT	ACCCAGCCTTCTGGAA AAAT	60.0	682	INTERGENIC	--	--	--
Ca8_P3_10097154	Ca8	10097154	TAAAAAAAAA/TAAAAAAAAA	CAACTTTTGGGAAAGCT GATG	AAGTTCGCGTCTGTTG AAAA	59.7	807	INTERGENIC	--	--	--
Ca8_P3_10098975	Ca8	10098975	TTATATATATATATATATAT/TTATAT ATATATATATATATAT	TCAATCACATGCAAGG CAAT	CAACCAGAGGTAGGGT CCAA	60.1	807	INTERGENIC	--	--	--
Ca8_P3_10130138	Ca8	10130138	AATATATATATATATATATATATATAT ATA/AATATATATATATATATATATAT ATA	AAACCAAAAAGGACAAC CCA	GGCTCTCGAAAGGTCA CTTG	59.3	639	INTERGENIC	--	--	--
Ca8_P3_10152313	Ca8	10152313	AATATATATATATATATATAT/AATATAT ATATATATATAT	TTGCTCAACATCTTGC TCG	TCCGTTTTATAATCGGT GTCA	60.1	787	INTERGENIC	--	--	--
Ca8_P3_10301817	Ca8	10301817	TTAATAATAATAATAA/TTAATAATA ATAATAA	ACTGGGGAAGTTGGCT TTTT	ACGAGGTGTCAGATT TGGC	60.0	689	DRR	Ca_18422	R	Trihelix

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 (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
Ca8_P3_10344569	Ca8	10344569	ACTT/A	TCCTTTCATCGACAGTG ATCC	TGATGGAGTGGCCTT AGCC	60.1	190	INTERGENIC	--	--	--
Ca8_P3_10357104	Ca8	10357104	ATTTT/ATTTT	AATGTTACCTTGCAGGA CCG	TGAGTGACCGAGCTGA CAAC	60.0	763	INTERGENIC	--	--	--
Ca8_P3_10366674	Ca8	10366674	CTT/CT	CAAGAAGACGCCGATG AAAT	GTCGAACGTTCTCCGT TTGT	60.2	571	INTERGENIC	--	--	--
Ca8_P3_10366831	Ca8	10366831	GTTT/GTTT	CCCTCAAACAAAATGC ACC	GTCGAACGTTCTCCGT TTGT	60.3	400	INTERGENIC	--	--	--
Ca8_P3_10375574	Ca8	10375574	CG/CGG	TGGTCTCTCGATCAGA TTTTTG	GATGATGTGGCACAGT GGAC	59.3	517	INTERGENIC	--	--	--
Ca8_P3_10381692	Ca8	10381692	AGG/AGGG	CGTTTCCTCTGCCTCTT GAC	TTGTGAAAAACGAGCA CGAC	60.0	677	INTRON	Ca_18429	R	NAC
Ca8_P3_10403855	Ca8	10403855	CTTTTTTTTTTT/CTTTTTTTTTTTTT	TGAGTTGGCAAATATTG GAGG	TTCTTTGAAGATGAAT GGGG	59.9	410	INTERGENIC	--	--	--
Ca8_P3_10412509	Ca8	10412509	C/CA	GAGGACTGGACGTAAC CCAA	CATCTGTAATGATGCG CCAC	60.0	515	INTERGENIC	--	--	--
Ca8_P3_10466577	Ca8	10466577	TTAATCT/TT	TCATCCCCGTGAAGTT CTC	GGTGACTGGCCACATC TTATG	60.1	715	INTRON	Ca_18433	P	Trihelix
Ca8_P3_104807	Ca8	104807	TTATATATATATATATATAT/TTATAT ATATATATATATAT	AACCACTAAATCGATT GCTC	CGGGAAAGAAAAAGAT AAAGGA	59.2	278	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 (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
Ca8_P3_10590161	Ca8	10590161	ATTTTT/ATTTTTTT	AACGGAGGAGGAACAA ACAC	TTAGAAGGCCTTGCAT ACGA	59.0	212	INTERGENIC	--	--	--
Ca8_P3_10591114	Ca8	10591114	AAA/AAAGAA	TCCCGAGCATATCAAC ATCA	TGTGGGAGTTTGTCTT GCAG	60.0	555	INTERGENIC	--	--	--
Ca8_P3_10612849	Ca8	10612849	CTTTT/CTTT	AGTGGGAGTTTCGTCC ATTG	AGCACATGGAACCAA GAGG	60.0	299	INTERGENIC	--	--	--
Ca8_P3_10640833	Ca8	10640833	TTATATATATATATATATATA/TTATA TATATATATATATATATA	CAAGATACGCCACTCT GCAA	GACCTGATCCCAGCCT ACAA	60.0	480	INTERGENIC	--	--	--
Ca8_P3_10686546	Ca8	10686546	ATTTT/ATTT	TGCTATCGGTACCAATT TTGC	TCCGTTGTCTCATTCTG ATCA	60.0	628	INTERGENIC	--	--	--
Ca8_P3_10701972	Ca8	10701972	ATGTT/AT	TCAACGGTTATACGGC AACA	TTTTATCTATGAAAAAT GCCTCACA	60.0	373	INTERGENIC	--	--	--
Ca8_P3_10791249	Ca8	10791249	TAAAAAAA/TAAAAAAA	TCAGAACACATATATAG TAAACGTTGG	ACGGTGATTACGGTGG TGAT	57.9	462	DRR	Ca_19731	A	--
Ca8_P3_1079907	Ca8	1079907	AC/A	ATTAGGTAGCCATGAG CCCC	TTCTCAGATTGGCAT GCTG	60.3	638	INTRON	Ca_15076	CR	NAC
Ca8_P3_10916956	Ca8	10916956	GGTGTG/GGTGTGTG	CATGGTGACTGGAACA CTGG	CATTGAGGCTCCGTA AAAG	60.0	341	DRR	Ca_19744	R	NAC
Ca8_P3_10934374	Ca8	10934374	AT/ATT	TCCGATTCATCCTCTTG GTC	AATGAAAAAGCGGGGA AACT	60.0	368	DRR	Ca_19747	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 (°C)	Expected 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_P3_10960636	Ca8	10960636	ATTTTTTTT/ATTTTTTTTT	GAGAAATGGCTTTGTC CATCA	TCGATTTTGAAACCAA ATGTTA	60.1	249	INTERGENIC	--	--	--
Ca8_P3_11059817	Ca8	11059817	ATTTTTTTT/ATTTTTTTTT	ATCTTAGCCAAAAGGC CGAG	ATTGGGCTTGGAATT GTTG	60.7	856	INTERGENIC	--	--	--
Ca8_P3_11070760	Ca8	11070760	AG/A	GCTTCTAGCTGGTGCT GCTT	AGGGAATCAATTGTAG GGGG	59.9	900	INTERGENIC	--	--	--
Ca8_P3_11071480	Ca8	11071480	TAAAAAAAAA/TAAAAAAAAA	CCCCCTACAATTGATTC CCT	GCACCCGTAAATATTC GCAC	60.0	640	INTERGENIC	--	--	--
Ca8_P3_11073427	Ca8	11073427	TAAAAAAAAA/TAAAAAAAAA	GCACCATTTTCCTGTT TCAG	TCCTTCATTGATGTCC ACCT	59.6	182	INTERGENIC	--	--	--
Ca8_P3_11077593	Ca8	11077593	ACC/AC	TAATTGGGATTCCAACA GCC	TGATTCCAAGCCATAG TCCC	59.8	398	INTERGENIC	--	--	--
Ca8_P3_11083351	Ca8	11083351	GAAAA/GAAAA	AAAACAACGTGACAAC GCTCT	TCATGGGGATGGTTT GAGT	59.8	204	INTERGENIC	--	--	--
Ca8_P3_11083907	Ca8	11083907	TAAAAAAAAA/TAAAAAAAAA	ACTCAAACCATCCCCA TGA	GTCCAATGCACATCGA ATCA	60.2	880	INTERGENIC	--	--	--
Ca8_P3_11085165	Ca8	11085165	TATATATATATATATATATATATAT AT/TATATATATATATATATATATATA TATATATAT	GGGCCACGTTTCTAAT TCAA	TTCCATGATTCCATCC ATCA	59.9	766	INTERGENIC	--	--	--
Ca8_P3_11091561	Ca8	11091561	TAAAAA/TAAAAA	GCCTTTCAAATACCCTG ATTG	GGAATTCAACTTCCCC TTTG	58.6	515	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
Ca8_P3_11108092	Ca8	11108092	TAAAAAAAA/TAAAAAA	TGCCTTGCATGAAATTC AGA	CGACATCTAAAATTGA ACCCG	60.3	764	INTERGENIC	--	--	--
Ca8_P3_11108114	Ca8	11108114	TAAAAAAAA/TAAAAAA	TGCCTTGCATGAAATTC AGA	CGACATCTAAAATTGA ACCCG	60.3	764	INTERGENIC	--	--	--
Ca8_P3_11112204	Ca8	11112204	TTAATAATAATAATAATAATAA TA/TTAATAATAATAATAATA	TGTTCAATGTATGGTTT ATTGATTTTT	TTGCGAATTCATTTGG ATCA	59.1	666	INTERGENIC	--	--	--
Ca8_P3_11113946	Ca8	11113946	GA/GAATA	CCAGAAAACGAAAACC AAACA	TTTGATTTTGAGGCAG AGCA	60.0	480	INTERGENIC	--	--	--
Ca8_P3_11124508	Ca8	11124508	CATAT/CAT	CAGTGGGAAAAGTCAA CGGT	GGTTCCGACATCACAG GAGT	60.0	536	DRR	Ca_16840	--	WRKY
Ca8_P3_11136675	Ca8	11136675	ATTTTT/ATTTTT	TTGATTCATTACGGTT GTCA	CGCTGTTGTGAGTTGG TCAC	60.0	545	INTERGENIC	--	--	--
Ca8_P3_11144283	Ca8	11144283	A/ATTTAATC	TTGCCATGCCTACTTAA GGG	AATGACATTGAATTCC CCGA	60.1	292	INTERGENIC	--	--	--
Ca8_P3_11144526	Ca8	11144526	CATTA/CA	TTGCCATGCCTACTTAA GGG	TCACACCGAGTTCATC CAAA	60.1	805	INTERGENIC	--	--	--
Ca8_P3_11145831	Ca8	11145831	TCC/TC	TCTTTCTGGTGCAAAAT TGTTTT	AAATTGAAGCAAACGG AACC	60.0	980	INTERGENIC	--	--	--
Ca8_P3_11146284	Ca8	11146284	TGTGTCTTAGGT/TGT	TGTGATTGAGGCACTA TCAAGC	CCGGGTGAAATGGTTA TTTG	60.3	280	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
Ca8_P3_11146309	Ca8	11146309	ATTTTTTTTT/ATTTTTTTTT	TGGTTTGCTGGAATTG TGTG	CCGGGTGAAATGGTTA TTTG	60.6	167	INTERGENIC	--	--	--
Ca8_P3_11146772	Ca8	11146772	TAAATAAAA	TAACCTGTGCGCTATTG GTG	TGCAAAATAATTCCTCAT CATTTTT	59.9	329	INTERGENIC	--	--	--
Ca8_P3_11148160	Ca8	11148160	CTT/CT	TTCGCACATAGTGGA AGGA	CCCAAAGCTACATGAA CGTG	60.3	734	INTERGENIC	--	--	--
Ca8_P3_11151846	Ca8	11151846	AATAT/AATATATAT	TTTGTCCAATGGGAAG AAGAC	TTGAGCATCGTGTGG AGAG	59.0	174	INTERGENIC	--	--	--
Ca8_P3_11154260	Ca8	11154260	ATTTTTTT/ATTTTTTTTT	CTCATCTCCCAAGAA CCAA	TGTCAAACACAAGCT TAAAAATCCA	60.0	193	INTERGENIC	--	--	--
Ca8_P3_11157714	Ca8	11157714	TT/TTGT	TGGGGGATTGTTGGAA AATA	CGACCGCTCTAAAAAC GAAG	60.0	498	INTERGENIC	--	--	--
Ca8_P3_11168829	Ca8	11168829	ATAG/ATAGTGAGCTAG	GAAACGTTGCAACTTG GTCA	GACCTTTGGTGGGGAA AAAT	59.7	227	INTERGENIC	--	--	--
Ca8_P3_11179515	Ca8	11179515	GAAAAAAAAA/GAAAAAAAAA	GGTGCACCAAGCTAAA GAAG	GACCTACTTGAGAGTC GCTG	60.0	455	INTERGENIC	--	--	--
Ca8_P3_11185882	Ca8	11185882	TAAAAAAAAA/TAAAAAAAAA	TTCATACCATTCCACGC CTT	TCCTCAGGTGATCGTG ACTG	60.3	555	INTERGENIC	--	--	--
Ca8_P3_11192463	Ca8	11192463	TAAAAAA/TAAAAAA	TTGCCAAATCAACACAA ACAA	GCTTAGGGACTAATGC GTGG	60.0	667	DRR	Ca_16839	R	MYB

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PilI)	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
Ca8_P3_11246794	Ca8	11246794	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATATATATATATATATAT	TCAAATTCATTCTTTGC ATCGT	GGCGAACC AAAAGTT TGAA	59.6	766	INTERGENIC	--	--	--
Ca8_P3_11280314	Ca8	11280314	TAA/TA	TGTGTCATTTTCCTTGG AAGC	CATCATAACAAGTCGA ATGTCCA	60.1	517	INTERGENIC	--	--	--
Ca8_P3_11292999	Ca8	11292999	AATATATATATATATATATATAT/AAT ATATATATATATATATATATATATAT	AAAAC TATTGCATCTGC GGG	GGGTTGGAGCGTAG TGTTA	60.1	762	DRR	Ca_16829	R	NAC
Ca8_P3_11359890	Ca8	11359890	TC/T	CTCGAAAATTAGGCGA GCAG	CACGTGCATGACCCTA AATG	60.1	605	INTRON	Ca_16822	G	NAC
Ca8_P3_11495794	Ca8	11495794	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAAT/TATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATA	CAAACTTGTTTGGGACA AAACTC	AAATGAGTTGAATCAT GGACACA	59.9	234	INTERGENIC	--	--	--
Ca8_P3_11536014	Ca8	11536014	GATATATATATATATATATATATATA TATATAT/GATATATATATATATATAT ATATATATATATATATATATATATAT	GCCTCCAATTTTTGGAA GTCT	AAAAACAATTTGGATGC GAAAA	59.6	796	DRR	Ca_16812	R	MYB
Ca8_P3_11536143	Ca8	11536143	CATTATTATTATTATTATT/CATTATTAT TATTATTATTATT	TCTTACACTGCAGCAAT AAAAATCA	TGGTTGATGCCCAAGT ACAA	60.2	576	DRR	Ca_16812	R	MYB
Ca8_P3_11545234	Ca8	11545234	CTAATAATAATAATAATAATAATAATA T/CTAATAATAATAATAATAATAATAATA ATAAT	CTGGTCATTACCTCGC ACCT	TTGTTTCTGTCCATTTC CCC	60.0	125	CDS (large-effect mutations)	Ca_16811	--	--
Ca8_P3_11546931	Ca8	11546931	T/TCG	GCCATGTTCA GTCTTG GTCA	ACTCCACCATTGCTTG CTTT	59.7	247	INTRON	Ca_16811	--	--
Ca8_P3_11653408	Ca8	11653408	CAAATTGAAAAA/CAAATTGAAAAATTG AAAAA	GGTGCCACTTTGGATT CAGT	TTTTGCAACGTCATCC AATC	60.0	574	DRR	Ca_16808	L	WRKY

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 (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
Ca8_P3_11769671	Ca8	11769671	C/CCCTTACCAA	TCATTGGTCCTACCCCT GTC	TTTGCCAATCGACATT GTGT	59.9	154	INTERGENIC	--	--	--
Ca8_P3_1184414	Ca8	1184414	GAAAAAAAAA/GAAAAAAAAA	TTCGTACCGTTCTCTCC TCAA	TTGTACACAACCCCT TGCG	59.9	563	INTERGENIC	--	--	--
Ca8_P3_1185649	Ca8	1185649	TAGAAGAAGAA/TAGAAGAA	GACTCGCCAACCAAC CATT	ACACATGCTCCATACC ACCA	60.1	282	CDS (large-effect mutations)	Ca_15061	--	--
Ca8_P3_11945711	Ca8	11945711	CAA/CAAAA	TGTGGCAAACAGAGAA GTGA	GATGTCGGCCAAATAC ATCA	57.9	288	INTERGENIC	--	--	--
Ca8_P3_11955442	Ca8	11955442	T/TG	GGCCGATTACTGCTC ACAT	GTTGCCACTTGCGTA AAAT	60.1	430	INTERGENIC	--	--	--
Ca8_P3_11975417	Ca8	11975417	ATTT/ATTTTT	TGATCGAATGAGACAA CAAAAA	AGATGCTAACCCGCGT AGTG	58.3	373	INTERGENIC	--	--	--
Ca8_P3_11975713	Ca8	11975713	CT/C	TATACTCGTGCACTACG CGG	GGATGGAGACAATGAT GAGGA	59.9	135	INTERGENIC	--	--	--
Ca8_P3_11976112	Ca8	11976112	AATAT/AAT	TATACTCGTGCACTACG CGG	TTGTTGGGGTGAACCT AATCG	59.9	663	INTERGENIC	--	--	--
Ca8_P3_11976606	Ca8	11976606	TT/TTAT	CGATTAAGTTCACCCCA ACAA	CTTTGCGCATGAACAT TTGA	59.8	556	INTERGENIC	--	--	--
Ca8_P3_12016131	Ca8	12016131	ACCCC/ACCCCC	CAACTCTCGTCGCAAC TCAA	ATGCAACTTGGGAATT GGAG	60.2	362	INTRON	Ca_23846	T	--

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
Ca8_P3_12048312	Ca8	12048312	TA/TCATGGATCCTACA	TTCCCCCTAAACAGAA CCA	TGGAAGAAGGTGGGAA AGAA	59.4	269	INTERGENIC	--	--	--
Ca8_P3_12048375	Ca8	12048375	ACC/ACCC	TTCCCCCTAAACAGAA CCA	GTTGTTGCTGCCCTTT GTTT	59.4	723	INTERGENIC	--	--	--
Ca8_P3_12072367	Ca8	12072367	GAAAAAAAAA/GAAAAAAAAA	TGGAGAGTTGTGATG TCCC	ACGGGCATCTTGATCT TCTG	60.9	782	INTERGENIC	--	--	--
Ca8_P3_12875576	Ca8	12875576	GGAT/GGATGGAGAT	TGTATGATCGATCTGG GCAA	TGCATGTGCCTCTGA AATG	60.0	731	INTERGENIC	--	--	--
Ca8_P3_12979016	Ca8	12979016	C/CG	ATATGTTGGGGTGAT GGAA	GGGGTCGGACATTAC TAGC	59.9	921	INTERGENIC	--	--	--
Ca8_P3_12979079	Ca8	12979079	TTTA/TTTAATTA	CGTGCACTTAGGGAA GGAT	GGGGTCGGACATTAC TAGC	59.2	873	INTERGENIC	--	--	--
Ca8_P3_12983474	Ca8	12983474	ATTTT/ATTTT	TGCAGATGCACGAATC TCTT	TGCACTAATTTATCGG GACCA	59.6	496	INTERGENIC	--	--	--
Ca8_P3_12983910	Ca8	12983910	TAA/TA	TTGGTCCCGATAAATTA GTGC	GCCCAAGTTAAGACAA CCCA	59.0	442	INTERGENIC	--	--	--
Ca8_P3_12984097	Ca8	12984097	CGTGTGT/CGTGT	AGTGTTAACCGGGATC AAACA	GCCCAAGTTAAGACAA CCCA	59.3	301	INTERGENIC	--	--	--
Ca8_P3_12988606	Ca8	12988606	AG/A	CTCGCTCAAGATTCCA AGG	GTTGTGGGAGGATCGA AAGA	59.9	567	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 (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
Ca8_P3_12990010	Ca8	12990010	CTA/CTATA	TGGCTAATAAATTGTGC CCAT	TCATGTCCCCTCCTTG AATC	59.3	552	INTERGENIC	--	--	--
Ca8_P3_12998724	Ca8	12998724	ATTTTTTTT/ATTTTTTTTTT	TCACACCTCTTCACITT CATGG	CAAAGTTGTTGGGCAA GGTT	60.1	138	INTERGENIC	--	--	--
Ca8_P3_1306762	Ca8	1306762	ATTT/ATT	AATATTTGGCCCCTTGT TCC	GCCTAAACCAAAATCC GAAA	60.0	500	DRR	Ca_15045	--	--
Ca8_P3_13191414	Ca8	13191414	GTTTTTTTTT/GTTTTTTTTTTT	GCGAAAGCGCTTCATT TTAC	ATATAATGCCGACGCT GAGG	60.0	705	INTERGENIC	--	--	--
Ca8_P3_13297997	Ca8	13297997	TA/TAA	AAATTGATTGGATGGT GGGA	AAATGCAGAGGCACCA CTCT	60.0	442	INTERGENIC	--	--	--
Ca8_P3_13298358	Ca8	13298358	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	AGGAGGGGTCCCTGTT TCTA	ACACGAAAATTGCTCA GCCT	59.9	548	INTERGENIC	--	--	--
Ca8_P3_13300326	Ca8	13300326	TTTATTATTATTATTATTATTATTAT TATTATTATTATTAT/TTTATTATTATTAT TATTATTATTATTATTATTAT	CAACCGACGATTATGA ACGA	AGGATGCTCCTATGTG GGGT	59.5	277	INTERGENIC	--	--	--
Ca8_P3_13338881	Ca8	13338881	ATTTTTTT/ATTTTTTTT	TGTGAGGTACCGAGTT CCAA	TTATAACGGGTGGAAA CGGA	59.1	689	INTERGENIC	--	--	--
Ca8_P3_13350881	Ca8	13350881	GATATATATATATATAT/GATATATATAT ATATATAT	AGATTGCCAACTCCATC ACA	AGCCATCTATCTCGTG GGTG	59.1	619	DRR	Ca_20112	--	--
Ca8_P3_1343227	Ca8	1343227	AAAAGAAAGAAAGAAA/AAAAGAAAGAA AGAAAGAAA	TGAGAAATTAAGCTTGT GGGG	CCTTGCCACCTCATCT CATT	59.2	206	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 (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
Ca8_P3_13475871	Ca8	13475871	A/AC	AGGAAGAGTGGAGTTG CGAA	TATTTGGATTTTGGCT CGG	60.0	300	INTERGENIC	--	--	--
Ca8_P3_1355185	Ca8	1355185	CTTTTTTTTT/CTTTTTTTTTT	TTTATTTCCTTCACGTG GGC	ATGTGTTGGGTGGGT CACT	59.9	125	INTERGENIC	--	--	--
Ca8_P3_13757181	Ca8	13757181	ACCCCCCCC/ACCCCCCCC	AATTCAGCTCCTACGA GGCA	GCATTTTGGGCATTTT GATT	60.0	326	INTERGENIC	--	--	--
Ca8_P3_13778712	Ca8	13778712	ATTTT/ATTT	TAGGGGGTTGAGTTGT CAGG	CCAGCTTAGTCCTGGT GAGC	60.0	510	INTERGENIC	--	--	--
Ca8_P3_13799860	Ca8	13799860	CG/CGGAGAAG	GCTTGGAACAGCCTC AGAC	CGGTGCAAACTCTACG TTCA	60.0	402	INTERGENIC	--	--	--
Ca8_P3_13815009	Ca8	13815009	TTA/TAAATAAATA	CACAATTGCCACCAACA CTC	TTTTTGCCACCATTTTC ACA	60.0	220	INTERGENIC	--	--	--
Ca8_P3_13844941	Ca8	13844941	AATATATATATATATA/AATATATATATA TATATA	GGCTCTTCCATCTCCT CAAA	TTTCTTCGAGAGGTCG CTTC	59.4	607	INTERGENIC	--	--	--
Ca8_P3_13852339	Ca8	13852339	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATA	TGGAATGTATGTGTGT GGGG	TCGTGTGTTGTTAAGG CCTATT	60.1	919	INTERGENIC	--	--	--
Ca8_P3_13993624	Ca8	13993624	TTG/T	GCACAATTTGGCAAGA ACAA	TTGGGATTGAGGTTGA GGAG	59.7	455	DRR	Ca_22739	K	--
Ca8_P3_13993907	Ca8	13993907	GTTTTT/GTTTT	CTCCTCAACCTCAATCC CAA	TCACCGGTCAATCAAT TAAAAA	60.0	228	DRR	Ca_22739	K	--

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 (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
Ca8_P3_14035508	Ca8	14035508	GA/GAATA	TGAAATATTTTAAGCAT TCACTGATAA	CATGCCTTCTTGCTTC AACA	57.7	466	INTERGENIC	--	--	--
Ca8_P3_14036987	Ca8	14036987	CATATATATATATATATA/CATATATATA TATATATATA	TCAAAGCTCCCATGGA TACC	TTGTCTTCCTCACTCC CACC	59.9	639	INTERGENIC	--	--	--
Ca8_P3_14064085	Ca8	14064085	CATATATATATATATATA/CATATATATA TATATA	TGTGTGTGTGTGTCCA GAGG	GGTATCCATGGGAGCT TTGA	59.1	804	INTERGENIC	--	--	--
Ca8_P3_14074282	Ca8	14074282	CCGCG/CCG	AAACAAAATCCACCGCA CTC	TAGTTCCAAAGGTGC CAAC	60.0	606	CDS (FRAME SHIFT)	Ca_22744	U	--
Ca8_P3_14076848	Ca8	14076848	CTT/CTTGCTATTTT	CCCAGGCCTATAGTGG TGAA	ACCGGGGATGACATAT CAAA	59.9	491	CDS (large-effect mutations)	Ca_22744	U	--
Ca8_P3_14077202	Ca8	14077202	GA/GATAA	TTGATATGTCATCCCCG GTT	TTCTTTCCACCTTCT TCC	60.0	696	DRR	Ca_22744	U	--
Ca8_P3_14077330	Ca8	14077330	TAGAGAAAAGAAGAGAAA/TAGAGAAA	TTGATATGTCATCCCCG GTT	TTCTTTCCACCTTCT TCC	60.0	696	DRR	Ca_22744	U	--
Ca8_P3_14077398	Ca8	14077398	GA/GAAA	TTGATATGTCATCCCCG GTT	AGCTGCATCTTCCACG ATTT	60.0	940	DRR	Ca_22744	U	--
Ca8_P3_14111238	Ca8	14111238	C/CA	TGAACGGTTGGTCACC ATAA	CACCCCAACCATCAAA TTCT	59.8	419	INTERGENIC	--	--	--
Ca8_P3_14111879	Ca8	14111879	GTTAATT/GTT	GGATTTGATGATCGATT CGG	CAACCAGCAGTAGACG CAAA	60.2	796	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 (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
Ca8_P3_14113684	Ca8	14113684	TAAAAA/TAAAAA	AACACGCCTCACCA CATA	CCAATTCACAAAATCG GTCC	60.0	447	INTERGENIC	--	--	--
Ca8_P3_14119280	Ca8	14119280	ATTTTT/ATTTT	TTGGCCTACCAACCA AAAG	ATCGAGACACCTGAGC GAGT	60.0	947	INTRON	Ca_13048	--	GRAS
Ca8_P3_14119783	Ca8	14119783	ATT/AT	ACTCGCTCAGGTGTCT CGAT	TTGAAAGGCAAGGTG CTCT	60.0	191	INTRON	Ca_13048	--	GRAS
Ca8_P3_14121334	Ca8	14121334	ATAATATTAATATTAATATTAATA/ATAA TATTAATATTAATATTAATATTAATA	AAGCTGAGGCCAAGAC AAAA	TCGTCAGGAATCAAAG ACCA	60.0	280	INTRON	Ca_13048	--	GRAS
Ca8_P3_14122557	Ca8	14122557	CG/C	GCAAGTGAGCTCAACA AAAGC	CTCAGTTGCCTTCCC ATAA	59.9	751	INTERGENIC	--	--	--
Ca8_P3_14124139	Ca8	14124139	GAAAAAAAA/GAAAAAAAA	AAATGCAAGCGCAA AAGT	TGTGGTGCTCTTTGT GACC	59.9	477	DRR	Ca_13047	T	B3
Ca8_P3_14128687	Ca8	14128687	CAA/CA	TTGTTTGAACCGGAC CTC	GAGGATGAATGGGTG TGCT	59.9	537	INTRON	Ca_13047	T	B3
Ca8_P3_14143645	Ca8	14143645	ATTTTTTTT/ATTTTTTTTT	ATGCATGTGAAAGGGA CACA	AAGGGCCCCACTATCA CTTC	60.0	497	DRR	Ca_13045	--	--
Ca8_P3_14145714	Ca8	14145714	GAAAAAAAA/GAAAAAAAA	TGGTTTATGATGATT TTCG	TCTTTGGTCCATTGTA GCCC	58.5	855	INTERGENIC	--	--	--
Ca8_P3_14157701	Ca8	14157701	ATTTTTTTTTT/ATTTTTTTTTTT	CCTTGCATCAACATCAA CCA	TGGTCGTGAGTAGTCA ACGG	60.5	454	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 (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
Ca8_P3_14162735	Ca8	14162735	AC/A	GGGTTTGACCAAGGA GACA	TAATCATGGCAGGTG TTTG	59.9	308	INTERGENIC	--	--	--
Ca8_P3_14169862	Ca8	14169862	CAAAAAA/CAAAAA	TGGATGAGGCCTAATT GTTG	TTTTCAGCAACCGGTA ATTTT	58.6	248	INTERGENIC	--	--	--
Ca8_P3_14182954	Ca8	14182954	ATTTTTTT/ATTTTTT	CGTAGAGGCATCAACA CTCG	GAAGGTGCTTTGTTGT TTGGA	59.5	601	INTERGENIC	--	--	--
Ca8_P3_14183582	Ca8	14183582	GTATATATATA/GTATATATATA	GACAATCAATTCGACG ACCA	TGCAATGGTTGCAAAC CTAA	59.5	320	INTERGENIC	--	--	--
Ca8_P3_14189711	Ca8	14189711	CG/C	AAGCCCTTGATATCC CACT	AGATGCATCACGCAAC TTGA	59.8	792	INTERGENIC	--	--	--
Ca8_P3_14218237	Ca8	14218237	A/AT	TCTCCACAAATGCAAG GAAA	AAGCCTGGCCCACTA ATTT	59.2	465	INTERGENIC	--	--	--
Ca8_P3_14238943	Ca8	14238943	TAAAAAAAAA/TAAAAAAAAA	ACTTGCGAATTCCAAAG CAT	ACAGATTACGATCCGT GGCT	59.7	719	INTERGENIC	--	--	--
Ca8_P3_14244514	Ca8	14244514	CAAA/CAA	ATCTTAAGCATCCCCCT CGT	TCAATGGTGTCCATCC CTTT	59.9	670	INTERGENIC	--	--	--
Ca8_P3_14244549	Ca8	14244549	CTTTT/CTTTT	ATCTTAAGCATCCCCCT CGT	TCAATGGTGTCCATCC CTTT	59.9	670	INTERGENIC	--	--	--
Ca8_P3_14252510	Ca8	14252510	C/CG	AATCTATATGCACCGCC GAC	CGCAACATTTCATAA CTGC	60.0	547	INTRON	Ca_13038	--	--

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 (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
Ca8_P3_14252567	Ca8	14252567	A/AC	AATCTATATGCACCGCC GAC	ATCGGCTACATGGACC AAAC	60.0	855	INTRON	Ca_13038	--	--
Ca8_P3_14256819	Ca8	14256819	TATC/TATCATC	GGTGAAGCTTATTCGC AAGG	GCAACCAGCACATGAT TTGT	59.8	566	DRR	Ca_13037	O	MYB_related
Ca8_P3_14257165	Ca8	14257165	GTT/GTTCAGACCTTT	AGGCCCGAGATGAAC GTAT	TGGTTTGCTTTTAAGC GAGG	59.7	824	DRR	Ca_13038	--	--
Ca8_P3_14257562	Ca8	14257562	ATTTTTTTTTTT/ATTTTTTTTTT	CCTCGCTTAAAGCAAA CCA	GAGTGGCGAAACCCTA ATGA	60.4	437	DRR	Ca_13037	O	MYB_related
Ca8_P3_14264326	Ca8	14264326	GATATATATA/GATATATA	GTTGGTTGGATTGATT GGG	TGAAACCCACGCACAT TAAA	60.0	406	INTERGENIC	--	--	--
Ca8_P3_14264501	Ca8	14264501	TAGAGAGAGA/TAGAGAGA	GTTGGTTGGATTGATT GGG	TGAAACCCACGCACAT TAAA	60.0	406	INTERGENIC	--	--	--
Ca8_P3_14264664	Ca8	14264664	C/CAA	TTGGTTGGATTGATTTG GGT	GGCAACTAAGTTTCTC GTTTGG	60.0	572	INTERGENIC	--	--	--
Ca8_P3_14264923	Ca8	14264923	AAGTTAGTTAG/AAGTTAG	TTTAATGTGCGTGGGT TTCA	CCACACAAAAACGAAA AACAAA	60.0	732	INTERGENIC	--	--	--
Ca8_P3_14268301	Ca8	14268301	CAATTT/C	TGAATTGTGCATCACAC CAA	CATTCCCTTTTCCCAAA CAA	59.5	774	INTERGENIC	--	--	--
Ca8_P3_14289220	Ca8	14289220	CGTGT/CGTGTGTGTGT	CCAAATGCCACTAAGC CAAT	TCACCAAGTCAAGTGC CTCT	60.0	424	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
Ca8_P3_14289620	Ca8	14289620	TAAAAAAAA/TAAAAAAA	TGTAAGTTGGAGGGC GTGT	GAAATGACACAATGG TATGCCT	60.6	598	INTERGENIC	--	--	--
Ca8_P3_14290310	Ca8	14290310	AATA/AATATA	TACTCCATTTTGGTGTG GCA	CGATGTGGACATGAGA TTGAA	60.0	519	INTERGENIC	--	--	--
Ca8_P3_14291937	Ca8	14291937	CT/C	TTCAAACGGTGTCTTA TGCC	CCTTCCCACTTTACAA CGTCA	60.0	388	INTERGENIC	--	--	--
Ca8_P3_14292048	Ca8	14292048	GTTT/GTT	TTCAAACGGTGTCTTA TGCC	CCTTCCCACTTTACAA CGTCA	60.0	388	INTERGENIC	--	--	--
Ca8_P3_14292294	Ca8	14292294	TTATAT/TTAT	ACGTTGTAAAGTGGGA AGGC	TCGATCAAGATTCGTC TTCAA	59.1	136	INTERGENIC	--	--	--
Ca8_P3_14305656	Ca8	14305656	TAAAAAAAA/TAAAAAAAAA	CCTCCATAAGCCTCTG CATC	TTGGCATTGTTTGCA CATT	59.8	383	INTERGENIC	--	--	--
Ca8_P3_14306794	Ca8	14306794	ATT/AT	TATTGAACCTGGGGAG GCTG	CCCTTTAAATGTGGCA AAAA	60.1	839	INTERGENIC	--	--	--
Ca8_P3_14306985	Ca8	14306985	GTTT/GTT	TCAGCATGCACCATCT AGG	ACTTTGTTGCTGCCCA TGTT	59.8	776	INTERGENIC	--	--	--
Ca8_P3_14307909	Ca8	14307909	TAATCACAATCACAATCACAATC/TAAT CACAATCACAATC	GCAATGAAGAGTGACC TGACC	TCTCCATTCAACATTG CCA	59.7	511	INTERGENIC	--	--	--
Ca8_P3_14313824	Ca8	14313824	A/AAT	AGGAGGTTGTAATGGG GAACT	TGGATTTTGTGTGGG AAAA	58.8	931	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
Ca8_P3_14313920	Ca8	14313920	ATTTTTTT/ATTTTTTTT	TTATGCAAGACAGATT CAAACCT	TGTCGATAAGTTGCGT TGGA	57.3	892	INTERGENIC	--	--	--
Ca8_P3_14319609	Ca8	14319609	A/AG	CCTTGATGCACCATGC TAGA	GTCATTTTCGGTGCAA TGTG	59.8	257	INTERGENIC	--	--	--
Ca8_P3_14319629	Ca8	14319629	CAAAAA/CAAAAAA	CCTTGATGCACCATGC TAGA	GTCATTTTCGGTGCAA TGTG	59.8	257	INTERGENIC	--	--	--
Ca8_P3_14320978	Ca8	14320978	TG/T	TGATGCTTTGGTTTCAT GTCA	TCCCAAACAACCTCAATT CCA	60.1	359	DRR	Ca_13032	Z	MYB_related
Ca8_P3_14330681	Ca8	14330681	CAAAAAAA/CAAAAAA	CGTCGAGGATCTTTCTT TTGA	AATAGGGGGACCAAAA CTGC	59.4	471	DRR	Ca_13031	--	--
Ca8_P3_14334449	Ca8	14334449	AC/A	CAATAGCCGTGTTGAA ATGC	ACAACACCTTTGGTTC CAGC	59.2	468	INTRON	Ca_13031	--	--
Ca8_P3_14334675	Ca8	14334675	GCTGATTCTGATTCT/GCTGATTCTGAT TCTGATTCTGATTCT	GCTGGAACCAAAGGTG TTGT	GAAGTCCCTGCAATA TGGT	60.0	232	CDS (large-effect mutations)	Ca_13031	--	--
Ca8_P3_14338122	Ca8	14338122	CAGA/CAGAAGA	TGTAAAGGTGACACGT TGATGA	CCATTAAGGGCCCAT CTAT	59.1	375	INTERGENIC	--	--	--
Ca8_P3_14345258	Ca8	14345258	AAATTGAAAGAA/AAA	TTTCCAACCTCCAGCTC AAC	GCAAGTCGTGGAGAA ACAT	60.2	726	INTRON	Ca_13030	T	bHLH
Ca8_P3_14349048	Ca8	14349048	TAAAAAAAAA/TAAAAAAAAA	GATTTTGGATGAAGGA GGCA	TCTTAACGAAACTGCG CATA	60.0	663	DRR	Ca_13029	--	--

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 (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
Ca8_P3_14358465	Ca8	14358465	CAAAAAAAAA/CAAAAAAAAA	TCACCCATGTGAGAAG AGGA	AAACCCAATTCCATCA GCAC	59.2	380	INTERGENIC	--	--	--
Ca8_P3_14364887	Ca8	14364887	AA/AATA	TGGAAGTGTGGTGGT TTGA	TCATGACCCAACATG GCCT	60.0	568	INTERGENIC	--	--	--
Ca8_P3_14365858	Ca8	14365858	A/AC	CCAGCCCAACAGGAA TTTA	CCTTTGTTCTGCACC CATT	59.9	476	INTERGENIC	--	--	--
Ca8_P3_14366555	Ca8	14366555	GAAA/GAAAAA	AATGGGTGCAAGAACA AAGG	AAGCGCTGTAAAGGT GCAT	60.0	911	INTERGENIC	--	--	--
Ca8_P3_14367989	Ca8	14367989	ATTTTTTT/ATTTTTTTT	GGTTTTCCAGCACATCA ACA	TTGGTGAGGCAACAT TCAA	59.5	951	INTERGENIC	--	--	--
Ca8_P3_14368024	Ca8	14368024	CTT/CTTT	TTCCCTTCATCTTCCAC ACC	TTGGTGAGGCAACAT TCAA	59.9	459	INTERGENIC	--	--	--
Ca8_P3_1436868	Ca8	1436868	ATTTTTTTTT/ATTTTTTTTT	TTGTGGTCATAACAGA GCCG	AAGGCGAGTTCTGGTA GCAA	59.7	195	DRR	Ca_15030	--	--
Ca8_P3_14370547	Ca8	14370547	TAA/TAAAAA	GGCCAATCAATTTTGA TGC	TGGGAGATTGGAGCAT GATT	60.3	590	INTERGENIC	--	--	--
Ca8_P3_14371157	Ca8	14371157	A/AAAT	CATGCTCCAATCTCCCA TCT	AACCCGTCAACCTGTT CTTG	60.0	591	INTERGENIC	--	--	--
Ca8_P3_14373850	Ca8	14373850	AGAAAATGAAAATGAAAA/AGAAAATGA AAATGAAAATGAAAATGAAAA	GGAAATTGGCGTGTG ACTT	GTTTCGTTGTTGTGGC AATG	60.0	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 (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
Ca8_P3_14404073	Ca8	14404073	GTTTTTTTTT/GTTTTTTTTT	AGATGTGTGATTGGGC CTTC	CCACTCCCTTTGTAGC ATCA	59.9	597	INTERGENIC	--	--	--
Ca8_P3_14408373	Ca8	14408373	TAAAAAAAA/TAAAAAAAA	GTTTGGCACCCCTACA CAC	GTCCCGTGAAGACTTT CAGC	60.3	684	INTERGENIC	--	--	--
Ca8_P3_14408424	Ca8	14408424	AT/A	GTTTGGCACCCCTACA CAC	GTCCCGTGAAGACTTT CAGC	60.3	684	INTERGENIC	--	--	--
Ca8_P3_14438841	Ca8	14438841	G/GACCTT	CCACCACCTGAAACCT TTGT	AAATACACAGCGACG AGGC	59.9	234	DRR	Ca_13023	J	MYB
Ca8_P3_1452383	Ca8	1452383	CAAAAAAAAA/CAAAAAAAAA	TTGCAAGGGAAGGAAA CAAC	CGGGCTACCTAGAATC CCTC	60.1	561	INTERGENIC	--	--	--
Ca8_P3_14568257	Ca8	14568257	TAAAAAAAA/TAAAAAAAAA	AACGCGCGGGTTATAT TCTA	GGCAAAGGTTTTTGC AATC	59.6	599	INTERGENIC	--	--	--
Ca8_P3_14574261	Ca8	14574261	AGTG/AGTGTG	GTGGAATGGTGTGAAA GGGT	TAGCCAGAGAACAACC CTCC	59.7	520	DRR	Ca_13010	--	--
Ca8_P3_14575172	Ca8	14575172	CAAAAAAAAA/CAAAAAAAAA	TGATTGGAGGGTTGTT CTCTG	TACAAGCCAATCACCC ACCT	60.1	622	INTERGENIC	--	--	--
Ca8_P3_14576894	Ca8	14576894	ATTTTTT/ATTTTTT	TTTGTTTGGTGGTTGA TCATT	AGCAGCTCCAGAATTG ACTTG	59.2	923	DRR	Ca_13009	Z	MYB_related
Ca8_P3_14578127	Ca8	14578127	AA/AATCA	TCGCTCGATTCTTCGT CTT	TTTGCTGAAAGGGTTT CTGG	60.1	481	INTRON	Ca_13009	Z	MYB_related

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
Ca8_P3_14583961	Ca8	14583961	AT/ATATT	GTTGAAATACGCCGCT CAAT	TGGATCTGCGAACAAA CTCA	60.1	778	INTRON	Ca_13009	Z	MYB_related
Ca8_P3_14585460	Ca8	14585460	TCC/T	TCCAACATCCCTAGCTT CTGA	ATGCGAAAGCGACAAT CAAT	59.8	336	INTERGENIC	--	--	--
Ca8_P3_14586379	Ca8	14586379	TG/TGG	ATGCATCGCCTAAAC CATC	GACACATGACAAGCAC CCAC	59.9	663	INTERGENIC	--	--	--
Ca8_P3_14601274	Ca8	14601274	TAAA/TAAAAAA	CTCCACCGGATGATTTT GAT	CCACACAGACCCATT GAGA	59.8	510	INTRON	Ca_13007	C	--
Ca8_P3_14601586	Ca8	14601586	TG/TGG	CAACACGTGGTATTGG TTGG	CAGCTTATTTCCACAA GCCC	59.7	751	INTRON	Ca_13007	C	--
Ca8_P3_14602699	Ca8	14602699	TG/T	TGGGCATTCCATTTTC ATT	ATCATTGCGATTCAAC TGCC	60.1	662	INTRON	Ca_13007	C	--
Ca8_P3_14602937	Ca8	14602937	ATTTT/ATTT	GCCAGTTGAATCCGAA TGAT	ACACTTTTGTTTGCAA GCCC	59.9	141	DRR	Ca_13007	C	--
Ca8_P3_14602978	Ca8	14602978	TAA/TAAA	GCCAGTTGAATCCGAA TGAT	ACACTTTTGTTTGCAA GCCC	59.9	141	DRR	Ca_13007	C	--
Ca8_P3_14609307	Ca8	14609307	AT/ATATGAAGGGTAATTT	GAAGGGAAAATAGAGG AGCAAA	CTCATGTGCAATTGGA GAGACT	58.9	700	INTERGENIC	--	--	--
Ca8_P3_14610943	Ca8	14610943	CG/CGGTTTGAG	GGCGGTCCTCTTAA AATC	ATTCAGCCACATTTAAC CGC	59.9	477	INTRON	Ca_13006	K	C3H

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 (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
Ca8_P3_14616352	Ca8	14616352	GAAAAAAAA/GAAAAAAAA	CCGGTTTTACTGGGAA ATCA	CAAAGCATGTAGATGG CAACA	59.8	359	DRR	Ca_13006	K	C3H
Ca8_P3_14624601	Ca8	14624601	ATTTTTTTT/ATTTTTTTT	CCCCCACCATTACATT CAC	TGTTGGAAGTGTGAC GCAC	59.9	692	DRR	Ca_13005	U	--
Ca8_P3_14625517	Ca8	14625517	AATAGAGATAGAGATAGAGA/AATAGA GATAGAGA	AAACTGGGTTCTGTGG AGTG	CAGCACCAAGCAAAAG ATCA	60.0	677	INTERGENIC	--	--	--
Ca8_P3_14636009	Ca8	14636009	GATATATATATATATATATATATAT/G ATATATATATATATATATAT	TTTGCAGGAAGCAAAC ACTG	GGATAATCCGGGATGC CTAT	60.0	587	INTRON	Ca_13004	--	--
Ca8_P3_14640631	Ca8	14640631	GATATATATATATATA/GATATATATA TATA	TTTTCTGTGACTGCACC GAG	AAATGTTGAGGGTGCC AAAG	60.0	588	INTRON	Ca_13004	--	--
Ca8_P3_14643624	Ca8	14643624	CAAAAAAAAA/CAAAAAAAAA	AGCAAATCTTGAAGG GACG	CAATGGGAGTTTGTGG TGTG	59.3	638	DRR	Ca_13004	--	--
Ca8_P3_14644248	Ca8	14644248	AT/ATT	CACACCACAACTCCC ATTG	CACTAAGAACATGGGT GGGG	59.8	843	INTERGENIC	--	--	--
Ca8_P3_14645402	Ca8	14645402	AG/AAATAATTATAAATG	TTTGAGAATCAATGTCA TATCCG	GGACCCTAAGCATTCT GTGC	59.0	568	INTERGENIC	--	--	--
Ca8_P3_14647157	Ca8	14647157	GTTT/GTTTT	TTGCTTGTCATGACGT AGG	TCTGCAACGAAGATTA AACCAA	59.7	297	INTERGENIC	--	--	--
Ca8_P3_14655036	Ca8	14655036	CAA/CAAGAAATAAA	GGTAGTACCGCACATG CAAA	GGAGTAGTGGACAGA GGCCA	59.6	694	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
Ca8_P3_14656534	Ca8	14656534	CAAAA/CAAAAAA	CCACAAGATGGGAAAT TTGG	TCTCCAGCATCCACTA GCCT	60.2	174	INTERGENIC	--	--	--
Ca8_P3_14656948	Ca8	14656948	AC/A	AGGCTAGTGGATGCTG GAGA	TGAAGCAACTTTTGTT GGGA	60.0	660	INTERGENIC	--	--	--
Ca8_P3_14661963	Ca8	14661963	AT/A	TGTTGTTGTGAAATCGA CGAA	TGTTAGGTGGCCAAAG GAAG	60.1	399	INTERGENIC	--	--	--
Ca8_P3_14662010	Ca8	14662010	GTTTTTT/GTTTTTTT	TGTTGTTGTGAAATCGA CGAA	TGTTAGGTGGCCAAAG GAAG	60.1	399	INTERGENIC	--	--	--
Ca8_P3_14662220	Ca8	14662220	GTTTTTTTTTTT/GTTTTTTTTTTT	CTTCCTTTGGCCACCTA ACA	TTTAAATGCACTTTTGA TTCTCC	60.1	617	INTERGENIC	--	--	--
Ca8_P3_14665010	Ca8	14665010	TAAAAAA/TAAAAAAA	AATCTCAAGCAAAGCC GAAA	AATATCAGGGGCATCA AGGA	60.0	636	INTERGENIC	--	--	--
Ca8_P3_14666833	Ca8	14666833	GTTTTTT/GTTTTTTT	ATGGCCGTTTTGAACAA CAT	CTTGTTGCGGATGAGA GACA	60.2	589	INTERGENIC	--	--	--
Ca8_P3_14668208	Ca8	14668208	GTTTTTTTTT/GTTTTTTTTT	AGTGATCAGCTCATTTG GGG	CATCATCTTTGTGACC CACG	60.1	538	INTERGENIC	--	--	--
Ca8_P3_14668729	Ca8	14668729	TGGGG/TGGG	CGTGGGTCACAAAGAT GATG	TGCTCTCATCCCTTGT TTTG	60.0	861	INTERGENIC	--	--	--
Ca8_P3_14668906	Ca8	14668906	CTTTTTTT/CTTTTTTT	TTTAGGGCTTCGTAC ATCA	CGAGTGCATGAACAAT TTGG	59.3	856	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
Ca8_P3_14668956	Ca8	14668956	ATTTTTTTTT/ATTTTTTTTTTTTT	TGCAATGTCATGATACG GTG	CGAGTGCATGAACAAT TTGG	58.9	608	INTERGENIC	--	--	--
Ca8_P3_14670474	Ca8	14670474	ATT/ATTT	CACACCTAACCCACAAT CCA	AGTCCCCATTGGAGAT GCTA	59.3	412	INTERGENIC	--	--	--
Ca8_P3_14670812	Ca8	14670812	GTTTTTTTTT/GTTTTTTTTT	AGCATCTCCAATGGGG ACTT	AAAGGATCAAATCGGG AAGG	60.9	561	INTERGENIC	--	--	--
Ca8_P3_14671445	Ca8	14671445	TAAAAAAAA/TAAAAAAAA	CCTTCCCGATTGTATCC TTT	TCGACAACCTACATTC ATCATCC	60.3	831	INTERGENIC	--	--	--
Ca8_P3_14675379	Ca8	14675379	TCCC/TCC	CAATCTCCTCTTCT TCCC	GTCGTGGCATTGGAA AGTT	59.2	368	INTERGENIC	--	--	--
Ca8_P3_14681107	Ca8	14681107	GAAAAAAAAA/GAAAAAAAAA	TGGATTGTCAAACGAG ACCA	GTCGGTGGAATCCTCC ATTA	60.1	596	INTERGENIC	--	--	--
Ca8_P3_14684999	Ca8	14684999	CTTTTTTT/CTTTTTTTTT	TTTtagAGGTGTCACGT AAACACAA	TGTGACTCGTGTGAAT GCTG	60.0	523	INTERGENIC	--	--	--
Ca8_P3_14691212	Ca8	14691212	TTATAT/TTAT	TCCTAAATCACCTTTG AAGAGA	TTGAAGAAGATGGGAG GGTG	59.3	860	INTERGENIC	--	--	--
Ca8_P3_14692314	Ca8	14692314	TAA/TAAA	CCTCCTGGTACCACAA AGGA	GCTCCAACTTGATTT CCC	60.0	815	INTRON	Ca_13001	--	--
Ca8_P3_14700801	Ca8	14700801	GAAAAAAAAA/GAAAAAAAAA	CGAAGTACAACAAGGG CAAA	TGTGCTCCCCATCTTT TCTT	58.8	138	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
Ca8_P3_14705254	Ca8	14705254	AATTTTATTTTAT/AATTTTAT	TAGAGGGACCAAACT GCAA	CCAGGCGTAATTTGG AAAC	58.4	366	INTRON	Ca_12998	R	SBP
Ca8_P3_14709477	Ca8	14709477	GTAATTAATTAATTAATTAATTAA/ GTAATTAATTAATTAATTAA	TGCAACTTGATGCGAT CATT	GGGGAGCTAGCAAGTA GCAA	60.2	300	DRR	Ca_12998	R	SBP
Ca8_P3_14718012	Ca8	14718012	CA/CAA	TGCCAACATTGAGGAG AAAA	GCCGTTCAAGACAATG ATTT	59.2	498	DRR	Ca_12997	T	--
Ca8_P3_14725378	Ca8	14725378	TA/TAA	TGTTACGGAAGTTCGA CCAA	GTCTTGATGTGCCTGA CTGC	60.3	351	INTRON	Ca_12995	O	NAC
Ca8_P3_14727145	Ca8	14727145	TA/TAA	CATTGTGAAGTGTGAG TGGA	TTGGTTAAGGTGTTA TGATTGG	59.6	690	INTRON	Ca_12995	O	NAC
Ca8_P3_14727530	Ca8	14727530	GAAAAAAAA/GAAAAAAAAA	CCAATCATAACCACTT AACCAA	TGAGTCGTGCAATTT GATTC	60.0	470	INTRON	Ca_12995	O	NAC
Ca8_P3_14727846	Ca8	14727846	ACTCTC/ACTCTCTC	CCAATCATAACCACTT AACCAA	CACCTGTATGATGGTT CACCC	60.0	758	INTRON	Ca_12995	O	NAC
Ca8_P3_14734084	Ca8	14734084	CAAAAAAAAA/CAAAAAAAAA	AACTAACAGTTGGGCG ATTGA	CCTTCAAACCTTGTC CAAA	59.6	716	INTRON	Ca_12995	O	NAC
Ca8_P3_14735280	Ca8	14735280	A/AG	CGTGTGGCTAGAGTTG ACCTT	GGTGAAAAGGATTGG GTTT	59.4	739	INTRON	Ca_12995	O	NAC
Ca8_P3_14746470	Ca8	14746470	TAAAA/TAAAAA	AACATGGAAATCCGA CTGC	TGTGTTTGGTTGGTG AAGC	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 (°C)	Expected 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_P3_14764445	Ca8	14764445	TGG/TG	GGCATCATAGTGTGAG ACCAA	ACGCGCCAGAAATATA AACG	58.6	609	INTERGENIC	--	--	--
Ca8_P3_14768360	Ca8	14768360	CAAAAAA/CAAAAAA	TAATCGATCACCCGAC CATT	TTGGGACTGGTGAAAG GGTA	60.2	621	DRR	Ca_12991	O	SRS
Ca8_P3_14770833	Ca8	14770833	ATTTTTTT/ATTTTTTTT	TAAGGAGTTGGGTGCT TGCT	TTTGCCAAACACTGT AAAATGA	59.9	461	INTERGENIC	--	--	--
Ca8_P3_14773326	Ca8	14773326	ATTTTTTT/ATTTTT	TGCTTGAACCAAAACC CTTC	TCGTGTGGTCAATGAT CTCC	60.1	341	INTERGENIC	--	--	--
Ca8_P3_14776665	Ca8	14776665	T/TTAA	CCAACCTGGTGGTTG GTCT	GCTTGGGGTTTGTA TACG	60.0	583	INTERGENIC	--	--	--
Ca8_P3_14776722	Ca8	14776722	A/AT	CCAACCTGGTGGTTG GTCT	GCTTGGGGTTTGTA TACG	60.0	583	INTERGENIC	--	--	--
Ca8_P3_14777279	Ca8	14777279	AATA/AA	CGTATTACAAACCCCA AGC	GGTGCCACATATAATG CCAA	59.3	784	DRR	Ca_12990	--	--
Ca8_P3_14778439	Ca8	14778439	TAAAAAAAA/TAAAAAAAA	ATTCGCTTCGCAATC AGT	TTGATGCTGAAGACCA TTGC	59.9	677	DRR	Ca_12990	--	--
Ca8_P3_14778538	Ca8	14778538	T/TC	ATTCGCTTCGCAATC AGT	TTGATGCTGAAGACCA TTGC	59.9	677	DRR	Ca_12990	--	--
Ca8_P3_14780556	Ca8	14780556	TAAAAAAAA/TAAAAAAAA	CTCCAACAACCACCA CCTT	GTCCATGACGTGTAC CGTA	59.9	531	INTRON	Ca_12990	--	--

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
Ca8_P3_14793856	Ca8	14793856	CATATATATATATATAT/CATATATATAT ATATATATAT	TCAACCCACCTTTATGA GCA	AGCCACCGTGACTTAG GTTG	59.1	450	INTERGENIC	--	--	--
Ca8_P3_14795040	Ca8	14795040	TAAAAAAAAA/TAAAAAAAAA	ATCAGTCATGTTGTG GCAA	TTGCGACTATGGCTTC CTTT	60.0	826	INTERGENIC	--	--	--
Ca8_P3_14798772	Ca8	14798772	GAAAAAA/GAAAAAA	CCTTCACCACTACTCC CAA	TACATGGACAACACAT GCCC	60.0	542	INTERGENIC	--	--	--
Ca8_P3_14813261	Ca8	14813261	TATTAATAAAAT/TATTAATAAAATGATT AATAAAAT	GAGCTTGTAATCCTCC CTCA	AATTGGAACCAACAG TGCG	58.4	720	INTERGENIC	--	--	--
Ca8_P3_14814628	Ca8	14814628	CATA/CATAGAAAATA	TTTCAAAGCTAACTCGA AAATGG	TTCTCCTTGGTGCTTC TCCA	59.8	651	INTERGENIC	--	--	--
Ca8_P3_14821532	Ca8	14821532	T/TC	GCATTGATTTACCAATT CCC	CATAGTCGGGTCGACC TTGT	60.1	457	INTRON	Ca_12987	D	bHLH
Ca8_P3_14900024	Ca8	14900024	CTAATAATAATA/CTAATAATAATAATA TA	AAATGACATAATCGCAA TGAAAA	CGTGGACTTTTTGT CAAATG	58.6	561	INTERGENIC	--	--	--
Ca8_P3_14922109	Ca8	14922109	GTTTTTTTT/GTTTTTTTT	CTCCCAACTCCTCCAC ACAT	GAGTTTGTGTCAGCG AGCA	60.0	569	INTERGENIC	--	--	--
Ca8_P3_14924927	Ca8	14924927	GAAAAAAAAA/GAAAAAAAAA	AGCCACCATGACGAAA AGTC	GTCTCGTCAACATTC GACA	60.1	484	DRR	Ca_12980	P	MIKC
Ca8_P3_15014134	Ca8	15014134	TAAAAAAAAA/TAAAAAAAAA	CATCTGCAAAAGAAAATA ATGCG	TGCACATGATGAGTGA GGGT	59.8	787	DRR	Ca_12971	--	--

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
Ca8_P3_15048107	Ca8	15048107	TAAAAAAAAA/TAAAAAAAAA	ATGGCGGATATTCAAA CCAA	TTGTTGAGATCCCTCT CTTGC	60.2	627	INTERGENIC	--	--	--
Ca8_P3_15059817	Ca8	15059817	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	CTTCAAGGATTCACTG CCC	TACATGGGGAAAACCC ATTG	59.7	345	INTERGENIC	--	--	--
Ca8_P3_15162330	Ca8	15162330	TTAATAATAATAATAATAA/TTAATA ATAATAATAATAA	TTTCGTCGTGAGGTCC AGTG	GGGAAACCCACCTCTT GATT	59.7	757	INTERGENIC	--	--	--
Ca8_P3_15177027	Ca8	15177027	GTTTTTTTTT/GTTTTTTTTT	CCAAACGCATTATGGT CAACT	CATTGTCTTGACACC TGTGTTT	59.9	714	INTERGENIC	--	--	--
Ca8_P3_1524117	Ca8	1524117	ATTTTTTTTT/ATTTTTTTTT	TTCAATTGTATGGGCAA GGA	GTGAAGGAGCACGCAT GTAA	59.0	276	INTERGENIC	--	--	--
Ca8_P3_15267175	Ca8	15267175	TAA/TAAA	TGCTCATCACGTTGAA GTAACAT	GGTTCGAATTGCCTTT TGTT	59.7	604	INTERGENIC	--	--	--
Ca8_P3_15295030	Ca8	15295030	TT/TTAAAAT	ACGCATACTGGTCCTC ATCC	GTCCACTGTGCCACAT CATC	60.0	558	INTERGENIC	--	--	--
Ca8_P3_15313993	Ca8	15313993	ACC/ACCTCC	TGTTGTGGAGTTCTAG GGGC	TGGACCTTTTGGTCC TTCT	60.1	180	INTERGENIC	--	--	--
Ca8_P3_15403056	Ca8	15403056	C/CT	AGACATCACATGGGCT CCTC	TCTGCAATTGCTGTGT TGTTG	60.1	722	DRR	Ca_17901	R	Trihelix
Ca8_P3_15439013	Ca8	15439013	CTTTTTTTTT/CTTTTTTTTT	GCTAAATTACATTCGTG GTCCC	TTTCATCAAATCCGTAA CACAAA	59.7	155	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
Ca8_P3_15492265	Ca8	15492265	CTATTATTATTATTATTATTATT/CT ATTATTATTATTATTATTATTATT	CCGATTGATTGGGGTC TATG	GGATATATGCGGATGC GAGT	60.1	562	INTERGENIC	--	--	--
Ca8_P3_15508	Ca8	15508	G/GAAT	ACACGTGTGCAAAGTG CAA	TTTTACGGGTACCTG GTCG	59.9	386	INTERGENIC	--	--	--
Ca8_P3_15512464	Ca8	15512464	ATTTTTTTTT/ATTTTTTTTT	AGAATCAAATTGGTGC CTGG	TGTTGGTTTCCTGTGG ATGA	59.9	300	INTRON	Ca_17891	--	MYB_related
Ca8_P3_15577472	Ca8	15577472	TCATGCATG/TCATG	CAACTCATCGCGATCT CAAA	CCCAAATGGGATGTAT CCTG	59.9	609	INTRON	Ca_17886	T	EIL
Ca8_P3_15577896	Ca8	15577896	CCA/CCATCA	TTTTCAGCAAACCCAA AAG	TAGAGGCTTGTCATTC GGCT	60.1	665	CDS (large-effect mutations)	Ca_17886	T	EIL
Ca8_P3_15580121	Ca8	15580121	A/AATTTAATTT	TCCTCAATTTTGACAC ACG	TGGACACCACACTTCA AATCA	59.8	657	INTERGENIC	--	--	--
Ca8_P3_15602283	Ca8	15602283	TTATATATATATATATAT/TTATATAT ATATATATATATATAT	TTTCCATTGCACTCACT CCA	CAGCCTAAGTCTGGCC TACG	60.2	785	INTERGENIC	--	--	--
Ca8_P3_15681686	Ca8	15681686	T/TTATGAG	GCCCAACAACAGAACC AAGT	GAAAGCGCTCACTATC CTGG	60.0	618	INTERGENIC	--	--	--
Ca8_P3_15685037	Ca8	15685037	AAAA/AAAAAAA	TGCCAGGATGTAACCC TTTC	ACTTGGTTCTGTTGTT GGGC	59.9	177	INTERGENIC	--	--	--
Ca8_P3_15685177	Ca8	15685177	AGG/AG	GCCCAACAACAGAACC AAGT	GACTCCAAAACCTGT GCAT	60.0	420	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 (°C)	Expected 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_P3_15876283	Ca8	15876283	TGACA/TGACACGGACA	ACAGACACAGCCACAT GAGC	GTTTGCCTGTATTTC CATT	59.9	595	INTRON	Ca_17857	T	CAMTA
Ca8_P3_15876633	Ca8	15876633	TAAAAAAAA/TAAAAAAAAA	AATGGAATACAGCGC AACC	ACACGACGAAGTTTG GTTC	60.0	487	INTRON	Ca_17857	T	CAMTA
Ca8_P3_15879802	Ca8	15879802	TATATATA/TATATATAGATATATA	TACGTGCGACAGAAAG AAGC	TTCAAAAAGGCATAGG GTTGA	60.1	233	INTERGENIC	--	--	--
Ca8_P3_15880009	Ca8	15880009	CAAAAA/CAAAAA	TACGTGCGACAGAAAG AAGC	TGCCACTTGATACAA CAAAA	60.1	523	INTERGENIC	--	--	--
Ca8_P3_15880987	Ca8	15880987	CAAAA/CAAA	TTATTAGGACGGGCAA CAGC	TCATTCTTGCGTCTC CCTT	60.1	518	INTERGENIC	--	--	--
Ca8_P3_15881213	Ca8	15881213	AC/ACC	TTATTAGGACGGGCAA CAGC	ACCGTTGAGAATTGAG TGGC	60.1	903	INTERGENIC	--	--	--
Ca8_P3_15892397	Ca8	15892397	CTCGTATGATTCGTATGATTC/CTCGTA TGATTC	CTTCCTTCATGAGCTG CCTC	CGATGATTCATTCCCA AACC	60.1	650	INTERGENIC	--	--	--
Ca8_P3_15892786	Ca8	15892786	AAAGA/AAAGAAGA	AGCAGTTGAACCTGCC TCGT	CGATGATTCATTCCCA AACC	60.1	513	INTERGENIC	--	--	--
Ca8_P3_15896133	Ca8	15896133	TCCCC/TCCCC	CAAAGAGTGATGGGCC ATTT	TTTCAAGACACACCA CACCA	59.9	474	INTERGENIC	--	--	--
Ca8_P3_15918628	Ca8	15918628	CAAAAA/CAAAAAA	GAACCTTATGTCTGGG GGCA	GAGTCAACTTGTCTGA GGGC	59.9	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 (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
Ca8_P3_15920083	Ca8	15920083	TAAAAA/TAAAAAAA	CCAATTCGTAAGCGTT TTG	ACTCAGAAAAATGGCA ACCG	60.5	344	INTERGENIC	--	--	--
Ca8_P3_15925485	Ca8	15925485	TAAAAAAA/TAAAAAAA	GCTTGATTCTTTGTGG GGA	AGCACTGCATTTCTC ACCC	60.1	650	INTERGENIC	--	--	--
Ca8_P3_15925559	Ca8	15925559	TAAAAAAA/TAAAAAAA	GCTTGATTCTTTGTGG GGA	AGCACTGCATTTCTC ACCC	60.1	650	INTERGENIC	--	--	--
Ca8_P3_15925648	Ca8	15925648	TAAATGAAAAAT/TAAATGAAAAATG AAAAAT	GCTTGATTCTTTGTGG GGA	AGCACTGCATTTCTC ACCC	60.1	650	INTERGENIC	--	--	--
Ca8_P3_15928586	Ca8	15928586	GTTTTTTTTT/GTTTTTTTTT	ATCTGAACAATAGGCC GTGC	CAACAGGCTCAGGT TTGA	60.1	480	INTERGENIC	--	--	--
Ca8_P3_15939977	Ca8	15939977	TATAAATAAATAAATAAATAAATAA AA/TATAAATAAATAAATAAATAA TAAATAA	ACTAGTGATTTTCGCG CGTT	CCTTCAAATTTGCATTT TCCC	59.9	858	DRR	Ca_15501	--	--
Ca8_P3_16088176	Ca8	16088176	GTTTTT/GTTTT	CTTCCACACCACTTGTC CCT	CAACAATTTTGAATGA GGCA	60.0	745	INTERGENIC	--	--	--
Ca8_P3_16132504	Ca8	16132504	AATATATATATATATATATATAT/AAT ATATATATATATATATAT	CGTGCGGAGCATTATT TCAT	CTGGCTGGACTGACAT AGCA	61.0	681	DRR	Ca_15525	J	--
Ca8_P3_162347	Ca8	162347	TAACTCA/TAACTCAACTCA	AGTTGCTTTTCATGCGC TTT	ACCCCGTAGTCCTTGA CCTT	60.0	748	INTRON	Ca_11928	L	G2-like
Ca8_P3_16237819	Ca8	16237819	TTATATATATATATATATATATATAT TAT/TTATATATATATATATATATAT TAT	GCTTTCAGATTTAAAA ACTTTCG	ACTTTTGGCTGATGT TGGG	59.7	451	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 (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
Ca8_P3_1857269	Ca8	1857269	ATTTCCTATTTTCCT/ATTTCCT	CACCCGTTCTCATGA AAAT	AAAGGTAAAGGTGGG GATG	59.8	381	INTERGENIC	--	--	--
Ca8_P3_1857652	Ca8	1857652	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CATCCCCACCTTTAC TTT	CCTCTCATTCCAAAG CACA	60.0	766	DRR	Ca_02419	--	--
Ca8_P3_18599	Ca8	18599	CAAAA/CAAA	ACCTTCCTCAATTGG CAC	GAACGGTGGAAGGT AATGT	60.0	377	INTERGENIC	--	--	--
Ca8_P3_1870873	Ca8	1870873	CNNNNNNNNN/CNNNNNNNNN	GCAAACCCATCCTTT TCA	TGATCTCTGTGAGTC GTCG	60.1	463	INTERGENIC	--	--	--
Ca8_P3_1881652	Ca8	1881652	ATGTGTGTGTGTGTGTGT/ATGT GTGTGTGTGTGTGTGTGT	TGAAAAGTTTGAATG AAAGTGG	CCATCCAAATTACAC GCCT	59.6	549	DRR	Ca_02414	T	NAC
Ca8_P3_2271491	Ca8	2271491	TACAATTAGATAACAAT/TACAAT	TCGTTGGTACTATTG GGGG	AATGAGCAACGGGAC ATCG	59.0	379	INTERGENIC	--	--	--
Ca8_P3_2295637	Ca8	2295637	TAAAAAAAAA/TAAAAAAAAA	CCACCCTATCGAGA ACCA	AACTGACAGCCATA AGCCA	60.1	864	INTERGENIC	--	--	--
Ca8_P3_2302016	Ca8	2302016	TAAAAAAAAA/TAAAAAAAAA	TGAATTGATATGCAG GGC	TGGTCATTAGTATCG CGTT	59.8	611	INTERGENIC	--	--	--
Ca8_P3_2322316	Ca8	2322316	CAAAAAAAAAA/CAAAAAAAAAA A	TCAACATGTGGGGA TCCT	TCGAGCCACGTTAG GATT	60.2	797	INTERGENIC	--	--	--
Ca8_P3_2420728	Ca8	2420728	TAAAAAAAAA/TAAAAAAAAA	TAGACGGTTGCTTAT GGG	TGAACCGGAAGAAC CAAC	60.0	475	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 (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
Ca8_P3_24399	Ca8	24399	TGTTTAGGGTTTAGGGTTTAGG/TGTT TAGGGTTTAGG	CGGATTTAGGGTTTTG GGAT	GCGTCCGACAACCAAT TACT	60.0	448	INTERGENIC	--	--	--
Ca8_P3_2478182	Ca8	2478182	ATCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCTC/ATCTCTCTCTCTCTCTC TCTCTCTCTCTCTCTCTCTCTC	TGCATTCAATGTTGCCA TTT	GTCGTACGGATCTGT GGCT	59.9	115	INTERGENIC	--	--	--
Ca8_P3_2488506	Ca8	2488506	CATAGAAA/CATAGAAATAGAAA	TTCCAAAATCCACCTCT TCG	GCTATGGCTTCAGCAA CACA	60.0	645	DRR	Ca_02337	G	--
Ca8_P3_2507807	Ca8	2507807	TTATATATATATATATATATAT/TTATAT ATATATATATATAT	CGGACTGGAATCAAAA GCTC	AGCTAAATGCGATTTG CAGG	59.8	852	INTERGENIC	--	--	--
Ca8_P3_2522963	Ca8	2522963	ATTTTTTTTT/ATTTTTTTTTT	ACCAATGGGAGGTTT TCAT	CTCAGTGACTTTCATTT GGCA	60.4	332	DRR	Ca_02333	L	--
Ca8_P3_2755315	Ca8	2755315	GT/GTGAAGAGCGGTAGATAAT	GTTTGCCCTACAACAC TGCT	TACTCCGCATCAAATG GACT	60.2	602	INTERGENIC	--	--	--
Ca8_P3_2869406	Ca8	2869406	TG/T	CAACTGGATAACCAGC TCCC	CGGCCAAATTGATCAG GTAT	59.6	565	INTRON	Ca_02297	U	--
Ca8_P3_3083319	Ca8	3083319	TAAAAAAAAA/TAAAAAAAAA	TAGGGACCCGACTTGA CACT	TTAGTGGCAGCAACCA TGTG	59.6	758	INTERGENIC	--	--	--
Ca8_P3_3116572	Ca8	3116572	TAAAAAAAAA/TAAAAAAAAA	TGTGAGAAATCTTAAA CCATCTTT	TGCTACCATTCTTCC GTCC	57.6	167	INTERGENIC	--	--	--
Ca8_P3_3190849	Ca8	3190849	CTATATATATATATATATATATATA TA/CTATATATATATATATATATATA ATA	TGATGGCTCGTTAAATA ATCTCAA	TGGGGAACATGTTAC TCAACAA	60.0	862	DRR	Ca_02261	--	--

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 (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
Ca8_P3_321298	Ca8	321298	TTGT/TT	CTCTTCCCCTTTCCCAA AAC	CAGGGATTCCCCGAT TTAC	59.9	809	INTERGENIC	--	--	--
Ca8_P3_3261756	Ca8	3261756	GAAAAAAAAA/GAAAAAAAAA	TCCCTGCGAATTCTCAT TCT	CCCCCACTTTGTCTCA TCAT	59.8	561	INTERGENIC	--	--	--
Ca8_P3_3261939	Ca8	3261939	AATATATATATATATATATA/AATATA TATATATATATATATA	TCCCTGCGAATTCTCAT TCT	CCCCCACTTTGTCTCA TCAT	59.8	561	INTERGENIC	--	--	--
Ca8_P3_3314083	Ca8	3314083	AATATATATATATATATATA/AATATATA TATATATATATATA	CGGTGAAATTAATGGC TCGT	AGACCACAAAATGACA AAACCA	60.0	313	INTERGENIC	--	--	--
Ca8_P3_3352045	Ca8	3352045	TAAAAAAAAA/TAAAAAAAAA	GCACAAGAGTTGGATG GGTT	AATGGTGCCGTCTTA CCAG	60.0	810	INTERGENIC	--	--	--
Ca8_P3_3363189	Ca8	3363189	GTATATATATATATATATAT/GTAT ATATATATATATATATATAT	CCAATTAATTTGTTAAA GACCATCTG	TAAAGCAATTTTGGG TGGG	59.3	599	INTERGENIC	--	--	--
Ca8_P3_3491564	Ca8	3491564	AT/ATT	CATCATCAAAAAGGGG GAGA	GATCATCATTCTCGC ACCT	59.9	443	DRR	Ca_02230	--	--
Ca8_P3_3587639	Ca8	3587639	TGG/TG	GGCACTACCGTCTTGG ACAT	GAAATGCTACCGAACC GAAA	60.0	704	INTERGENIC	--	--	--
Ca8_P3_3754302	Ca8	3754302	CGTGTGTGTGTGT/CGTGTGTGTGTGT GT	AGTCGCACCAACCGTT AGAC	GATTGAGAACTTTTGG GGCA	60.2	870	INTERGENIC	--	--	--
Ca8_P3_3777747	Ca8	3777747	TAAAAAAAAA/TAAAAAAAAA	TCTGAGGAGCACACTC CAAA	CGTGCAGGACTCCTTT GTCT	59.5	555	DRR	Ca_02198	--	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 (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
Ca8_P3_3804574	Ca8	3804574	T/TC	AATGTTTGGGCACACAT GAA	GATTTTCCTTCCCCAC CAAT	59.8	337	DRR	Ca_02194	K	--
Ca8_P3_3834404	Ca8	3834404	TAAAAAAAAA/TAAAAAAAAA	GGGACAAACATTTGTTA TTGCAT	TATGCCCCACGTTTGT TTTT	60.0	469	INTERGENIC	--	--	--
Ca8_P3_3986294	Ca8	3986294	CAAA/CAAAA	GAGGCATCAAGGTTGG TGAT	GGCCTACCTCGTTATT GGAA	59.9	632	INTERGENIC	--	--	--
Ca8_P3_3987439	Ca8	3987439	TTTAT/TATTATTATTAT	TTTGTTCCTCCGATATGC TTC	TGAGCTCCACGTGATT CAGA	59.9	202	INTERGENIC	--	--	--
Ca8_P3_398942	Ca8	398942	ATTTTTTTTTTT/ATTTTTTTTTTT	TTCGTAATATGGTCCAA CCCA	ATCTAGCCCACGTGAG GTTC	60.1	360	INTERGENIC	--	--	--
Ca8_P3_4049266	Ca8	4049266	TGAAGAAGA/TGAAGA	TTGCAGTGACAGTGAG GAGG	GAAAAGCAAAGCTCGT GAGG	60.0	416	CDS (large-effect mutations)	Ca_02166	K	GRAS
Ca8_P3_4071945	Ca8	4071945	TG/T	GAGGGGTGGTAACTGA CTCG	ATGCACAAATTCTCGC ACAG	59.6	657	INTERGENIC	--	--	--
Ca8_P3_4076940	Ca8	4076940	AATATATATATATATATATATATA/ AATATATATATATATATATATATAT A	GCATGAAACTTGCTTTG GGT	TTCTGTTGTGCTGGT TTGC	60.1	759	DRR	Ca_02163	O	MYB_related
Ca8_P3_4104199	Ca8	4104199	CAAAAAAAAAA/CAAAAAAAAAA	GTGGCCTACAAACCAC ACCT	GATGGGAGGGTTTTGG AGAT	59.9	571	INTERGENIC	--	--	--
Ca8_P3_4114988	Ca8	4114988	CTTTTTTT/CTTTTTTT	GCAGCCCGAGTGATAA AGAA	TGGCTCAATCACACAA AGGA	60.4	261	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
Ca8_P3_4179867	Ca8	4179867	AATATATATATATATATATATAT/AATAT ATATATATATATATATATATAT	AGTAGGAGCGGTTGAG GGAT	ACCGGCAAAGATTGAT GAAC	60.1	652	INTERGENIC	--	--	--
Ca8_P3_4204219	Ca8	4204219	A/AGAT	ATCCTACCTGAGGCC AACT	ATGTCAGTGAGAGAGG CCGT	60.0	867	INTERGENIC	--	--	--
Ca8_P3_4217124	Ca8	4217124	ATTTTTTTTTTT/ATTTTTTTTTTT	GGAGGCACGAGATCAA CAAT	CATAGATCAAAATGGG CCGT	60.1	623	INTERGENIC	--	--	--
Ca8_P3_4264902	Ca8	4264902	GTATATATATATATATATATATATAT ATAT/GTATATATATATATATATATAT ATATATATATAT	TAGCATTGGGGAACAT GACA	TCCACCAATTCAATGG ACAA	59.9	843	INTERGENIC	--	--	--
Ca8_P3_4384084	Ca8	4384084	ATTTTTTTTTTT/ATTTTTTTTTTT	TCCCTTTTCCATGAACA TTTG	TTTGC GTTATGGATT GATGA	59.8	554	INTERGENIC	--	--	--
Ca8_P3_4399889	Ca8	4399889	AAATAATAATAATAATAATAATAAT A/AAATAATAATAATAATAATAATA	CAACCTCCCAAAGGGT TTTT	AGGTGTGGTAAGATTG TTTTGAA	60.2	372	INTERGENIC	--	--	--
Ca8_P3_4399931	Ca8	4399931	AAATAATAATAATAATAATAAT/AAATA TAATAATAATAATAATAAT	CAACCTCCCAAAGGGT TTTT	AGGTGTGGTAAGATTG TTTTGAA	60.2	372	INTERGENIC	--	--	--
Ca8_P3_4403138	Ca8	4403138	GAAAAAAAAA/GAAAAAAAAA	CCCCGTTTTTGCTGTA AC	CAGTTTTCAATGCATTT TCGAG	60.4	770	INTERGENIC	--	--	--
Ca8_P3_4423607	Ca8	4423607	CTTTT/CTTTT	GGGGCTTCTATTATCC CCAA	CTTTGAAACATGACT CGCC	60.1	195	DRR	Ca_02124	--	LBD
Ca8_P3_448968	Ca8	448968	ATATATATATATATATATATATATATA TATATATATATATAT/ATATATATATATA TATATATATATATATATATATATATAT ATATATATAT	TGGCCTGACCTAGTTT GACC	TGAAACAAACGCACCC ATTA	60.1	360	DRR	Ca_11890	E	--

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 (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
Ca8_P3_4531043	Ca8	4531043	GATATATATATATATATATATAT/GATAT ATATATATATATATATATAT	CAGCCAACTGCTCAAA CAAA	TATATAGCGGGGATCC GTTG	60.0	458	INTRON	Ca_02109	DT	--
Ca8_P3_4630639	Ca8	4630639	GATATATATATATATATATATATA/GA TATATATATATATATATATA	TGAAGCATGAACGGT AGAA	ATGGGTACCGGTCAAA AACC	59.3	265	INTERGENIC	--	--	--
Ca8_P3_46677	Ca8	46677	TT/TTAT	CAATCGGACACCAATT CAAA	TCTGTCTTGCCCACT CCAA	59.4	251	INTERGENIC	--	--	--
Ca8_P3_4683656	Ca8	4683656	AATATATATATATATATATATATATAT ATATATAT/AATATATATATATATATATA TATATAT	TGATGTGATTGATGTGT ATGCG	TTCTTACAAGGGTGGT TCTTTCA	60.4	405	INTERGENIC	--	--	--
Ca8_P3_4752741	Ca8	4752741	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATA T	TTTGGGCAGCATAAATA GGG	TGCTAAAATTTCCAGG GGTG	59.9	819	INTERGENIC	--	--	--
Ca8_P3_4827340	Ca8	4827340	CA/CAA	ATAGGCTAGATCGGCC TCGT	AGGTTTGCGGATAAAT GCTG	60.2	730	INTERGENIC	--	--	--
Ca8_P3_4828642	Ca8	4828642	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA/TATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA	CATTACAAACACAGCA AAACA	TACGCACATTTCCACC TCAG	59.7	748	INTERGENIC	--	--	--
Ca8_P3_4859400	Ca8	4859400	GAAAAAAAA/GAAAAAAAAA	TTCATTGCACAAACGCT CTC	CCAACCACTACTACC ATT	60.0	753	INTERGENIC	--	--	--
Ca8_P3_4904449	Ca8	4904449	ATTTTTTTT/ATTTTTTTTT	TGGTATAGCGAAGGAG CGAT	TGACGCTCACTCGTTT TGAT	59.8	336	INTERGENIC	--	--	--
Ca8_P3_4906280	Ca8	4906280	T/TCGTCCCC	GCTATAGGAAGACCA GGGC	CGAGGGGACGATTAAG ATCA	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 (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
Ca8_P3_4937020	Ca8	4937020	ATTTTTTTT/ATTTTTTT	AGGTCATTCCATTCACTC GTC	ATGCTGGTTGTCTCTCC TGTC	59.8	845	INTRON	Ca_02063	--	--
Ca8_P3_4954048	Ca8	4954048	AAAAAATGGTAAAAATG/AAAAAATG	GGTGCATGGAGAACAT CCTT	CAATGCCTCTCTTTGC CTTC	59.9	435	DRR	Ca_02060	S	--
Ca8_P3_4983898	Ca8	4983898	AATATATATATAT/AATATATATAT	TATGTTCTGCTCTGCAT GGC	TTGGAATGAGCAAATA GGCA	59.8	594	DRR	Ca_02055	Q	GeBP
Ca8_P3_5016373	Ca8	5016373	TAAAAAA/TAAAAAA	TTGTCCGTTATAACATT AAACACTTT	GAAAAGACAACCCCGC ATTA	57.5	279	INTERGENIC	--	--	--
Ca8_P3_5032489	Ca8	5032489	CTATTATTATTATTATTATTATTATT ATTATTA/CTATTATTATTATTATTATTA TTATTATTATTATTATTA	GTGGGAAGTGGAAAAG GTGA	CATTGTTCTGCACCAC CAAC	59.9	454	INTRON	Ca_02051	QI	bHLH
Ca8_P3_5058608	Ca8	5058608	TA/T	TACAAAATTGGGCTTGA GGG	TCCCAACCATGTAAAG GGAA	59.9	667	INTERGENIC	--	--	--
Ca8_P3_5075056	Ca8	5075056	ATTTTTTTTTT/ATTTTTTTTTT	GCCATTTAAGTGTGCAA ATCG	TCACCACAATAACCGT TGGA	60.5	666	INTERGENIC	--	--	--
Ca8_P3_5089330	Ca8	5089330	TCAG/TGAGTGGTCAGCCAG	GCATGATGCATGTTGA GCTT	AACAACAGCCCCAATG TAGC	59.8	318	INTRON	Ca_02047	--	Trihelix
Ca8_P3_5359765	Ca8	5359765	TAAAAAAA/TAAAAAAA	TGGACAGAACATAATT CCAATC	AAGGCAAGCATTTGAG ATGAA	58.0	312	INTERGENIC	--	--	--
Ca8_P3_5363068	Ca8	5363068	GATATATATATATATATAT/GATATAT ATATATATATATATAT	TTTCAATGGCAGAGAAA GGG	TGTCACACCTCAAGA CACAA	60.2	823	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 (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
Ca8_P3_5366435	Ca8	5366435	GTTTTTTTTT/GTTTTTTTTT	CTGATGAAGGAAGGG AACA	CTTCATCATTGGTGG GAGAA	60.0	652	INTERGENIC	--	--	--
Ca8_P3_5401188	Ca8	5401188	ATT/A	TTCAAATTCTGCCCAT TTC	GGAGGTGGCACTCAGT TCAT	60.0	606	INTRON	Ca_02005	--	NF-YB
Ca8_P3_5433233	Ca8	5433233	CAAAAA/CAAAA	TACCGCCGTGAATTG ATTT	CGATGCAGTTACCTCG TGAA	60.3	572	INTRON	Ca_02002	--	ERF
Ca8_P3_5464595	Ca8	5464595	TTTTATTTTATTTATTTA/TTTTTATT TTATTTATTTATTTTA	ACTTCCCTTTGAGACC GAT	CGAAGTACAATGGTTT GTAAGCA	60.1	870	INTERGENIC	--	--	--
Ca8_P3_5596170	Ca8	5596170	GATATATATATATATATATATATATA TAT/GATATATATATATATATATATAT ATATATATATATAT	AGTCCTAACAATCTGG CACGA	CTATGGTGAATGCGCA AAAA	59.7	706	INTERGENIC	--	--	--
Ca8_P3_5596983	Ca8	5596983	TAAAAAAAA/TAAAAAAAAA	TCTTTTGAAATCTCGT GGC	TCTTTCACITTTTCAATG CCG	60.2	602	DRR	Ca_01985	--	DBB
Ca8_P3_5601429	Ca8	5601429	TAAAAAAAA/TAAAAAAAAA	ATGCGAAAATTGACAAC GTG	CCGGTACCCTAAACTG CAAA	59.6	724	INTERGENIC	--	--	--
Ca8_P3_5719968	Ca8	5719968	TTGTGTG/TTGTG	GTTCCATTCCAACCCCA AT	AAAGTCGTGTGCTCGT GTTG	59.4	579	INTERGENIC	--	--	--
Ca8_P3_5724554	Ca8	5724554	TAATAATAAATAA/TAATAATAAATA AATAAA	CTGCCGACAAGGACAA TGTA	AACAAGAACATCCTGG TCGC	59.7	906	INTERGENIC	--	--	--
Ca8_P3_5733091	Ca8	5733091	TAC/TACTTTTAAC	TGATTCTCAGGGAGGG TGTC	GAGGGGATGAGAACG ACAAA	60.0	537	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 (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
Ca8_P3_593185	Ca8	593185	CTACT/CTACTTACT	CAGAACCCATTGTTGCT CAC	CATTCCCAATTCAACC AACC	59.1	236	INTERGENIC	--	--	--
Ca8_P3_5934044	Ca8	5934044	AATATATATATATATATATATATATAT /AATATATATATATATATATATATATAT	TGAGGGAAGAAATTGG AGGA	AAAAATAGAGGCGCAT TGGA	59.6	680	INTERGENIC	--	--	--
Ca8_P3_6056579	Ca8	6056579	TTATATATATATATAT/TTATATATATAT AT	TATTCAGATCCCTTGCC CAG	TGCACGGCAATTACAA CAAT	60.0	493	INTERGENIC	--	--	--
Ca8_P3_610757	Ca8	610757	CAAAAAAAAA/CAAAAAAAAA	TTTTTCCGACTTGGTCA TTT	TTTGCCTTACGAATTT GATGA	57.2	178	DRR	Ca_11875	O	--
Ca8_P3_6123465	Ca8	6123465	CTCTTTTCTTTTCTTTTCTT/CTCTT TTTCTTTTCTTTTCTTTTCTT	GAAACATTCGCAAAATG CAA	GTGTTTCGTGGGAGAC ACCT	59.7	804	INTRON	Ca_01934	O	NAC
Ca8_P3_6124309	Ca8	6124309	TAAAAAAAA/TAAAAAAAAA	AAAACCATGGCACCTC TTTG	GACGATCGCGTTAAG AAGA	60.0	491	INTERGENIC	--	--	--
Ca8_P3_6136556	Ca8	6136556	CTATTATTATTATTATTATT/CTATT ATTATTATTATTATT	GAACGCAAAGGACATG GATT	CCAAAGCCATCAACAT CAGA	59.9	715	INTERGENIC	--	--	--
Ca8_P3_6138115	Ca8	6138115	AATATATATAT/AATATATATATAT	CTTTTCCGATCCAACG TGT	AGGTCCAATTTGCTA GGCT	60.0	589	INTERGENIC	--	--	--
Ca8_P3_6168624	Ca8	6168624	TCTACAACG/T	GGTGCTTTGCAAACTG GATT	TGATTTAGGGTGATGT GGCA	60.1	613	INTERGENIC	--	--	--
Ca8_P3_6196569	Ca8	6196569	GAAAAAAAA/GAAAAAAAAA	AAATGTTTACTCGTGG CGG	TCCTCAGGCCAAAATC ACTT	60.0	583	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
Ca8_P3_630035	Ca8	630035	TTATATATATATATATATAT/TTATAT ATATATATATATAT	ACACCATGCCATTTCC ATT	CGTGTGCAACATATC TCACC	60.1	551	INTERGENIC	--	--	--
Ca8_P3_6307113	Ca8	6307113	ATAATACATGTAATACATGTAATA/ATA ATACATGTAATA	GCAATTCAACGAAATG CAA	CCACTAAGTCATTTGC AAGGC	59.7	942	INTERGENIC	--	--	--
Ca8_P3_6308431	Ca8	6308431	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAAT/AAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAAT	GGATCTCGTCTTCGGC TTCT	TTCTGTGTGATTGGG TGAA	60.9	210	INTERGENIC	--	--	--
Ca8_P3_6318314	Ca8	6318314	ATTTT/ATTTT	TAATGGGGTGTGCAAG CAG	CGAATGTGTGAGTGAA AAGTGAG	60.7	566	INTERGENIC	--	--	--
Ca8_P3_632700	Ca8	632700	TTAATA/TTA	TCCGTCCATCACAATTG AAG	TCAAAGAACAACGATT CCACC	59.5	700	INTERGENIC	--	--	--
Ca8_P3_6389761	Ca8	6389761	ATCAAACCTC/ATC	TTGGCTCTTGGAATG GTTC	CTTCCACATGGAGTGG TGTG	60.1	681	DRR	Ca_23587	--	--
Ca8_P3_6457436	Ca8	6457436	ATTTTTTTTTT/ATTTTTTTTTT	TCATTGCATTGTTCAT CAAAAC	TCCCACCATAGGACTT CTGC	59.9	397	INTERGENIC	--	--	--
Ca8_P3_6492029	Ca8	6492029	A/ATCAACC	TCTGTTTTGCCAACCT TTC	ATCTCAACGATCCAAC GGTC	60.1	455	INTRON	Ca_10739	D	--
Ca8_P3_6492546	Ca8	6492546	CAAAA/CAA	CGTAAGCAACCCACCA ATCT	TTGTCAACAACCTCAGC GTAAAAA	60.0	142	INTERGENIC	--	--	--
Ca8_P3_6492603	Ca8	6492603	ATTTTTTTTTT/ATTTTTTTTTT	CGTAAGCAACCCACCA ATCT	TTGTCAACAACCTCAGC GTAAAAA	60.0	142	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PilI)	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
Ca8_P3_6493315	Ca8	6493315	TAAAAAAAA/TAAAAAAAAAAAAA	TTTCAAAAGTGAAATTTGGTTGAA	GAGTCAGAAAACAACGCTCTT	59.9	570	INTERGENIC	--	--	--
Ca8_P3_6567143	Ca8	6567143	AAGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGAGAG/AAGAGAGAGAGA GAGAGAGAGAGAGAGAGAGAGAG	GGAAAATTGAGGGAAGAGGG	GTGTGGGTCACTTCAGCAA	59.9	227	INTERGENIC	--	--	--
Ca8_P3_6754250	Ca8	6754250	G/GT	AAACATTACTATGCCCGCCG	TCAAACAATGCCCCCATATT	60.0	452	INTERGENIC	--	--	--
Ca8_P3_6766919	Ca8	6766919	AATATATATATATATATATAT/AATATAT ATATATATATATATAT	CGGC AAAAATTGGAA GAAA	GATTGACCCCACCCTCTAT	60.0	453	DRR	Ca_10706	R	CPP
Ca8_P3_6878849	Ca8	6878849	A/AT	GCAAGTGAAAGACGGTGTGA	TGGATTGGGCTTGGACTTAC	59.9	560	INTRON	Ca_10702	K	--
Ca8_P3_6976159	Ca8	6976159	GTAATAATAATAATAATAATAATAA TAAT/GTAATAATAATAATAATAATA ATAATAATAATAATAAT	GCGAAAAAGACAACGA AAGC	TCATCGGATTGGTCCTCTTC	60.0	255	INTRON	Ca_10695	I	--
Ca8_P3_6991978	Ca8	6991978	ATTTTTTTTT/ATTTTTTTTTT	TTCAACATCTTGTTCTTATGC	ATTTCAGTGGGATGGTTGA	58.3	431	INTERGENIC	--	--	--
Ca8_P3_7203379	Ca8	7203379	CATGTTA/CATGTTAATGTTA	TGCCTTCAATTGTGCTT TACC	TTTGAGAAGCGACCTTGTT	60.1	423	INTERGENIC	--	--	--
Ca8_P3_7262115	Ca8	7262115	GAAAAATAAAAA/GAAAAATAAAAA AAAA	CTAGCGACAAGGGTAT TG GC	ATCAATTGAGACCGAACACG	59.7	388	INTERGENIC	--	--	--
Ca8_P3_7289014	Ca8	7289014	TAAAAAAAA/TAAAAAAAAAAAA	ATTTGGGAAGTCGCTGCTTTG	TATTTGCGGGTTCCTTTT	60.0	172	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 (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
Ca8_P3_751204	Ca8	751204	TTATATATATATAT/TTATATATATAT	GACAGGTTCTCATGCT TCCC	CAACGTGGTGAATTG ATGG	59.7	662	INTERGENIC	--	--	--
Ca8_P3_7563841	Ca8	7563841	T/TCAC	TCCGCTGCTAGCTCTT CTTC	CGACAAATTCGCTAC CCAT	60.0	864	INTERGENIC	--	--	--
Ca8_P3_7683519	Ca8	7683519	TTGT/TT	AACCATTGCTTTGGCA CTC	CAAGTTTGATTGACAC ATTGT	60.1	587	INTERGENIC	--	--	--
Ca8_P3_7777478	Ca8	7777478	C/CATA	TCCAGTGGCACCATAA CAAA	TGAATCCCCGTGACGT TTAT	60.0	588	INTRON	Ca_10607	Z	MYB_related
Ca8_P3_7777713	Ca8	7777713	CACATAACATA/CACATA	TCCAGTGGCACCATAA CAAA	CTCCCAAGAACCCTTC TTCC	60.0	744	INTRON	Ca_10607	Z	MYB_related
Ca8_P3_7896399	Ca8	7896399	ATGTTGTT/ATGTTGTTGTT	TTTGATATGTTGCTTCC GCA	CGATGCAGCCTCTTAG GTGT	60.2	689	INTERGENIC	--	--	--
Ca8_P3_7910743	Ca8	7910743	CAAAAAAAAA/CAAAAAAAAA	ATGATTGGGCTCGTTT GTTC	CCAAATCAACTGCAA CCCT	59.9	390	INTERGENIC	--	--	--
Ca8_P3_7924797	Ca8	7924797	TA/T	CGTTTGTCATCGTCTT TCA	TAATCTGCGCGTTAAG CAGA	59.7	518	INTERGENIC	--	--	--
Ca8_P3_7927288	Ca8	7927288	CAAA/CAAAA	AGGACCGTGCAAATGT TTCT	TGGCCTACTTATGGTC TGGC	59.6	349	DRR	Ca_11431	J	--
Ca8_P3_7927539	Ca8	7927539	GTATTGCTTTTAT/GTATTGCTTTTATT GCTTTTAT	GCCAGACCATAAGTAG GCCA	GCAACTGGATTGCTGG ATT	60.1	509	DRR	Ca_11430	J	--

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 (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
Ca8_P3_7927639	Ca8	7927639	ATT/AT	GCCAGACCATAAGTAG GCCA	GCAACTGGATTGCTGG ATT	60.1	509	DRR	Ca_11430	J	--
Ca8_P3_7938103	Ca8	7938103	AT/ATTT	CACGGGGAAAAGTTGA TTTG	GAAGTCGCCATTTGGA ACTC	60.3	634	INTERGENIC	--	--	--
Ca8_P3_7938264	Ca8	7938264	TTATATA/TTATATATA	CACGGGGAAAAGTTGA TTTG	CACCAAAATACCCCA TTTG	60.3	697	INTERGENIC	--	--	--
Ca8_P3_7948182	Ca8	7948182	TCATCACA	GCCGCAAAGAAGAGAA GAGA	TGCCCAAGTCACTAAT GCTG	59.8	443	INTERGENIC	--	--	--
Ca8_P3_7950190	Ca8	7950190	ATTTT/ATTTT	CCAACCAACATCACAA GGTG	TTTGATTGGAGGCCAA AGAC	59.8	693	INTERGENIC	--	--	--
Ca8_P3_7950561	Ca8	7950561	CAAAAA/CAAAAA	GTCCTTGGCCTCCAAT CAAA	TGGAGTTGGGCCAATA ATTT	60.1	359	INTERGENIC	--	--	--
Ca8_P3_7950841	Ca8	7950841	AAAT/AAATAAT	TGTGTTGACCCAACCT CAAA	AGCCACTTGTTGTGT TTGA	60.0	450	INTERGENIC	--	--	--
Ca8_P3_7951970	Ca8	7951970	TAAAAAAAA/TAAAAAAAA	GCAACCATAAAAGAGC AAGTTGA	AGAGCAACACATTTT GAAGG	60.6	377	INTERGENIC	--	--	--
Ca8_P3_7952607	Ca8	7952607	GAAAAA/GAAAAA	CCTTCAAAATGGTGTG CTCT	GTCAATTTGCCGATCA CCTT	59.2	676	INTERGENIC	--	--	--
Ca8_P3_7953093	Ca8	7953093	T/TC	AAGGTGATCGGCAAAA TGAC	CAGCCCTTCAGTGCTA TGAGT	59.9	609	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
Ca8_P3_7953809	Ca8	7953809	TACCTCAA/TACCTCAAACCTCAA	ACCTGCGACACGTGAA CATA	GAAACGAGGCGTAA CGAG	60.2	360	INTERGENIC	--	--	--
Ca8_P3_7954393	Ca8	7954393	TAA/TA	CTCGTTTACGCCTCGTT TTC	CCGTAGCATGAGAGTG ACCA	59.9	561	INTERGENIC	--	--	--
Ca8_P3_7954421	Ca8	7954421	CATATATATATATATATATAT/CATAT ATATATATATATATATATAT	CTCGTTTACGCCTCGTT TTC	CCGTAGCATGAGAGTG ACCA	59.9	561	INTERGENIC	--	--	--
Ca8_P3_7954496	Ca8	7954496	CATATA/CATATATA	TTTCGTCGTATAAAGAC GGAGAG	CCGTAGCATGAGAGTG ACCA	59.8	545	INTERGENIC	--	--	--
Ca8_P3_7955526	Ca8	7955526	TCTC/T	CATGCAAGAGAAGGGA AAGAA	GTGTGGGAGAGAAAG CATCC	59.4	296	INTERGENIC	--	--	--
Ca8_P3_7956165	Ca8	7956165	GTTATATAATATTA/GTTATATAATATTA TTATATAATATTA	TTGATTTGTCTAGAAGC AGCACA	CACCTTCTGGCTGAGT TGGA	60.1	476	DRR	Ca_11432	--	G2-like
Ca8_P3_7956373	Ca8	7956373	TCTA/TCTAGCTA	TTGATTTGTCTAGAAGC AGCACA	CACCTTCTGGCTGAGT TGGA	60.1	476	DRR	Ca_11432	--	G2-like
Ca8_P3_799204	Ca8	799204	TTATATATATATATATATATATATATA TATATATAT/TTATATATATATATATATA TATATATATATATATATATATATATAT ATAT	AGTGTCTCGACCGTCA TGAAT	GCAACTTGTGCTGTCT GCAT	59.6	836	DRR	Ca_11842	I	--
Ca8_P3_7992971	Ca8	7992971	ATTTT/ATTTTTT	CAAAGCTGGTGATGGA GACA	ATTTTGCACTCGGACA CCAT	59.8	545	INTERGENIC	--	--	--
Ca8_P3_8003394	Ca8	8003394	CAAAAAAA/CAAAAAAAA	TCTCTCAATTCATGCTA TGGAAAA	ACCCGCATGTGATCAT GTTT	60.1	703	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
Ca8_P3_8041385	Ca8	8041385	TAGAGAGAGAGAGAGAGAGA/TAGA GAGAGAGAGAGAGAGA	CGGCGCAATTAGAG TTAG	GTTTCTGCCACTCTCT TCGG	60.0	212	INTRON	Ca_11441	U	M-type
Ca8_P3_8048292	Ca8	8048292	ATCTCTCTCTCTCTCTCTCTCTCTC TCTCTCTCTCTCT/ATCTCTCTCTCTCT CTCTCTCTCTCTCTCTCTCTCTCT	GGAAGACACTTGCTT TTGG	CCTTCCAATTTTCACTC CCA	59.7	617	INTRON	Ca_11442	A	--
Ca8_P3_8055205	Ca8	8055205	CAATAAGTAATA/CAATA	TGATAAACATGATTTTC CCTCATT	TTGTTTGTTTGAGAA GGATCA	60.0	403	INTERGENIC	--	--	--
Ca8_P3_8064019	Ca8	8064019	ATTTTTTTTT/ATTTTTTTTT	AGCTGAATTGTCGTTG GTCA	TTATCGAGAGATATC AAACCAA	59.3	573	INTERGENIC	--	--	--
Ca8_P3_8075837	Ca8	8075837	ATACT/ATACTTACT	TTGAGCCAAAAGCCTC CTTA	TTTTCAACAAAATGTGC GGA	60.0	824	INTERGENIC	--	--	--
Ca8_P3_8076052	Ca8	8076052	TAAAA/TAAAAA	TAATGCCATTTTGGTGT TGC	TTTTCAACAAAATGTGC GGA	59.4	219	INTERGENIC	--	--	--
Ca8_P3_807875	Ca8	807875	CAACAAAAAACAAAAA/CAACAAAA AA	CCCTTTCACGCCAATAA AGA	AATCCTTAACCCTCCC TCCA	60.1	565	INTERGENIC	--	--	--
Ca8_P3_8084688	Ca8	8084688	CATA/CA	TCACCCTACAACATGAC CGA	ATGGATGCAACACCAA AATG	60.0	977	INTERGENIC	--	--	--
Ca8_P3_812389	Ca8	812389	CTTTTTTT/CTTTTTTT	TCATCTGTTGTTCAATT TTGTCA	TATATGAGGGGAAAAT GCGG	58.2	560	INTERGENIC	--	--	--
Ca8_P3_8157212	Ca8	8157212	TATAA/TATAATAA	GCTAAGAGCATCTCCA ACGG	CAGGGAGTGGAGGAA AATCA	60.0	459	INTRON	Ca_11451	--	bZIP

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
Ca8_P3_8196002	Ca8	8196002	CGAG/CG	CTGCGGCTGACATATG AAGA	CAAGGCCCAAGTATAC CCAA	60.0	649	INTRON	Ca_11454	J	--
Ca8_P3_8240879	Ca8	8240879	TC/TCC	GTGCGCGCTACGAGAT AAAC	TTTGTGCTGATGGTGA TGGT	59.9	729	INTERGENIC	--	--	--
Ca8_P3_8273148	Ca8	8273148	GT/GTGAT	GTCACCACTCACCAGT CAG	TTACCGCCTCTTCCTTT TCA	60.2	550	INTERGENIC	--	--	--
Ca8_P3_8312325	Ca8	8312325	AAATAGGAATGTTTA/AAATAGGAATGT TTAATAGGAATGTTTA	CGGCGATCATTAAGGA GAAA	ATTTTGAACAAGCGGA CCTG	60.2	561	INTERGENIC	--	--	--
Ca8_P3_8357871	Ca8	8357871	GAAAAAAAAA/GAAAAAAAAA	CGCCCAATCACTGAA AGTT	AAACCGCTGTGATCCA AATC	60.1	567	INTERGENIC	--	--	--
Ca8_P3_8449795	Ca8	8449795	AATATATATATATATATATATATATAT ATATA/AATATATATATATATATATATAT ATATATA	TCATCAAATCCGTAACG CAA	CGTAGTCCGCATGTTC TTGA	60.1	623	INTERGENIC	--	--	--
Ca8_P3_8495120	Ca8	8495120	GTCTCTCTCTCTCTCTCTCTCT/G TCTCTCTCTCTCTCTCTCT	GGAAAAAGAAAAGGG ACGG	CGCTGAAACAGATCGA AACA	59.9	603	INTERGENIC	--	--	--
Ca8_P3_8623323	Ca8	8623323	ATTTTTTTT/ATTTTTTTT	GGGGTGATTATGGAGC AAGA	GGTCACGTGTGTTCCA AGAA	59.9	963	INTERGENIC	--	--	--
Ca8_P3_8624257	Ca8	8624257	ATTAAAGC/ATCAACTTTAAAGC	CTTTGATTGGGGTTTTG GAA	TGGTGACAATTATTTT CCCGT	59.8	664	INTERGENIC	--	--	--
Ca8_P3_8624418	Ca8	8624418	CAAAAATTTAGAAAAAT/CAAAAATTTA GAAAAATTTAGAAAAAT	TCCTTTCAATGGACTG GTGA	GTCCCGAGCATGACGT TTAT	59.1	888	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_8624597	Ca8	8624597	TAAAAAAAAA/TAAAAAAA	CAATTCTTGCATCCTAA CCAA	GTCGCCGAGCATGACGT TTAT	59.1	384	INTERGENIC	--	--	--
Ca8_P3_8636114	Ca8	8636114	ATTTTTTT/ATTTTTTT	TTGAATTTGGTTTCAAT TGGG	ACTCTCCTTTCCCTCCC CTCA	59.7	514	INTERGENIC	--	--	--
Ca8_P3_867654	Ca8	867654	AACATA/AA	GCATGCATGACCAAA TTGA	TGATTTGGTAAACATT GACGGA	60.5	735	INTERGENIC	--	--	--
Ca8_P3_8694777	Ca8	8694777	GAA/GA	AATTGGCAGGGGAAGA AGAT	TAAGGCAAATGGTGCC TACC	59.9	715	INTRON	Ca_11501	V	NAC
Ca8_P3_8701927	Ca8	8701927	AATATATATATATATATATATATAT ATATATAT/AATATATATATATATATA TATATATATATATATATATATAT	GTGGAGTGCAAAGTTG GTGA	GCCTGAATATGCACAC ACAA	59.7	795	INTERGENIC	--	--	--
Ca8_P3_8705857	Ca8	8705857	ACAAC/ACAACCTAAC	CACACAACCTCCCCACC TTCT	GTGTGGTGCTTTGCTC AAGA	60.0	803	INTERGENIC	--	--	--
Ca8_P3_8740829	Ca8	8740829	TGAGAGAGAGAGAGAGAGAGAGAGAG AG/TGAGAGAGAGAGAGAGAGAGAGA GAGAGAG	AGGACCTCCAGCACCC TATT	AACGCTATCTACCGCT TC CA	60.0	389	INTERGENIC	--	--	--
Ca8_P3_8771102	Ca8	8771102	AATTAATTTA/AATTAATTTATTAATTTA	TCATAGAAATTTGGAGG CGG	GTGCTGTTATTTGCAC CCCT	60.0	742	INTERGENIC	--	--	--
Ca8_P3_8774112	Ca8	8774112	A/AGCGAC	CCACATGAGTGTGTTG AGGG	CGCTAATAATGACACA TTCGCT	60.0	655	DRR	Ca_11507	--	SAP
Ca8_P3_8778724	Ca8	8778724	CTATATATATATATATATATATATATA TATATAT/CTATATATATATATATATA TATATATAT	TTGCGCAAACAAGCTA TCG	GAGGGGTGCACGGTA CTA AA	60.0	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 (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
Ca8_P3_8837800	Ca8	8837800	ATG/A	GGCATCATAATCGTCA CCAA	TGGAGTAATCAATTGG GGGA	59.4	450	INTERGENIC	--	--	--
Ca8_P3_8845260	Ca8	8845260	ATTTTTTTTTT/ATTTTTTTTTT	TTTGCTCCTCCTCTTTC TGC	TCGTGTTATCCAACCC ACTCT	59.7	697	INTERGENIC	--	--	--
Ca8_P3_8850620	Ca8	8850620	ATTTTTTTTTT/ATTTTTTTTTTTTTT	CCAAAGCACATCCAAG GACT	TTATCAGTTGCATAGTT TGCTTG	60.1	284	INTERGENIC	--	--	--
Ca8_P3_8854237	Ca8	8854237	TA/TAA	TGGAGTTTCGAGAATT GGC	GCATCAATGTGTTCAA TCGC	60.2	569	DRR	Ca_11516	--	--
Ca8_P3_8854477	Ca8	8854477	C/CT	GCGCATTGGAATATCAT GTG	GTAAGCCGGATATGCG ATTG	59.9	367	DRR	Ca_11516	--	--
Ca8_P3_8854983	Ca8	8854983	TAAAG/TTAAAGGAAAAATAAG	GCCATATCCGGCTTAC CTTT	CCCTTGACCAATTCCA GAGA	60.3	475	DRR	Ca_11515	--	--
Ca8_P3_8857874	Ca8	8857874	AATATATATATATAT/AATATATATATAT ATATATATATAT	CTACGAAGCGCAATGT CAAA	GAGACACAACATGGGC ACAC	60.0	458	INTERGENIC	--	--	--
Ca8_P3_8859079	Ca8	8859079	G/GGCCAA	CATGGAGGATTCTGAG CCAT	TTTTGGGTACCTTGG CTTG	60.0	232	INTERGENIC	--	--	--
Ca8_P3_8860098	Ca8	8860098	GAAAA/GAAAAA	ATGCATCCACTCCAG AAAC	TGTTTTGGTTGTGTCC CAGA	59.9	512	INTERGENIC	--	--	--
Ca8_P3_8862836	Ca8	8862836	TA/TAA	TGCAAAAACAAAAACGT CCA	GGAAGTGGTCAATGGA GGAA	60.1	745	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 (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
Ca8_P3_8863156	Ca8	8863156	GGTGTTTT/G	TTCTCTCATTGACCACT TCC	CAATTCAACAGCGACC CTTT	59.9	513	INTERGENIC	--	--	--
Ca8_P3_8868124	Ca8	8868124	GAAAAAAAA/GAAAAAAAA	CTTTGTTGCCGTGTTG AGTG	CCCTTACCTTTGAACC ACCA	60.3	718	INTERGENIC	--	--	--
Ca8_P3_8868722	Ca8	8868722	ATTTTT/ATTTTT	TGGTGGTTCAAAGTA AGGG	CAATTTTCAAACATGT GCAA	59.8	317	INTERGENIC	--	--	--
Ca8_P3_8871176	Ca8	8871176	T/TA	AGGACAAGCTCCACCA ACAT	TTACTTGATGCCCCCA CTTC	59.6	271	INTERGENIC	--	--	--
Ca8_P3_8872333	Ca8	8872333	TC/TTGATCTGC	TGTGAAGGCCATATCA AACA	AGTGACATGCCCCATT TTGT	57.5	543	INTERGENIC	--	--	--
Ca8_P3_8875804	Ca8	8875804	AAAATCAATT/AAAATCAATTCATTCA AATCAATT	TGCCCTTGCAACTATGA ATG	GGTATTGGGTCGGTTT CTGA	59.7	729	INTERGENIC	--	--	--
Ca8_P3_8876145	Ca8	8876145	GTTTTTTT/GTTTTTTT	ATTTGGGCGAATAAGG TTCC	GGTATTGGGTCGGTTT CTGA	60.2	226	DRR	Ca_11518	--	--
Ca8_P3_8877426	Ca8	8877426	C/CTTT	TCAACGTGACGAATCTA TCAAA	AAGTCACATTAGCATG GCC	58.3	598	DRR	Ca_11518	--	--
Ca8_P3_8880565	Ca8	8880565	ATTTTT/ATTTTT	TTTCGACCCTTGAGCTT TGT	TTGCTCCCTTTGACTC TACCA	59.9	736	INTERGENIC	--	--	--
Ca8_P3_8883515	Ca8	8883515	CATTAATTA/CA	ATGGTTCATTTCCCAA ACA	GGTGGCAAAGAATAGA GGCA	60.0	363	DRR	Ca_11519	--	--

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 (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
Ca8_P3_8886436	Ca8	8886436	ATTT/ATT	GGAGTGGCGAGATTTT TGAG	ACAAGTGCAGCTTTGG GATG	59.8	891	DRR	Ca_11520	C	--
Ca8_P3_8894265	Ca8	8894265	ATTTTTTTT/ATTTTTTT	GAGGCCCAAATGAAT AGCA	TTGTCGACGTCCTCGG TATT	60.0	485	DRR	Ca_11521	G	--
Ca8_P3_8894817	Ca8	8894817	CT/CTAT	GAGCTCGCACTCAACT AGGC	ATCTTCGAGGGGCTTT TTCT	60.3	332	DRR	Ca_11521	G	--
Ca8_P3_8899206	Ca8	8899206	AT/A	GTGGATGACAAAACCT CGTG	TTCTCATATGCCCTC CAAC	59.0	633	INTRON	Ca_11521	G	--
Ca8_P3_8900727	Ca8	8900727	A/AC	AGTGGGGCATTGTG ATTA	GAGAAAGTTCACAGC TGCC	60.2	628	INTRON	Ca_11521	G	--
Ca8_P3_8907150	Ca8	8907150	ATT/AT	ATTCTTCGTCCAACAT GGC	GGAGGGGGAAACTTT GGTA	59.9	866	INTERGENIC	--	--	--
Ca8_P3_8907678	Ca8	8907678	CAAA/CAAA	TACCAAAGTTTTCCCC TCC	GCAATGCATGAGAGGA CAAG	60.2	122	INTERGENIC	--	--	--
Ca8_P3_8920440	Ca8	8920440	TAAAAAAA/TAAAAAA	TGTTTCATGTAAGCCATT GGG	TCCAAAACCCATTTC CCTC	59.4	540	INTRON	Ca_11522	--	--
Ca8_P3_8922504	Ca8	8922504	CAAAA/CAA	TGGGTCGTTCTTTGCTT TTC	TCTTGCACCCCTATCG AATC	60.2	611	DRR	Ca_11523	--	--
Ca8_P3_8938068	Ca8	8938068	A/AC	AAGCATGCATTTAATTT ATCCAAA	AAATCTGCACCCTCAA CACC	59.0	500	INTRON	Ca_11524	--	--

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
Ca8_P3_8940251	Ca8	8940251	TAAAAAAAAA/TAAAAAAAAA	TGCATTTTAACTTGTT ACATCG	TACCGAGAAAGCCAC AAAC	59.1	770	INTERGENIC	--	--	--
Ca8_P3_8940349	Ca8	8940349	TAAAAAAAAA/TAAAAA	TGCATTTTAACTTGTT ACATCG	TACCGAGAAAGCCAC AAAC	59.1	770	INTERGENIC	--	--	--
Ca8_P3_8942127	Ca8	8942127	ATTTTTTT/ATTTTTTT	TTGCTATTGAGTCCTTG GGC	TTAGCATTCATCCAAC GCG	60.2	685	INTERGENIC	--	--	--
Ca8_P3_8954725	Ca8	8954725	GAAAAAAAAA/GAAAAAAAAA	ATCCATCGAGCAAGTC GTTC	GGCTTAGGGATAACTG CATCC	60.2	616	INTERGENIC	--	--	--
Ca8_P3_8956224	Ca8	8956224	TATGCCATGCCATGCCAT/TATGCCAT GCCAT	TGTGGGACCTTCCAA ACAT	CAACAACGTCTATCT CGGC	60.2	486	INTERGENIC	--	--	--
Ca8_P3_8956561	Ca8	8956561	TG/TGATCG	GCCATGCCATCCTTGA TAAT	ATGTCCAACATCTGCT TCCC	59.8	628	INTERGENIC	--	--	--
Ca8_P3_8956637	Ca8	8956637	CATAAT/C	GCCATGCCATCCTTGA TAAT	ATGTCCAACATCTGCT TCCC	59.8	628	INTERGENIC	--	--	--
Ca8_P3_8967849	Ca8	8967849	TAAAAAAAAA/TAAAAAAAAA	CTGCTGTTTGTGCCAC TGTT	TCATCCGAATGGTATG CTCA	59.9	334	INTERGENIC	--	--	--
Ca8_P3_8968364	Ca8	8968364	GTT/GTTT	TGTTGAGCATACCATC GGA	TCGTGCTCATGTTCT GCCT	60.1	780	INTERGENIC	--	--	--
Ca8_P3_8969339	Ca8	8969339	GACACA/GACACACA	GCAACATTGGCAAAA GTGA	CACATGGCCGTGGGA AAT	59.7	534	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 (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
Ca8_P3_8972356	Ca8	8972356	TC/T	TCCCATGACATCACA CAAG	TGAGAAAATTTGGCAA AGGG	60.4	592	INTERGENIC	--	--	--
Ca8_P3_8972597	Ca8	8972597	TAAAAAAAAA/TAAAAAAAAAAAAA	GGTGTCTTTTCACGCAT AGG	TGAGAAAATTTGGCAA AGGG	58.2	491	INTERGENIC	--	--	--
Ca8_P3_8980500	Ca8	8980500	AG/AGAATACGTTTATG	TTGTTTTTAGATCTGGC GGG	TTTGCGCCCACTTTTA GAAC	60.1	257	INTERGENIC	--	--	--
Ca8_P3_8994517	Ca8	8994517	TAAAAA/TAAAAA	TGACTTCGAAAGACGA GTGTG	TGTAAGGATATTTGT CAGCATGT	59.1	847	INTERGENIC	--	--	--
Ca8_P3_8995674	Ca8	8995674	ATTTTT/ATTTTTTTT	GTTGCAAAGTCAACGG GTTT	TTTTAAAAAGTGTGTG ATTAGGGAA	60.0	443	INTERGENIC	--	--	--
Ca8_P3_8998003	Ca8	8998003	TTGT/TTGTGT	TTTGATGACTCGTAAGC CCC	TGTAAGATGGAGGATC CAAAGTG	60.1	240	INTERGENIC	--	--	--
Ca8_P3_8998056	Ca8	8998056	TG/T	TTTGATGACTCGTAAGC CCC	TGTAAGATGGAGGATC CAAAGTG	60.1	240	INTERGENIC	--	--	--
Ca8_P3_9000307	Ca8	9000307	ATTT/ATT	AGCCACACCTAATCACA TGAAA	GGTGGATTGCTCGAGT GTTT	59.5	176	INTERGENIC	--	--	--
Ca8_P3_9001190	Ca8	9001190	GTTTTCTTTT/GTTT	GAAGGTGGCGAACACA TTTT	TTGCCTGTACTGCTTA AGATCA	60.0	233	INTERGENIC	--	--	--
Ca8_P3_9023763	Ca8	9023763	TTATATATATATATATATA/TTATATA TATATATATATATA	TAAGCGCATGTTCCAT GTTG	TGACGATGTGCTAAGC ATGA	60.7	359	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 (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
Ca8_P3_9077712	Ca8	9077712	ATTT/ATTTT	CCATGTGTCTTTTCTTG GAGC	TGGCACCTTAGAACAC TTCCA	59.7	501	INTERGENIC	--	--	--
Ca8_P3_9077953	Ca8	9077953	AG/A	AAACGCGTCTTTCTGTTA TGC	CCTTTCTTAGCCAGGA GAAATG	60.3	655	INTERGENIC	--	--	--
Ca8_P3_9079296	Ca8	9079296	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA AAAAA	GCGGTCCCATGACTAT TGTT	CGTCATGACACGTGTA CACA	59.8	219	INTERGENIC	--	--	--
Ca8_P3_9087628	Ca8	9087628	ATATTATTATTATT/ATATTATTATTATT ATT	TTGGACCCCATCTTACT TGG	TGTAGCATCCCATTTT CCACT	59.8	741	INTERGENIC	--	--	--
Ca8_P3_9098007	Ca8	9098007	TTAT/TT	AACCGTTAAATCCGCAA CTG	CCAAGGAAACAGCTCA AAGC	60.0	794	INTRON	Ca_11533	--	C2H2
Ca8_P3_9098738	Ca8	9098738	TGAGAA/T	GCTTTGAGCTGTTTCCT TGG	AACGGTGGCTGGTAAG TGTC	60.0	537	INTRON	Ca_11533	--	C2H2
Ca8_P3_9101623	Ca8	9101623	CT/CTTT	CAAGGTTCTCCAGAAA CCCA	ACACGTGTGCGCTCAA AATA	60.1	671	DRR	Ca_11533	--	C2H2
Ca8_P3_9104525	Ca8	9104525	CTAT/CTATAT	TCTTCGCCAAAGTAATT CGC	TTTCCCTTTTCCTCCA AAC	60.3	669	INTERGENIC	--	--	--
Ca8_P3_9104735	Ca8	9104735	GCGA/GGGATGGA	TGGAGTAAACATGCAC CACG	TCTCTTTTCCCTTTCC TCC	60.6	158	INTERGENIC	--	--	--
Ca8_P3_9104757	Ca8	9104757	GAAAA/GAAA	AAGAGGGGAGTGGTTT GGAG	TCCTTCATCTGATTGC ATGG	60.5	221	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
Ca8_P3_9109692	Ca8	9109692	ATTTTTTTTTT/ATTTTTTTTT	GGTTGAGAAAACAACC CCCT	GAAAGTTGGGGAACGTG ACCA	60.2	256	INTERGENIC	--	--	--
Ca8_P3_9109737	Ca8	9109737	TTATATAT/TTATATATAT	GGTTGAGAAAACAACC CCCT	GAAAGTTGGGGAACGTG ACCA	60.2	256	INTERGENIC	--	--	--
Ca8_P3_9110249	Ca8	9110249	ATTT/ATTTT	TGGTCAGTCCCCAAC TTTC	AGCCAAAGTTACGTTC CACG	59.9	591	DRR	Ca_11534	--	--
Ca8_P3_9117559	Ca8	9117559	CAAA/CAA	TGAAAGATCAAACGCAT GAA	GGACCTTGGCAGTTTG GATA	57.8	772	DRR	Ca_11535	--	--
Ca8_P3_9121715	Ca8	9121715	AT/ATACAATGT	ATGTCGGTCGGAAAAAT CTTG	CCTTTTAGGCCACAT GCTA	59.9	658	INTRON	Ca_11535	--	--
Ca8_P3_9121782	Ca8	9121782	CAAAAAA/CAAAAAAA	ATGTCGGTCGGAAAAAT CTTG	CCTTTTAGGCCACAT GCTA	59.9	658	INTRON	Ca_11535	--	--
Ca8_P3_9127131	Ca8	9127131	TTATATATATATATA/TTATATATATATA	TGCTCATAGCCAGCCT TTCT	CCGTTTCGACAACACC TTTT	60.1	418	INTERGENIC	--	--	--
Ca8_P3_9129065	Ca8	9129065	TAG/TAGAAG	TCCATGGACCTTCACTC CTC	GCCTTCTTCACCTTGT GCTC	60.0	619	CDS (large-effect mutations)	Ca_11536	Q	Nin-like
Ca8_P3_9131651	Ca8	9131651	AT/ATT	TCCAGAGACCTTCGTC ATCC	TTCAACCACTGGCAT TGTC	60.2	556	DRR	Ca_11536	Q	Nin-like
Ca8_P3_9134873	Ca8	9134873	CTT/CTTT	GGCCTTGGGCATATGA ATTA	GTGATGATTTTGGCTT GCCT	59.8	113	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
Ca8_P3_9135581	Ca8	9135581	CAAAA/CAA	ACTGAACATGTCACGC AGAA	ATCCATTGGCATGAAA ATCC	57.8	659	INTERGENIC	--	--	--
Ca8_P3_913931	Ca8	913931	TTATTTATCTATTAT/TTATTTAT	CGTCTTGAGGATCTGG GAAA	GAAGATGTACACTGAA ACGCAGA	60.2	289	DRR	Ca_11827	--	bZIP
Ca8_P3_9153702	Ca8	9153702	AAAGAAG/AAAG	CAGCACGATAAGTTCT GGCA	GGGGAATAGAGTGGG ATGCT	60.0	420	INTRON	Ca_11539	O	--
Ca8_P3_9154259	Ca8	9154259	AC/A	ATGGCCAAATTCATGG AAGA	AAAAGAAAGTTGCCCA GGCT	60.3	667	INTRON	Ca_11539	O	--
Ca8_P3_9154611	Ca8	9154611	CAAA/CAAAA	CGGCACATCAAATGT CAGT	CCAGTAGGAAGCAAGC CAAG	59.6	655	INTRON	Ca_11539	O	--
Ca8_P3_9158435	Ca8	9158435	C/CG	AACGCCATAAATCCGC TATG	ACCGTTGGAGAAGATT GTGG	60.0	540	INTRON	Ca_11539	O	--
Ca8_P3_9158810	Ca8	9158810	ATT/A	GACGCTACAGCCCTAA CAGC	AGTTGGTTGAACCGTT GGAG	60.0	387	INTRON	Ca_11539	O	--
Ca8_P3_9172889	Ca8	9172889	A/AG	TGAGGGTATCAGTTCC AGCC	TGGCGCTTCGTAGACT TTCT	60.1	832	INTRON	Ca_11540	E	bZIP
Ca8_P3_9183304	Ca8	9183304	AAGTCA/AAGTCAGTCA	GTTGTAGATTTGCGG TTCG	AACCCCAATTTTGGG AGAG	60.5	749	INTERGENIC	--	--	--
Ca8_P3_9184669	Ca8	9184669	ATTTTTTTTT/ATTTTTTTTTTT	AAAGTTTTCCAGAAGCA TACCA	GGTATGGGGTAAAATT TTCGG	59.2	257	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 (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
Ca8_P3_9189476	Ca8	9189476	ATTTTT/ATTTTT	TTTGGTTGAGATCTTCT ACCCTTC	AGGTTCCAATGGATT TGACA	60.0	484	INTERGENIC	--	--	--
Ca8_P3_9201647	Ca8	9201647	CA/CAA	GTCTCGATCGCAAGTC ACAA	GATATACGGCTGAC GGCG	60.0	300	INTERGENIC	--	--	--
Ca8_P3_9201705	Ca8	9201705	GATGTATTATGTAT/GATGTAT	GTCTCGATCGCAAGTC ACAA	GATATACGGCTGAC GGCG	60.0	300	INTERGENIC	--	--	--
Ca8_P3_9208402	Ca8	9208402	TAAAA/TAA	TTTGGATTAGTTGGG CCAC	TGCAACAATAGTGT GCGG	59.8	647	INTERGENIC	--	--	--
Ca8_P3_9214006	Ca8	9214006	ACC/ACCC	CCGAGTTGCGACCACT ATTT	ACACATTGTCAACCGT GCAT	60.1	471	INTERGENIC	--	--	--
Ca8_P3_9217501	Ca8	9217501	GAAAAAAAA/GAAAAAAAA	TACCTTGTTTGCACCA AAA	TGGGAGGAAGTAACGA GGAA	59.2	331	INTERGENIC	--	--	--
Ca8_P3_9218033	Ca8	9218033	ATTTT/ATTTT	CAAAATCAGGTGTTGG CTGA	CGGTGTCAAAGTCAGG GAAT	59.7	730	INTERGENIC	--	--	--
Ca8_P3_9300142	Ca8	9300142	CTTTTTTT/CTTTTTTTT	AAGGCCAACAAATGCA AAAC	GCAATCCCACAGGTA TGCT	60.0	362	DRR	Ca_11551	Q	--
Ca8_P3_9314240	Ca8	9314240	AATATATATATATATATATATATAT ATAT/AATATATATATATATATATATA TATAT	CCTCCGAGTCAAAATC CAAA	GTAATTGTGCGTCGT GTGG	60.0	417	INTERGENIC	--	--	--
Ca8_P3_9355298	Ca8	9355298	TTCT/TT	GAAGAGCTAACAGTTG GCGG	GGAATTGGCAAGTAG TGGA	60.0	431	INTRON	Ca_11556	AR	--

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
Ca8_P3_9357507	Ca8	9357507	G/GATTTTTTT	GATTTGAGATCGGCTG GTGT	TTCAAGCAACTCTGTC TGCC	60.1	659	INTERGENIC	--	--	--
Ca8_P3_9364417	Ca8	9364417	CATACATAATACATAAT/CATACATAAT	TTGTCGGTGAGATTGT GTGAA	CGAATTGATTTTGGGT TTGG	60.1	655	INTERGENIC	--	--	--
Ca8_P3_9364522	Ca8	9364522	ATT/ATTT	TTGTCGGTGAGATTGT GTGAA	AAAGATTGTGATTTTG GCGG	60.1	802	INTERGENIC	--	--	--
Ca8_P3_9397792	Ca8	9397792	ATTTTT/ATTTTTTT	CCGCTCAAAATCATCGT ACA	ACGGGCATCTAATGTT GAGG	59.7	244	INTERGENIC	--	--	--
Ca8_P3_9403569	Ca8	9403569	T/TCATA	ATCAACCACCGCTCAAA ATC	GCAATTACGGGCATCT AACG	59.9	258	INTERGENIC	--	--	--
Ca8_P3_957385	Ca8	957385	AATA/AATACTTCAGGTGATA	ACTGCTAACCCATCAAA CCG	TTCACGAAGGTGACCA TCAA	60.0	664	INTRON	Ca_11821	--	--
Ca8_P3_9950946	Ca8	9950946	CTT/CTTGTCGATT	ACCATGGCTTATTGGT CAGC	TGGCATAATGTCAGAC GCAT	60.0	310	INTRON	Ca_18394	--	--
Ca8_P3_9953316	Ca8	9953316	TTGTGT/TTGTGTGT	AGCAGCAACAACCGTC TTTT	AAAAATCGATCGGGTG CATA	59.9	312	DRR	Ca_18394	--	--
Ca8_P3_9953544	Ca8	9953544	ATTTTTTT/ATTTTTTT	AGCAGCAACAACCGTC TTTT	CGTTTCACAGCGCTT ATT	59.9	698	DRR	Ca_18394	--	--
Ca8_P3_9960024	Ca8	9960024	CATAATAATAAAT/CATAATAATAA ATAATAATAAT	CCATTGGGATGTTTGC TTTT	GCTCATGTGGTGGTGT TTTG	59.8	280	INTRON	Ca_18395	--	--

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
Ca8_P3_9960226	Ca8	9960226	C/CT	CAAAACACCACCACAT GAGC	TGATTGGGACGAACAA CAAA	60.0	184	INTRON	Ca_18395	--	--
scaffold10_P3_92559	scaffold10	92559	TGTC/T	TGGGGTTTAGGGTGTC ACAT	AAAGTCCAACAATCTC CCCC	60.1	381	INTERGENIC	--	--	--
scaffold1003_P3_16983	scaffold1003	16983	TA/TACAAA	CACGATTAAGTGCTCA GCCA	TTTGGCAGCTCTCAA GTTT	60.0	704	INTERGENIC	--	--	--
scaffold1003_P3_41332	scaffold1003	41332	G/GAGCGGT	GGGATTTGAAGGTGCT GAAA	TAGTGGCCACAACCAA CTCA	60.1	452	INTERGENIC	--	--	--
scaffold1003_P3_41354	scaffold1003	41354	TCA/T	GGGATTTGAAGGTGCT GAAA	TAGTGGCCACAACCAA CTCA	60.1	452	INTERGENIC	--	--	--
scaffold1003_P3_41466	scaffold1003	41466	AAAGA/AAAGAAGA	GGGATTTGAAGGTGCT GAAA	TAGTGGCCACAACCAA CTCA	60.1	452	INTERGENIC	--	--	--
scaffold1006_P3_109456	scaffold1006	109456	T/TC	TTGATTTAGCCAGG ATTC	TTTACAAGCAGCGGGA AAGT	60.0	493	INTERGENIC	--	--	--
scaffold1006_P3_244413	scaffold1006	244413	TGG/TG	CGTCTTGCCATCGGAT TATT	TCTTGGACGAGATGGG AAAC	59.9	466	CDS (FRAME SHIFT)	Ca_18018	R	E2F/DP
scaffold1006_P3_338954	scaffold1006	338954	GTGACTT/GT	GAAGCCCCAATTCAAC AAAA	CCCAAAAACATCATGGC CTAA	59.9	312	INTRON	Ca_18027	--	BES1
scaffold1006_P3_393027	scaffold1006	393027	TACGACG/TACGACGACG	GACCAACTCTTGCTATG GGC	CGACAGTTTTGATTCTT TTCTCTG	59.7	886	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 (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
scaffold1006_P3_55306 2	scaffold1006	553062	GTGCTGCTGCTGCTGCTGCT/GTGCT GCTGCTGCTGCT	CTTGCACCAGTATGGG AGGT	AGATTTTCACCCGTTG TTGC	60.0	376	CDS (large-effect mutations)	Ca_18040	--	--
scaffold1006_P3_62152 4	scaffold1006	621524	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATA	TGGGCCACCACTATTT GACT	GTGATTGCGCCATGA TTAG	60.4	803	INTERGENIC	--	--	--
scaffold1006_P3_62493 4	scaffold1006	624934	CT/CTTAAAGAATT	TCCATTGCATAAAAGT TTGTT	TCATTTCTTGCCTCTC CCTT	57.8	123	INTERGENIC	--	--	--
scaffold1006_P3_68191 5	scaffold1006	681915	ATTTTTTTTT/ATTTTTTTTTT	GGGATAGGAACAAAGA GCCC	TGGAAGGCTACCGAAT ATGG	59.9	949	INTERGENIC	--	--	--
scaffold1006_P3_68735 1	scaffold1006	687351	TAAAA/TAAAAA	ATAAACCTCACGGGCT TCCT	TTCTCATCCCTAATGG TGGC	60.0	525	INTERGENIC	--	--	--
scaffold1008_P3_12678	scaffold1008	12678	TC/T	TCTTGGTTGTAACCCCT GGC	GGGCTGATGCCATAAA CACT	60.0	727	INTERGENIC	--	--	--
scaffold1010_P3_93835	scaffold1010	93835	GTTT/GTTTT	CCGCCACCTTTGTTAG TCAT	CTGGTGCAAAAGCAA GACA	60.0	589	INTERGENIC	--	--	--
scaffold10103_P3_4752	scaffold10103	4752	C/CA	CGGAAACCTTATTC CATT	TCCTGGTCCTCGATT CATC	60.0	657	INTERGENIC	--	--	--
scaffold10158_P3_1604 8	scaffold10158	16048	TC/TCC	CTGTGGGGCTATTCT GAAA	AAACGATCAAAATCCAA CCCA	60.1	487	INTERGENIC	--	--	--
scaffold1017_P3_38236	scaffold1017	38236	T/TC	CCATCGTCAAGTCCGA AAAT	AGGGTCTCCTGATCCT CGAT	59.9	358	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
scaffold10180_P3_748	scaffold10180	748	AT/ATT	GGTGAGTTTGTGTCGT TGGA	AGGGAGGACGAAGAT GACCT	59.6	448	INTERGENIC	--	--	--
scaffold102_P3_149763	scaffold102	149763	CAAAAAAAAA/CAAAAAAAAA	ATGGTCCATTGTTAT GCC	TGAATGCCATGGTATC AAAAA	59.5	181	INTRON	Ca_27669	R	--
scaffold1020_P3_199470	scaffold1020	199470	CAAAAAAAAA/CAAAAAAAAA	TGTCGTGTGCTTCAAAA AGG	TTGGCTATTGGGAAGT TTGG	59.9	284	INTERGENIC	--	--	--
scaffold1020_P3_209788	scaffold1020	209788	AG/AGGG	ATTCCATTTTGTGTGG GGA	TGTACATGGGAAATGC CTCA	60.0	758	INTERGENIC	--	--	--
scaffold10218_P3_1170	scaffold10218	1170	T/TG	CATGTTAATTGTGCGG TGG	CATCGTTTTCATCGAG GTCA	59.8	142	INTERGENIC	--	--	--
scaffold10227_P3_6464	scaffold10227	6464	AATATATATATATATATATATATATATATATATA AATATATATATATATATATATATATATATATAT A	GGGAACGTGAAGAACT CAGC	TGCAACAACCAACAACC ACTT	59.9	518	INTRON	Ca_28086	--	bHLH
scaffold10227_P3_8773	scaffold10227	8773	TGCAAAATTTGTTTAC/T	CATGCTGCCTTTGTGAT TTG	AACCACGCCGAAAACA TAAG	60.3	837	URR	Ca_28086	--	bHLH
scaffold1029_P3_128798	scaffold1029	128798	ATTT/ATTTT	CATGTAGGCGATTTTC GTCC	CACACCTATTGGAGGC ACAA	60.3	481	INTERGENIC	--	--	--
scaffold1029_P3_149914	scaffold1029	149914	TAAAAA/TAAAAA	ATGGAGTTGATCTCGG ATGC	ATTCTGGTTCGTTTT CGTG	60.0	858	INTERGENIC	--	--	--
scaffold1034_P3_8833	scaffold1034	8833	AAATAATAATAA/AAATAATAATAATAA	GATTTTCGTACCCCTC GACA	TCTTCGTTATGCAGTC AGTCTTT	59.9	329	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 (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
scaffold10354_P3_668	scaffold10354	668	AAA/AAATAA	AGACAAACCTGCTAAAC CAAAA	TGTTTGTTTTACTCAT CGATTTGA	58.0	631	INTERGENIC	--	--	--
scaffold10356_P3_1034	scaffold10356	1034	GCCCAAT/GCCCAATGGATTCCCAAT	CAATTCGGATCCTTCT TGA	CACTTATGCAAAAAGG GGGA	60.0	839	INTERGENIC	--	--	--
scaffold1036_P3_205006	scaffold1036	205006	ATTGGAATTGGACTTGGAAATTGGACTT GGAATTGGA/ATTGGAATTGGACTTGG AATTGGA	GCAAGCGACTATGGGT AAGG	TACATAGTTACGGAGC CGCC	59.7	273	INTERGENIC	--	--	--
scaffold1038_P3_2468	scaffold1038	2468	AGGG/AGG	TCCAGATGAAATCGAG GACC	TTTTCGGACTAGACGA TGGG	60.0	440	INTERGENIC	--	--	--
scaffold1038_P3_720	scaffold1038	720	TGG/TG	CGAAAATCGCCCAGAA AATA	TCCTGGTCCTCGATT CATC	60.0	842	INTERGENIC	--	--	--
scaffold1039_P3_4419	scaffold1039	4419	GGTAATTT/G	TTGGTATTGAACTCGG AGGC	GTTGGTTCCCTAGCAC CGTA	60.1	608	INTERGENIC	--	--	--
scaffold1039_P3_44681	scaffold1039	44681	AATATA/AATATATATA	AAACCGCTGGAGTTTC AAGA	GGATTTTCCAGCACAT CGTT	59.9	407	INTERGENIC	--	--	--
scaffold1039_P3_48817	scaffold1039	48817	ATTTTTTTTTT/ATTTTTTTT	CGACATGCATGCCTTAT TTG	CATGAGGAAACAATTG TGCAG	60.1	571	INTERGENIC	--	--	--
scaffold1039_P3_49868	scaffold1039	49868	A/AC	CAGGTTGCACAAACAA CACA	TGCATTCCAAATTATG GCG	59.2	625	INTERGENIC	--	--	--
scaffold1041_P3_14642	scaffold1041	14642	C/CAA	TTTTCGTCTCCCTAGG CTT	TGGATGCACAAGATTG GCTA	60.2	160	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 (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
scaffold1047_P3_109934	scaffold1047	109934	TAAAAAAAA/TAAAAAAAAA	AAAGCAGTCCACCAT TTTG	CTAAGCGAAATCAATC CCCA	60.0	829	INTERGENIC	--	--	--
scaffold1047_P3_157349	scaffold1047	157349	AATATTATATATTATATATTATATA/AAT ATTATATATTATATATTATATATTATATA TTATATA	GGAAAGGGCATTTTGG GTAT	GTCTTCTTGCGGTTT GGTA	60.0	770	INTERGENIC	--	--	--
scaffold1047_P3_159189	scaffold1047	159189	CTTTTTTTTT/CTTTTTTTTT	TTGGTGGTGGTGGTA GATT	TTACCCCTTCCTTTTC GTG	60.1	795	INTERGENIC	--	--	--
scaffold1047_P3_280612	scaffold1047	280612	GTTTTT/GTTTTTTTT	GTGTTTCTGGTCACT CCGT	TGGGTTTTAAGACGAT CGAA	60.0	914	INTERGENIC	--	--	--
scaffold1047_P3_287949	scaffold1047	287949	CAAAAAAAAA/CAAAAAAAAAA	TGCAGTCCACCTATTTA TACTCG	AAACAGAACCACATCT CGCC	58.4	442	INTERGENIC	--	--	--
scaffold1047_P3_313122	scaffold1047	313122	GAAAAAAAA/GAAAAAAAAA	AAAATTCACACGTCC GAAG	TCAAAGATCGCAGTT GTGTG	60.0	354	INTRON	Ca_17199	I	--
scaffold1047_P3_338930	scaffold1047	338930	TTTTATTTATTTATTTATTT/TTTAA TTTATTTATTTATTT	TGAATCGTTGCGTCCA TAAG	CCCAATTGTGTTAG TCAA	59.7	491	INTERGENIC	--	--	--
scaffold1047_P3_382693	scaffold1047	382693	TC/TCAC	CGAAGAGGTTTGGGTT TGAA	CGTTTTGGCGTATCCA TTCT	60.1	248	INTERGENIC	--	--	--
scaffold1047_P3_419626	scaffold1047	419626	C/CAAAACATG	CCGATGAAAATTCACC CATC	CCATTGATAAAGCGTG TACGG	60.1	327	INTERGENIC	--	--	--
scaffold1047_P3_45085	scaffold1047	45085	CTT/CTTT	TGAAATGACAATTCAG GCA	CCAAGGTTGGATTCTGA AGTG	60.0	266	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 (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
scaffold1050_P3_149500	scaffold1050	149500	ACGC/AC	TTCGTTCTCCCATGACAC	GGAGGTGCACCAACTCTTA	59.5	676	INTRON	Ca_25917	I	--
scaffold1050_P3_1521	scaffold1050	1521	CTATA/CTATATATA	TGAACCTTCTGCGTTCCCTC	CACGATGGATCTTTTCAGCA	60.4	716	INTRON	Ca_25913	--	Trihelix
scaffold1051_P3_30980	scaffold1051	30980	G/GC	TTTGTGTCAGGGGATTACACA	AGGGAGGACGAAAATGACCT	59.9	142	INTERGENIC	--	--	--
scaffold1052_P3_10999	scaffold1052	10999	TGGG/TGG	CCACATTGTAACCCCTTGCT	AATGATCGTCTTCGGATTGG	59.9	717	INTERGENIC	--	--	--
scaffold1052_P3_16411	scaffold1052	16411	ATT/AT	CCGTTGTTTCAACTTCCACC	GCAGCAGCCATTTCATACAGA	60.4	323	INTERGENIC	--	--	--
scaffold1052_P3_16426	scaffold1052	16426	T/TG	CCGTTGTTTCAACTTCCACC	GCAGCAGCCATTTCATACAGA	60.4	323	INTERGENIC	--	--	--
scaffold1052_P3_16554	scaffold1052	16554	G/GA	CCGTTGTTTCAACTTCCACC	GCAGCAGCCATTTCATACAGA	60.4	323	INTERGENIC	--	--	--
scaffold1052_P3_233350	scaffold1052	233350	TAA/TA	TAACAAAACGCAACCGACAC	TGTCAGAAAACACCATGGAATTG	59.6	456	INTERGENIC	--	--	--
scaffold1052_P3_315208	scaffold1052	315208	GATATATATATATATATA/GATATATATATATATA	ATTGAAAACACGAACCAACAA	TAATGTGTACACGTCTTCGCC	60.2	688	INTERGENIC	--	--	--
scaffold1052_P3_49557	scaffold1052	49557	TAAAAAAAAA/TAAAAAAAAA	TTGTGTTGGAGTTGTGTTGATTG	TTCATAATTTCAAACCTTCCTTGG	59.9	432	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
scaffold1052_P3_58908	scaffold1052	58908	T/TC	GAAAAAGATTTTATGCG ATTTTACG	GTTTGGCGTTGGTT CACT	59.5	889	INTERGENIC	--	--	--
scaffold1052_P3_67863	scaffold1052	67863	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATATATATATATAT	TCGAAACTCACCTCCTT CGT	TGTTTGACACTCTA AATTCCAA	59.8	479	INTERGENIC	--	--	--
scaffold1052_P3_77952	scaffold1052	77952	TAAA/TAA	TCTGCTAACGGTCTCT	GTTGGAATTCTGAGG CAGT	60.0	903	INTERGENIC	--	--	--
scaffold1052_P3_98762	scaffold1052	98762	GATATATATATATATATATATATATA TATA/GATATATATATATATATATATA TATATATATATATATA	GAAATTTGGACGAAAA CGGA	CATGTATATTCGCACA CCCAA	59.9	710	INTERGENIC	--	--	--
scaffold1055_P3_15784 8	scaffold1055	157848	TTATATATATATATATATATATATATA TATATATA/TTATATATATATATATAT ATATA	CGGAACTCATTGTCAT CCA	TCATAACGGAGAAGT CGGG	59.5	625	INTERGENIC	--	--	--
scaffold1055_P3_20613 0	scaffold1055	206130	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/A TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATT	TTTATTGCCTGCCCAA CTC	GGAACCAGCAACTGCA AAAT	60.1	608	INTERGENIC	--	--	--
scaffold1055_P3_33931 9	scaffold1055	339319	ATTTTT/ATTT	TTTAAGGTGTGGGACC AAGC	GGAAACAATAAACCGA GGCA	60.0	540	INTERGENIC	--	--	--
scaffold1055_P3_34005 1	scaffold1055	340051	GAAAAAAA/GAAAAAAA	TGTTGTCGGCATACG ACAT	TGCACATACATAATGG ACCACA	60.0	516	INTERGENIC	--	--	--
scaffold1055_P3_34049 1	scaffold1055	340491	TT/TATCT	TGCAATAAAGCTTTTGA AGTGG	ACATACTCCCTCACTC CCCC	59.4	413	INTERGENIC	--	--	--
scaffold1055_P3_34064 1	scaffold1055	340641	ATGGGGGAGTG/ATG	TGCAATAAAGCTTTTGA AGTGG	AAGTTGTGTCAACATT GCCA	59.4	813	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 (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
scaffold1055_P3_50824	scaffold1055	50824	C/CG	TGCCAACATTCATTCCG ATA	GAAAAAGTCGAGCATT CGAG	59.9	736	INTERGENIC	--	--	--
scaffold1055_P3_56180	scaffold1055	56180	GGGAGGAG/GGGAGGAGGAG	GCACCGTGAGTAAATT CGGT	CTTGGGCTGCTAAGAA TTGC	60.0	577	INTERGENIC	--	--	--
scaffold1055_P3_56313	scaffold1055	56313	ATAT/ATATCTAT	GCACCGTGAGTAAATT CGGT	CTTGGGCTGCTAAGAA TTGC	60.0	577	INTERGENIC	--	--	--
scaffold1055_P3_62324	scaffold1055	62324	TACACA/TACACACA	TAGGCCCAAAAGCTCA CAAC	ACCACCATCTTACTTC CCCC	60.2	528	INTERGENIC	--	--	--
scaffold1056_P3_11619 7	scaffold1056	116197	ACCGAGCCGAGCCGA/ACCGAGCCGA GCCGAGCCGAGCCGA	ACCTTGTGGATGGCAG TTTC	TGGCATTGATGATGTC TTTA	60.0	342	INTERGENIC	--	--	--
scaffold1056_P3_13830 1	scaffold1056	138301	T/TAGGGAAAGTCG	CGCTGTAAAAATCGG GGTA	TGGGAAATCCTACAAT CCCA	60.0	767	INTERGENIC	--	--	--
scaffold1056_P3_14281 0	scaffold1056	142810	TAAAAAAAAA/TAAAAAAAAA	TTGCTCCTACGTATCCC CAG	TGGCCACAAGAGACA ATGA	60.1	705	INTERGENIC	--	--	--
scaffold1056_P3_16045 2	scaffold1056	160452	CATATATATATATATATATATATATAT /CATATATATATATATATATATATATAT TATATATATATAT	TATTTTGGATTTTGGCT CGG	TGGTGGTAAGCAACTT TCCC	59.9	663	INTERGENIC	--	--	--
scaffold1056_P3_52581	scaffold1056	52581	AATTCAATCAC/AATTCAATCACATTCA ATCAC	ATCCCTGC AAACTTGC ACT	CAC TTTTGGAGGACTT TCGG	59.7	526	INTERGENIC	--	--	--
scaffold1060_P3_30588 7	scaffold1060	305887	CA/CAA	CGGTGACATAAATGAC CGTG	CAAAATGGACAAAATT GGGG	59.8	392	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 (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
scaffold1060_P3_376428	scaffold1060	376428	A/ACGTCTCTG	CTCTCTCGTCCCTCCC TCTT	TGGACAACTCCTAG TGGC	59.9	302	INTERGENIC	--	--	--
scaffold1060_P3_45190	scaffold1060	45190	T/TTGTACAATG	TTTCCTTTCAACCCAGC ATC	ACAAACAGGGCAAACC TCAC	60.1	497	INTERGENIC	--	--	--
scaffold1060_P3_496732	scaffold1060	496732	TTTATTATTATTATTATTATTATTAT TATTATTAT/TTTATTATTATTATTAT TATTATTATTATTATTAT	CGTGACCTTGATAGAA ACCCA	AAAAGGGAGCTGTCCC AAGT	60.0	968	INTERGENIC	--	--	--
scaffold1060_P3_65202	scaffold1060	65202	ACTTCTTCT/ACTTCT	GTCCCTGCAGTATCC TTGT	ACAACCTTCTGAAGA CCCC	60.0	464	INTERGENIC	--	--	--
scaffold1060_P3_697	scaffold1060	697	TTGTGTGTGTGT/TTGTGTGTGT GTGT	GTGATAAGGCGTCAA CGGT	CCAAGGCAGACAAAGA AAGC	60.0	410	INTRON	Ca_21773	--	ERF
scaffold1060_P3_76271	scaffold1060	76271	AATATATATATATATATATA/AATATA TATATATATATATATA	TTTGCTTGCTTGCTCCT TTT	ACCATCGTTTGCTCC CAAC	60.1	531	INTERGENIC	--	--	--
scaffold1061_P3_21088	scaffold1061	21088	TGTTTAGGGTTA/TGTTTAGGGTTAG GGTTA	GGTCCTCGATTTCATCT GGA	ATAACCCGAACCTCAA ACCC	60.0	348	INTERGENIC	--	--	--
scaffold1061_P3_31501	scaffold1061	31501	ATTTTTTT/ATTTTTTT	TCGTTATGCAGTCAAA CTCA	CGTGTGTGAAATATGG CACG	59.3	618	INTERGENIC	--	--	--
scaffold1061_P3_32882	scaffold1061	32882	T/TC	ACTAACCATCGTTTGGC CTG	GCAATTTCTGACCCC TTGA	60.0	227	INTERGENIC	--	--	--
scaffold1061_P3_33010	scaffold1061	33010	ATT/ATTT	TGCCCGAAAGTCTAG AAGA	TGTATTTCCGACCAC ACGA	59.9	453	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 (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
scaffold1061_P3_49764	scaffold1061	49764	TAAA/TAA	CCTTGTACACAGTTG GCTG	TCTTGTTGTAACCCT TGGC	60.3	150	INTERGENIC	--	--	--
scaffold1061_P3_76996	scaffold1061	76996	CGG/CG	TATTGGACCAGAGGA TGGC	CCCAAACAGTAGGACC AGGA	59.9	109	INTERGENIC	--	--	--
scaffold1061_P3_77938	scaffold1061	77938	GTTT/GTT	TCAACGAAATCGATTG GACA	TTTGCAATGGGCTAA ACTC	60.0	502	INTERGENIC	--	--	--
scaffold1067_P3_19063 2	scaffold1067	190632	GTTT/GTTTTT	TCGCGTAGTGGTAGCC TTCT	TCACAAGGGAGGCTCT ATGG	60.0	182	INTERGENIC	--	--	--
scaffold1067_P3_20310 1	scaffold1067	203101	ATTTTTTT/AATTTTTTTT	TGAAACTGGGAGGAGG AAGA	CAGTGCGATGGAGAAA TCAA	59.8	418	DRR	Ca_24425	--	--
scaffold1067_P3_22089 2	scaffold1067	220892	G/GAGC	CCAATCCGATATCCAGT GCT	CTCCACCCTGGTGAAC TCAT	59.9	517	INTERGENIC	--	--	--
scaffold1067_P3_22248 5	scaffold1067	222485	C/CGACAGGGT	AAGCAACCCAACAAACA AGG	ACTCTTAGCGAATCCC AGCA	60.0	207	INTERGENIC	--	--	--
scaffold1067_P3_22912 9	scaffold1067	229129	CTTTT/CTTTTT	ACATGGTTCGGAAACG TAGG	TCCATGCAAGAAGAGC TCAA	59.9	341	INTERGENIC	--	--	--
scaffold1067_P3_23860 7	scaffold1067	238607	T/TCGAC	AGCATGCGGTATGTTA AGGG	CCAACCTCCGATAGCA AAAA	60.0	197	INTERGENIC	--	--	--
scaffold1067_P3_23867 7	scaffold1067	238677	C/CT	AGCATGCGGTATGTTA AGGG	CCAACCTCCGATAGCA AAAA	60.0	197	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
scaffold1067_P3_243237	scaffold1067	243237	AGGGG/AGGGGG	TTATTGTTGTTGCTTGG GCA	TCTTGTGTTGGGTAA GGGC	60.1	447	INTERGENIC	--	--	--
scaffold1067_P3_243320	scaffold1067	243320	TATCCAAAT/TATCCAAATCCAAAT	TTATTGTTGTTGCTTGG GCA	TCTTGTGTTGGGTAA GGGC	60.1	447	INTERGENIC	--	--	--
scaffold1067_P3_243478	scaffold1067	243478	TTCT/TT	GCCCTTAACCCAACAC AAGA	GAACGGCCACAACCTA CATT	60.0	230	INTERGENIC	--	--	--
scaffold1067_P3_243540	scaffold1067	243540	AGGGTTGGG/AGGG	GCCCTTAACCCAACAC AAGA	CTCCCGTTGTGGAAC TATT	60.0	594	INTERGENIC	--	--	--
scaffold1067_P3_243805	scaffold1067	243805	CAAGCCT/CAAGCCTAAAGCCT	GCCCTTAACCCAACAC AAGA	AGCGCACCCTATACCG AAGT	60.0	643	INTERGENIC	--	--	--
scaffold1067_P3_263503	scaffold1067	263503	AAAGCTAGTCAGCA	CAGTGAGTAGCAAGCA AGCG	CCCAGCCTAGTGACAT CCAT	60.0	445	INTERGENIC	--	--	--
scaffold1067_P3_264019	scaffold1067	264019	TCT/CTGCT	ATGGATGTCAGTAGGC TGGG	CGCAGCGCAGTAGTGA GTAG	60.0	299	INTERGENIC	--	--	--
scaffold1067_P3_265465	scaffold1067	265465	CTACAT/CT	TTTTCTTCTGCCTGCA CTT	ACCCGGTTTACCCCTA TCTG	60.0	436	INTERGENIC	--	--	--
scaffold1067_P3_266043	scaffold1067	266043	CTTTTTTT/CTTTTTTT	ATCCAGAATGGAGCAA CTGG	CGGAGAAATCCGTTTT GCTA	60.1	575	INTERGENIC	--	--	--
scaffold1067_P3_269560	scaffold1067	269560	TAAAA/TAAAAAATAAAA	ACGAGGGGAGTGGAAG TTTT	TCCACAAGTCGATCA ATCA	60.0	505	DRR	Ca_24430	--	--

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 (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
scaffold1080_P3_5284	scaffold1080	5284	GT/G	TCCCTCGTTGATTCGAA AAC	ATTCCTCCATTCTTAAC GCCT	60.1	837	INTERGENIC	--	--	--
scaffold1081_P3_86270	scaffold1081	86270	GAAAAAAA/GTAAAAAAA	TTATTCGGGCCTGTCA AAAC	CATGCGTTCCTTGTGG TAGA	59.9	251	INTERGENIC	--	--	--
scaffold1081_P3_88052	scaffold1081	88052	TT/TTGT	TGAGCATGGCTAAGTT GCAC	AAGGGGAAGGGCATAA TGTT	60.0	522	INTERGENIC	--	--	--
scaffold1082_P3_19854	scaffold1082	19854	AC/ACATAAATC	TTTGGCACTTATTGGAC GAA	CGGTTTCGGGTTTATG GTTA	59.2	676	INTERGENIC	--	--	--
scaffold1082_P3_20939	scaffold1082	20939	CCGTTAACCT/CCGTTAACCTTAATC GTTAACCT	TTGGACGAAGTCAAT GAAT	GTTTAGGGTTTGGGT TTGG	59.1	372	INTERGENIC	--	--	--
scaffold1082_P3_21212	scaffold1082	21212	ACCTAAACCCTAAACCCTAA/ACCTAA CCCTAA	TTGGACGAAGTCAAT GAAT	CGGTTTCGGGTTTATG GTTA	59.1	687	INTERGENIC	--	--	--
scaffold1083_P3_119419	scaffold1083	119419	TG/TGG	AGGGAGGACGAAAATG ACCT	CATCGATGAGGTGTGC TTGT	59.9	556	INTERGENIC	--	--	--
scaffold1083_P3_122050	scaffold1083	122050	C/CT	AAGCCTAGGGAGGACG AAAA	AACGAATCATGTGCAT CCAA	60.2	772	INTERGENIC	--	--	--
scaffold1087_P3_12601	scaffold1087	12601	CTT/CTTT	GCTTAGGCAGCCACAA AATC	CGGTTATTTGATATCA CGGGTT	59.9	732	INTERGENIC	--	--	--
scaffold1087_P3_13529	scaffold1087	13529	TTTTATTTATTTATTATT/TTTTATTAT TTATT	TTCCGCATAACACTAAG TGCC	CCATGCTAATGGATGC TGTG	60.1	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 (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
scaffold1087_P3_14399	scaffold1087	14399	CGAGAGA/CGAGA	TGGGTTGTACCGTTAAT TGG	ACCCCAAATTATGCCA TGAA	58.3	810	INTERGENIC	--	--	--
scaffold1087_P3_14921	scaffold1087	14921	TAAAAAA/TAAAAA	TTTCATGGCAATATTTGG GGT	AACTTGATTCTGGCC AACG	60.0	623	INTERGENIC	--	--	--
scaffold1087_P3_16445	scaffold1087	16445	GTT/GT	TACGCCGGTTTAATCTC CAC	GGGATCTTGCCACAT AAAA	60.0	577	INTERGENIC	--	--	--
scaffold1087_P3_16545	scaffold1087	16545	AATATATATATATAT/AATATATATATAT ATATATATAT	TACGCCGGTTTAATCTC CAC	GGGATCTTGCCACAT AAAA	60.0	577	INTERGENIC	--	--	--
scaffold1087_P3_16637	scaffold1087	16637	T/TC	TACGCCGGTTTAATCTC CAC	GGGATCTTGCCACAT AAAA	60.0	577	INTERGENIC	--	--	--
scaffold1087_P3_23029	scaffold1087	23029	CTTTTTTTTT/CTTTTTTTTT	TGCACCACGAGATCTT GAAA	CGTTGATACATAACAA AAATACAAACA	60.4	597	INTERGENIC	--	--	--
scaffold1087_P3_23220	scaffold1087	23220	T/TG	TGTGGGATATCAAGTTT TGGA	AAAAATGCACGGGACA AATA	57.9	704	INTERGENIC	--	--	--
scaffold1089_P3_12635	scaffold1089	12635	ACCCATATC/AC	CTCGTCGGACCATCAT TTTT	ACTCTGATGCGCTTCC TGAT	59.9	534	INTERGENIC	--	--	--
scaffold1089_P3_61432	scaffold1089	61432	ATTTTTTTT/ATTTTTTTT	CCTCAGATGAGAGCCA GGAC	CGCTCAACCTCTTTCT TTGG	59.9	483	INTERGENIC	--	--	--
scaffold1092_P3_10821 2	scaffold1092	108212	AGGG/AGG	TCCTCCCAGGCTTATT CTT	TTGCCTAAAAACCCGA ATTG	60.0	544	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
scaffold1092_P3_121415	scaffold1092	121415	AT/A	AGGTCATTTTCGTCCTCCT	AATCCAATGGCACAAA CACA	59.9	648	INTERGENIC	--	--	--
scaffold1092_P3_139231	scaffold1092	139231	GTTT/GTTTT	TCCTCGCCAGGCTTAT TCTA	ATCCAACGACACGAAG GAAC	59.9	281	INTERGENIC	--	--	--
scaffold1092_P3_139912	scaffold1092	139912	CAAA/CAA	AGGTCATTTCCGTCCT CCTT	TTAATCCGATGGCACA AACA	59.9	696	INTERGENIC	--	--	--
scaffold1092_P3_21909	scaffold1092	21909	T/TG	CCCCAAGGTTTATCCT GGTT	TTTTGTGTGAGTCTGC CGAG	60.0	209	INTERGENIC	--	--	--
scaffold1092_P3_83003	scaffold1092	83003	GTTTTT/GTTTTT	TAACCAATCTGTGCGT CCA	AATAGGCCTAGGAGG ACGA	60.1	280	INTERGENIC	--	--	--
scaffold1101_P3_3795	scaffold1101	3795	TCC/TC	TTGGCTCATTGCTTGA GTTG	AGCCAAGGGAGGATG AAAAT	60.0	214	INTERGENIC	--	--	--
scaffold1102_P3_7455	scaffold1102	7455	CAAAA/CAAAA	AGGGAGGACGAAAATG ACCT	AACCAATGTTGTGCAT CCAA	59.9	470	INTERGENIC	--	--	--
scaffold1109_P3_114315	scaffold1109	114315	ATTT/ATT	TCCCTACTCGTAATCGA CGC	ACTCAGCCCGGGTATA GAGC	60.2	392	INTERGENIC	--	--	--
scaffold1109_P3_14028	scaffold1109	14028	ATTTTTTTTTTTT/ATTTTTTTT	TTTGAAAACCTCACCAA GGG	TAAACTGTGAGGGCG AAGA	59.9	416	INTERGENIC	--	--	--
scaffold1109_P3_14081	scaffold1109	14081	GTT/GTTAATT	TTTGAAAACCTCACCAA GGG	TATAAACTGTCAGGGG CGAA	59.9	418	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PilI)	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
scaffold111_P3_128540	scaffold111	128540	ATTTTTTTTTTT/ATTTTTTTTTTTT	AACGGGAATGGACTTT ACGA	TATGACAATCCCCGAC AACA	59.4	507	INTERGENIC	--	--	--
scaffold111_P3_51146	scaffold111	51146	GAAAAAAAAAAAA/GAAAAAAAAAAA	TTGAAGGACTCAAGGT TGGAA	TTTGTTTGCCTCTCTT CCCTC	59.7	545	INTERGENIC	--	--	--
scaffold1115_P3_19677	scaffold1115	19677	GATATATATATATATATATATATATA TATATATAT/GATATATATATATATAT ATATATATATATATATATAT	AGGTGGAGCCAAAGT TCAC	AAGCCCTCACAAATG CTTG	59.2	864	INTERGENIC	--	--	--
scaffold1115_P3_82478	scaffold1115	82478	TTATATATATATATATATATATATATA TATATATA/TTATATATATATATATAT ATATATATATA	AATGTGGCATTCGCATT GTA	AAATGTTCGCTTGCCT ATGG	60.0	643	INTERGENIC	--	--	--
scaffold1116_P3_10494	scaffold1116	10494	TCC/TC	CAGACTTTCAGCGTC ACAA	AAGAAAAACAAGACAC GCGA	60.0	506	INTERGENIC	--	--	--
scaffold1116_P3_118274	scaffold1116	118274	AATAT/AAT	TGCAGTCAAAC TTTAAC AAGAAGAT	TTTGACAAC TCAATTTT GTTCTATTT	58.6	608	INTERGENIC	--	--	--
scaffold1116_P3_132287	scaffold1116	132287	ATTTTT/ATTTT	GATTGCACAGAGCAGA GGTG	TGGGCAACAACCATT GTGA	59.6	508	INTERGENIC	--	--	--
scaffold1116_P3_139409	scaffold1116	139409	GATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAA/GATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAA	TAAGTTGTCTGGGGA GGTG	GTGCCAGTCGATTGCC TAAT	60.0	705	INTERGENIC	--	--	--
scaffold1116_P3_42811	scaffold1116	42811	TC/TCC	GATGAAACCGAGGACC AAGA	GTGTTTTCGACCAGA CGAT	60.1	599	INTERGENIC	--	--	--
scaffold1116_P3_49999	scaffold1116	49999	CGGG/CGG	GCAATGGGGATTGAA TCAT	GAAGCTCAGATGGCAC ACAA	59.6	490	CDS (FRAME SHIFT)	Ca_27132	--	--

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
scaffold1116_P3_94918	scaffold1116	94918	TATAATAATAATA/TATAATAATAATAA A	TCTTCGTTATGCAGTCA AACCT	ACCCAACAAAAATGGA CCAA	58.9	728	INTERGENIC	--	--	--
scaffold1118_P3_29890	scaffold1118	29890	GCTTCTTCTTCTTCTTCTTCTTCTTCTT C/GCTTCTTCTTCTTCTTCTTCTTCTTCTT TTCTTC	AACGTTCTCCGTTTGTA GCG	TTTGAGACCAATGGT GACA	60.3	752	INTERGENIC	--	--	--
scaffold1118_P3_34583	scaffold1118	34583	AATTATTATTATTATTATTATTATT/AA TATTATTATTATTATTATT	CGGGTTGAGTTGTTGT TCCT	TTGGTTTCAAGAAGGA TGCC	60.0	721	INTERGENIC	--	--	--
scaffold1120_P3_11138	scaffold1120	11138	C/CA	TTTCATCCAAAGAACTCTG GGC	TGCAAGAGGAGTGCCT TTCT	60.0	486	URR	Ca_27900	--	--
scaffold1120_P3_44664	scaffold1120	44664	TCC/TC	AACCAATCTTGTGCATC CAA	AGGGACAAAGAAAATG GCCT	59.0	470	INTERGENIC	--	--	--
scaffold1128_P3_13792 1	scaffold1128	137921	CCTAAAC/CC	GGTCGCTAATCCGGTC ACTA	TGTTGCAAAGCAAGAA GCAC	60.1	703	DRR	Ca_23729	--	--
scaffold1128_P3_14512 0	scaffold1128	145120	CTATATATATATATATATATAT/CTATAT ATATATATATATATATATATAT	ATGTGGCCCTTTTACA GCAC	ATGTGAATCCACCAG GAAA	60.0	533	INTERGENIC	--	--	--
scaffold1128_P3_15175 7	scaffold1128	151757	CTTTTTTTTTTTTT/CTTTTTTTTTTTTT	TTTGACTCCCCACTTAT GGC	TGTTTCGCCTCTTTGG AGTC	59.9	597	INTERGENIC	--	--	--
scaffold1128_P3_17931 5	scaffold1128	179315	CTTT/CTT	TTGGACAGTGGTGCT CAAG	CCCATGGTCACTTCTC ACCT	59.9	778	INTERGENIC	--	--	--
scaffold1128_P3_21752 9	scaffold1128	217529	TGTATTCGTTGGGTAT/TGTATTCGTTG GGTATTCGTTGGGTAT	ATGGGGTTGTCTGGCT TATG	CTGCCCCCACTATTTC TTGA	59.8	207	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 (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
scaffold1128_P3_235840	scaffold1128	235840	TACAA/T	CCTTGCAAGAATCCATCAT	AAATCCCTTCATCCAAACCC	59.9	752	INTERGENIC	--	--	--
scaffold1128_P3_394641	scaffold1128	394641	AACACACACACACACACACA/AACACACACACACACACACACA	AACAAAAGCAAGGCAGGCTA	GGAGATCTGAACGAAGCAGG	60.0	595	INTERGENIC	--	--	--
scaffold1128_P3_412881	scaffold1128	412881	AATTAATA/AATTAATATTAATA	CCATGATAAAGGAAACTCCAAAA	CAAATTGAAAAGTGGGCGAT	59.4	505	DRR	Ca_23739	--	--
scaffold1128_P3_421286	scaffold1128	421286	TA/T	ATCCGAATCAAATAGCCCAA	GCACATGTACACGCACATA	59.4	690	INTERGENIC	--	--	--
scaffold1128_P3_479004	scaffold1128	479004	ACAAAATTCAGCAAAATTCAGC/ACAAAATTCAGC	CCTGACACAGCTCCAGTCAA	GGAGGGTTTTGTTTGAAT	60.0	812	INTERGENIC	--	--	--
scaffold113_P3_2677	scaffold113	2677	TAAA/TAA	AGGGAGGACGAAAAATGACCT	TTTCCCAATCGATTTGCTTC	59.9	337	INTERGENIC	--	--	--
scaffold1131_P3_139740	scaffold1131	139740	GAAAAAAA/GAAAAAAA	AGAAAGGCTCAACGCCAA	AAGATGCGTTGAGAAGCGAT	59.9	737	INTERGENIC	--	--	--
scaffold1131_P3_17672	scaffold1131	17672	TTATATATATATATATATATAT/TTATATATATATATATATAT	AGGGTACGAGCAAGGTCAA	TTCCAATTCATCTTGGGAGC	59.7	862	INTERGENIC	--	--	--
scaffold1131_P3_30056	scaffold1131	30056	AG/AGG	AGTCGGTACAACCACTCCC	TGTGGTGTTCTTGGTGAGAGA	59.7	701	INTERGENIC	--	--	--
scaffold1131_P3_41349	scaffold1131	41349	GATATATATATATATATAT/GATATATATATATAT	TTGGATGTCGCATGAATTTT	GAGGGAAATTCAGCTTGGTG	59.0	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1133_P3_795	scaffold1133	795	GT/GTTTTT	GCATCCAATTGGTGTG TTTG	AGGGAGGACGAAATG ACCT	59.8	254	INTERGENIC	--	--	--
scaffold1135_P3_10616	scaffold1135	10616	AT/A	TGTTGGTCAAAGGTGT TGGA	TGGACTTCAATTGGT CCTTG	60.0	484	DRR	Ca_26842	--	Dof
scaffold1135_P3_14111	scaffold1135	14111	TTAAATAAATAAATAA/TTAAATAAATAA ATAAATAA	TCTGGCACATGAACCTC AGC	CACTCGACAATTGGGA GGTT	60.0	532	INTRON	Ca_26843	--	SAP
scaffold1135_P3_73315	scaffold1135	73315	GA/G	TTGAATTTTGTCTTAT TGGACGA	TTTTAGGTTTTCGTTT CGG	59.9	198	INTERGENIC	--	--	--
scaffold1135_P3_74034	scaffold1135	74034	AAACCCT/AAACCCTTAACCCT	CAAACCCTAAACCCAA CCC	AGGTCATTTTGGTCTT TGGTG	60.4	358	INTERGENIC	--	--	--
scaffold1135_P3_74988	scaffold1135	74988	TCTAAACCCTAAACCCTAA/TCTAAACC CTAAACCCTAAACCCTAA	ACCCAAACCCTTAACCT TCC	CGGTTCGGGTTTATGG TTTA	59.2	291	INTERGENIC	--	--	--
scaffold1135_P3_9704	scaffold1135	9704	GTTTGTGCT/GT	TTTCGGTTGGGTTTGC TTAC	TACCCGTGCTCAACAT CAAG	60.0	704	INTERGENIC	--	--	--
scaffold1139_P3_1393	scaffold1139	1393	CT/CTTT	TCATCCAGTGTGGGGT ACAA	TTGTGTGTGTGGAGA TGAGC	59.8	313	INTERGENIC	--	--	--
scaffold1139_P3_1605	scaffold1139	1605	TAACAACAA/TAACAACAACAA	TCATCCAGTGTGGGGT ACAA	TTTGAGAATTTGGGAT GGAAA	59.8	785	INTERGENIC	--	--	--
scaffold1142_P3_4296	scaffold1142	4296	T/TGA	AGGTCATTTTCGTCTC CCT	TTGCATGCACAAGATT GGTT	59.9	268	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
scaffold1145_P3_15770	scaffold1145	15770	ATATTATTATTATTATTATTA/ATAT TATTATTATTATTATTA	TGGCACAAATCATCAT CATT	GCGCATTCTTCATCTT CTCC	59.8	496	INTERGENIC	--	--	--
scaffold1145_P3_3417	scaffold1145	3417	TAAAA/TAAA	CGCACATATACAGTAA AATCG	AGGTGAGGGCTTTGAG GATT	58.2	439	INTERGENIC	--	--	--
scaffold1145_P3_3697	scaffold1145	3697	ATT/AT	AATCCTCAAAGCCCTCA CCT	TTCCACTTCCTTTTCCA CCA	60.1	242	INTERGENIC	--	--	--
scaffold1145_P3_3948	scaffold1145	3948	ACTTCT/ACTTCTTCT	AATCCTCAAAGCCCTCA CCT	TTTTGGAACCTTCGTC CTTT	60.1	750	INTERGENIC	--	--	--
scaffold1145_P3_4369	scaffold1145	4369	GT/GTT	CATGAGTGCTGTCGAA GTGG	GTGGGAGTAATGTTGT GCCA	60.5	704	DRR	Ca_26365	A	--
scaffold1145_P3_4509	scaffold1145	4509	GAA/GAAA	ACCAAAACAAGGCTGGT CAAA	GTGGGAGTAATGTTGT GCCA	60.5	122	DRR	Ca_26365	A	--
scaffold1145_P3_4595	scaffold1145	4595	TAATAAAATAAAATAAA/TAATAAAATA AAA	TTGGCACAACTACTC CCA	GAAACAAATCAGTCCA AGCGA	60.0	329	DRR	Ca_26365	A	--
scaffold1145_P3_7358	scaffold1145	7358	TAAAA/TAAAAAA	TGAATTTTCCAAGTATT GCATCC	GTTAAGGGACCGCAAG AACA	60.2	614	INTERGENIC	--	--	--
scaffold115_P3_52073	scaffold115	52073	GA/GACTA	CAATTAACACAAACGCC CCT	TTGGCCTCCCTAGGCT TATT	59.9	577	INTERGENIC	--	--	--
scaffold1151_P3_112560	scaffold1151	112560	TA/TAA	TGGGCAAGTCAACAAC TTCA	GCATTGATTATGCCG ATCT	60.3	367	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 (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
scaffold1151_P3_127380	scaffold1151	127380	AGG/AG	ACCATATTCCTTCCCC GTC	AAAACCGGAAAAATCC CATC	60.0	657	CDS (FRAME SHIFT)	Ca_22330	S	ERF
scaffold1151_P3_18791	scaffold1151	18791	CTTT/CTTTT	AGCCGTCATGACTTTT GTCC	ACGACCCCTTTGTTGA GACA	60.1	392	INTERGENIC	--	--	--
scaffold1152_P3_115530	scaffold1152	115530	T/TA	ACAAGATGGGACAAAC AGCC	TCCTTTTCATCCTCCGT TTG	60.0	460	INTERGENIC	--	--	--
scaffold1152_P3_7028	scaffold1152	7028	CGGAGGA/CGGA	GAATTTGGCGTCAGAA ATTGA	CTGTGCAAAATGGTGGT TTTG	60.1	433	INTERGENIC	--	--	--
scaffold1153_P3_42120	scaffold1153	42120	TTATTTCT	GGAGGTGGAGTACAGC AGCA	GCCCCTTTTATCATTG GCTC	61.4	803	INTERGENIC	--	--	--
scaffold1159_P3_27402	scaffold1159	27402	TG/TGG	AGGGAGGACGAAAATG ACCT	CCTTCCTTGGCTTGTT CTTG	59.9	345	INTERGENIC	--	--	--
scaffold1161_P3_9388	scaffold1161	9388	A/AGG	TCAATAGCGAGTGTGT TCGG	GCCACAAAATGGTCC AAAA	59.9	559	INTERGENIC	--	--	--
scaffold1174_P3_23485	scaffold1174	23485	GTTTTT/GTTTTTTT	TTGTGCCTCCAATAGG TG TG	AGGGAGGACGAAAATG ACCT	59.6	464	INTERGENIC	--	--	--
scaffold1174_P3_25258	scaffold1174	25258	A/AAG	AACCAATCTTGTGCAAC CAA	GGTGACAAAAATGGC CTAA	59.0	871	INTERGENIC	--	--	--
scaffold1175_P3_6324	scaffold1175	6324	ATTTT/ATTTTT	CCGCGTCATATGTCAA ACAC	GGTCCTCGATTTCATC TGGA	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 (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
scaffold1178_P3_10342	scaffold1178	10342	AATTATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT AT/AATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT AT	AAAGGCACCTATCAGC AGGA	TGGTACACAGCCATGT GGTC	59.8	540	INTERGENIC	--	--	--
scaffold118_P3_104154	scaffold118	104154	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATAT A	CTCGAGCAGGAGGATC AAAC	TCCGGTACCGCAAGTA AATC	60.0	861	INTERGENIC	--	--	--
scaffold118_P3_129054	scaffold118	129054	CAAAAAAAAA/CAAAAAAAAA	AGGGAGGTCGGCTAGA TGAT	TGAGGACTGGACGTAG CCTT	60.1	350	INTERGENIC	--	--	--
scaffold118_P3_159976	scaffold118	159976	TAAAAAAAAAAAA/TAAAAAAAAAAAA	CTCCATGACATGCAATC ACTTT	AGAGGGACTAGCTACC CCGA	60.0	496	INTERGENIC	--	--	--
scaffold118_P3_173557	scaffold118	173557	TTATATATATATATATA/TTATATATATA TATATATA	TGTCATGCTAATATCG CCA	TGGATGGATTCTAGT TGCCCTT	60.1	489	INTERGENIC	--	--	--
scaffold118_P3_188968	scaffold118	188968	A/AC	AATAGGGGTGCAAAAC GTCG	GGTGTTCGAAAGGGAT CTGT	60.0	731	INTERGENIC	--	--	--
scaffold118_P3_25662	scaffold118	25662	GAAAAAAAA/GAAAAAAAA	TATGGACCGAAATGG ATGT	CGTTTAGCCTCGTAGG TTCG	60.0	566	INTERGENIC	--	--	--
scaffold118_P3_408049	scaffold118	408049	CGATTTC/CGATTCCAAATTGATTTC	TGGGCAATCAACTGAA TGAA	CTCGTGTTCGTTCTGT AGAA	60.0	639	INTERGENIC	--	--	--
scaffold118_P3_507823	scaffold118	507823	GAAAAAAAA/GAAAAAAAA	AAAAAGATTGGGTGCG TTTG	CCCAGTTGTGTTGCCT TTGT	60.0	472	INTERGENIC	--	--	--
scaffold118_P3_560783	scaffold118	560783	TTAAT/TT	ACCAGCAACCATAAAAA CGC	ACCGAGTGTCGAACTC AAGG	60.0	780	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
scaffold118_P3_599225	scaffold118	599225	GTTT/GTTTT	GCCCTCAGATGAGAGT CAGG	ACATGGAACCCATCCA AAGA	59.9	269	INTERGENIC	--	--	--
scaffold1180_P3_129073	scaffold1180	129073	T/TC	TGGGGTTTAGGGTGTG ACAT	AGGCAAGCAATAAGCA ACAA	60.1	371	INTERGENIC	--	--	--
scaffold1180_P3_135497	scaffold1180	135497	GTTTTTTT/GTTTTTTTTT	TTGTGTGCGTTTGACT GACA	AAGCGGAGAAGTCGG AGATT	59.9	789	INTERGENIC	--	--	--
scaffold1180_P3_206096	scaffold1180	206096	AATATATATATATATATA/AATATATATA TATATATATA	CCATGTGGTCTTTTGC ATT	AACTTCGCCATTGTG ATCC	59.9	548	INTERGENIC	--	--	--
scaffold1180_P3_208476	scaffold1180	208476	TA/T	TAAGAGGGGCTTGTTA CCCC	CCAACCTAATATTCATG CCACA	60.3	216	INTERGENIC	--	--	--
scaffold1180_P3_209216	scaffold1180	209216	AT/ATTCTTT	TTGATTTTTGACATGTT GTGCTT	TTGAGGGGTGGCAAGT TTAG	59.5	607	INTERGENIC	--	--	--
scaffold1180_P3_216830	scaffold1180	216830	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	AAGCGTCTTCTTTTGG GGAT	CATATGCACGTAAAT CGCCT	60.1	345	INTERGENIC	--	--	--
scaffold1180_P3_226315	scaffold1180	226315	GTCCATTC/GTC	TGGGGTTTAGGGTGTG ACAT	AACCGGCACGACTAAC ATTC	60.1	101	INTERGENIC	--	--	--
scaffold1180_P3_2599	scaffold1180	2599	ATT/ATTTT	GAGAGGTCATGGCACC CTTA	GAGCAACACATTGCAT GTCC	60.1	166	INTERGENIC	--	--	--
scaffold1180_P3_2913	scaffold1180	2913	A/AC	GAGAGGTCATGGCACC CTTA	TCTTGCCCAACGTTTT ACAT	60.1	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 (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
scaffold1180_P3_29648	scaffold1180	29648	TAT	TGGAGAAGGGAATGGT AAGTTT	TCCATCTCTCAACAAT GGCA	59.0	682	INTERGENIC	--	--	--
scaffold1180_P3_3279	scaffold1180	3279	GAT/GATAT	ACACATGTAAACGTTG GGC	GTACATGCAAATGACC GCAC	58.4	573	INTERGENIC	--	--	--
scaffold1180_P3_36749	scaffold1180	36749	CTATTTATTTATTTATTTATTTATTT T/CTATTTATTTATTTATTTATTTATTT	TACGGTTTCGATCTCAT GCAA	TGCCTCTTCCCCTGTT TCTA	60.2	419	DRR	Ca_25737	--	G2-like
scaffold1180_P3_3744	scaffold1180	3744	GA/G	GTGCACGAAAGTGTGG CTTA	ACTTTACCATTGCCTTC CCC	59.9	766	INTERGENIC	--	--	--
scaffold1180_P3_82368	scaffold1180	82368	GAAAAAAAA/GAAAAAAAAA	AATCCCATTAGGTAAC CGT	CATGCTATAAAATTTCA GCTGGTTT	58.2	742	INTERGENIC	--	--	--
scaffold1181_P3_5941	scaffold1181	5941	TAACCCTAAACCCTAAACCCTAAACC TAAACTCTATACCCTAAACCCTATACC CTAAACCCTAAACCCTAAA/TAACCCTA AACCCTAAACCCTAAACTCTATACCCT AAACCCTATACCCTAAACCCTAAACCCT TAAAA	AAACCCTAAATCCCAAA CCC	TTTAGGTCATTTTGGC CTTTTT	59.0	465	INTERGENIC	--	--	--
scaffold1183_P3_13162 1	scaffold1183	131621	AT/ATATATGT	GAAATGGGTTTCGCGT AGAG	TTTGGCTCGAAGGCTT TTTA	59.7	428	INTERGENIC	--	--	--
scaffold1183_P3_85712	scaffold1183	85712	TTTATTATTATTATTATTATTATTAT TATTA/TTTATTATTATTATTATTATTAT ATTATTATTATTATTATTATTATTA	TGCAAAACCGCATTCTA GTG	AAAAGCGCTGTAAATG GTGC	59.9	769	INTERGENIC	--	--	--
scaffold1185_P3_15919	scaffold1185	15919	ACCCC/ACCC	AGAATTTACGAGCAGC GGAA	GTCACAGAGGGAACG GATGT	60.0	128	INTERGENIC	--	--	--
scaffold1185_P3_21216	scaffold1185	21216	ATT/AT	TCCATTGTGACTTTTGC ACCT	TCAACCCATTTTGGT TTTT	58.3	504	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 (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
scaffold1185_P3_45385	scaffold1185	45385	TAAAAAAAAA/TAAAAAAAAA	CACAACCATCGTCTTTG GTG	GCATCCATGAATCAAC GTTTT	60.0	939	INTERGENIC	--	--	--
scaffold1185_P3_6345	scaffold1185	6345	CAAAAA/CAAAAA	TGAATGCCAACCTAGT GTGG	TAAAGGACCAACTCGG GAAA	59.7	745	INTERGENIC	--	--	--
scaffold1185_P3_67322	scaffold1185	67322	GATATATATATAT/GATATATATAT	CAATTCCACAGGTAC GCTT	GACGCGAAAACAACAT TTCA	60.0	683	INTERGENIC	--	--	--
scaffold1185_P3_67468	scaffold1185	67468	T/TAGGGTGA	CAATTCCACAGGTAC GCTT	GACGCGAAAACAACAT TTCA	60.0	683	INTERGENIC	--	--	--
scaffold119_P3_16292	scaffold119	16292	AACA/AACACACA	AGGAAGAGTGGAGTTG CGAA	TATTTTGATTTTGCT CGG	60.0	513	INTERGENIC	--	--	--
scaffold119_P3_16337	scaffold119	16337	T/TAA	AGGAAGAGTGGAGTTG CGAA	TATTTTGATTTTGCT CGG	60.0	513	INTERGENIC	--	--	--
scaffold119_P3_35751	scaffold119	35751	A/AG	ACTCATATGCAAAATGC CCC	TTATGCTGGAGATGGG AAGG	59.8	444	INTERGENIC	--	--	--
scaffold1193_P3_22220 9	scaffold1193	222209	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA AA	CGTGCGCGGATATTA CTTA	AAATAGACTTCGATG CCACA	61.2	497	INTERGENIC	--	--	--
scaffold1193_P3_24160 8	scaffold1193	241608	CAA/CA	AAAGAAAGGAGTTGG ACGG	CACACGAATACGATTC CACG	60.5	401	INTERGENIC	--	--	--
scaffold1193_P3_63135	scaffold1193	63135	G/GACAACAAAAT	AGCCAAAGGCATGTGA AATC	GGTGGAGAATGAAACG GAGA	60.1	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 (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
scaffold1193_P3_7288	scaffold1193	7288	TCAA/TCAATTTAAGCAA	AATGCTTCCAGAAAAC CGA	TGATCTGATGGCTGAC TTTCA	59.7	367	INTERGENIC	--	--	--
scaffold1195_P3_34839	scaffold1195	34839	GAAAA/GAAA	GAAGCAAATCGATTGG GAAA	CGATTGTGTTTGTAC AGGG	60.0	211	INTERGENIC	--	--	--
scaffold1196_P3_10388 5	scaffold1196	103885	GAAAAA/GAAAAA	CAACTTGTTCACCCGA CCT	GGATTGTGGACAAG GAGA	60.0	478	INTERGENIC	--	--	--
scaffold1196_P3_11732 3	scaffold1196	117323	ATTTTTTTTT/ATTTTTTTTT	TGGACTTGTCTTCTGT TTGG	GTGCCCAACAAACACT TGAA	60.3	523	INTERGENIC	--	--	--
scaffold1196_P3_12271 6	scaffold1196	122716	TAAAAAAA/TAAAAAAA	TCAATGGCTAAACGG ATCA	TCGAGACTACTCTGCC ACCT	59.1	669	INTERGENIC	--	--	--
scaffold1196_P3_16994 6	scaffold1196	169946	ACCC/ACC	TTTCGATGTGAAAAGA GGG	TAACAACTCTGGTTC GGGG	60.0	552	INTERGENIC	--	--	--
scaffold1196_P3_18211 4	scaffold1196	182114	CTTTTTTT/CTTTTTTTT	GGGGGAGGATGAAGAT GAAT	TTGTGTGCTCTAGGAA CCGA	60.1	650	INTERGENIC	--	--	--
scaffold1196_P3_20585 1	scaffold1196	205851	CT/CTACGT	ATAGCGACATAAGGGT TGCG	GAAATGGGAACCTGGC AGAA	60.1	339	URR	Ca_26186	--	Trihelix
scaffold1196_P3_20662 6	scaffold1196	206626	ATT/ATTT	TTCTGCCAAGTCCCAT TTC	TAAAGGATTCCCACTG TGCC	60.1	699	URR	Ca_26186	--	Trihelix
scaffold1196_P3_32122	scaffold1196	32122	TTATATATATATATATATATAT/TT ATATATATATATATATATATATATA TAT	ACTGTAGCACCCCTTC GAGA	CGCGCAAATTGTCAGA TAGA	59.9	495	INTRON	Ca_26181	--	--

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
scaffold1197_P3_10258	scaffold1197	10258	AC/A	CGTTCTTGATCGGGAT TGAT	GATATGGTCCGCCAG AAAA	59.9	390	INTERGENIC	--	--	--
scaffold1197_P3_13559 4	scaffold1197	135594	CTTTTTTTT/CTTTTTTTTT	TGGTCCCCCAAATAAT TCA	ACGGCTGTCTGTCTGT CAAA	60.2	603	INTERGENIC	--	--	--
scaffold1197_P3_19124 4	scaffold1197	191244	TAT/TATGACTTGCATCAT	GGCATCCCTATGCAAA ACAT	TCCTTCATCTCCTTGG GTTG	59.8	532	INTERGENIC	--	--	--
scaffold1197_P3_24495 3	scaffold1197	244953	TAAAAAAA/TAAAAAAA	CACTTTTTGTTCATCG CCA	ACTGTGATCCGGTGAT TTGA	59.7	574	INTERGENIC	--	--	--
scaffold1197_P3_26042 3	scaffold1197	260423	ATATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT TATTATTATTATTATTATTATTAT TTATTATTATT	GCATGGAGATCACTCA GGGT	ATTGCAAGGAAATGAT TGGC	60.1	858	INTERGENIC	--	--	--
scaffold1197_P3_47046 7	scaffold1197	470467	TAAAAAAAAA/TAAAAAAAAA	TGCCTGCATATGTCATC ATTT	TTGGGTTGCCTTGGA AATA	59.0	303	INTERGENIC	--	--	--
scaffold1197_P3_5120	scaffold1197	5120	GT/GTT	TCGAGCTCAATTGGT AGTG	GAGAGCTACCGTGCA CACA	60.0	486	INTERGENIC	--	--	--
scaffold12_P3_16589	scaffold12	16589	TTATATATAT/TTATATATATAT	AGTTTTGCAATCACGTG CAG	GGTGCAAAAACGTCT CCTA	59.9	214	INTERGENIC	--	--	--
scaffold12_P3_16684	scaffold12	16684	AAATTGTTTTCAATTGTTTT/AAATTG TTTC	AGTTTTGCAATCACGTG CAG	AAGCTGCATCTCAACC TCGT	59.9	611	INTERGENIC	--	--	--
scaffold12_P3_16767	scaffold12	16767	CA/C	AGTTTTGCAATCACGTG CAG	AAGCTGCATCTCAACC TCGT	59.9	611	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 (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
scaffold12_P3_296676	scaffold12	296676	ATT/ATTT	GGAACCAAGACTTTGG GTGA	CCAATACTTGC GTGG AACT	59.9	715	INTERGENIC	--	--	--
scaffold12_P3_324236	scaffold12	324236	AATATATATATATATATATATA/AATA TATATATATATATATATATATA	TGCACCGTGAGCATT TTTC	AAGTTCAGGTGGAGGT GCAT	59.7	628	INTERGENIC	--	--	--
scaffold12_P3_352195	scaffold12	352195	GAAA/GAAAAA	GTTGTCCGGCGTATAT TGCT	TCATCAAAGGCATGCA AATC	60.0	572	INTERGENIC	--	--	--
scaffold12_P3_58042	scaffold12	58042	TA/T	GTGAAAGCGCTGTAAA AGGC	TCTTGGAGGTCCAAC TTCT	60.0	459	INTERGENIC	--	--	--
scaffold1202_P3_126612	scaffold1202	126612	CAAAAAAAAA/CAAAAAAAAA	TCACCACCAACCAAAAC AGA	CCCCTATATCGACAG ATGAA	60.0	707	INTERGENIC	--	--	--
scaffold1202_P3_177458	scaffold1202	177458	AT/ATCATT	CAGGCCTGGGTAATCT TTGA	CACACTTGGGTGTCCC TCTT	60.1	397	DRR	Ca_24666	--	--
scaffold1202_P3_179415	scaffold1202	179415	TG/TGCCG	AATAGGTAGCACGGTG TGCC	TCACATGGAAC TTCC CCTC	60.0	431	INTRON	Ca_24666	--	--
scaffold1202_P3_179607	scaffold1202	179607	AG/AGG	AATAGGTAGCACGGTG TGCC	TCCCTTGCCTACATTG TTCC	60.0	814	INTRON	Ca_24666	--	--
scaffold1202_P3_25847	scaffold1202	25847	CTTTTCTTTTTTTTC/CTTTTCTTTT TTTTTCTTTTTTTTC	TTGTCCACAGTGGCAT ATTGA	TGGCAGATATGGGGT GTAT	60.0	737	INTERGENIC	--	--	--
scaffold1202_P3_26563	scaffold1202	26563	AGCTCT/ATCGAAACAACCGCTCT	ATATCTGCCACAAAGC CCAC	CTATCTTCGTGAAGGG GCAG	60.0	503	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 (°C)	Expected 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_P3_45663	scaffold1215	45663	ATT/ATTT	TGGCTTTTGTATTTCAG AGTTGG	AGTGGGACCATGATTT TTGAA	60.5	492	INTERGENIC	--	--	--
scaffold1215_P3_45939	scaffold1215	45939	ATTTT/ATTT	TTTCAAAAATCATGGTC CCAC	GGGGTGGTGTCTATCT TTGC	59.7	337	INTERGENIC	--	--	--
scaffold1216_P3_20729	scaffold1216	20729	TAAAAAAA/TAAAAAAA	GGGTGGACGAAAATGA CCTA	CGTTTCGTA CTCCGT AGGC	59.8	653	INTERGENIC	--	--	--
scaffold1219_P3_40006	scaffold1219	40006	GTATATATATATATAT/ATATATATAT ATATAT	TGGTTTAATGTTGGCAA ATGG	ATCCAGTTGGTGAGGA AAAA	60.6	317	INTERGENIC	--	--	--
scaffold1219_P3_53806	scaffold1219	53806	TAAA/TA	GGCAGATGCTTACGTG GAAT	CCTCGAAACCGAGTCC ATAA	60.1	415	INTERGENIC	--	--	--
scaffold1219_P3_53861	scaffold1219	53861	AA/AAAAACA	GGCAGATGCTTACGTG GAAT	CCTCGAAACCGAGTCC ATAA	60.1	415	INTERGENIC	--	--	--
scaffold1219_P3_7164	scaffold1219	7164	TGG/TG	GGAAACCTCACCTAC CACA	AGTGACAAACAATACC GTAGGAA	59.8	591	INTERGENIC	--	--	--
scaffold1219_P3_7693	scaffold1219	7693	CAA/CAAA	ACTCCAAAAAGAACGA CCCA	GGACATTCTCACCTG CAAC	59.6	104	INTERGENIC	--	--	--
scaffold1221_P3_10804	scaffold1221	10804	AGGCGCGTAGGGCGCG/AGGCGCGTA GGGCGCGTAGGGCGCG	AATGGCGTTAGAAACG GTTG	GCAGTGCTGAATTTTG GTGA	60.0	493	INTERGENIC	--	--	--
scaffold1222_P3_14085	scaffold1222	14085	TAAA/TAAAA	TAAACATAAACCCGAAC CGC	TTTAGGTCATCGGTGT TTGG	59.8	528	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
scaffold1226_P3_10038	scaffold1226	10038	AAA/AAAGAA	AACAAACTATCACCCAC GAATC	CAGAATTTTGGTGAGT TGGGA	58.0	800	INTERGENIC	--	--	--
scaffold123_P3_272489	scaffold123	272489	ACAAAT/A	GCGTTTTTATGGTTGCT GGT	GCGAGATGTAGGCTTT GTGG	60.0	657	INTERGENIC	--	--	--
scaffold123_P3_361645	scaffold123	361645	TCA/TCAAAGAACTCTTCCCAACA	ATCCACCCACCCTTTCT TTC	CAGAGCAACCAGGAAC AACA	60.2	293	CDS (large-effect mutations)	Ca_24703	QR	B3
scaffold123_P3_73934	scaffold123	73934	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	TTAGCTCCACCACCGG TTAG	GAACAAACGGGGTTGA TTTG	60.1	489	INTERGENIC	--	--	--
scaffold1231_P3_8445	scaffold1231	8445	CTTTTTTTTT/CTTTTTTTTTTT	TATCAGAGTTCTCCCCA CCG	TGAATTTGGTGTGAAT TGCC	60.1	545	INTERGENIC	--	--	--
scaffold1238_P3_42907	scaffold1238	42907	AATATATATATATATATA/AATATATATA TATATATATA	TATTTTGGATTTTGGCT CGG	AGGAAGAGTGGAGTTG CGAA	59.9	502	INTERGENIC	--	--	--
scaffold1239_P3_4253	scaffold1239	4253	TC/TCC	TCGAGTGGTACGAAAA TCCC	TCCCAGTCCTCGATT CATC	59.9	539	INTERGENIC	--	--	--
scaffold1239_P3_4656	scaffold1239	4656	T/TC	TCGAGTGGTACGAAAA TCCC	TCCCAGTCCTCGATT CATC	59.9	539	INTERGENIC	--	--	--
scaffold1240_P3_10570 7	scaffold1240	105707	A/AG	ACATGGAACCCATCCA AAGA	GCCCTCAGATGAGAGT CAGG	60.2	268	INTERGENIC	--	--	--
scaffold1242_P3_8493	scaffold1242	8493	GTATATATATATATAT/GTATATATAT ATATATATAT	TATAACGCCCTGAACC CAAA	TGGGTGGGAGTAATT TTCG	60.3	363	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
scaffold1244_P3_3584	scaffold1244	3584	AGGGGGGG/AGGGGGG	CCTACGGAGGACGAAA ATGA	TGCCTAATCGATTGC TCAG	60.1	556	INTERGENIC	--	--	--
scaffold1246_P3_7947	scaffold1246	7947	TAAAA/TAAA	TGGATGCACAAGATGG GTTA	TCAGGTCATTTTCGTC CTCC	59.9	871	INTERGENIC	--	--	--
scaffold1247_P3_37735	scaffold1247	37735	GTTTTT/GTTTTTTTTT	TGTGCATCCAAAAGGT GTGT	AGGGAGGACGAAAATG ACCT	60.0	352	INTERGENIC	--	--	--
scaffold1252_P3_10977 4	scaffold1252	109774	CTTTTTTTTT/CTTTTTTTTT	TGTGCATCCAATAAGTG GGA	TGGGTTCCATGTATCA TCCTT	59.9	853	INTERGENIC	--	--	--
scaffold1252_P3_92720	scaffold1252	92720	CA/CATA	TTTGAACGAAGATTTTC CCG	GTTGGTTCCTAGCAC CGTA	60.0	748	INTERGENIC	--	--	--
scaffold1252_P3_98018	scaffold1252	98018	CA/CAA	TTTGCCAATCGATTATC GTG	TGCACAAGTCAGTAGC ACCC	59.5	561	INTERGENIC	--	--	--
scaffold1255_P3_1289	scaffold1255	1289	GTTT/GTTTT	GAGGTATTCGGTTGGG GAAT	AATTAAACTCTCGCAT TCAAAA	60.0	635	INTERGENIC	--	--	--
scaffold1256_P3_31257	scaffold1256	31257	CTTTTT/CTTTT	TTGATCCTTGCAGTCAC TCG	ACCAAATCGATTGGCA CTTC	60.0	563	INTERGENIC	--	--	--
scaffold1256_P3_617	scaffold1256	617	ATTTTTTTTTT/ATTTTTTTTTT	TCCAACACCCTCACAAA TCA	TTGGACTACGGGTTAG TGCG	59.9	914	INTERGENIC	--	--	--
scaffold1259_P3_75294	scaffold1259	75294	AA/ATGACAAAGGAAAGAGGA	TCCACAGAACCTGCAG ACAG	GCTGGATAAGCATTGC CATT	60.0	709	INTRON	Ca_27885	I	--

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 (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
scaffold1269_P3_2756	scaffold1269	2756	TAAAA/TAAAA	CTTGTGGATGCCAA GATT	CATTTCGTCCTCTCT GGC	59.9	570	INTERGENIC	--	--	--
scaffold127_P3_111345	scaffold127	111345	GAAAAAAAA/GAAAAAAAA	TCATTGCTCCCCGTAA TAG	CGACACTCGCTTCACC AATA	59.9	504	DRR	Ca_26797	--	--
scaffold127_P3_144443	scaffold127	144443	AGTG/AGT	CCCGAAAAGTCCAGAT GAAA	CAAGGATCAGAGGG ATTCA	60.0	581	INTERGENIC	--	--	--
scaffold127_P3_18821	scaffold127	18821	GAAA/GAAA	CGGACGCGACAATAAC ATTT	TTTGACAACCTCAATTT GTTCTATG	60.9	920	INTERGENIC	--	--	--
scaffold127_P3_20427	scaffold127	20427	TAATAAA/TAATAAAATAAA	AAACCCAAAATCCTGAA CCTT	CTGGACATTTTGGCGA TTTT	58.9	350	INTERGENIC	--	--	--
scaffold127_P3_270423	scaffold127	270423	AATTTTCATTTTCATTT/AATTTTCATTT	GCCACATATCTTGTTG CCT	TTCAAGCACATACTGC ACCAG	60.0	687	INTRON	Ca_26800	--	--
scaffold127_P3_270741	scaffold127	270741	G/GT	TCTGCAAAAGCCTAA GGGA	TTCAGTTCCTTGACG AATG	60.0	548	CDS (FRAME SHIFT)	Ca_26800	--	--
scaffold127_P3_54036	scaffold127	54036	TG/T	AAAAATGGGTGGTCAA ATCAA	TGGCATTAAAGTTCTG TGTTCA	59.2	640	INTERGENIC	--	--	--
scaffold1272_P3_163005	scaffold1272	163005	T/TGACTCCAATTC	CTTGAGCTTGATGTGC CAAA	TCAAGCATCCCATGTT GTGT	60.0	299	INTERGENIC	--	--	--
scaffold1274_P3_6685	scaffold1274	6685	T/TGTG	TCATTTTCGTCCTTCT TGG	ACACACCTATTGGACG CACA	60.0	272	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
scaffold1275_P3_6195	scaffold1275	6195	CAA/CAAGAGATAA	TGTTGCCTCGTAATTCA ACG	CAGGGACTAAACTGT TTGCTG	59.7	556	INTERGENIC	--	--	--
scaffold1275_P3_9108	scaffold1275	9108	CTTTTTTTTT/CTTTTTTTTTT	GGTGATCGAAGCCAAA ACTC	TCTGCGACGAAACTCA CAAC	59.7	475	INTERGENIC	--	--	--
scaffold1276_P3_1178	scaffold1276	1178	CTTTT/CTTTTTT	TCAGCCATGACTTGAG GTTG	CTCACTTTGGTCCCAT GCTT	59.8	361	INTERGENIC	--	--	--
scaffold1276_P3_1671	scaffold1276	1671	TT/TTATAT	AAGCATGGGACCAAAG TGAG	TTTCCCAATCGATTTG CTTC	60.1	942	INTERGENIC	--	--	--
scaffold1276_P3_52730	scaffold1276	52730	AAGGGTTTAGGGTTTAGGGTTT/AAGG GTTTAGGGTTTAGGGTTTAGGGTTT	CCTATTAGTGCAAAAGT GCCA	AGACCTAGGCCCTTAA ACCA	58.0	491	INTERGENIC	--	--	--
scaffold1276_P3_62213	scaffold1276	62213	GTTTT/GTTT	TCCTTTTGAACGATTCC CAG	GGCAGTGCAACCTTGG TTAT	60.0	580	INTERGENIC	--	--	--
scaffold1278_P3_121848	scaffold1278	121848	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAA/AAATAATAATA ATAATAATAATAATAATAATAATAA	TTTTGAATACGAGGATT TTTGT	CTTTTCTCTCAAGGT GCGG	57.0	571	INTERGENIC	--	--	--
scaffold1278_P3_29766	scaffold1278	29766	CAAAAA/CAAAA	GAGAATCCGGGAAGG AGAC	TTTCTTCTCTCAGG CCG	60.0	320	INTERGENIC	--	--	--
scaffold1278_P3_63103	scaffold1278	63103	GAAAAA/GAAAA	ACGAAGGGGTGTAGGAC GATG	ATTGTGTTGCCGATCG CTAC	60.0	611	INTERGENIC	--	--	--
scaffold1278_P3_63247	scaffold1278	63247	TAAAAAAA/TAAAAAAA	ACGAAGGGGTGTAGGAC GATG	ATTGTGTTGCCGATCG CTAC	60.0	611	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_P3_63301	scaffold1278	63301	ATT/ATT	ACGAAGGGGTAGGAC GATG	ATTGTTTGCCGATCG CTAC	60.0	611	INTERGENIC	--	--	--
scaffold1278_P3_65072	scaffold1278	65072	TTTATTATTATTATTATTATTATTAT TATTATTA/TTTATTATTATTATTATTAT ATTATTATTATTATTATTA	TGGGTAGCAGTAATAAT GGCA	TGAGCAAGATGTGTTT TGTGG	58.2	341	INTERGENIC	--	--	--
scaffold128_P3_173873	scaffold128	173873	TA/T	AGGGTTTTGAAAAGAA GGGG	TGCGGATTCTAGTGCA ACTG	59.4	639	INTERGENIC	--	--	--
scaffold128_P3_256571	scaffold128	256571	ATT/ATT	GCCAATCGATTACCCT CAAA	CACTTATGCAAAAAGG GGGA	59.9	451	INTERGENIC	--	--	--
scaffold128_P3_285351	scaffold128	285351	GAAAAAAA/GAAAAAAA	AGATTGGCATGGGATG TTGT	TTTCTTCTCTCTCAGG CCG	60.2	614	INTERGENIC	--	--	--
scaffold128_P3_285649	scaffold128	285649	CAAAAAA/CAAAAAA	CATGAGAAATGGACCC CCTA	TTTCTTCTCTCTCAGG CCG	59.7	262	INTERGENIC	--	--	--
scaffold128_P3_43105	scaffold128	43105	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATAT ATATA	CCTGATTTCTCCGTCC AAA	ACTCGCAGCAAAACATC CTCT	60.0	691	INTERGENIC	--	--	--
scaffold128_P3_581319	scaffold128	581319	TA/TAA	CGGTGATGGATTCAAG TG TG	ATATGTAGCGTCGAAT GGGC	60.0	208	INTERGENIC	--	--	--
scaffold128_P3_588046	scaffold128	588046	TAA/TAAA	AGTACTGAGCCCCCTG GTTT	ATGATGTTGTAGCGAT TGCG	60.0	308	INTERGENIC	--	--	--
scaffold128_P3_593763	scaffold128	593763	GC/G	TGCCATAATGTAGCA GCAA	CTGTACCAACTTTAGG CGGC	60.2	374	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 (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
scaffold128_P3_602481	scaffold128	602481	ATTTTTTTTT/ATTTTTTTTTT	AAAATGTTGGAGCCAA ATGC	TGCTCTTTCGACCCT TACT	59.9	504	INTERGENIC	--	--	--
scaffold128_P3_747239	scaffold128	747239	TCCC/TCC	GGTGTGTTTGTGACGT TGGA	GGAGGACGAAATGAT CGAA	60.5	646	INTERGENIC	--	--	--
scaffold128_P3_747253	scaffold128	747253	G/GT	GGTGTGTTTGTGACGT TGGA	GGAGGACGAAATGAT CGAA	60.5	646	INTERGENIC	--	--	--
scaffold128_P3_853519	scaffold128	853519	CCATACATA/CCATACATACATA	AACACATCCGGGATCC ATTA	AATGACGACGACGATG ATGA	60.0	551	INTRON	Ca_21452	D	--
scaffold1281_P3_1507	scaffold1281	1507	TAAAAAAAAA/TAAAAAAAAA	CGATTCCCACTCGAAA TGT	TTTTGGTTCTTTTGG GTTTT	59.9	786	INTERGENIC	--	--	--
scaffold1281_P3_15387 3	scaffold1281	153873	ATTT/ATTTT	TCAAATCGTGATTGAAC CCA	GTGTGGATCAAGCAGA AGCA	59.9	777	INTERGENIC	--	--	--
scaffold1281_P3_17667 6	scaffold1281	176676	TTTCTTCTTCTT/TTTCTTCTTCTT TTCTT	GAGAGAAGGCACGCTA TGCT	ACACTCCGATTTC AAC CGTC	59.7	679	INTERGENIC	--	--	--
scaffold1281_P3_19234 1	scaffold1281	192341	TTATATATATATATATATATATATA TA/TTATATATATATATATATATA	CGAAGAATCACTTTAAA CCCCA	TCCTTGGTCCATGTAT ATAAGCC	60.3	916	INTRON	Ca_21513	--	bHLH
scaffold1281_P3_37633 7	scaffold1281	376337	GTTTTTTTTT/GTTTTTTTTT	TGTTTAGGCGCTAGTTT GGC	TCGATTATGCGTAGGG AAGG	60.4	665	INTERGENIC	--	--	--
scaffold1281_P3_37639 0	scaffold1281	376390	GA/G	TGTTTAGGCGCTAGTTT GGC	TCGATTATGCGTAGGG AAGG	60.4	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 (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
scaffold1281_P3_37654	scaffold1281	37654	TAAA/TAAAA	TTTGGTTTCTTTTGGGT TTTTT	TGCCCACTTAAATTTG GTGTT	59.4	632	INTERGENIC	--	--	--
scaffold1281_P3_38115 2	scaffold1281	381152	AAATAATAATAATAATAATAATAAT/ AAATAATAATAATAATAATAATAAT	TGAAAACCAACTATTTT AGTGCC	GGGACCCTACCTCTCA CACA	60.4	893	INTERGENIC	--	--	--
scaffold1281_P3_38375 1	scaffold1281	383751	TTATATATATATATATATATATATATA TATATATAT/TTATATATATATATATATA TATATATATATATATAT	CTAGTTCGTAACCCGT GCGT	ACATGGTGTGGAGTC GTCA	60.2	262	INTERGENIC	--	--	--
scaffold1281_P3_46557	scaffold1281	46557	T/TTTGC	CAATTCGACATGCATT GCT	AATTCATGCACCGTC AATTT	59.7	650	DRR	Ca_21505	K	--
scaffold1281_P3_46922 9	scaffold1281	469229	CAATAATAATAATAATAATAATA/CA ATAATAATAATAATAATA	TCTCTGGCAACCGTTC TTCT	ACCTCGTTGAGACAG CTTT	60.0	566	INTERGENIC	--	--	--
scaffold1281_P3_46946 0	scaffold1281	469460	GAAAAAAAAAAAA/GAAAAAAAAAAAA	TCTCTGGCAACCGTTC TTCT	ACCTCGTTGAGACAG CTTT	60.0	566	INTERGENIC	--	--	--
scaffold1281_P3_47171 3	scaffold1281	471713	AATATATATATATA/AATATATATATATA TA	GAGCATTGTGACAAAT TGAGC	CGGGAATTCTTGATGA ATCG	59.8	541	INTERGENIC	--	--	--
scaffold1281_P3_47333 9	scaffold1281	473339	GATATATATATATATATATA/GATATA TATATATATATATATATA	ACGCATGGATATTGCA GTCA	TCCGATTGTTGACCAG TTTTT	60.1	783	INTERGENIC	--	--	--
scaffold1281_P3_49220 9	scaffold1281	492209	TAAAAA/TAAAA	GGAATGGAAAACACAT TCAACA	GAATGCTTGAGAACT TTGGG	59.7	499	INTERGENIC	--	--	--
scaffold1281_P3_49247 9	scaffold1281	492479	T/TAGA	CCCAAAGTTTCTCAAGC ATTC	GAAATTAAGTTAAGGA ACCGCGT	58.8	472	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 (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
scaffold1307_P3_39928	scaffold1307	39928	TAAAAA/TAAAAA	CACACGTATTGGATGC ACAA	TGTGTTTGCCTCATTG GTTT	59.0	203	INTERGENIC	--	--	--
scaffold1307_P3_6228	scaffold1307	6228	A/AG	ACACACCTATTGGACG CACA	AGGTCAATTTCGTCTC CCCT	60.0	377	INTERGENIC	--	--	--
scaffold1308_P3_11998	scaffold1308	11998	CA/CACTA	CCAAAGGAGGACGAAA ATGA	TGCATAATCGATTGGC ACAT	60.0	718	INTERGENIC	--	--	--
scaffold1308_P3_16327	scaffold1308	16327	ACCC/ACC	AGGGAGGACGAAAATG ACCT	CCAATTGGGGTTTTTA ACCA	59.9	488	INTERGENIC	--	--	--
scaffold1308_P3_54751	scaffold1308	54751	TAAAAA/TAAAAA	AGGGAGGACGAAAATG ACCT	TCATCCTCGCTAGGCT TGTT	59.9	608	INTERGENIC	--	--	--
scaffold1308_P3_79242	scaffold1308	79242	TC/T	AATCCAATGACGCAAA ACA	GGTTTCGAGGAAATTG GACA	60.0	669	INTERGENIC	--	--	--
scaffold1309_P3_26369	scaffold1309	26369	TA/TAGA	TGAAGATTGGGAGGAT GGAG	TAGATGGAATTGGAAA GGCG	60.0	497	INTERGENIC	--	--	--
scaffold1309_P3_3907	scaffold1309	3907	AT/ATT	GACGGTCTTACCGGTT CGTA	ACATGGAACCCATCCA AAAA	60.0	258	INTERGENIC	--	--	--
scaffold1309_P3_58470	scaffold1309	58470	CTTTT/CTTTT	TGGGTAACGTAACTA CGGC	ATCCGGTAAAAATCTC CGCT	59.9	951	DRR	Ca_26763	--	--
scaffold1309_P3_88698	scaffold1309	88698	TAAAAAAA/TAAAAAAA	AGCAATTGCAGCTTGT GATG	AAAGCGTTGTGGAATC GAAC	60.0	931	INTRON	Ca_26765	--	Nin-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
scaffold1312_P3_52034	scaffold1312	52034	TC/T	TGTTGCGCAATTCAATG GTA	AGAAGATCCAATTGCG GATG	59.9	931	INTERGENIC	--	--	--
scaffold1312_P3_62434	scaffold1312	62434	AAGCAG/AAG	ATGGTTTTCTTGCGTTTG GTC	ACTTCTGCGCATCACA ACTG	60.0	418	INTERGENIC	--	--	--
scaffold1312_P3_65816	scaffold1312	65816	TCAATATTTGTAACAATATTT/TCAATAT TT	CGCGGGGACTTAGAGA TGTA	AAGCGAACATAATCCT TTACTTTTG	60.2	561	INTERGENIC	--	--	--
scaffold1312_P3_70081	scaffold1312	70081	TGTTTTGACCTTGG/TG	ACTCCTCAAACCTTAGCG GCA	GCTCTAGAGTCCATGG CAGG	60.0	544	INTERGENIC	--	--	--
scaffold1312_P3_70692	scaffold1312	70692	GATATATATATATATATATATATATAT TATAT/GATATATATATATATATATAT ATATATAT	CTTACGCAGTGGCTGG TACA	AACTCACCTTCGTGG TTTG	59.9	714	INTERGENIC	--	--	--
scaffold1312_P3_78648	scaffold1312	78648	TAAA/TAAAA	GCATTAAATGTGGAACA AGCA	TTACCTGTGTGGGACA ACGA	58.7	526	INTERGENIC	--	--	--
scaffold1312_P3_78828	scaffold1312	78828	GAAAAA/GAAAAAA	GCATTAAATGTGGAACA AGCA	TTACCTGTGTGGGACA ACGA	58.7	526	INTERGENIC	--	--	--
scaffold1312_P3_78884	scaffold1312	78884	TAAGAAGAAGAAGAA/TAAGAAGA AGAAGAA	ATTTGACCTCGACACAA CGG	GCCGCTTGATCGTTAA TTGT	61.0	425	INTERGENIC	--	--	--
scaffold1312_P3_78931	scaffold1312	78931	CG/C	TCGACACAACGGACAA GAGT	GCCGCTTGATCGTTAA TTGT	59.3	417	INTERGENIC	--	--	--
scaffold1312_P3_80554	scaffold1312	80554	ATTT/ATTTTTT	GCCAAGGTAAGGGTGA GACA	ATGAATTGTCCAATC TCGG	60.1	322	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 (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
scaffold1312_P3_81111	scaffold1312	81111	TAA/TAAA	CCGAGATTGGGACAAT TCAT	TTGGAAAAGCCACCT ACAC	59.8	661	INTERGENIC	--	--	--
scaffold1312_P3_82340	scaffold1312	82340	CAAA/CAAAAA	GTGGGCCAAAAGAAAC TTGA	AACTGAGATTGATCCG GTGG	60.1	455	INTERGENIC	--	--	--
scaffold1312_P3_86797	scaffold1312	86797	ATTTTTTTTT/ATTTTTTTTTT	CATCAGCCATATTGTGC AGC	TGTGCAACAACGGATC AAAT	60.3	645	INTERGENIC	--	--	--
scaffold1312_P3_88981	scaffold1312	88981	AGTACGTA/AGTA	GACTCCGTGGAATAAC GATCA	TGTGTCCACAAAATA CCACA	59.9	837	INTERGENIC	--	--	--
scaffold1312_P3_89696	scaffold1312	89696	ATTTTTTTTTT/ATTTTTTTTTT	TTCATTACGCCATTGAC ACTTT	ACAATGTGTGCCCAAC AAAA	59.5	457	INTERGENIC	--	--	--
scaffold1312_P3_89732	scaffold1312	89732	ATTTTTTT/ATTTTTTTTT	TTCATTACGCCATTGAC ACTTT	ACAATGTGTGCCCAAC AAAA	59.5	457	INTERGENIC	--	--	--
scaffold1313_P3_10297 3	scaffold1313	102973	GAAAAAAAA/GAAAAAAAAA	GTGCTACAACGCATTT GGTG	CGGCTTGGTCTCATGA TTTT	60.2	598	INTERGENIC	--	--	--
scaffold1313_P3_11341 9	scaffold1313	113419	CAAAAAAAAA/CAAAAAAAAAA	ATGGTAAGCCGGAGCA ACTA	AGAACAAATCGCAAAC CCAC	59.7	374	INTRON	Ca_25877	K	TALE
scaffold1313_P3_11799 7	scaffold1313	117997	ATG/ATGCGTG	CTCAGTCGAACCTACG AGGC	GTTTCAACGCATCCA ATT	60.0	512	INTERGENIC	--	--	--
scaffold1313_P3_13384 4	scaffold1313	133844	TAAAAAAAA/TAAAAAAAA	TGAAGCAGTAAGCGGT TGAT	GCAAACTTGCTCCGTT TGAT	60.1	707	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
scaffold1313_P3_144678	scaffold1313	144678	TAAAAA/TAAAA	TCAACTCAAGTTGGACA AAGAGA	TCGAGAGCGTTTACAA GTGG	59.0	408	INTERGENIC	--	--	--
scaffold1313_P3_164820	scaffold1313	164820	AT/ATT	AAATACCGTACCGCTTC TGG	TGGGTGCTATTTGCAA TCAA	59.1	492	INTERGENIC	--	--	--
scaffold1313_P3_43842	scaffold1313	43842	ATT/AT	AGGGGCTAGCAAAGGG TAAA	GACACCAGGAGGCAT GTTTT	60.1	684	INTERGENIC	--	--	--
scaffold1315_P3_115103	scaffold1315	115103	A/AAAAAATAT	TGGAGAAACTCTCCG CTGT	ACCACAATGTAAACCC CCGT	60.0	102	INTERGENIC	--	--	--
scaffold1315_P3_151607	scaffold1315	151607	ATTTT/ATTT	CAGTGGCTGCGATAAA CAAA	TCTGGGCAACTACATT AAGCAA	59.9	765	INTERGENIC	--	--	--
scaffold1315_P3_181338	scaffold1315	181338	GAAAAAAAA/GAAAAAAAAA	GACGACGAAGAGGGTA TGGA	AACAGATCTGACAACG CACG	60.1	883	INTERGENIC	--	--	--
scaffold1315_P3_182592	scaffold1315	182592	CTTTTTTTTTTT/CTTTTTTTTTTTT	TGCTAGACTGATTTCC CCG	TGCCTTGTTGATTCTTT GGTC	60.2	860	INTERGENIC	--	--	--
scaffold1316_P3_13036	scaffold1316	13036	AATTTATTTATTTATTTATTTATTT/AATTT ATTTATTTATTTATTTATTTATTT	ACATGCACAGAGAATG CCAA	GTGCCAGTCGATTGCC TAAT	60.3	631	DRR	Ca_28021	--	--
scaffold1316_P3_4181	scaffold1316	4181	TA/TAA	GTAAAGGGTCACCAAC CGAA	TTGTCCGTGAGAGACT GCAC	59.8	813	INTERGENIC	--	--	--
scaffold1317_P3_22112	scaffold1317	22112	TATAATAATAATAATA/TATAATAATAA TAATAATAATAATA	TTTGATTCATGCTTCTT TCTTTTC	TTTGATCGGGGAAGTT TGAG	59.0	382	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1317_P3_55938	scaffold1317	55938	CAAAAAAAAA/CAAAAAAAAA	GATTTGCACTGCACCA AAAA	TGATGCAAAAACCTGCA CTGA	59.7	492	INTERGENIC	--	--	--
scaffold1317_P3_59869	scaffold1317	59869	AAAAGAGGAAGAA/AAAAGAGGAAGAA AGAGGAAGAA	AAAATCAGCCAAATCCA ACG	TTGGAAAATCTCATTAA GCCAGA	59.9	930	INTERGENIC	--	--	--
scaffold1317_P3_63682	scaffold1317	63682	AAGAGAGAGAGGGAGAGAGAGAGAGA GAGAGA/AAGAGAGAGAGAGGGAGAG AGAGAGAGAGAGAGA	TTTCAAGCTCAAACCTC CCC	CATGTGTTTGGATGAA GGGT	59.3	364	INTERGENIC	--	--	--
scaffold132_P3_150166	scaffold132	150166	AATATATATATATATA/AATATATATATA TATATA	ACATGGCCGACAAGGA TTAG	AGAAAGCGACGAAAAC GAAA	60.0	411	INTERGENIC	--	--	--
scaffold1320_P3_1117	scaffold1320	1117	GTTTTT/GTTTTT	TTCTGTGCTCCTAGGC TTAT	AGGGAGGACGAAAATG ACCT	60.0	311	INTERGENIC	--	--	--
scaffold1323_P3_6172	scaffold1323	6172	TT/TTCT	TAGGTTTCGGGGAGGA AACT	CAAGTCAGTGGCCAAA ATCC	59.9	532	INTERGENIC	--	--	--
scaffold1323_P3_6638	scaffold1323	6638	ATTT/ATTTT	GGCCACTGACTTGCGAG TGTA	TTGTGCATCCAATACG TGTG	59.9	717	INTERGENIC	--	--	--
scaffold1324_P3_227334	scaffold1324	227334	TG/T	TTGGTGACATTTAGCAT TTCTCA	GTCCTTTGTGTCGTGG GTCT	59.6	511	INTERGENIC	--	--	--
scaffold1324_P3_235091	scaffold1324	235091	CGTTGT/CGT	TCTTGGTTGTAACCCCT GGC	TTTCGACAAAAGGTTT TCCG	60.0	431	INTERGENIC	--	--	--
scaffold1324_P3_235525	scaffold1324	235525	TGTGTGTGGGTGT/TGTGT	GCTAATTGAATAGCGG CGAC	ATAATGGGTTCTGTGAG GCAG	59.8	256	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 (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
scaffold1324_P3_23638	scaffold1324	23638	GAAAAA/GAAAA	ATGCACCTTGAAAGGG TTTG	TTGAGGAGGGTTTGG ATTG	60.0	597	INTERGENIC	--	--	--
scaffold1324_P3_238280	scaffold1324	238280	CTTTTCCTTTTGTTTTTCCTTT/CTTTTC CTTT	ACGGTAGCTTTAACGA GCGA	ATGAGGGAACAACACC CTGA	60.0	900	INTERGENIC	--	--	--
scaffold1324_P3_238347	scaffold1324	238347	CATATATATATATATATATATATATAT /CATATATATATATATATATATATATA TAT	ACGGTAGCTTTAACGA GCGA	ACCCAATATTGGAGA TGCG	60.0	941	INTERGENIC	--	--	--
scaffold1324_P3_241946	scaffold1324	241946	AAAACAAAGAAACAAAGAAA/AAAACAA AGAAA	TGACTTTTGCAGCATC GTTC	GTTCATACCTGTGGA TGGG	60.0	809	INTERGENIC	--	--	--
scaffold1324_P3_242020	scaffold1324	242020	ATT/ATTT	TGACTTTTGCAGCATC GTTC	GTTCATACCTGTGGA TGGG	60.0	809	INTERGENIC	--	--	--
scaffold1324_P3_244504	scaffold1324	244504	CATATATATATATATATATATATATAT ATATATAT/CATATATATATATATATATA TATATATATATATATATAT	TTGTTTTCTAACCCGCC AAG	CGATTGAGTTGCAACG AGAG	60.1	370	INTERGENIC	--	--	--
scaffold1324_P3_252648	scaffold1324	252648	T/TTCTTTCAAC	CCTATAGGCCCACTAA GCC	TTGCAAGCAAATTCA CGAT	59.9	587	INTERGENIC	--	--	--
scaffold1324_P3_252816	scaffold1324	252816	CGTGAAGT/CGT	TGTTAACATGATCAGGC CCA	ACATAGCGCCACAACA TGAA	59.9	789	INTERGENIC	--	--	--
scaffold1324_P3_253776	scaffold1324	253776	ATTTTTTTTTTT/ATTTTTTTTTT	GAGTGCTCCTGCACA TGAA	ATGAAGACCAAGCCAT CCAC	60.0	514	INTERGENIC	--	--	--
scaffold1324_P3_255649	scaffold1324	255649	CTTTTTTTTTTT/CTTTTTTTTTT	CCTTGAGGCGAGTGAT TTGT	GAGCTACCCCAATGGT TGAA	60.1	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 (°C)	Expected 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_P3_255844	scaffold1324	255844	GAAAAA/GAAAAAA	CCTTGGAGGCAGTGAT TTGT	GAGCTACCCCAATGGT TGAA	60.1	613	INTERGENIC	--	--	--
scaffold1324_P3_255890	scaffold1324	255890	ATTTTT/ATTTT	CCTTGGAGGCAGTGAT TTGT	GAGCTACCCCAATGGT TGAA	60.1	613	INTERGENIC	--	--	--
scaffold1324_P3_256337	scaffold1324	256337	CAAAA/CAAA	TTCAACCATTTGGGTA GCTC	TTCACCTGAATATTTG TGCA	59.9	474	INTERGENIC	--	--	--
scaffold1324_P3_265973	scaffold1324	265973	TG/T	TTTGGCAGCACTTAATT CTTG	TTTATTTTCGGACCCC CTC	59.4	327	INTERGENIC	--	--	--
scaffold1324_P3_266092	scaffold1324	266092	CAA/CAAA	GAGGGGGTCCGAAAA TAAA	TCAATTTGAAC TCAAC CCAT	60.1	396	INTERGENIC	--	--	--
scaffold1324_P3_266713	scaffold1324	266713	AATCTATTATCTATTATCTATTAT/AATC TATTATCTATTAT	TGTATGCATCAACAATG TCAAGA	TCAGAGGATGTGGCAT AGAGG	59.1	160	INTERGENIC	--	--	--
scaffold1324_P3_266796	scaffold1324	266796	CA/CAA	TCCTCTATGCCACATCC TCTG	CACAAATAGTTGTACAT TGGTTGC	60.2	238	INTERGENIC	--	--	--
scaffold1324_P3_267973	scaffold1324	267973	A/AT	CCAAGGCACACAAAA TGAA	AGAGAATAACCCGCAC GTTG	60.6	344	INTERGENIC	--	--	--
scaffold1324_P3_270833	scaffold1324	270833	GTT/GT	ACAAATCGGCCACTG AATC	TCCCGTTCTATCTCT CACC	59.9	500	INTERGENIC	--	--	--
scaffold1324_P3_272072	scaffold1324	272072	ATTTTTTT/ATTTTTT	CAAATGTCGGGAGCTA CCAT	TGACACCCTAAATCCC CAAA	60.0	522	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_272116	scaffold1324	272116	TGGGG/TGGG	CCCCGCTCTGATAGGT GATA	TGTTTGTGCATGCGAGC ATT	60.1	767	INTERGENIC	--	--	--
scaffold1324_P3_272201	scaffold1324	272201	T/T	CCCCGCTCTGATAGGT GATA	TGTTTGTGCATGCGAGC ATT	60.1	767	INTERGENIC	--	--	--
scaffold1324_P3_272539	scaffold1324	272539	TAAAAA/TAAAAA	TTTGGGGATTAGGT GTCA	AAATTCTGGGGACTT TCGG	60.2	538	INTERGENIC	--	--	--
scaffold1324_P3_272666	scaffold1324	272666	TT/TTTAT	AATGCTCGCATGACAA ACAG	CACAATCCACATTGTT GGAAA	59.9	272	INTERGENIC	--	--	--
scaffold1324_P3_279186	scaffold1324	279186	GAAA/GAA	CCTTGCACCCCTTCAT TTA	AAGTTTTTCATCGGAT GCGT	60.1	501	DRR	Ca_19767	--	BES1
scaffold1324_P3_279339	scaffold1324	279339	ATTTT/ATTT	CATCATGAATTCGACCA TGC	ATAGTTGCACCACTTT GGGC	59.9	722	DRR	Ca_19767	--	BES1
scaffold1324_P3_347435	scaffold1324	347435	CTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATT/CTTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT	TATTCTGTTCCGCACGT TCA	AGCGATGGCCAATAAA TGTC	60.3	726	INTERGENIC	--	--	--
scaffold1324_P3_409827	scaffold1324	409827	AAAAGCAA/AAA	ACAATGAAGCCCAAA CTCG	CCGTTGGACACACTTC ACAA	60.1	300	INTERGENIC	--	--	--
scaffold1324_P3_453374	scaffold1324	453374	GATATATATATATATATATATAT/GAT ATATATATATATATATATAT	CCATTGATGTGGTGT GATGA	GGCAAGAGCCCCATTA ATTC	60.2	370	INTERGENIC	--	--	--
scaffold1324_P3_49659	scaffold1324	49659	TAAAAA/TAAAAA	ATTTTTCGTTTGAAG CAA	CGATCAAGATTTCTGT CCTG	59.6	602	DRR	Ca_19753	P	--

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 (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
scaffold1324_P3_504029	scaffold1324	504029	AATATATATATATATATATAT/AATATATATATATATATATAT	TCCATTCGAGTTTCTCCACC	CATCCGCCTCGGAAGTAATA	60.1	249	INTERGENIC	--	--	--
scaffold1324_P3_516063	scaffold1324	516063	ATTTTTTTTT/ATTTTTTTTT	AAAACACGCTAGGCTCCAAT	TGGTCATGTGGTTTTGCAT	58.9	642	INTERGENIC	--	--	--
scaffold1324_P3_520260	scaffold1324	520260	AATTATTATTATTATTATTATTATTATTATTATT/AATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATT	TTCTTTTCGCTATTTTATTTTCGTG	TCTTACGTATCTCCGGTGC	60.0	734	INTERGENIC	--	--	--
scaffold1324_P3_53855	scaffold1324	53855	GATATATATATATATATATATA/GATATATATATATATATA	TAGCTTCGCAAGCTCAACAA	ACGCTTTTCCACAAAGCACT	59.9	655	INTERGENIC	--	--	--
scaffold1324_P3_642408	scaffold1324	642408	ATTTTT/ATTTTT	CCTTGCCCTTTATTTCCGGT	TCCTAGAACATGCATCACGC	60.3	496	INTERGENIC	--	--	--
scaffold1324_P3_666472	scaffold1324	666472	AATATATATATATATATATATAT/AATATATATATATATATATATATAT	AGCACCGCAACTCGTATTT	GAATGGTGTTTCATTGCACG	59.8	626	INTERGENIC	--	--	--
scaffold1324_P3_692776	scaffold1324	692776	TTA/TTAATATATATA	CGGGAGTGTTACATGATCCTT	TTGGTGCGTGTTTATTGA	58.9	857	INTERGENIC	--	--	--
scaffold1324_P3_700658	scaffold1324	700658	CATATATATATATATATAT/CATATATATATATATAT	ATCACACCAAGAATGGCACA	CACGTAATAGTTATTTGATTTTGTA	60.0	294	INTERGENIC	--	--	--
scaffold1324_P3_7929	scaffold1324	7929	AATATATATAT/AATATATATATAT	AGCAGCTGGTCTCACCAAAT	TGACCGACAATGCAACAAAT	59.9	251	INTERGENIC	--	--	--
scaffold1324_P3_8519	scaffold1324	8519	ATTTT/ATTT	ATTTGTTGCATTGTCGGTCA	CTGCCTCACGATTTCCTCA	60.0	899	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 (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
scaffold1331_P3_50640	scaffold1331	50640	GT/GTT	AATGGGCGCTGTAAA TGTC	TGGTGTCGTTGGCACT CTAC	60.0	411	INTERGENIC	--	--	--
scaffold1331_P3_56871	scaffold1331	56871	T/TC	TGTCCGTGCAACTAGC TTTG	TCAGACGCACCCATAC AAAA	60.1	640	INTRON	Ca_26942	--	--
scaffold1331_P3_58107	scaffold1331	58107	GAGAGATGATATGGAAGAGATGATAG/ AGAGATGATA	CTGCTCCTTGCTTTTAT GGC	ACAAGCGCTGTAAAAG AGCC	60.0	662	INTERGENIC	--	--	--
scaffold1331_P3_79915	scaffold1331	79915	AATATATATATATATATATATATATA/ AATATATATATATATATATATATA	TTTATGCCCAAATCTCA GCC	CCTTGAAATCCCTTT GGA	60.0	493	INTERGENIC	--	--	--
scaffold1332_P3_4491	scaffold1332	4491	TCCCC/TCCCCC	CCCTCCATATCTCCAC GAAA	AGCACAAACCCAAATT CACA	59.9	512	INTERGENIC	--	--	--
scaffold1332_P3_5639	scaffold1332	5639	TTGATG/TTGATGATG	ATTGCATTTCATGTTGG CTT	GCAGGCCTTTGGTTTT ATCA	60.3	152	INTERGENIC	--	--	--
scaffold1332_P3_5882	scaffold1332	5882	T/TCAG	TGATAAAACCAAGGC CTGC	GCCCTGCATAATTTTC TTGC	60.1	668	INTERGENIC	--	--	--
scaffold1332_P3_8212	scaffold1332	8212	CTTTTTTTT/CTTTTTTTTTT	ACGAACTCAACTACAAC TCTTGG	TCAGACACTACCCGAC ATCAA	57.6	624	INTERGENIC	--	--	--
scaffold1332_P3_8473	scaffold1332	8473	ATTTTTTT/ATTTTTTTT	CACAATTTCTTTTCTAT GTGTGGA	AACCCGTCACACAGGA AGTC	58.2	894	INTERGENIC	--	--	--
scaffold1335_P3_45191	scaffold1335	45191	AAGCTAGCTA/AAGCTA	TGAAGAGTTGCACGAG ATGG	ATGCCTCATTTCCCAA CAAG	60.0	198	DRR	Ca_28106	S	--

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
scaffold1335_P3_46272	scaffold1335	46272	TC/T	TTCGTGCAACTGACGC TAAC	CCATTTGGATTTAAAA GAAGCC	60.1	345	DRR	Ca_28106	S	--
scaffold1337_P3_40902	scaffold1337	40902	ATTT/ATTTTCAACTTTT	TAGCATGCAAATCAGG TTGC	CCCGACAAAAATAGAC CGAA	59.8	425	INTERGENIC	--	--	--
scaffold1337_P3_46228	scaffold1337	46228	AAAACCCCTAAACCCTAAA/AAAACCCCTA AACCCTAAACCCTAAA	AAACCCCAACCTTAAA CCC	TTGGGACATTTTCGGTT TTTG	59.1	353	INTERGENIC	--	--	--
scaffold134_P3_183719	scaffold134	183719	ATT/ATTT	GTGTGACCAGAAAATG GCCT	TTGGCATACAAAGGCA TCAC	60.0	203	INTERGENIC	--	--	--
scaffold134_P3_365115	scaffold134	365115	T/TG	TTTCCCCATGCAGAGTT AGG	AATCGCTAGCCACTTA GGCA	60.1	491	INTERGENIC	--	--	--
scaffold134_P3_424697	scaffold134	424697	TTTATTATTATTATTATTATTATTAT TA/TTTATTATTATTATTATTATTATT A	CACCTAAATTTTCTCCG GCA	TTACATCGAGCGTGAA CGAG	60.1	623	INTERGENIC	--	--	--
scaffold134_P3_85939	scaffold134	85939	AATATATATATATATATATAT/AAAT ATATATATATATATAT	ATCAGTGCCAGTCCT GAAG	GGGGAGAAAGAACTAA GCGTC	60.3	777	INTRON	Ca_22578	O	C2H2
scaffold135_P3_113512	scaffold135	113512	A/AG	GCTTATTGGGAGAAGC GTTG	GCCCTCAGATGAGAGT CAGG	59.8	514	INTERGENIC	--	--	--
scaffold1351_P3_109816	scaffold1351	109816	GAAA/GA	AAACGATATCAGACGC GACA	GGTTTTGTTTGAAATTT TTGATGA	59.3	587	INTERGENIC	--	--	--
scaffold1351_P3_157814	scaffold1351	157814	GTCTCTCTCTCTCTCT/GTCTCTCTC TCTCTCTCTCT	AAAGTGTTTGGTTTGCT GGG	TGTATGCACCCCAAAA GTCA	60.0	262	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 (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
scaffold1369_P3_24469	scaffold1369	24469	AATATATATATATATATATATATATATATAT AT/AATATATATATATATATATATATATATAT TATATATATATAT	CTTTGAAAGGCCTGAG CTTG	TTTCATTGCACTCACT CCA	60.1	769	DRR	Ca_25518	--	--
scaffold1369_P3_27617	scaffold1369	27617	CT/CTCATATTAAGTGAT	TGAGTTCAGCGTTCGG TAGA	TTCATGCATGCCGTTA TGTT	59.6	412	INTERGENIC	--	--	--
scaffold1369_P3_40338	scaffold1369	40338	CTTTTTTTTT/CTTTTTTTTTTT	TGCACCTTTAAGTTGG GATG	GGGGGTGCATGATACA AAAC	58.6	742	INTERGENIC	--	--	--
scaffold1369_P3_73748	scaffold1369	73748	TAATTCAATAAGGAATTCAATAA/TAA TTCAATAA	GGGGAATTAAAATCTG CCA	TTGAACAAAAGGTTCC CCAG	58.9	597	INTERGENIC	--	--	--
scaffold1369_P3_80991	scaffold1369	80991	TAAAA/TAAAAA	CGTATTTGCGGGAAGA GTCA	GGCAGTAGTGGAATCT GGGA	60.1	425	INTERGENIC	--	--	--
scaffold1370_P3_57901	scaffold1370	57901	CATATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	CCGTTCACTCCGCTTAC CTTA	TTGCCTTAGTGCTTTTT GGC	60.1	706	INTERGENIC	--	--	--
scaffold1371_P3_49517	scaffold1371	49517	GTT/GGAATT	GAAGTACGCCTAAGAG GGGG	GAGGACTGGACGTACC CTTG	60.1	182	INTERGENIC	--	--	--
scaffold1371_P3_82191	scaffold1371	82191	CT/C	AAGGGAGACGCAAGAA ATGA	ACGGTTGAGAATTGAG TGCC	59.8	373	INTERGENIC	--	--	--
scaffold1376_P3_66698	scaffold1376	66698	G/GTT	AATTCTTCGACGTGTG GGTC	CCAGTCGTCTGGTTCC AAAT	60.0	256	INTERGENIC	--	--	--
scaffold1380_P3_4826	scaffold1380	4826	ATTTTTTTTT/ATTTTTTTTT	GGATTTTAAACGTCATTG GTCC	AGACATCAAAGCTACG CGGT	58.3	553	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PfII) reference genome-CDC	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1393_P3_2098	scaffold1393	2098	T/TG	GGTCACTTTCGTGCTCCTA	TGGATGCACGAGATTGGTA	60.3	873	INTERGENIC	--	--	--
scaffold1394_P3_12230	scaffold1394	12230	ACT/A	GGGGGAGATTGTTGGA TTTT	TGGTCACACGCTCAGA GTTC	60.0	629	INTERGENIC	--	--	--
scaffold140_P3_2406	scaffold140	2406	CATATATATATATATATATATATATATATATAT/CATATATATATATATATATATATATATATATAT	CTTGTA AAACTCCGTC CGC	TTGGTATTGA ACGC	60.0	665	INTERGENIC	--	--	--
scaffold140_P3_25774	scaffold140	25774	AATTT/A	TCCTAGAACATGCATCA CGC	CTCAAGTCGACAAGCC TTCC	59.8	666	INTERGENIC	--	--	--
scaffold140_P3_36957	scaffold140	36957	TCC/TCCC	GAGATTCCCCATTCTCA ACG	TTGCATCTCCA CTCTCTCT	59.5	346	INTERGENIC	--	--	--
scaffold140_P3_7449	scaffold140	7449	ATT/AT	TGTCAATTTGGCGTAG TGG	AACTGTCATTTTCGGTT GGC	59.6	362	INTERGENIC	--	--	--
scaffold1408_P3_24952	scaffold1408	24952	GTTTTTT/GTTTTT	TGTGCGTCCAATAGGT GTGT	GACACGAATAAGCCAA GGGA	60.0	478	INTERGENIC	--	--	--
scaffold1408_P3_29939	scaffold1408	29939	AGGG/AGG	TGGGTCATTTTCGTCCT CTC	TGGACGCACAAGATTG GTTA	60.1	667	INTERGENIC	--	--	--
scaffold1408_P3_70937	scaffold1408	70937	AGG/AGGG	TTTTCATCCTTCCCATG CTC	ACACACCTATCGGATG CACA	60.0	273	INTERGENIC	--	--	--
scaffold1408_P3_71969	scaffold1408	71969	AT/ATCT	TTTTCATCCTTCCCATG CTC	ACACACCTATCGGATG CACA	60.0	570	INTERGENIC	--	--	--

[illegible]

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1414_P3_190539	scaffold1414	190539	CAT/CATAAT	TCGGATCACGGTCTGA TACA	GAGGCAATGGGACAA GGTA	60.1	611	DRR	Ca_25542	R	--
scaffold1414_P3_190587	scaffold1414	190587	GAA/GAAA	TCGGATCACGGTCTGA TACA	GAGGCAATGGGACAA GGTA	60.1	611	CDS (FRAME SHIFT)	Ca_25542	R	--
scaffold1414_P3_38236	scaffold1414	38236	GTTATTATTAT/GTTATTAT	TGGTCCTAGATTTTCATC GGG	CGTTATTAAGTACAAC ACAAAACGAA	59.9	871	INTERGENIC	--	--	--
scaffold1414_P3_55360	scaffold1414	55360	T/TC	GGTCCTCGTTTTTCATTT GGA	CGGTCAATTTTTGTCG TGTG	59.9	557	INTERGENIC	--	--	--
scaffold1417_P3_123825	scaffold1417	123825	ACC/ACCC	CCCTCTGCAATGTCGG TAAT	ATTTGACAAACCTTTTG CGG	60.0	363	INTERGENIC	--	--	--
scaffold1417_P3_23009	scaffold1417	23009	CTTATTTATTTATTTATTTATTTAT TTATTTATT/CTTATTTATTTATTTATTTA TTTATTTATTTATT	GCCCATAGGAACAAAA TGGA	AACCTTCCCTTTTCTTT GGA	59.8	323	INTERGENIC	--	--	--
scaffold1417_P3_243147	scaffold1417	243147	A/AG	AGGTAAAGGCTCCTTC CAAA	ACGATCCACACCAAAA CACA	60.1	351	INTERGENIC	--	--	--
scaffold1417_P3_309052	scaffold1417	309052	TTATATATATATATATATATATATATA TAT/TTATATATATATATATATATATA TATATATATATAT	TATTACAACGGGTGCC CAAT	GAATCAAAGACGAATC GGGA	60.1	620	INTERGENIC	--	--	--
scaffold1417_P3_39952	scaffold1417	39952	TAAAAAAAAA/TAAAAAAAAA	AAAAGGATTCCATTTCG CTT	GGACACATTATTCGT GGGG	59.9	577	INTERGENIC	--	--	--
scaffold1418_P3_16031	scaffold1418	16031	TAAAAAA/TAAAAA	ATTTTCCTCCACCAAA TCC	GTGGTGTCACGTGTGC AACT	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 (°C)	Expected 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_P3_17845	scaffold1418	17845	TAAAAAAAAA/TAAAAAAAAA	GCATTGTATCCATCCCC ATC	TATTGGTGGCCATGTT CTCA	60.0	216	INTERGENIC	--	--	--
scaffold1418_P3_18174	scaffold1418	18174	AC/A	GCATTGTATCCATCCCC ATC	ACCCACGTTTAAAGGT TCCC	60.0	797	INTERGENIC	--	--	--
scaffold1418_P3_18822	scaffold1418	18822	TC/TCC	GGGAACCTTTAAACGT GGGT	CGTGTCTCAACTTTT GTGG	60.1	323	INTERGENIC	--	--	--
scaffold1418_P3_21418	scaffold1418	21418	AG/A	GCCATAATTGCTTCTGC AGTTT	TCGCGGTGTGGTAAGT CATA	60.6	235	INTRON	Ca_25261	QR	B3
scaffold1418_P3_31807	scaffold1418	31807	ATTTTTTTTT/ATTTTTTTTTT	GTCGCAATTTTGTCCC CTA	CTCCACGGTCCCTTA ACTT	59.9	789	DRR	Ca_25262	S	--
scaffold1418_P3_38513	scaffold1418	38513	CTTTTATTTTTATTT/CTTTTATTTTTA TTTTTATTT	CTTTCCTAAAGCCCAA TCC	TTGCTCCCTTTACTCAT CTGC	59.9	811	INTRON	Ca_25262	S	--
scaffold1418_P3_5209	scaffold1418	5209	TATAATAATAATAATAATAATAATA ATAATAATAAT/TATAATAATAATAAA TAATAATAATAATAATAATAATAAT	CACAATTCACGATTTT CACG	CGGCTAGGTTGACCCT TACA	59.1	819	INTERGENIC	--	--	--
scaffold1419_P3_10604	scaffold1419	10604	ATTTTTTTTTT/ATTTTTTTTTT	CCTCTTGCTGCAACA CAAA	AACTTTTCCGCTGCTT GAA	60.0	294	INTERGENIC	--	--	--
scaffold1419_P3_21351	scaffold1419	21351	TAAAA/TAAAAA	AAAAACCTTTGGGAAT CGG	AATTCAAGTTCGAAT GCCG	60.2	207	INTERGENIC	--	--	--
scaffold1419_P3_22458	scaffold1419	22458	AT/A	TCATGCGCATCAAATAC ACA	TTTCAAAATTCGTCGTT GGA	59.7	265	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 (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
scaffold1419_P3_24782	scaffold1419	24782	TTTATC/T	CGGGCTTTACCATCA CACT	ATGGAAGCTCCGAAA GGAT	60.0	349	INTERGENIC	--	--	--
scaffold1419_P3_30683	scaffold1419	30683	T/TG	TCCATCTCCAACAACAT CCA	TAATTGCTCTTGCGGT CCTT	59.9	306	INTERGENIC	--	--	--
scaffold1419_P3_30797	scaffold1419	30797	GAATAAATAAATAAATAA/GAATAAATA AATAAATAAATAA	TCCATCTCCAACAACAT CCA	TAATTGCTCTTGCGGT CCTT	59.9	306	INTERGENIC	--	--	--
scaffold1419_P3_50145	scaffold1419	50145	GAAACCCTAAACCCTAAACCCTAAAG AAACCCTAAACCCTAAACCCTAAACCC TAAA	ACCCCAAACCCAAAAC CTT	GGGTTTCGGGATTCAA GTTT	59.7	665	INTERGENIC	--	--	--
scaffold1422_P3_687	scaffold1422	687	TT/TTATGTCAT	AGGTCATTTTCGCCTC CCT	CAATGAAGTTATTGG ATGCACA	59.9	274	INTERGENIC	--	--	--
scaffold1424_P3_48624	scaffold1424	48624	A/ATG	TAGGTCATTGTCGTCCT CCC	TGGATGCACAAGATCG GTTA	59.9	272	INTERGENIC	--	--	--
scaffold1426_P3_5828	scaffold1426	5828	TCC/TTCCC	AACGGGGTGTACAAT GAGC	CTGGTTTGACAATGCG TTTG	59.9	623	INTERGENIC	--	--	--
scaffold1426_P3_6734	scaffold1426	6734	TCATCAC/TCATCACCATCAC	TTGATACTATGCCACCA CGC	GCATTTTGCTTGTTGA CTCA	59.6	635	INTERGENIC	--	--	--
scaffold1426_P3_7221	scaffold1426	7221	TAAAAAA/TAAAAAAA	TGAGTCCACAAGCAAA ATGC	GGTTCCTCTTGTTTT GGGT	59.8	494	INTERGENIC	--	--	--
scaffold1429_P3_5490	scaffold1429	5490	TAAAAAA/TAAAAAAA	TTGGCTCGAAACCCTA ATTG	AGGTCATTTTCGTCCT CCCT	60.1	436	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
scaffold1429_P3_803	scaffold1429	803	TAAAAAA/TAAAAAAA	GGAGGACGAAATGAC CAA	TGTGCGTCCAATAGGT GTGT	59.9	761	INTERGENIC	--	--	--
scaffold143_P3_13985	scaffold143	13985	TC/TCC	GGAGGGTTTGGTTTG GAAT	TTCCCATCTCCATTCTC GTC	60.0	679	INTERGENIC	--	--	--
scaffold143_P3_167358	scaffold143	167358	GTT/GT	ACACCACCTCTTCATC GTC	GAAGGAGCAGTTGGA GAACG	60.0	737	INTERGENIC	--	--	--
scaffold143_P3_201408	scaffold143	201408	A/AGAGAATTAG	CGAAAGGCAGTTCGAG AAAG	TCATCCCATGTTGTGA TGCT	60.1	416	INTERGENIC	--	--	--
scaffold143_P3_65250	scaffold143	65250	AATATATATATATAT/AATATATATAT ATATATATAT	GGATGTGGATGGTTGG AGTT	TAAATGACCGCAAGAG CGAT	59.6	431	INTERGENIC	--	--	--
scaffold143_P3_67526	scaffold143	67526	TA/TAA	GGATTGTTGGTTCATT GGG	TTAGGAAATCGATTGG GGTG	60.0	495	INTERGENIC	--	--	--
scaffold143_P3_93408	scaffold143	93408	GAAAAAA/GAAAAA	AAACATTCATCATGCC CAT	CATTGCTAGCCCCTT TGAG	60.0	621	INTERGENIC	--	--	--
scaffold1430_P3_1269	scaffold1430	1269	ATTTTT/ATTTT	TCATGTGCATTCTACC ACCA	TGATTCGAGTCAAACC ACCA	60.0	315	INTERGENIC	--	--	--
scaffold1432_P3_30056	scaffold1432	30056	CAAA/CAA	CGTGTGTTTCTGGTAC CGTG	AACCCAAGTTTGGTG AGTG	60.1	264	INTERGENIC	--	--	--
scaffold1432_P3_66837	scaffold1432	66837	C/CCAAT	TTGATAGTGGTGGTGG CTGA	GGCAACATGGAAATGG AGTT	60.1	573	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 (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
scaffold1432_P3_80163	scaffold1432	80163	ATTT/ATTTT	TCTTTGGATGGGTTCC ATGT	TGAAAATGTTGTGGT AGTGGC	60.2	522	INTERGENIC	--	--	--
scaffold1432_P3_80490	scaffold1432	80490	CTTTTTTT/CTTTTTTT	GCCACTACCAACAACAT TTTCA	ATTGTGTTTGTGGGG GAAA	59.9	713	INTERGENIC	--	--	--
scaffold1432_P3_80541	scaffold1432	80541	AAATAATAATAATAATAATAAT/AAA TAATAATAATAATAATAATAAT	GCCACTACCAACAACAT TTTCA	ATTGTGTTTGTGGGG GAAA	59.9	713	INTERGENIC	--	--	--
scaffold1433_P3_21283	scaffold1433	21283	ATTTT/ATTTT	TCCAGATGAAATCGAG GACC	GAGATTTTCGTACCAC CCGA	60.0	481	INTERGENIC	--	--	--
scaffold1433_P3_21769	scaffold1433	21769	AGCATTATTTTC/A	TCCAGATGAAATCGAG GACC	TCATATGTACGTTTCG GGCA	60.0	498	INTERGENIC	--	--	--
scaffold1433_P3_21950	scaffold1433	21950	TAAAAA/TAAAAA	GATGAAATGGAGGACC GAGA	TCATATGTACGTTTCG GGCA	60.0	332	INTERGENIC	--	--	--
scaffold1433_P3_24672	scaffold1433	24672	C/CT	GATGAAATCGAGGACC AGGA	GCCGTATCTTGGCTA TTGT	60.0	641	INTERGENIC	--	--	--
scaffold1433_P3_33630	scaffold1433	33630	CAAAA/CAAAA	AGGCGATTTTCGTACC ACAC	CGTGTCAATTATGTCG GGTG	60.0	112	INTERGENIC	--	--	--
scaffold1439_P3_105314	scaffold1439	105314	GAAAAGAAAAAAGAAA/GAAAAGAAA AAAGAAAAAAGAAA	AGACCACCATCAGAAG CCAC	TGAGAGGCACGAACGA AAAT	60.1	643	INTERGENIC	--	--	--
scaffold1439_P3_122314	scaffold1439	122314	A/ATT	CCGACAACGTAGGAGC AAAT	AGGAGTCGCCACCAAT TTTA	60.1	645	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
scaffold1439_P3_122364	scaffold1439	122364	TTA/TTACTA	CCGACAACGTAGGAGC AAAT	AGGAGTCGCCACCAAT TTTA	60.1	645	INTERGENIC	--	--	--
scaffold1439_P3_202344	scaffold1439	202344	TA/TAA	GCACAACCCACITTTAA TGC	ATTGGATCGCGATTTC AGTC	60.4	827	INTERGENIC	--	--	--
scaffold1439_P3_35219	scaffold1439	35219	CTTTTTTTTTTT/CTTTTTTTTTTT	TGGCCAATGACATCTTT TCA	CTTTGGATGCACTTTG AGCA	60.0	674	INTERGENIC	--	--	--
scaffold144_P3_996	scaffold144	996	CTTTTTTTTTTT/CTTTTTTTTTTT	TCTCCTTCTCCGCTG ATAA	GTGTCGTCTTGTTGC CTGA	59.9	714	DRR	Ca_27982	--	--
scaffold1440_P3_37172	scaffold1440	37172	ATT/ATTT	TCGAAAAGGTTTTGCAA TCA	GGAGGGTTTTGTTTG GAAT	59.3	384	INTERGENIC	--	--	--
scaffold1445_P3_731	scaffold1445	731	GTTTTT/GTTTT	GGGGCATCCAATAAGT TCCT	AGCTTGGGGAGGACAA AAAT	60.2	366	INTERGENIC	--	--	--
scaffold1448_P3_11427	scaffold1448	11427	CAAA/CAA	AATCCAATGACGCAAA ACA	AGGTCATTTTCGTCT CCCT	60.0	792	INTERGENIC	--	--	--
scaffold1448_P3_13356	scaffold1448	13356	TAAAAAAA/TAAAAAAA	GCACACCTATTGGATG CACA	TAGGTCATTTTCGTCC TCCG	60.5	381	INTERGENIC	--	--	--
scaffold1448_P3_99427	scaffold1448	99427	GAATTTAATATAAATTAATTTAATATAA ATT/GAATTTAATATAAATTAATTTAATA TAAATTAATTTAATATAAATT	CCAGGAAATGACCCCC TATT	TTTATTTTAGCGCGGT GTCC	60.0	774	DRR	Ca_26688	--	--
scaffold1449_P3_3971	scaffold1449	3971	AATATATATATATATATATATATATAT /AATATATATATATATATATATATAT	AGGAAGAGTGGAGTTG CGAA	CTGTAACTGAAGCGC CCTC	60.0	456	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
scaffold1450_P3_10288	scaffold1450	10288	AATATATATATATATATATATAT/A ATATATATATATATATATATAT	CGTTGCACCAAGATGA AAAA	GAGACCGCGTGAAAA ATTA	59.7	463	INTRON	Ca_28008	--	--
scaffold1452_P3_1227	scaffold1452	1227	GTATATATATATATATATATAT/GTAT ATATATATATATATATATATAT	CGAAATCTTTGGGTTTT GGA	ACCTAAATTGGGAGC TCGT	59.9	618	INTERGENIC	--	--	--
scaffold1452_P3_29738	scaffold1452	29738	ATTT/ATTTT	GAAGCCTTTTCAGCAG GTTG	TAGTGTGCCACCACTC CAAA	60.0	648	URR	Ca_27551	R	ZF-HD
scaffold1452_P3_30210	scaffold1452	30210	TAAA/TAAAA	TGCCCAATTACCACAAT CAA	ACCAACCTTCATTTC CCTC	59.8	465	INTERGENIC	--	--	--
scaffold1455_P3_12569	scaffold1455	12569	TCACCTCCACCTCCACCTCCACCTCC/ TCACCTCCACCTCCACCTCC	TTATAGCCGTTGGAAG TGCG	TCAGGAAGGAAGAAG CAGA	60.0	594	INTERGENIC	--	--	--
scaffold1455_P3_13166	scaffold1455	13166	TCCC/TCC	CGAAGCCTTTGTTGAG AAGG	CTTGCTTGTGCAGAT TTGA	60.0	220	INTERGENIC	--	--	--
scaffold1457_P3_19983	scaffold1457	19983	G/GA	TGGCTTTCAAATTCAC ACA	GCGAGCAGAGATTTT ACCG	60.1	468	INTERGENIC	--	--	--
scaffold1457_P3_22093	scaffold1457	22093	AATATATATATATATATA/AATATATA TATATATATA	TCTCCCTTGTCCACAAA TCC	TTGGTATTGAACTCGG AGGC	59.9	518	INTERGENIC	--	--	--
scaffold146_P3_71228	scaffold146	71228	ATATTATTATTATT/ATATTATTATT ATT	TGAAATAAAACCATAAA ACGACGA	CATTTTAATGTTTGACT GCATAATGA	59.8	450	INTERGENIC	--	--	--
scaffold146_P3_9554	scaffold146	9554	GTTCTT/GTT	GGTGTGCAAGAGGACT GGAT	AAAAACGAGCCTAGCG TGAA	60.1	508	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PII) reference genome-CDC	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_12076	scaffold1462	12076	G/GACCACCGAATGCC	CTGGGTCCTAGTTCGC TCAA	TCAGCTTTTGGCTGA TGTG	60.4	129	INTERGENIC	--	--	--
scaffold1462_P3_12436	scaffold1462	12436	TGG/TGGG	TCAGCCAAAAGCTGA TGTG	TTGTCCATGAAAGGAT GATATTT	60.0	380	INTERGENIC	--	--	--
scaffold1464_P3_56041	scaffold1464	56041	TAAAAAAAAAAAA/TAAAAAAAAAAAAA	CATCATTAAAGGGGAG ACCAA	GACGCTTCGTGTATGT CGC	58.9	866	INTERGENIC	--	--	--
scaffold1465_P3_20135	scaffold1465	20135	TTA/TTAGATA	ATAGATCCCCTCAGCC CAAC	TTTCGGTAGTCCCGTT CATC	60.3	604	INTERGENIC	--	--	--
scaffold1465_P3_3149	scaffold1465	3149	AATATATATATATATATATAT/AATATAT ATATATATATATATATATATATATAT	AAGGCTCAACCTTACG TGGT	TTTTAGCAATGGCAC AACATT	58.7	558	INTERGENIC	--	--	--
scaffold1465_P3_35618	scaffold1465	35618	GATAATAATAATAATAATAATAATA ATAATAATAATAATAATA/GATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATA	GGACGAAATTATTTTAA GAGGGG	TGCGTAAGAGATTATC ACACCA	59.3	617	INTERGENIC	--	--	--
scaffold1465_P3_37047	scaffold1465	37047	GATATATATATATATATATATAT/GAT ATATATATATATATATATAT	TTTTTGACATGTTTGT TCGG	TTGGGCTAAATATAGC GTGTTT	58.6	464	INTERGENIC	--	--	--
scaffold1465_P3_5772	scaffold1465	5772	TATAATAATAATAATAATAATAATA ATAATAATAA/TATAATAATAATAATAAT AATAATAATAATAATAATAATAA	TTGCTAATTGGCGACA CTTCT	AAAAAGGGGCTAAATA TAGCGTG	59.9	700	INTERGENIC	--	--	--
scaffold1466_P3_21715 8	scaffold1466	217158	CT/CTCTTTCCCGAAACAT	CCGTCAAAGTCTCCTC AACC	CTTCCCCTATCCCTA CCAA	59.7	421	INTERGENIC	--	--	--
scaffold1466_P3_23306 0	scaffold1466	233060	TTATATATATATATATAT/TTATATATAT ATATATATATATATAT	AGGCCTATTTGACTGG GGAT	AACAAGCACTTTGGGA TTGG	59.8	661	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 (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
scaffold1466_P3_295421	scaffold1466	295421	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA	TTTCGCGATTGAGACAA ACA	TGCTCATGCGACCACT TAAC	60.4	521	INTERGENIC	--	--	--
scaffold1466_P3_73407	scaffold1466	73407	TCACAC/TCACACAC	ACTCGTAATCGACTCC CGAA	CTTAGGTTTGCACTCA GCCC	59.7	390	INTERGENIC	--	--	--
scaffold1467_P3_11911	scaffold1467	11911	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATAT	TCGCAGCTGTGATGCT AAGT	ATGGGAGGTCTTGTC AGTT	59.8	359	DRR	Ca_26807	Q	GeBP
scaffold1467_P3_16133	scaffold1467	16133	GTC/GTCAATC	ACTTTCAAACGGTCAAT CCG	ACATTATGTGAGGGCG CTTC	60.0	596	INTERGENIC	--	--	--
scaffold1467_P3_178563	scaffold1467	178563	ATTTTT/ATTTTTTT	AGAGAGAGCGATTGGC AAAA	ACGGATTGTTCTGTTGG TAAA	60.1	227	INTERGENIC	--	--	--
scaffold1467_P3_55724	scaffold1467	55724	TTTATTATTATTATTATTATTATTAT T/TTTATTATTATTATTATTATTATTAT	TGCGATCAATATACCCC ACA	CCGGAGATGCAACCAT CTAT	59.8	812	INTERGENIC	--	--	--
scaffold1475_P3_99881	scaffold1475	99881	AGG/AACTACTTTGG	GGGGTGTGAATAGCTA CCGA	TATTGCAGGTCTTGCT GCAC	60.0	436	INTERGENIC	--	--	--
scaffold1478_P3_73637	scaffold1478	73637	A/ACAT	CCCAGAAATCGATTAG GCAA	TCCACAACAACCTACG TCCA	60.0	612	DRR	Ca_27953	--	--
scaffold1478_P3_73784	scaffold1478	73784	G/GGC	CCCAGAAATCGATTAG GCAA	TCCACAACAACCTACG TCCA	60.0	612	DRR	Ca_27953	--	--
scaffold1478_P3_74941	scaffold1478	74941	ATATATATATATATATATATATATATA TATATATATATATATATATAT/ATATATA TATATATATATATATATATATATATAT ATATATATATATATATAT	TGAACGCAAAGTGGTG AGAG	GGGGTGCTCAACTTGT TTGT	60.0	543	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PfII) reference genome-CDC	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
scaffold1483_P3_41063	scaffold1483	41063	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATATA TATAT	TACCCATTGAGCTCG GAAA	TCCATTGCCAAACCATC TTCA	60.6	303	INTERGENIC	--	--	--
scaffold1483_P3_52687	scaffold1483	52687	ACATATT/A	CGTTTCGAACTCATCTC GCT	AGACCAAAGGGGCAAA A ACT	60.5	264	INTERGENIC	--	--	--
scaffold1483_P3_57089	scaffold1483	57089	GTGAGATTGAGATTGAGATTG/GTGAG ATTGAGATTGAGATTGAGATTG	ACCCAACAAGCAACAT CTCC	CATCTTCTCCATTTC CGC	60.0	751	INTERGENIC	--	--	--
scaffold1483_P3_6428	scaffold1483	6428	TAAAAAAAAAAAA/TAAAAAAAA	TAACTTGCATGCCCA T GTC	CAAAGACACACATATT TGGCA	59.5	573	INTERGENIC	--	--	--
scaffold1483_P3_6873	scaffold1483	6873	ATGT/ATGTGT	GCAACACGTGCGATA A CA	TGTGTGAGCGTTATTG GTTTG	60.3	984	INTERGENIC	--	--	--
scaffold1483_P3_69327	scaffold1483	69327	ATT/AT	GCGAAAGCGAAGAGAG AAGA	CATGGTGACTGGAACA CTGG	60.0	551	DRR	Ca_26256	R	NAC
scaffold1488_P3_625	scaffold1488	625	A/AG	ACTCAATGCCAAAACT GGG	GCAGACCTTACACAAT GCCA	60.0	776	INTERGENIC	--	--	--
scaffold1490_P3_1256	scaffold1490	1256	GAAAAA/GAAAAA	CAAACACACCTGTGG ATGG	AGGTCATTTTCGTCCT CCCT	59.8	281	INTERGENIC	--	--	--
scaffold1490_P3_157757	scaffold1490	157757	CATATATATATATATATATATATATAT ATATAT/CATATATATATATATATATATA TATATATATAT	CCCTATCTGCCACACA ACAA	TAATTGGTGCGTTTGT TCCA	59.6	426	INTERGENIC	--	--	--
scaffold1490_P3_51863	scaffold1490	51863	ATTTTTTTTT/ATTTTTTTTTT	AGCTTCGTGGAGGAGA TTGA	GCAAGAACTCCCCAAC AAAA	60.0	522	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
scaffold1490_P3_74253	scaffold1490	74253	TAAAA/TAAAAA	GGCATCACTCAGGTCC TGTT	CACTGGAATGATTGCC AAAA	60.1	304	INTERGENIC	--	--	--
scaffold1493_P3_65515	scaffold1493	65515	AC/A	AGGCAATTGGGATTC CTCT	GGCTGCTTTGAGTTCC TTTTT	59.9	372	INTERGENIC	--	--	--
scaffold1493_P3_66010	scaffold1493	66010	TTTTATTTATTTATTTAT/TTTTATTTAT TATTTATTTAT	AAAAAGGAAGCTCAAAG CAGCC	CCCCTTCATATGCTTC CAGA	59.9	488	INTERGENIC	--	--	--
scaffold1496_P3_12343 2	scaffold1496	123432	A/AC	CTTGCTCTCCAGTTCC CAAG	TTTTTGCCCGTAAAGA CCAC	60.0	738	INTERGENIC	--	--	--
scaffold1496_P3_15720 4	scaffold1496	157204	CATATATATATATATATATATATATAT ATATATATATATAT/CATATATATATATA TATATATATATATATATATATATATAT AT	TCTTTTCCGTTTCCTTC CTTC	TGCGTTACGGTGAAT GGTA	59.7	165	INTERGENIC	--	--	--
scaffold1496_P3_23394 0	scaffold1496	233940	ATTTTT/ATTTTTTT	CATTGCCAATCATTATC CCC	TGACAACGACATCAAA GGGA	60.0	620	INTERGENIC	--	--	--
scaffold1496_P3_23577 1	scaffold1496	235771	TAAAAAAAAA/TAAAAAAAAA	TTAACCAACCCCAAT GAA	GCTGAAATTCGAGGT GAAAA	60.0	661	INTERGENIC	--	--	--
scaffold1496_P3_23642 6	scaffold1496	236426	AATATATATATATATATA/AATATATATA TATATA	TTCAACCTCGAATTTCA GCA	AGCGGTGGAGAGAACT CTGA	59.4	764	INTERGENIC	--	--	--
scaffold1496_P3_23724 5	scaffold1496	237245	CTTTTTTTTT/CTTTTTTTTTTT	ACCGCTAAATCGGTGT CAAC	CACCGGAAGAAATTGA TTTGA	60.0	776	INTERGENIC	--	--	--
scaffold1496_P3_30758 1	scaffold1496	307581	T/TA	TGGGTGCACAAGATTG GTTA	AGGTCATTTTTGCCCT CCTT	60.0	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 (°C)	Expected 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_P3_54009	scaffold1496	54009	CATATATATATATAT/CATATATATATAT ATAT	TTTTTCTTCTTCTTG TGGCT	AAGACCTTCGTCATGA TTTTGAA	58.2	280	INTERGENIC	--	--	--
scaffold1496_P3_83285	scaffold1496	83285	CTATATATATATATATATATATATATAT T/CTATATATATATATATATATATATAT TATAT	GAAGAAGGAGTGTGCG AAGG	AACTAAGTGCTCCAC CCCT	60.0	439	INTERGENIC	--	--	--
scaffold1496_P3_92409	scaffold1496	92409	CTTATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTATTA TTA/CTTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTA	CCCACTGCACTCTTTTC CAT	CTATTAGGCCCCCAAA CCAT	60.1	400	INTRON	Ca_26420	L	HD-ZIP
scaffold1499_P3_11259 4	scaffold1499	112594	ATTTTT/ATTTTT	AACGTAGCATTTCAATG GGG	ACCTCCTTTCGCTGT TTGC	59.8	761	INTERGENIC	--	--	--
scaffold1499_P3_12878 3	scaffold1499	128783	TAAAAAA/TAAAAAA	CCCTTTTATTACTTTTG TCGGTG	GTGAGCCATGAATCCA GCTT	59.0	314	INTERGENIC	--	--	--
scaffold1499_P3_40361	scaffold1499	40361	TGG/TG	GCCACTCAAACAACCAT CCT	ATGCCTTGAAGCTTT CCTT	60.0	122	INTERGENIC	--	--	--
scaffold1499_P3_60432	scaffold1499	60432	AATATATATAT/AATATATATATAT	GGTGGGAGCGCTACAT TTTA	TGAACAAAATTAGGGA TGACAAGA	60.1	660	INTERGENIC	--	--	--
scaffold1499_P3_65960	scaffold1499	65960	AGG/AGGG	TTTGAGCCACAAAAG ACAG	CCCTCACAAAGGAGGG ATTT	60.0	151	INTERGENIC	--	--	--
scaffold1499_P3_74379	scaffold1499	74379	ATTTTTTTTTT/ATTTTTTTTTTT	CTGCTCGTTGCACCAT TAGA	TTTCTGTTTGCTCTT GGG	60.0	802	INTERGENIC	--	--	--
scaffold1499_P3_931	scaffold1499	931	TAAAAA/TAAAA	TTCTTATTCACCTGGTT CCTTTT	TTGAAGGATACATTAC GAGATTCA	58.3	734	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 (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
scaffold15_P3_131277	scaffold15	131277	CAAAAAA/CAAAAAA	CATTAGTTTCGTTTTGT AGCCG	TTTCTTTGACAGCTTAA TTGTGTT	58.9	199	INTERGENIC	--	--	--
scaffold15_P3_143714	scaffold15	143714	CATA/CATATA	TTCATCTGGACTTTTTG GGC	ATACCCCGATCCTCAA ACCT	60.1	318	INTERGENIC	--	--	--
scaffold15_P3_144204	scaffold15	144204	CAA/CAA	AGGTTTGAGGATCGGG GTAT	CAAGATTTGGGCAATC TGCT	59.7	757	INTERGENIC	--	--	--
scaffold15_P3_19559	scaffold15	19559	ATTT/ATTTT	TTTGACTTTTCGAGC GACT	TTGGTCCATTTTGTG GGT	60.0	539	INTERGENIC	--	--	--
scaffold15_P3_98165	scaffold15	98165	C/CTTTTTCACAAT	GGCAATCGATTCCAAC AAGT	CCCAAGAAAGTAGCCA CCAG	59.9	514	INTERGENIC	--	--	--
scaffold1502_P3_859	scaffold1502	859	TAAAAA/TAAAAA	AGCCTAGGGAGGACGA AATC	TCCCAATCTTGTGCAT TCAA	59.7	476	INTERGENIC	--	--	--
scaffold1504_P3_14074 3	scaffold1504	140743	AATATATATAT/AATATATATATATAT ATAT	CGGTGAATCCTTTACG GAGA	AGGAAGAGTGGAGTTG CGAA	60.1	353	INTRON	Ca_24092	--	Trihelix
scaffold1504_P3_20010 3	scaffold1504	200103	CATATATATATATATATATA/CATATA TATATATATATATATA	TCTCCGCATAAGCTTTC GAT	CCGTACCGTTTCTGGG ATTA	59.9	685	INTERGENIC	--	--	--
scaffold1504_P3_40261 3	scaffold1504	402613	T/TATTATTA	TTCCCTGCCATAACTTG AGG	TCAAGAACGGGTTAGG TTGG	60.1	407	INTERGENIC	--	--	--
scaffold1504_P3_6457	scaffold1504	6457	GTCATCATCATCATCATCATCATC ATCATCATCATCATCATCATCATCA TCATCAT/GTCATCATCATCATCATC CATCATCATCATCATCATCATCAT CATCATCATCATCATCATCATCAT	TCGTCCCTTTCTTGAA TTG	CCAAGAATGCTTTCCT TCCA	60.0	707	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 (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
scaffold1506_P3_110236	scaffold1506	110236	CATATATATATATATATA/CATATATATATATATATATATA	GCTTTTTCGCAACAGAGG	GGGTTGCTGATGTGAGTGAA	60.0	269	INTERGENIC	--	--	--
scaffold1506_P3_12277	scaffold1506	12277	AATATATATATATATATATATATATATATATATA/AATATATATATATATATATATATATATATATA	GGTGTGCTGTGTGTTTGCC	GATGATGCAAGGTGGCTTTT	60.1	382	INTERGENIC	--	--	--
scaffold1506_P3_57747	scaffold1506	57747	CAATAATAATAATAATAATAATAATAATAATAAT/AATAAT/CAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAAT	AAGACGCGAAATCAAGCAT	CTCTGTGACCAACCGCTACA	59.9	374	INTERGENIC	--	--	--
scaffold1506_P3_69204	scaffold1506	69204	ACTC/ACTCTC	AAGAAGCAGGGCCTTCAAT	TGGTTGTCGTGGCAATACAT	60.2	575	INTERGENIC	--	--	--
scaffold1508_P3_18796	scaffold1508	18796	A/AG	GAAACGGAAGATGTCGTGGT	GCATTCAGCAGCAAAAACAA	60.0	325	INTERGENIC	--	--	--
scaffold1508_P3_47207	scaffold1508	47207	CATATATATATATATAT/CATATATATATAT	AGGAAGAGTGGAGTTGCGAA	TGATTTGGGGGAAAATGTGT	60.0	566	INTERGENIC	--	--	--
scaffold151_P3_11073	scaffold151	11073	CTTTTTTTTT/CTTTTTTTTTTT	TTTTTGTCTTGACGAGGGG	GCCTTGTCCACTTTGTCT	60.1	647	INTERGENIC	--	--	--
scaffold151_P3_11544	scaffold151	11544	GAAAAAAA/GAAAAAAA	TTACAGCGCTTGATTCCACA	AAGTGCTTCAAGGAAGGCAA	60.4	705	INTERGENIC	--	--	--
scaffold151_P3_1278	scaffold151	1278	TAAAAA/TAAAAA	AGGCTCAAAGTGGGATAGCA	GAAGAGCTTCAAGGAAGGCA	59.8	534	INTERGENIC	--	--	--
scaffold151_P3_141720	scaffold151	141720	T/TA	GCAATGAGGCCACTGAAAT	TGGATGTCAACCACAAACAAA	60.1	233	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
scaffold151_P3_154666	scaffold151	154666	TAAAAAAAAA/TAAAAAAAAA	CTGCTCGAAATCTCTCT TCCA	AAGTCAACCGTTTGG TCAC	59.7	404	INTERGENIC	--	--	--
scaffold151_P3_1987	scaffold151	1987	GAAAA/GAAAAA	GGACATTTGTGAACAA GGCA	TTGGAGCTTATGTGT CCTCAA	59.5	732	INTERGENIC	--	--	--
scaffold151_P3_201830	scaffold151	201830	AGAGTAT/A	GGTTTCTCGGTGTTTG AGGA	GGAGTGGGATCCTAGT GTGG	60.1	299	INTERGENIC	--	--	--
scaffold151_P3_221306	scaffold151	221306	TCCCC/TCCCCC	TTCAAAGGAGATGGTTT GCC	ATGACAATTCCAATGC ACCC	60.1	738	INTERGENIC	--	--	--
scaffold151_P3_2506	scaffold151	2506	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATCA TTATTATTAT/GTTATTATTATTATTAT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATCATTATTA TTAT	GTTTCATCCTAGAGCG CGA	GTGGTTCCTCCCAAC TTGA	59.1	521	INTERGENIC	--	--	--
scaffold151_P3_29465	scaffold151	29465	GTTTT/GTTTT	ATGGAGGGAACGTGTT TCTG	CTTGGGAACCTGGAGAG CAAG	60.0	516	INTERGENIC	--	--	--
scaffold151_P3_35903	scaffold151	35903	AAT/AATAT	ACACACGCATAACACA CGAG	TTGGAGTGCATGTGAC CATT	58.2	459	INTERGENIC	--	--	--
scaffold151_P3_42359	scaffold151	42359	TCCC/TCC	CCTGCCACTAAGGCAA CTTC	GGCTTTTCCCCACACA AATA	59.9	556	INTERGENIC	--	--	--
scaffold151_P3_4988	scaffold151	4988	G/GT	ATCATCAATCCAACGC CAT	TCGAGAGCACAATCGA AGTTT	60.2	385	INTERGENIC	--	--	--
scaffold151_P3_68819	scaffold151	68819	ATATTATTATTATTATTATTATTATT ATTATTATTATT/ATATTATTATTATTAT TATTATTATTATTATTATTATTATTAT TT	AAATGAATGGAAGACG CGAT	AAAATTCTCTTGAATCC CCATT	59.5	851	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 (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
scaffold151_P3_814	scaffold151	814	ATTTTTTTTT/ATTTTTTTTT	GGAGACTCCCATACAT TGCC	TGCTATCCCACTTTGA GCCT	59.4	332	INTERGENIC	--	--	--
scaffold1511_P3_110106	scaffold1511	110106	TAA/TAAA	TTAATGCAGGGGTTTG TGCT	ATTGAAGCCCACTATG GCTG	60.5	396	INTERGENIC	--	--	--
scaffold1511_P3_126969	scaffold1511	126969	CTTTAAAA/CTTTAAATTTAAAA	CAATGATCAATGCAATT GAAAG	AAGGAAGGGTCATCGG TCTT	58.2	552	DRR	Ca_25146	--	--
scaffold1511_P3_133882	scaffold1511	133882	G/GA	GGATCCCAACCTGAAA AACC	ATCCCGCGTCATATTT CTTG	60.5	357	INTERGENIC	--	--	--
scaffold1511_P3_136948	scaffold1511	136948	CAAAATAAAATAAAA/CAAAATAAAATAAAA	TCAAGATTTGCCCTCA ATC	AAACGCAATCCTTGAG TTCG	60.0	357	INTERGENIC	--	--	--
scaffold1511_P3_143725	scaffold1511	143725	AA/AACA	GAGGCTTTTGCAGAGT GGAC	GTGTCCTTGAGGCGTA GCTC	60.0	604	INTERGENIC	--	--	--
scaffold1511_P3_144538	scaffold1511	144538	AC/A	GAGCTACGCCTCAAGG ACAC	AAACTCCACAGCAGC AAGT	60.0	675	CDS (FRAME SHIFT)	Ca_25147	R	--
scaffold1511_P3_151590	scaffold1511	151590	TAAAAAAAA/TAAAAAAAAA	AGCGGATTTTGACTCC TTCA	TGGGGTGGTGATATCC ATCT	59.8	363	INTERGENIC	--	--	--
scaffold1511_P3_58361	scaffold1511	58361	T/TA	AAGAGAGGTCACTTTG GCGA	AGGTTTGGAATGTTT TGCG	60.0	319	INTERGENIC	--	--	--
scaffold1511_P3_61385	scaffold1511	61385	TAAAAAAAA/TAAAAAAAAA	CGACACTACGCCAAAA ATGA	TGTCCAAAAGCGCTGT AAAA	59.7	250	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
scaffold1511_P3_98092	scaffold1511	98092	AA/AATTTA	GCACCTTATGTTGCCG TTTT	CCTTATCCATGCCTT CCAA	60.0	650	INTERGENIC	--	--	--
scaffold1515_P3_15616	scaffold1515	15616	TAAA/TAA	TTATTTCGAAAGGTGG GTGG	CCATGTCCATGCTCCT TCTT	59.8	464	INTERGENIC	--	--	--
scaffold1515_P3_30115	scaffold1515	30115	ATAT/ATATTTAT	GGAAACTCACTGGTT CCGA	TCTGTCACGTCTTTC CAAC	60.1	501	INTERGENIC	--	--	--
scaffold1515_P3_8930	scaffold1515	8930	T/TATATATATATAA	TGTGGCATCGGGAGTC TATT	CCACCTAATCACTCAT AAATATTGACA	60.5	315	INTERGENIC	--	--	--
scaffold1521_P3_10780	scaffold1521	10780	CA/CATCGA	TCATGTGAACAATGCAA CCA	CCACAGCTTGCTGTG GGTA	59.5	296	DRR	Ca_26977	--	bHLH
scaffold1521_P3_15206	scaffold1521	15206	T/TTTGAAATAAATTAT	GGGGTTAGGGCTCATA CGAT	GTTGCAGCGTGTGTT CTGT	60.2	821	INTERGENIC	--	--	--
scaffold1521_P3_15603	scaffold1521	15603	GAA/GAAA	TCGTGGTCAATAATTG GCA	CAAAATAACGATTGCG GCTC	59.9	228	INTERGENIC	--	--	--
scaffold1521_P3_15896	scaffold1521	15896	TAAAAAA/TAAAAAAA	TCGTGGTCAATAATTG GCA	AAATTAGGCATACAGA AATGAAGGA	59.9	403	INTERGENIC	--	--	--
scaffold1521_P3_19418	scaffold1521	19418	CAAAA/CAA	GAAGAATGGGAACAAT GCGT	CAACGGGCAAAAATGA AACT	59.9	748	CDS (FRAME SHIFT)	Ca_26979	--	bHLH
scaffold1521_P3_21280	scaffold1521	21280	A/ACTTAAGGT	TTGAACCCGAAATTTTC CAC	TACGAGGGACGATGTT GTGA	59.8	264	DRR	Ca_26979	--	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 (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
scaffold1521_P3_25478	scaffold1521	25478	GAAAAA/GAAAAAAA	TCGACTTTTGTGTTCTG GAATTT	TTTACCATTTTGCATT TCG	60.0	639	INTERGENIC	--	--	--
scaffold1521_P3_952	scaffold1521	952	TT/TTAT	GTGGAACGTGGAAGGG AGTA	ACTAGGCGCTATACGG GGTT	60.0	739	DRR	Ca_26976	--	--
scaffold153_P3_81004	scaffold153	81004	TT/TTGGTCAAT	ACTACCAATCGTCTGGT CCG	GGTCCTCGATTTTCATC TGGA	60.0	399	INTERGENIC	--	--	--
scaffold1530_P3_10045	scaffold1530	10045	TAAAAA/TAAAA	TTCACAACACCACCATC GTT	CGTGGAATCGTATTCTG TGTG	59.9	559	INTERGENIC	--	--	--
scaffold1530_P3_14211	scaffold1530	14211	GAATA/GA	TGATAGATGCAAAAAG GGGG	TTTAGCCATCACTTTG GGG	59.9	606	INTERGENIC	--	--	--
scaffold1530_P3_16153	scaffold1530	16153	ACCCCC/ACCCCCC	TCTCACGGTTGTGAGG ACTG	ACCGTTCTGGTTTCT GACC	59.9	746	INTERGENIC	--	--	--
scaffold1530_P3_16923	scaffold1530	16923	GATATATATATATATATA/GATATATA TATATATATATATATATATA	CATTGTGAGTGGTGTG GACC	TAGCTTTCCACGATCT GGCT	59.8	299	INTERGENIC	--	--	--
scaffold1530_P3_17844	scaffold1530	17844	GATAATAATAATAATAA/GATAATAATAA TAATAATAA	TGGAGAAGGGTTCCAA AGTG	CGTTTATCTAGGGCAA CCGA	60.1	445	INTERGENIC	--	--	--
scaffold1530_P3_18676	scaffold1530	18676	AG/AGG	CAGTTGTTACACCTTA TGTTGC	CAACAGATGAATGGC GATG	59.6	196	INTERGENIC	--	--	--
scaffold1530_P3_18990	scaffold1530	18990	ATTTTGTTTTATTTTGTTT/ATTTTGTT T	CATCGCCATTCATCTGT TTG	CTTGCTTCCATGAATC AACAA	60.1	623	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
scaffold1530_P3_19122	scaffold1530	19122	AA/AAGA	CATCGCCATTCTGT TTG	CTTGCTTCATGAATC AACAA	60.1	623	INTERGENIC	--	--	--
scaffold1530_P3_19506	scaffold1530	19506	GTTTTTTT/GTTTTTTT	GATTCATGGAAGCAAG TTCGT	AGGGCCGATTTAACCT TGCT	59.2	527	INTERGENIC	--	--	--
scaffold1530_P3_19877	scaffold1530	19877	A/ACCGT	TCATTTCCGCCTTATC AAGA	AGGGCCGATTTAACCT TGCT	59.7	205	INTERGENIC	--	--	--
scaffold1530_P3_20299	scaffold1530	20299	A/AG	AGCAAAGTTAAATCGG CCCT	CCCATATCCAAGAGTA AAACCAA	60.1	429	INTERGENIC	--	--	--
scaffold1530_P3_21107	scaffold1530	21107	TC/TCC	TCTAAAAGATTTGAAC CCCCAA	TCCAAGGCTGTAGAA ACGG	59.1	812	INTERGENIC	--	--	--
scaffold1530_P3_23128	scaffold1530	23128	AATATATATATATATATA/AATATATA TATATATATATATATATATATATATA	TCTCCATTGCACACCCA ATA	GGTGCTGAAATCGGAA AATC	59.9	189	INTERGENIC	--	--	--
scaffold1530_P3_24697	scaffold1530	24697	CTTTTTTT/CTTTTTTTTT	TGGAGAGTTCAGCACA CGTC	CCTCCGGTACCATAAA CCCT	60.0	249	INTERGENIC	--	--	--
scaffold1530_P3_25494	scaffold1530	25494	TAT/TATGTCAAAT	CTTTTCCGTTTTTCAGC CAC	TTTACCCTCGGTAAA ACCTC	59.7	607	INTERGENIC	--	--	--
scaffold1530_P3_25850	scaffold1530	25850	TTTTTTATTTTTATTT/TTTTTTATTT	TCGATCTTGAGCGAATT TGA	CAATACCAATTTACG AAAATTCA	59.5	482	INTERGENIC	--	--	--
scaffold1530_P3_26371	scaffold1530	26371	CTTTTTTT/CTTTTTTTTT	CAAAATTTTCAAAACAA ACCCA	AAAGCACCTTTACCAA AAGCA	58.9	454	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
scaffold1530_P3_26727	scaffold1530	26727	CT/CTT	TGCTTTTGGTAAAGGT GCTT	ATTCGCAAACCAAACT CGAT	57.6	742	INTERGENIC	--	--	--
scaffold1530_P3_26900	scaffold1530	26900	AT/A	CCCATCATAACCTACAA ATTCCA	ATTCGCAAACCAAACT CGAT	60.0	360	INTERGENIC	--	--	--
scaffold1530_P3_27041	scaffold1530	27041	AATAT/AATATAT	CGTTTTTCGACATCAAGA TGGA	TCGCAAACCAAACTCG ATAA	60.0	134	INTERGENIC	--	--	--
scaffold1530_P3_27186	scaffold1530	27186	CTTATTAT/CTTAT	TCGAGTTTGGTTTGCG AATA	CGATTGCTCATAAAAT CGCTC	59.3	538	INTERGENIC	--	--	--
scaffold1530_P3_27232	scaffold1530	27232	ATTTTTTT/ATTTTTTTT	TCGAGTTTGGTTTGCG AATA	CGATTGCTCATAAAAT CGCTC	59.3	538	INTERGENIC	--	--	--
scaffold1530_P3_27815	scaffold1530	27815	ATTTTTTTT/ATTTTTTTT	TTTGAGAGGGCCTTTG GTAA	TCGACAGGTTTGTTTG TTCG	59.7	405	INTERGENIC	--	--	--
scaffold1530_P3_27996	scaffold1530	27996	CCTATGGTG/C	TTTGAGAGGGCCTTTG GTAA	TCGACAGGTTTGTTTG TTCG	59.7	405	INTERGENIC	--	--	--
scaffold1530_P3_28367	scaffold1530	28367	CAATTAA/CAA	GGCCCTATGGTGTTAT GGTG	TTCGAAGCCATTATGT TTGATG	60.1	817	INTERGENIC	--	--	--
scaffold1530_P3_28720	scaffold1530	28720	ATTTTTTTTTTT/ATTTTTTTTTT	CAAATCTGAGCACACA CGAGA	ATAGTGACATCGGGTT GGGA	60.0	510	INTERGENIC	--	--	--
scaffold1531_P3_24929	scaffold1531	24929	AT/ATTCT	TCAGGATTTGGGTTTA GGG	TTTTGTAGTTGTACTCA ATAACAAGGA	58.9	482	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 (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
scaffold1531_P3_29443	scaffold1531	29443	AG/AGGG	TCCAGATGAAATCGAG GACC	GATTTTCGTTCCACCC TTCA	60.0	621	INTERGENIC	--	--	--
scaffold1532_P3_68652	scaffold1532	68652	CTTTTTTT/CTTTTTTTTT	CATTGCACTGCATGCT CTTT	TCTTTGCTCACAAAC AGCC	60.0	649	INTERGENIC	--	--	--
scaffold1533_P3_11083 4	scaffold1533	110834	ATTTTTTT/ATTTTTTTTT	CAGCCCCCTAAACCA CATA	TTGTTGCTTATTGCTT CCT	59.8	835	INTERGENIC	--	--	--
scaffold1533_P3_13924	scaffold1533	13924	G/GA	GCAGAAATCAAGAATG GGGA	GAACCCAGCGTCAAAT TGTT	60.0	489	INTERGENIC	--	--	--
scaffold1533_P3_39111	scaffold1533	39111	CATCTAT/CAT	TCCGCGAGAGAGTTAT AGCC	CACGAAACCACAATT CTGC	59.6	790	INTERGENIC	--	--	--
scaffold1533_P3_80065	scaffold1533	80065	GT/G	TTGTACGTGCGCTTTT AAG	CGACACTCACCCCTCG TTAT	60.1	491	INTERGENIC	--	--	--
scaffold1535_P3_2933	scaffold1535	2933	TAAAA/TAAA	CAGCGTCCCTCGTATC AAAT	TTTCTGGAGCCGTAAA AACG	60.1	444	DRR	Ca_28090	--	bHLH
scaffold1544_P3_14620	scaffold1544	14620	CTTT/CTT	CCACTGGATGAATCTC GGTT	TAGAAGGAACGGAGG GGTTT	59.9	794	INTERGENIC	--	--	--
scaffold1545_P3_10606 1	scaffold1545	106061	AATATATATATATATATATATATA/ AATATATATATATATATATATATA	CCTGAAAGGAGGAATC GTTG	AAGCAAGGTGGATTGA GTTGA	59.7	528	INTERGENIC	--	--	--
scaffold1545_P3_17842 6	scaffold1545	178426	CATATATATATATATA/CATATATATA TATATATATATA	ACGGCAAGACCCTAAA ACCT	ACCAGCATGATGACCA GACA	60.0	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 (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
scaffold1545_P3_202466	scaffold1545	202466	ATTTTTTTT/ATTTTTTT	GGATGACAATTACTTCG GCAA	GGGGACTGCAAAATCA GAAA	60.0	230	INTERGENIC	--	--	--
scaffold1545_P3_247368	scaffold1545	247368	ATTTTTTTT/ATTTTTTTTT	AAATAGTCGTTCCCG GGTC	TGTGAATGATGTTGGC CATT	60.2	167	INTERGENIC	--	--	--
scaffold1545_P3_256031	scaffold1545	256031	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT/A TATTATTATTATTATTATTATTATT TTATTATTATTATTATTATTATTATT ATTATTATTATT	TGATGGGTGCTTTCG AATA	GACACACCAGCTTGTA GCCA	60.1	392	INTRON	Ca_23864	L	--
scaffold1545_P3_288712	scaffold1545	288712	ATTTT/ATTTTATACTATCTTTTT	CCAGAGCAAACATCAA AGCA	AAATCCCCATCCTTT CAC	60.0	925	INTERGENIC	--	--	--
scaffold1545_P3_81448	scaffold1545	81448	GCC/GC	TTGCATGCGATTTATGC AAT	TCGTGATCTGCTGAGA GTGC	60.1	814	INTERGENIC	--	--	--
scaffold1546_P3_40313	scaffold1546	40313	TTATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATATATAT	TGGAATCTGTAACCTCC CAAA	TTTGAGCTTTACCCAT GAAATACA	59.4	851	DRR	Ca_26318	--	Trihelix
scaffold1546_P3_99595	scaffold1546	99595	CA/CATA	AGTTCCTGATGGCGGT AATG	AAACGCAAAACCGGAC TATG	60.0	502	INTERGENIC	--	--	--
scaffold1548_P3_1087	scaffold1548	1087	GCTCTCTCTC/GCTCTCTCTC	AAATGGCTTGGTTATG GCTG	TGTAATGCCGCAAATT CAAA	60.0	432	DRR	Ca_27706	QI	--
scaffold1548_P3_11049	scaffold1548	11049	GTTT/GTT	CAACTTTGTCCCAATG CTT	CTGGTGCTAGTTTGC CACA	60.0	454	INTERGENIC	--	--	--
scaffold1548_P3_887	scaffold1548	887	TTT/TTTATACATT	CGTTTTCTCTCCATT GGG	CAGCCATAACCAAGCC ATT	59.5	600	CDS (FRAME SHIFT)	Ca_27706	QI	--

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 (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
scaffold1550_P3_16385	scaffold1550	16385	AG/A	TGTGGTATGAAAATCG CCAA	GGTCCTCGATTTCATC TGGA	59.9	208	INTERGENIC	--	--	--
scaffold1550_P3_16901	scaffold1550	16901	CA/C	GATGAAATCGAGGACC AGGA	TTTCATCTGGACTTTTC GGG	60.0	429	INTERGENIC	--	--	--
scaffold1550_P3_44368	scaffold1550	44368	TAAAA/TAAAAA	TGGACTTTTCGAGCGA CTTT	AGTTATGACGTAGAAC TATAAAACGGT	60.0	381	INTERGENIC	--	--	--
scaffold1550_P3_56017	scaffold1550	56017	TAAAAA/TAAA	AGGCGATTTTCGTACC ACAC	TCCAGATGAAATCGAG GACC	60.0	322	INTERGENIC	--	--	--
scaffold1552_P3_2208	scaffold1552	2208	CCCGACGCTAA/CCCGACGCTAATCG ACGCTAA	ACGAGCTTCCTTCCAC AAGA	GGGCTGTGTTCGTCA GAAT	60.0	736	INTERGENIC	--	--	--
scaffold1561_P3_52976	scaffold1561	52976	GAATCGATTGG/GAATCGATTGGTAAA TCGATTGG	TTGAGCTTGTGACCAAA TCG	TTTGCCAATCGATTCA TAGA	59.8	196	INTERGENIC	--	--	--
scaffold1562_P3_137836	scaffold1562	137836	GTATATATATATATATATATATATAT A/GTATATATATATATATATATATATA	GAGGCAGACAGATCCT ACGC	TGTGACCATCACGATC CATT	60.0	412	INTERGENIC	--	--	--
scaffold1562_P3_35441	scaffold1562	35441	CATATATATATATATATATATATATAT /CATATATATATATATATATATATAT	GTTGGTCCCTAGCAC CGTA	GACGCTTTCACACAG GATA	60.0	805	INTERGENIC	--	--	--
scaffold1562_P3_44885	scaffold1562	44885	GTTTTTTTT/GTTTTTTTTT	TTTTGCGCTTGACTGAT GTT	TCCAACCTCCCTCCCT TTTT	59.5	566	INTERGENIC	--	--	--
scaffold1562_P3_46980	scaffold1562	46980	A/ATTATTATTATAT	GGTTCTCCTTGGTGA TGGA	TGATATTGGAAGGCAA AGGC	59.9	406	DRR	Ca_27334	--	--

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 (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
scaffold1562_P3_72417	scaffold1562	72417	AATATATATATATATATATA/AATATA TATATATATATATATATA	CATTTTGCCTGACCATT TGA	CAATTTTCGTCGCTAC CGTT	59.5	941	INTERGENIC	--	--	--
scaffold1566_P3_2139	scaffold1566	2139	G/GGATCCAAT	CCGATTGGATTGTCAG GACT	CCAAGGAAGGACGAAA ATGA	59.9	439	INTERGENIC	--	--	--
scaffold1568_P3_22322	scaffold1568	22322	AT/A	TGGTCCAATTGGGGT TTTA	AATCCAATGACACAAA CGCA	60.0	563	INTERGENIC	--	--	--
scaffold1568_P3_48593	scaffold1568	48593	TTGTG/TTG	TGTGCGTCCAATAGGT GTGT	CAAGGGAGGATGCAAA TGTT	60.0	864	INTERGENIC	--	--	--
scaffold1568_P3_52214	scaffold1568	52214	T/TTGGATTAA	CCCTGCTAGGCTCATT CTTG	TAAGCCTAGGAGCAC GAAA	60.0	513	INTERGENIC	--	--	--
scaffold1569_P3_32526	scaffold1569	32526	ACC/ACCC	CAGGGCCTTAAACCAT GAAA	GGTTTGGGGTTTGGA TTTA	59.9	601	INTERGENIC	--	--	--
scaffold1569_P3_32547	scaffold1569	32547	GCCC/GCC	CAGGGCCTTAAACCAT GAAA	GGTTTGGGGTTTGGA TTTA	59.9	601	INTERGENIC	--	--	--
scaffold1569_P3_32980	scaffold1569	32980	TAA/TA	ATAAACCGAACCGCAA AACA	GGTTTATGGTTTAAC GGCCT	60.4	714	INTERGENIC	--	--	--
scaffold157_P3_124512	scaffold157	124512	GAAAAAAAA/GAAAAAAAAA	GTTGCTGTTGTTGTT CCCT	TAATCTGCTTGCTTTC CCG	60.0	581	INTERGENIC	--	--	--
scaffold157_P3_130343	scaffold157	130343	TGGAG/TG	CAATTTTAATCCCCGAC CCT	AAATGCCATCGCATAA CCAT	60.0	507	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 (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
scaffold157_P3_139214	scaffold157	139214	ATTTTT/ATTTTTT	ATGTTTTCATGACGCGA GTG	GCTCCATTTTGTGTTT GGC	59.7	675	INTERGENIC	--	--	--
scaffold157_P3_187709	scaffold157	187709	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT/TTTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTAT	TTTGTTTCCTCGATCCC TTG	TGGAATGAATACACAT CAGTGAAA	60.0	526	INTERGENIC	--	--	--
scaffold157_P3_20066	scaffold157	20066	GTTTTTTTTT/GTTTTTTTTT	GCCAGTCTTTAGCCTG GTCA	TGTTTTGGTGGGCTA CAA	60.4	662	DRR	Ca_21062	A	--
scaffold157_P3_246027	scaffold157	246027	G/GTAAA	CCTCATGCAACACATG AAGA	AATGGACCCAACATTT GCCA	58.2	820	INTERGENIC	--	--	--
scaffold157_P3_252247	scaffold157	252247	AA/AAAAAATA	CGCGTTGACAGGGACT AAAT	AACTCTTGAGGCGTGT CGTT	60.1	574	DRR	Ca_21074	GMW	--
scaffold157_P3_253246	scaffold157	253246	GAAAAAAAAAAAAA/GAAAAAAAAA	CGAACCAACATCCACA ACAG	GGAATTGGTGGTTCAA ACCTAA	60.0	703	INTERGENIC	--	--	--
scaffold157_P3_253395	scaffold157	253395	AA/AAGA	GACAAACACTTGGGGC AGTT	TTACCGATGAAGGGTT GGAA	60.0	775	INTERGENIC	--	--	--
scaffold157_P3_254634	scaffold157	254634	ATTTT/ATTTTTT	TGGGATGAAAAGGGAG TTTG	TTGACTCTGATGAACG TGCC	59.9	605	INTERGENIC	--	--	--
scaffold157_P3_255873	scaffold157	255873	GAT/GATAT	TTTGGTCTTGCCCTTGA TGA	TGCGGTTAAGGTTGGT TCTC	59.2	888	INTERGENIC	--	--	--
scaffold157_P3_255926	scaffold157	255926	TA/T	TTTGGTCTTGCCCTTGA TGA	TGCGGTTAAGGTTGGT TCTC	59.2	888	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 (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
scaffold157_P3_281116	scaffold157	281116	CT/C	CGATTGTGAACCCA GATG	CAGCCTTGGGTAGATT TCCA	60.0	682	INTERGENIC	--	--	--
scaffold157_P3_289273	scaffold157	289273	T/TATC	GCACATTCAGTGCCAA GAGA	ATTGAGGGCATTGTCA CTCC	60.0	492	INTERGENIC	--	--	--
scaffold157_P3_307031	scaffold157	307031	GACA/GA	CATGTTGCAAGGGATC TGAA	GGAATCGAGCGCTGTA AAAG	59.6	719	DRR	Ca_21076	--	--
scaffold157_P3_315400	scaffold157	315400	TTATATA/TTATA	AGGTTCACTGGCCATA ATGTG	TTGCAAACCTTGTCATG CTCC	59.9	624	DRR	Ca_21077	--	MYB_related
scaffold157_P3_322465	scaffold157	322465	TAAGAA/TAA	CACAGGAAGTGGAGGC ATTT	TCAAAGGTTTGACTGG GGTC	60.1	687	INTRON	Ca_21078	--	MYB_related
scaffold157_P3_327411	scaffold157	327411	GA/GAGAGAAA	TCTGCAGCCATCACTTT TCA	TCCAAGATCCACAACA ACCA	60.5	819	INTERGENIC	--	--	--
scaffold157_P3_328107	scaffold157	328107	CTT/C	GATGGACACGTGCGAT ACAC	TCCTCAACCTTAAAA CCCA	60.0	265	INTERGENIC	--	--	--
scaffold157_P3_328302	scaffold157	328302	TCCC/TCCCC	GATGGACACGTGCGAT ACAC	CGTTTCGGAACTTTCG TCTT	60.0	738	INTERGENIC	--	--	--
scaffold157_P3_329068	scaffold157	329068	GAAAAAAA/GAAAAAAA	TTGTGTTTGAATGGGC AAAA	CTTCATTTAAACGCC CAAA	59.9	313	INTERGENIC	--	--	--
scaffold157_P3_335714	scaffold157	335714	ATT/AT	GTGTTGGGGTTTCATT CGAC	TTTCGGGCACAATTAT GTGA	60.2	448	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_P3_336587	scaffold157	336587	T/TA	TGTAGCGAAAGCAAAT CGAA	TTTAAACAGCCGTGT TCCC	59.6	624	INTERGENIC	--	--	--
scaffold157_P3_343060	scaffold157	343060	ATTTTTTTTTTT/ATTTTTTTTTT	TGCAATCACATACTCGC CAT	TCGAATGAAACTCCCA CACA	60.1	411	INTERGENIC	--	--	--
scaffold157_P3_348726	scaffold157	348726	CTTTTTTT/CTTTTTT	AGCTAGACGGAGATGC AATGA	TAAAGTTTGGGGAATT GGCA	60.0	136	INTERGENIC	--	--	--
scaffold157_P3_349684	scaffold157	349684	ATTTTTTTTTT/ATTTTTTTTTT	CTTTGTCGAGTCTCTTT TCGTG	TTTGCGCCAAAAACAA AAAT	59.2	598	INTERGENIC	--	--	--
scaffold157_P3_352152	scaffold157	352152	CTTTTTTT/CTTTTTTTTT	CGATGAGGAAGAATGA CGGT	TGCGTTCCATTTCAT ATCA	60.1	986	INTRON	Ca_21079	--	SBP
scaffold157_P3_355055	scaffold157	355055	A/AG	CTGTTGAGGTCGGGAA ACAG	CTTCACTTTTGCTGAT GGCA	60.7	575	INTRON	Ca_21079	--	SBP
scaffold157_P3_359174	scaffold157	359174	CAAA/CAAAA	TTAGCGCACAAAAGCT ACGTT	CCTGGCCTGTTTGATT TGTT	60.1	646	DRR	Ca_21079	--	SBP
scaffold157_P3_359603	scaffold157	359603	TC/TCC	AACAAATCAAACAGGC CAGG	TCTTGTTTTCTGTATG TGCCCC	60.0	620	DRR	Ca_21079	--	SBP
scaffold157_P3_359689	scaffold157	359689	CTATCTACATA/CTATCTACATATATCT ACATA	AACAAATCAAACAGGC CAGG	TCTTGTTTTCTGTATG TGCCCC	60.0	620	DRR	Ca_21079	--	SBP
scaffold157_P3_359906	scaffold157	359906	A/ATAG	GATTTTCCCTCCACCAT CAA	TCTTGTTTTCTGTATG TGCCCC	59.7	439	DRR	Ca_21079	--	SBP

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
scaffold1574_P3_17261	scaffold1574	17261	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATATA T	CGTAGCGTGGTAGTGA GCAA	CGGTGAATCCTTTACG GAGA	60.1	462	INTERGENIC	--	--	--
scaffold1575_P3_19505 2	scaffold1575	195052	CATATATATATATATA/CATATATATATA TATATA	CTTGGTCTAACCCTCAC CCA	CCTGCATGCTTGGTTA CTGA	60.0	564	INTERGENIC	--	--	--
scaffold1578_P3_76801	scaffold1578	76801	ATCTCT/ATCTCTCT	CTGATAGTGACACCG GTTG	CTTGTCTTCTCCATGG TCGC	59.0	664	INTERGENIC	--	--	--
scaffold1578_P3_77756	scaffold1578	77756	AACTTATCACT/AACT	TGTGTGGGATTCAACC AAAA	TGAAAGAGTTTTTATTT ATCCGCTG	59.8	561	INTERGENIC	--	--	--
scaffold1578_P3_79075	scaffold1578	79075	CT/C	CCAGACCTCATAGATC CCCA	CATGTAAATCGCCGA AATC	59.9	467	INTERGENIC	--	--	--
scaffold1579_P3_12172 6	scaffold1579	121726	TTGCCAT/TT	TCCAGATGAAATCGAG GACC	GTATTTGCGGACCAGT CGAT	60.0	761	INTERGENIC	--	--	--
scaffold1579_P3_35194	scaffold1579	35194	CAAAAA/CAAAA	CATTTTAAATTGACAAC TCAATTTTCT	TGAAATAAAACCATAAA ACGAAGA	58.3	240	INTERGENIC	--	--	--
scaffold1579_P3_64472	scaffold1579	64472	A/AT	GAGCGAATTGAGAAAC GAGG	TTTTCAAATAAAGTAAC ATTGACAACA	60.0	927	INTERGENIC	--	--	--
scaffold1579_P3_7520	scaffold1579	7520	GTTTTT/GTTTT	GGTTCAGCTCATTGCC AAAT	TCCAGCTTCCTTGAAG CCTA	60.1	711	INTERGENIC	--	--	--
scaffold1579_P3_991	scaffold1579	991	GATAATAATAATAATAA/GATAATAATAA TAA	GAGTTGTCAAATAATCT TCGTTTTG	GGATTTAGGGTTTTGG CCTT	58.4	580	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
scaffold158_P3_121799	scaffold158	121799	TA/TCCGA	ATTGCCCAAAGATGTC CAAG	AATTATTGGCAACGTC CCTG	59.9	410	INTERGENIC	--	--	--
scaffold158_P3_131634	scaffold158	131634	T/TAAC	GTGACTGGTGACTGGG GACT	TTATGCCTGCTGTTCT GCAC	60.0	227	INTRAGENIC	--	--	--
scaffold158_P3_8453	scaffold158	8453	GTAATAATA/GTAATAATAATA	GTGAGGACCAGCCCCA TTTA	TTTCCAATCGATTTG CTTC	60.1	776	DRR	Ca_27854	--	--
scaffold158_P3_8622	scaffold158	8622	A/ATAAAT	ATTATGCCAAAAGGG GGAG	TTTCCAATCGATTTG CTTC	60.1	223	DRR	Ca_27854	--	--
scaffold1580_P3_25112 3	scaffold1580	251123	CNNNNNNNNNN/C	TGTTCTCTTAGGGGGT GGTG	GGCCATCTTTTAAACC CCTT	60.0	569	CDS (FRAME SHIFT)	Ca_20799	B	--
scaffold1580_P3_26164 3	scaffold1580	261643	A/AAAGGGAACGGTT	GGGTCAAGTTTCAAGG ACGA	AAGTGGGGAACGCATA AGTG	60.1	381	INTERGENIC	--	--	--
scaffold1580_P3_39955 9	scaffold1580	399559	TAA/TA	TGGAAGAGCAAAAGAT GCCT	GCCCTCAGATGAGAGT CAGG	60.0	594	INTERGENIC	--	--	--
scaffold1580_P3_47218 8	scaffold1580	472188	ATTT/ATTTT	TGATGCAAGAAGCCAC ATCT	CTTGAAAGCCATTGGA GAGC	59.4	677	INTERGENIC	--	--	--
scaffold1580_P3_47237 5	scaffold1580	472375	CATA/CATATA	TTTTGGTCAGGGGAAG GTTT	CTTGAAAGCCATTGGA GAGC	60.7	578	INTERGENIC	--	--	--
scaffold1580_P3_47242 6	scaffold1580	472426	CT/CTT	TTTTGGTCAGGGGAAG GTTT	CTTGAAAGCCATTGGA GAGC	60.7	578	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
scaffold1580_P3_61955	scaffold1580	61955	AAA/AAATAA	AAGAACGCGATAACCA AAGC	TTGGACCGATGGATCA TTTT	59.4	894	INTERGENIC	--	--	--
scaffold1580_P3_69955	scaffold1580	69955	ATTTTT/ATTTT	ATCACCAGCCACTTAG GCAA	TCCCTTATGACAATTCA TGGTG	60.7	639	INTERGENIC	--	--	--
scaffold1580_P3_7294	scaffold1580	7294	TTATATATATAT/TTATATATAT	CGTTTCGGGTGAAAAG GTAA	TAGGAGAAACGGAGG GGTTT	60.0	357	INTERGENIC	--	--	--
scaffold1585_P3_62915	scaffold1585	62915	CATATATATATATATATATATATAT/C ATATATATATATATATATATATATAT	AGGAAGAGTGGAGTTG CGAA	GTTTGAATTTTGGCT CGGA	60.0	522	INTERGENIC	--	--	--
scaffold1586_P3_1838	scaffold1586	1838	AC/ACC	AGGGAGGACGAAAATG ACCT	TGACCAATTTTGAACA TCCA	59.9	471	INTERGENIC	--	--	--
scaffold1590_P3_8564	scaffold1590	8564	ATCT/ATCTATCCCGGCTTCT	CGAATACACCTTCGCG TTTT	TCCACACCAAAGTGTT CCAA	60.1	830	INTERGENIC	--	--	--
scaffold1607_P3_11799 0	scaffold1607	117990	CAA/CAA	TGGGATGTTAACTCCA TACCC	ATATTGGAACCCGTG TGGA	59.9	347	INTERGENIC	--	--	--
scaffold1607_P3_12379 0	scaffold1607	123790	TAAAAAAAAA/TAAAAAAAAA	AGCTGACAATTTGTGT GGCTT	ATAAACGTCATGCACG GGAC	59.8	135	INTERGENIC	--	--	--
scaffold1609_P3_1493	scaffold1609	1493	GTTTTT/GTTTTT	AGGTCATTTTCGTCCT CCT	TTGGATGCACACGATT GATT	59.9	770	INTERGENIC	--	--	--
scaffold1613_P3_10641	scaffold1613	10641	ATTTTTTT/ATTTTTTTTT	TGATTTCAAATGAATT GGTGC	TCCCGCACATCACAA ATAA	59.8	502	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 (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
scaffold1613_P3_106669	scaffold1613	106669	C/CGATATCATAGCCAAG	ACAATTTACGCCACCG AAAG	AGAAGCGACCCCATAG GTTT	60.0	549	INTERGENIC	--	--	--
scaffold1613_P3_53936	scaffold1613	53936	AATGATGAT/AATGATGATGAT	GTTCTTCCGGGTTTTG GTTT	CCCTCAACAATGATG TCACC	60.2	459	INTERGENIC	--	--	--
scaffold1613_P3_98434	scaffold1613	98434	A/AG	AAGAAAGTTGCTCCTTG CCA	AGGAGCACTTACCTCC GTTG	60.0	133	INTERGENIC	--	--	--
scaffold1614_P3_131511	scaffold1614	131511	AATATATATATAT/AATATATATATATAT	CCGCGAGTAATTCGGA TAA	ATCAGCCTAAGGGGGA AGAA	60.1	875	INTERGENIC	--	--	--
scaffold1614_P3_14076	scaffold1614	14076	TC/TCC	TTTTGTCCCTCTAG GCTT	AGGAGGACGAAAATG ACCT	60.1	690	INTERGENIC	--	--	--
scaffold1614_P3_164436	scaffold1614	164436	CTCTGAT/CT	AAAACCGCCAAAGAAAT GTG	ATGACATGTGTGAGCC GTGT	60.0	161	INTERGENIC	--	--	--
scaffold1614_P3_188751	scaffold1614	188751	GTTTTTTTTT/GTTTTTTTTTTT	TGAAAGCCAATTCCACT TCC	ACTGGAAGGACAGGCT GATG	60.1	703	INTERGENIC	--	--	--
scaffold1615_P3_725	scaffold1615	725	ATT/ATTT	GATGAAATCGAGGACC AGGA	TTTCATCTGGACTTTTC GGG	60.0	334	INTERGENIC	--	--	--
scaffold1623_P3_10673	scaffold1623	10673	ATATTATTATTATTATTA/ATATTATTAT TATTA	GGTGCACCACTAA GGAA	CGTTCAGAGGGCTAGA CGAG	60.1	488	INTERGENIC	--	--	--
scaffold1626_P3_121557	scaffold1626	121557	TTTATTATTATTATTATTATT/TTTAT TATTATTATTATTATTATT	AGAGGCAACAAGAAC CGAA	AGCCGAGAAAATAACT CGCA	59.9	311	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 (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
scaffold1630_P3_106951	scaffold1630	106951	TCA/TCATAACA	AACGTATAATAAACCA ACTTGTCAAA	TCTTCGCTTTGTAGTT TACTTCAT	58.7	405	INTERGENIC	--	--	--
scaffold1630_P3_6306	scaffold1630	6306	T/TA	GTACCACCCGACAAAA ATGG	TCCAGATGAAATCGAG GACC	60.1	530	INTERGENIC	--	--	--
scaffold1630_P3_95807	scaffold1630	95807	ATCTGATACTCTGATACTCTGAT/ATCT GATACTCTGAT	TTACTTTCAACCCCCAG TGC	CCCCCTTTTGCATAA GTGA	60.0	269	DRR	Ca_28199	--	--
scaffold1631_P3_244465	scaffold1631	244465	AC/ACAGCAGC	AAATCTGCCAGGTGGA CATC	TTTTGGGCTATGGAGT TTGG	59.9	661	INTERGENIC	--	--	--
scaffold1631_P3_32889	scaffold1631	32889	TGGTTTAAAAA/T	GTCCACTTCCGTTTCG GTAA	GTCGCTTCAAAAGTTG GCTC	60.0	625	INTERGENIC	--	--	--
scaffold1631_P3_55330	scaffold1631	55330	CAAAAAAAAA/CAAAAAAAAAAAAA	AGGAATCTAACCACCC CCAC	AATGGGGTGCAATTTA CAGC	60.1	430	INTERGENIC	--	--	--
scaffold1632_P3_26495	scaffold1632	26495	T/TGTG	ACGTTTGTTCGTCGAC GGTT	TGATCCAAGAAGCCAC ACAC	60.5	734	DRR	Ca_26993	--	--
scaffold1632_P3_96216	scaffold1632	96216	AT/A	TAGGGAATTGAAGTCG GGAA	ATGAGCGGAACCAAC CAAC	59.5	663	URR	Ca_26995	--	--
scaffold1633_P3_15743	scaffold1633	15743	AAATAATAATAATAATAATAATAAT AATAAT/AAATAATAATAATAATAATAAT AATAATAATAATAAT	AACGTTTTCGTCGAATG TCC	TCAATTTTGGATGCAC CTGA	60.0	669	DRR	Ca_26202	UR	--
scaffold1633_P3_37345	scaffold1633	37345	TAAA/TAAAAA	CACCTATGCCATGTGTC CCA	TTGTGTTTGTGCTTG AGCC	60.4	820	INTRON	Ca_26204	UR	--

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 (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
scaffold1635_P3_57290	scaffold1635	57290	GTAT/GTATATTAGTGACATAT	AATGAGCCTGATCATG GAGG	AAGCAAAACAATGA GGGG	60.0	497	INTERGENIC	--	--	--
scaffold1635_P3_71681	scaffold1635	71681	CCAATA/CCAATATCACAATA	CTTGTTTCGGAGGGTT GATA	CGTACTCGTGTTTGAA AGCG	59.9	789	INTERGENIC	--	--	--
scaffold1635_P3_71778	scaffold1635	71778	TTATATA/TTATA	CCCCGGAATCACTAGA CTTG	CAACACCAAAATGATC GTGC	59.5	908	INTERGENIC	--	--	--
scaffold1635_P3_72012	scaffold1635	72012	CTTTTTTTTT/CTTTTTTTTTTTTT	CGCTTTCAACACGAG TACG	CAACACCAAAATGATC GTGC	59.5	224	INTERGENIC	--	--	--
scaffold1635_P3_74246	scaffold1635	74246	TCCC/TCCCC	GGTAAACGTGTGTTC ATGG	GGAGTACCATAGGCCA ACGA	59.9	258	INTERGENIC	--	--	--
scaffold1638_P3_54887	scaffold1638	54887	TAAAA/TAAA	CTTGGAAGCTGGAGAG CAAG	AAAAACCTCCGAGCCA AAAT	60.0	166	INTERGENIC	--	--	--
scaffold1643_P3_152680	scaffold1643	152680	CTTTTTTTTT/CTTTTTTTTTTTTT	AGCTTTGGATATTGCA GGGA	TTTCGAATAATCTGTCC GGC	59.7	644	INTERGENIC	--	--	--
scaffold1643_P3_156175	scaffold1643	156175	CTT/CTTT	ATTGTCCAACACCTCCA AGC	CTCCCTTTCCTTCGT TTTC	60.0	386	INTERGENIC	--	--	--
scaffold1643_P3_163768	scaffold1643	163768	AATATATATATATATATATATATAT A/AATATATATATATATATATATATAT ATATATATATA	ATTTCAGCATGCCAAT TTC	CTTCAGAAACTAGCC GCAC	59.9	719	INTERGENIC	--	--	--
scaffold1643_P3_166873	scaffold1643	166873	CAAAAAA/CAAAAAA	GCAACTAGGGGTGTT AGGA	ATGCACACTGTGTGCA CCTT	60.1	610	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 (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
scaffold1643_P3_16945 4	scaffold1643	169454	CAAAAAAAAA/CAAAAAAAAA	GTCATTTTGGCGTAGT GGG	TTCCGGTCAACACTC ATCA	60.4	133	INTERGENIC	--	--	--
scaffold1643_P3_17102 2	scaffold1643	171022	TTTA/TTTAATTA	TAACCCCATCAAATTTG GGA	TCTTGAGGAGCGGGT AGAA	60.0	563	INTERGENIC	--	--	--
scaffold1643_P3_18097 4	scaffold1643	180974	ATGATGAATCTTGATGAATCTTGATGA AT/ATGATGAATCTTGATGAAT	CCCACGCTTCTTAGCA GTC	TTCACTTCCCGCTTC TGT	60.0	859	INTERGENIC	--	--	--
scaffold1643_P3_19285 0	scaffold1643	192850	TATAAATA/TATA	GAGGGGGAGAAAGCTG AGAG	TGCTGACATGATTGTT GATGTG	60.5	535	INTERGENIC	--	--	--
scaffold1643_P3_19293 3	scaffold1643	192933	CG/C	GAGGGGGAGAAAGCTG AGAG	TAGCATGCTGGAAT GCTG	60.5	604	INTERGENIC	--	--	--
scaffold1643_P3_21038 0	scaffold1643	210380	CTTT/CTTTT	AATACAGCGAAAAAGCT CGC	TCGAAAAGAAATCGAG ACCG	59.6	710	INTERGENIC	--	--	--
scaffold1643_P3_21054 0	scaffold1643	210540	ATTTTTTT/ATTTTTTTTTT	CACACAATCACAAATTT TTCTCAA	AAAGAAATCGAGACCG TTGC	59.1	419	INTERGENIC	--	--	--
scaffold1643_P3_21101 8	scaffold1643	211018	TGTA/T	TTCTCTCACCGCTAAC TCG	ATGGTGGGGGTATGAA TGAA	60.5	611	INTERGENIC	--	--	--
scaffold1643_P3_21109 6	scaffold1643	211096	TTCT/TT	ACGGTCTCGATTTCCTT TCG	ATGGTGGGGGTATGAA TGAA	59.3	585	INTERGENIC	--	--	--
scaffold1643_P3_21121 5	scaffold1643	211215	G/GT	TTCATTCATACCCCCAC CAT	CTCTCAGCTTTCTCCC CCTC	59.9	222	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
scaffold1643_P3_213932	scaffold1643	213932	TAAAAAAAA/TATAAAAAAAAA	CGGATTTCGTCTCTTGA AGC	CATTGGTGCAGTTGTT CGTC	60.0	662	INTERGENIC	--	--	--
scaffold1643_P3_34081	scaffold1643	34081	AG/A	AAGAACTCATTTAACC AAGGT	AGGGGGTTTTGTGCGAG AGAG	57.4	851	INTERGENIC	--	--	--
scaffold1643_P3_4999	scaffold1643	4999	CAAAAAA/CAAAAAA	CTCCAGCCTCTTGTA CTGG	AGGCAAGCCATTGAAA GAAA	59.9	449	INTERGENIC	--	--	--
scaffold1651_P3_12361	scaffold1651	12361	GTTTTTTT/GTTTTTTT	AAATTGTTGCTTGGGG ACAA	TGACGTCATGACCTGC ATT	60.3	882	INTERGENIC	--	--	--
scaffold1651_P3_13370	scaffold1651	13370	TATTAATTAATTAATT/TATTAATTAATT AATTAATT	CCTTGAGTTCGACACT CGGT	TGGTGACCGTGAATT GTTG	60.3	337	INTERGENIC	--	--	--
scaffold1651_P3_13586	scaffold1651	13586	CAAAAAA/CAAAAAA	CCTTGAGTTCGACACT CGGT	CAGGATGTGAACCGTA AATCTTC	60.3	547	INTERGENIC	--	--	--
scaffold1651_P3_14250	scaffold1651	14250	ATATTTTAAGGTATTTTAAGGTAT/ATA TTTTAAGGTAT	AAAAATGGAGAGATCG AAAGTG	TTGATGCTAGGGGGAT TTTG	57.5	553	INTERGENIC	--	--	--
scaffold1651_P3_16309	scaffold1651	16309	CATA/CATATA	TGCCAAGCATTGTTTCT CAC	TCCCTTTTACATCCCTT CCC	59.8	497	INTERGENIC	--	--	--
scaffold1651_P3_16483	scaffold1651	16483	AGG/AG	GGAAGGGATGTAAAA GGGA	TTTCGTCGTGTTTCTCT GTG	60.1	135	INTERGENIC	--	--	--
scaffold1651_P3_16500	scaffold1651	16500	CA/CAAA	GGAAGGGATGTAAAA GGGA	ACGTCGTGATTGTGC TTCA	60.1	231	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 (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
scaffold1651_P3_16843	scaffold1651	16843	GACC/GACCACC	GGGAAGGGATGTAAAA GGGA	AAATCTGGCCTGGAC CTG	60.1	510	INTERGENIC	--	--	--
scaffold1651_P3_16897	scaffold1651	16897	TTA/T	TAAGCATGGTATGGG GAAA	CTAAGCCTGAGTTTGG CCTG	60.1	921	INTERGENIC	--	--	--
scaffold1651_P3_17729	scaffold1651	17729	GATAT/GATATAT	TCTCTTGGGTGATTTT CGG	ACACCCAAACTCTTGT TGCC	60.0	561	INTERGENIC	--	--	--
scaffold1651_P3_18006	scaffold1651	18006	A/AG	TGATTGGGGCATACT TTTT	ACACCCAAACTCTTGT TGCC	60.0	171	INTERGENIC	--	--	--
scaffold1651_P3_18574	scaffold1651	18574	CA/C	CTGGATTGGAATTGTC AGCA	TCACGCACACTCCATC TCTC	59.6	679	INTERGENIC	--	--	--
scaffold1651_P3_18823	scaffold1651	18823	AG/A	GAGAGATGGAGTGTGC GTGA	AACCCAGAACTCGAGC TGAA	60.0	461	INTERGENIC	--	--	--
scaffold1651_P3_22832	scaffold1651	22832	CA/CAAAA	GTCCAGCAAAAGTCGT GTGA	TTGAAGGCATTTCTCC ATCC	59.9	675	INTERGENIC	--	--	--
scaffold1651_P3_5134	scaffold1651	5134	GAAAAAA/GAAAAA	ATGGCACAAAGTCTCCC AACT	GGGGCCACTTAGGGTT GTAT	59.6	276	INTERGENIC	--	--	--
scaffold1651_P3_7041	scaffold1651	7041	ATTT/ATT	TGGTTTTAAAGTTTGG TGCG	AACCAACAGATCACAT GGCA	60.0	484	INTERGENIC	--	--	--
scaffold1651_P3_9845	scaffold1651	9845	TAAAAA/TAAAAA	AACGGAGGAAGAACAT GTGG	TCACACAAGCATTCCC AAAA	60.0	364	DRR	Ca_27410	--	--

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
scaffold1654_P3_1499	scaffold1654	1499	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATT/ATATTATTATTATTATTATTAT TTATTATTATTATTATTATTATT	ATGTTCTCCCGTTGCT AAA	TCACGGTGGGACATT AGGT	59.6	448	INTERGENIC	--	--	--
scaffold1659_P3_12478 7	scaffold1659	124787	TAAAAAA/TAAAAAA	AGCGCTGCAATAGGCT TTTA	TGGAGATGATTTGCAA TGGA	60.1	499	INTERGENIC	--	--	--
scaffold1659_P3_19972	scaffold1659	19972	CAAAAAAAAA/CAAAAAAAAA AAA	TTGGGGTTGCTAATGG GATA	TTTGAGAACTTTCGG GTTG	60.1	289	INTERGENIC	--	--	--
scaffold1659_P3_20384	scaffold1659	20384	GTTTTT/GTTTTT	CAACCCGAAAGTTCTC CAAA	TTGCATTGGTTTGAC TCCA	60.1	664	INTERGENIC	--	--	--
scaffold1659_P3_21065 1	scaffold1659	210651	ATA/ATACTTA	CGGACGACAATCATT AGCA	GTTCACTCCATGCTA CGGT	59.7	878	INTRON	Ca_24193	--	--
scaffold1659_P3_21477	scaffold1659	21477	A/AAAGGAT	GATGCAGGTCATGAAA CCAA	GGGTTTATGGAAACCC CAAT	59.5	416	INTERGENIC	--	--	--
scaffold1659_P3_26962 7	scaffold1659	269627	AATATATATATATATATAT/AAATAT ATATATATATATAT	CACCGTAGTGTGGTGG TGAG	CGGTGAATCCTTTACG GAGA	60.1	531	INTERGENIC	--	--	--
scaffold1659_P3_42124 8	scaffold1659	421248	ATA/ATAGTA	TCGCTGATTTTCTTCT CAGC	TCGAAATGGTTTTCGA ATCA	59.7	708	INTERGENIC	--	--	--
scaffold1659_P3_90586	scaffold1659	90586	AATATATATATATATATATATATAT ATATATATA/AAATATATATATATAT ATATATATATA	AACTTGACTTGTGATC GGC	TGCCAAAGGTTTCTC GTTC	60.1	758	INTERGENIC	--	--	--
scaffold1659_P3_96268	scaffold1659	96268	GTTT/GTTTT	TTGCTCACTACCACGCT ACG	CACCAAAGCACATCCA TTCA	60.1	382	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 (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
scaffold166_P3_227311	scaffold166	227311	TTATATATATATATATATATATATATA TA/TTATATATATATATATATATATAT ATATATATA	CATCTCGTCGGTCATC ATTG	TGATTCATGTAACACC CCAAA	60.1	551	INTERGENIC	--	--	--
scaffold166_P3_24696	scaffold166	24696	AATATATATATATATATATATATA/AA TATATATATATATATATATATATA	GCATTCTACCGTCAAAA TGAAA	TTTTCTGTTGCAAAC TT GTCTGA	59.1	696	INTERGENIC	--	--	--
scaffold166_P3_76470	scaffold166	76470	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATAT	ACACACGTGCTTCTTG GAAA	GCGATTGCTTTTACCA TTTCA	59.3	582	INTERGENIC	--	--	--
scaffold1661_P3_36321	scaffold1661	36321	GTTTTTTTTT/GTTTTTTTTT	TCGCCAACTTCTTCATT GTG	AAAATGCCCTATGTTG GCAC	59.8	832	INTERGENIC	--	--	--
scaffold1661_P3_65039	scaffold1661	65039	AT/ATCTT	GGCTAGACGAGTTCGA CGAT	TTCAGTTGCTGATTTG GTCG	59.5	654	INTERGENIC	--	--	--
scaffold1661_P3_91058	scaffold1661	91058	AATATATATATATATAT/AATATATATAT ATATATAT	GTTGGATCCCTAGCAC CGTA	AAAATGAAAAGGGGA GCGT	60.0	905	INTERGENIC	--	--	--
scaffold1664_P3_127809	scaffold1664	127809	C/CGATGTCCCCT	GACTGCTTCTCAGTC CTGG	CAAAGCATCCCAAAGG AAAA	60.0	147	INTERGENIC	--	--	--
scaffold167_P3_10156	scaffold167	10156	TAGAGAGA/TAGAGA	TTACCGGCTATTCATGC CTC	ACAAACCATTGGGTGG TGTT	60.1	467	INTERGENIC	--	--	--
scaffold167_P3_133725	scaffold167	133725	GATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTAT/ GATTATTATTATTATTATTATTATTA TTATTATTATTATTAT	TTTCTGTGTTCTCAACC CCG	TTCGCTCCTCTTATG GTGG	60.1	650	INTERGENIC	--	--	--
scaffold167_P3_219311	scaffold167	219311	AC/ACTGC	AGGAAACACATGAAGG CACC	TCGGTATTTGCCATGA GACA	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 (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
scaffold167_P3_288909	scaffold167	288909	A/AGT	TCATCCTCCCAATTTC AAC	CATTGTTTCATGCATTT GGC	59.7	705	INTRON	Ca_24156	C	--
scaffold167_P3_29049	scaffold167	29049	CTTT/CTT	TTACCGGCTATTTCATGC CTC	TCCCTTAATTTTCCTGC CCT	60.1	508	INTERGENIC	--	--	--
scaffold167_P3_297313	scaffold167	297313	T/TA	CCGTCAAACACAAACCT CCT	TGGTTTTACGCCAAC ATTA	60.0	661	DRR	Ca_24156	C	--
scaffold167_P3_353330	scaffold167	353330	A/AGTTCTCCCATC	CATGCAGTTTCAAATGG TGC	TGCTAAGTTGATGCAG CAGG	60.1	472	INTERGENIC	--	--	--
scaffold167_P3_63352	scaffold167	63352	TGA/TCCAAATGAGAGA	ATGGTCAAGACCTGGA TTGC	TCATGGCTCTTGTGC TCAC	59.9	709	CDS (FRAME SHIFT)	Ca_24147	R	MYB
scaffold167_P3_66850	scaffold167	66850	TAAAAAAA/TAAAAAAA	AAGAGAGGTCACTTTG GCGA	CAATTCCACAGGTAC GCTT	60.0	587	INTERGENIC	--	--	--
scaffold1675_P3_615	scaffold1675	615	AA/AAGTCCAACATGATGA	GTGCCAGTCGATTGCC TAAT	CCTATTGGATGCGCAA GATT	60.1	643	INTERGENIC	--	--	--
scaffold1679_P3_2481	scaffold1679	2481	CGGGTTTAGGGTTTAGGGTTAGGGT T/CGGGTTTAGGGTTTAGGGTT	TTACGGTTTTGCGTTTA GGG	AACCAAAATCCGACAC CCTT	60.0	503	INTERGENIC	--	--	--
scaffold1681_P3_934	scaffold1681	934	ATTTT/ATTTT	GAGATTTTCGTACCACC CGA	TCCAGATGAAATCGAG GACC	59.9	797	INTERGENIC	--	--	--
scaffold1682_P3_8324	scaffold1682	8324	TTGTGT/TTGT	AGGTCGTTTTTCGTCTT CCT	CACCCAATGACACCAA TGAA	60.1	693	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 (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
scaffold1684_P3_6435	scaffold1684	6435	TA/TAA	TATCGCGGGTCTTGTT TTTC	ACCAAATCGATTGGCA CTTC	60.1	330	INTERGENIC	--	--	--
scaffold1684_P3_69381	scaffold1684	69381	TAA/TA	CGGGTTGTACAAAAAT CGCT	CAGCGATGGCTAGTGT TTGA	60.0	458	INTERGENIC	--	--	--
scaffold1685_P3_110905	scaffold1685	110905	TTATAT/TTAT	AAAATTGGGTGGCCAA TAA	AAATGGACCGAAATCG AGTG	57.1	649	INTERGENIC	--	--	--
scaffold1685_P3_2214	scaffold1685	2214	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTAT/ATATTATT ATTATTATTATTATTATTATTATTAT TATTATTAT	TTATTTACCGTCGTGT CCA	AGGTGTGTTTTGGGTT CTGC	60.0	526	INTERGENIC	--	--	--
scaffold1685_P3_64815	scaffold1685	64815	TAAAAAAAAA/TAAAAAAAAA	TTGATTTGACCACCAT TTTT	TGTGTTGGGTGTTTA GGGTT	59.2	557	INTERGENIC	--	--	--
scaffold1687_P3_165308	scaffold1687	165308	GTTATTTATTTATTTATTTA/GTTA TTTATTTATTTATTTA	ACAAAATACCGCATTG AGC	ATTTGAACACGACA CCCC	60.0	484	INTERGENIC	--	--	--
scaffold1687_P3_73243	scaffold1687	73243	GATATATATA/GATATATATATA	CGAACTCGTCTAGCCC TTTG	ACACGAGGTACCGAA CAAG	60.0	735	INTERGENIC	--	--	--
scaffold1696_P3_4415	scaffold1696	4415	ATTTTTTTTT/ATTTTTTTTT	ATAACCCGAACCTCAA CCC	TGTTTGAAATATGACG CCGA	60.1	645	INTERGENIC	--	--	--
scaffold1696_P3_5390	scaffold1696	5390	TGTTTCGGGTTTCGGGTTTCG/TGTT CGGGTTTCG	TTGAAGTACGAAATCG CCC	TCGTATTGCGGTCAA ACCT	60.1	813	INTERGENIC	--	--	--
scaffold17_P3_297467	scaffold17	297467	AG/AGG	ACACCTTCAGCGGCAT ACTT	TGAGGCATGAACCTCA ACTCT	59.8	852	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1701_P3_101096	scaffold1701	101096	TT/TTCT	AGGTCATTTTCGTCTCCCT	GCCCTCAGATGAGAGT CAGG	59.9	515	INTERGENIC	--	--	--
scaffold1703_P3_131019	scaffold1703	131019	TGAAGAAGAAGAAGAAGAAG/TGA AGAAGAAGAAGAAGAAGAAG	CCAAAACGATTTCCTTCAA	TTTCCAAAAGTGACCG AACC	59.9	234	INTERGENIC	--	--	--
scaffold1703_P3_201168	scaffold1703	201168	AG/AGG	CTTCGCGATTCTTCGTTTTC	CCGGATGGTTATTTGTCGAT	60.0	496	INTERGENIC	--	--	--
scaffold1703_P3_74830	scaffold1703	74830	GATATATATATATATATATATATATA TATATATAT/GATATATATATATATAT ATATATATATATATATATAT	GAGAAACGAGCATGCATCAA	GATTC CCTAACCAACCAGCA	60.0	577	INTERGENIC	--	--	--
scaffold1704_P3_11771	scaffold1704	11771	AATATA/AATATATA	AACGATCAAGAGTCGCA AAAA	ACCCTAAACCCTAAAG CCCA	58.5	347	INTERGENIC	--	--	--
scaffold1704_P3_25810	scaffold1704	25810	ATTTT/ATTTTTT	AGGGGAGGAAGAAGAT GGAA	TGACGACGACCAACAAAGAG	60.0	485	INTERGENIC	--	--	--
scaffold1704_P3_9054	scaffold1704	9054	ATTTTTTT/ATTTTTT	TGTGACATCTCTGCCTCCTG	AACATCAGTCAAGCAC ACAAAAA	60.0	356	INTERGENIC	--	--	--
scaffold1704_P3_9435	scaffold1704	9435	GAAAAAAAA/GAAAAAAAAA	TTTTTGTGTGCTTGACT GATGTT	GAAATTTGGACGAAAA CGGA	59.7	715	INTERGENIC	--	--	--
scaffold1706_P3_101986	scaffold1706	101986	GAAAAAAAAA/GAAAAAAAAAAAAA	TGTTAGGAGGATCTCA CGGG	AACAAGATTCAACGGG CAAG	60.1	631	INTERGENIC	--	--	--
scaffold1706_P3_106229	scaffold1706	106229	AATATATATATATATATATATATATATA A/AATATATATATATATATATATATAT ATATATATATATATATA	TTGGTATTGAACTCGGAGGC	AATCCGGGAAGAAGGAAGAA	60.1	497	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 (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
scaffold1708_P3_14932	scaffold1708	14932	GTTT/GT	GCCATTGGGTGGTTG ATAG	CTGCTTGAGGACAAGC AACA	60.2	901	INTERGENIC	--	--	--
scaffold1708_P3_29378	scaffold1708	29378	TA/TAAAA	GCCCTCAGATGAGAGT CAGG	TTTGAATCCAACAAC CAGA	59.9	912	INTERGENIC	--	--	--
scaffold1708_P3_42594	scaffold1708	42594	AATATATATATATATATATATA/AATA TATATATATATATA	TTTTTCCCACAAATGTT GAT	AGGAAATCTAAGTGC CATGC	60.0	547	INTERGENIC	--	--	--
scaffold1708_P3_43195	scaffold1708	43195	AA/AAGA	GCATGGCACTTAGAATT TCCT	TCCAATTTCTCCAACAA GCC	58.3	553	INTERGENIC	--	--	--
scaffold1708_P3_5816	scaffold1708	5816	GTTTTT/GTTTTTTT	ACCCACATGTTGAG GTAA	CAAAATTCGCGACACT TTCTT	60.1	569	INTERGENIC	--	--	--
scaffold1708_P3_68435	scaffold1708	68435	TCC/TCCC	GAAGGAAAGCGCTGTAAA TGGC	CATTGAGACGTGAGC AAAA	59.9	510	DRR	Ca_27642	--	--
scaffold1708_P3_82416	scaffold1708	82416	T/TTTCCCTTTCCC	GTAAGTCTTGCTTGGG CTGC	ACACATACTTTGTGGC GTGC	60.0	138	INTERGENIC	--	--	--
scaffold1708_P3_88337	scaffold1708	88337	AATATATATATATA/AATATATATATATA TATA	TTTGCCACTGACTTGCT TTG	GAGAAAGGAGGGAATT TGGC	60.0	567	INTERGENIC	--	--	--
scaffold1708_P3_88410	scaffold1708	88410	GAAGGAAAAGGAAAAGGAAAAG/GAAG GAAAAGGAAAAGGAAAAGGAAAAG	TTTGCCACTGACTTGCT TTG	GAGAAAGGAGGGAATT TGGC	60.0	567	INTERGENIC	--	--	--
scaffold171_P3_109639	scaffold171	109639	TAAAAAAAAA/TAAAAAAAAA	CATGATTTCTCTCATT TTAATTTTCC	AGTTGTGTGGCATCGA AGTG	59.7	593	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 (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
scaffold171_P3_125471	scaffold171	125471	A/AT	TCCAATCGATTGGCTT GTT	CCAAAATTGGAGGATG TGCT	60.4	576	INTERGENIC	--	--	--
scaffold171_P3_138047	scaffold171	138047	CTAAA/CTAAATAAA	ATCGGTGGAAAAGTCT CGAA	GGGCAGCGAACTTAGT CAAG	59.7	390	INTERGENIC	--	--	--
scaffold171_P3_159288	scaffold171	159288	TTAGCAAA/T	AAAAATTCACGACTG TGC	GGCTCTCTTCAACTG TGCC	60.0	734	INTERGENIC	--	--	--
scaffold171_P3_190541	scaffold171	190541	GAA/GAAA	CTCTGATCAGCTCCATT CCC	CTAGGGCTCCTCCTTC GACT	59.8	160	CDS (FRAME SHIFT)	Ca_25949	--	--
scaffold171_P3_226585	scaffold171	226585	CTTTTTTTTT/CTTTTTTTTT	TCCGATTAAATTGGTCG CTC	CATTAGTGATCCGGA TTGG	60.0	727	INTERGENIC	--	--	--
scaffold171_P3_47903	scaffold171	47903	ATTTTTTTTT/ATTTTTTTTT	AACACATGATCCGCTG TCAC	GCCCTCAGATGAGAGT CAGG	59.6	798	INTERGENIC	--	--	--
scaffold1710_P3_150266	scaffold1710	150266	AATATATATATATATATA/AATATATA TATATATATATATA	CACATCATCAAAATAG TGCGG	GCAGTGAAAGCAAAG GAGG	59.2	748	INTERGENIC	--	--	--
scaffold1710_P3_153888	scaffold1710	153888	TAAAAAAAAA/TAAAAAAAAA	CAAAATCTCATGTTGA CCCC	GCACATGATGCACT CCTAAA	59.3	401	INTERGENIC	--	--	--
scaffold1710_P3_15823	scaffold1710	15823	CTTTTTT/CTTTTTTT	AAGCCGATTACAGCGT TTTT	TTTACAGCGCTTTTG GACA	58.9	671	INTERGENIC	--	--	--
scaffold1710_P3_163500	scaffold1710	163500	GGTTGTT/GGTT	TTTGACATGGTGGTCC AAAA	TTAGTGGGGTCACAGG AAGC	59.8	739	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 (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
scaffold1710_P3_33097	scaffold1710	33097	CG/C	GGAGAAATGCAAACC GTGT	AATGGGTCGAAATTAA GGGG	60.0	698	INTERGENIC	--	--	--
scaffold1710_P3_51290	scaffold1710	51290	GTTTTTTTTTTTT/GTTTTTTTTTTTTT	CACAAGACAACCTCTTTG ATATGGA	GTGATTCAATTGGGAT GCAA	58.3	188	DRR	Ca_25723	--	--
scaffold1711_P3_1856	scaffold1711	1856	TCC/TC	TCAATTCGGTGTTTGTG CAT	AGGGAGGACGAAAATG ACCT	60.0	653	INTERGENIC	--	--	--
scaffold1711_P3_8839	scaffold1711	8839	AT/A	AGGTCATTTTCGTCCTC CCT	ACACACCTATGGGATG CACA	59.9	177	INTERGENIC	--	--	--
scaffold1722_P3_124015	scaffold1722	124015	TACAC/TAATATAACAC	CGTCCTCGAAACTAAG AGGAAA	TGGAAGATGTGACGAT CCTG	59.9	871	INTERGENIC	--	--	--
scaffold1722_P3_132942	scaffold1722	132942	TGG/TG	ATGGTGGATACTTGGG TGGA	CCCTGTAAGAAACGTG CCAT	60.1	206	INTERGENIC	--	--	--
scaffold1722_P3_21906	scaffold1722	21906	CTATTATTATTATTATTATTAT/CTATTAT TATTATTATTAT	TATTACCGTCATCGGTT CGC	CTTGCTCCTACGTATC CCCA	60.9	351	INTERGENIC	--	--	--
scaffold1722_P3_66255	scaffold1722	66255	TG/T	CCAGAGACGATGGACA AGGT	CGAACGGGTAGTTGAC GATT	60.1	649	CDS (FRAME SHIFT)	Ca_26630	G	--
scaffold1723_P3_1064	scaffold1723	1064	ACTCTC/ACTC	CCTCATAGGTTGCACT GGGA	GCGCCCTCACATAATG TTTT	60.1	467	INTERGENIC	--	--	--
scaffold1725_P3_22096	scaffold1725	22096	CCCCAATCGATT/CCCCAATCGATTTC CCAATCGATT	GTGGTAATCGCGTTGA AGGT	GAAGAACCTGAAGTGC CTCG	60.0	797	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold1731_P3_39857	scaffold1731	39857	AATATATATATATATATAT/AATATAT ATATATATATAT	ATGTTTGGATTTTGGC TCG	GCACCGTGAGTAAATT CGGT	59.9	704	INTERGENIC	--	--	--
scaffold1731_P3_49034	scaffold1731	49034	CATATATATATATATATATA/CATATA TATATATATATA	ATGGGAAGCAACAACG ATTC	CCGTACCGTTTCTGGG ATAA	59.9	784	DRR	Ca_27041	IR	--
scaffold1731_P3_53952	scaffold1731	53952	AATATATATATATAT/AATATATATAT ATATATAT	TTTGATATTGGTTCG GAGG	AGGAGGTTTGTGTTTG ACGG	59.8	514	INTERGENIC	--	--	--
scaffold1731_P3_65474	scaffold1731	65474	TTTATTATTATTATTAT/TTTATTATT ATTATTATTATTAT	TAATCGGGGACTCAAC ATCC	CCCTTTGGATGCGAAA TAAA	59.8	279	INTERGENIC	--	--	--
scaffold1731_P3_85329	scaffold1731	85329	CATATATATATATATATA/CATATATA TATATATATATATA	TCTCCGCATAAGCTTTC GAT	GCTTCGACACTGTAGC ACCTC	59.9	478	DRR	Ca_27043	--	--
scaffold1731_P3_86422	scaffold1731	86422	AATATATATATATATATAT/AATAT ATATATATATATAT	TTTTGGGAATTCCTGCT CTG	GTGACACCCTAAACCC CAAA	60.2	299	DRR	Ca_27043	--	--
scaffold1736_P3_8593	scaffold1736	8593	GT/ATATA	TGGCATAGTATCAGGC CTCC	ACAACGAGGGGTGAGT ATCG	60.1	237	INTERGENIC	--	--	--
scaffold1739_P3_1470	scaffold1739	1470	GTTTTT/GTTTTTTT	GGTCATTTTCGTCTTC CAA	ACACACCTATCGGATG CACA	59.9	377	INTERGENIC	--	--	--
scaffold174_P3_103191	scaffold174	103191	ATTTTTT/ATTTTTTTT	ACGCTTGTTAAAGGCA GAGG	GAAAATTGCGAGAAT CCCA	59.5	459	INTERGENIC	--	--	--
scaffold174_P3_111558	scaffold174	111558	TAAA/TAAAA	CCAATCAAATCATTC ATGC	ATTGGTGGTTCCTAA GTGG	58.8	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 (°C)	Expected 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_P3_111791	scaffold174	111791	TGGGG/TGGG	CCGGATATAACCAGCC ACAC	ATTGGTGGTTGCCTAA GTGG	60.2	289	INTERGENIC	--	--	--
scaffold174_P3_113291	scaffold174	113291	ACCCCCC/ACCCCCCC	CCCTTACCTTAGGCGC TTTC	TTTCAAATTTCCGTT TGC	60.2	544	INTERGENIC	--	--	--
scaffold174_P3_113458	scaffold174	113458	ATT/ATTT	CCCTTACCTTAGGCGC TTTC	TTTCAAATTTCCGTT TGC	60.2	544	INTERGENIC	--	--	--
scaffold174_P3_11363	scaffold174	11363	CAAAAAAAAA/CAAAAAAAAA	TTATGTCGTTTCGTTAGG GGC	TGTGTGCAATAGGGAT GGAA	60.0	744	INTERGENIC	--	--	--
scaffold174_P3_119088	scaffold174	119088	GTTTTTTTTTTTT/GTTTTTTTTTTT	AATCGTCCCATGTGAT TGT	TGCTTGACAAAACAAC CATTTT	60.1	769	INTERGENIC	--	--	--
scaffold174_P3_119537	scaffold174	119537	GTATATATAT/GTATATAT	AAAATGGTTGTTTGTGTC AAGCA	CAATAAGGCACATGTT CAAGC	59.5	617	INTERGENIC	--	--	--
scaffold174_P3_127462	scaffold174	127462	AG/AGG	GGGAGGATGACAAAGA AGCA	AGTGAGGGACCAAAC GACG	60.2	372	INTERGENIC	--	--	--
scaffold174_P3_143696	scaffold174	143696	ATTTTTTTTTTT/ATTTTTTTTTT	CCCCTTTTGAAGGCT TAAA	CAACGGGTTAGCCAG AAAA	59.6	925	INTERGENIC	--	--	--
scaffold174_P3_16668	scaffold174	16668	AAT/ATAT	TTCCACCCCTAATCAT CAA	GGAAAAGTTGGAACG TGGA	60.1	923	DRR	Ca_21701	R	MYB
scaffold174_P3_185084	scaffold174	185084	GGTG/GGTGTG	TTGAATTTTCCAAGCAA GGG	CACCGGAAGCAACGAT AAAT	60.0	509	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 (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
scaffold174_P3_187586	scaffold174	187586	GATATATATATAT/GATATATATAT	GACCACATGTAAGCTC CGGT	TTCTCGAGAGTTCAGT GCCA	60.0	905	DRR	Ca_21713	R	C2H2
scaffold174_P3_189673	scaffold174	189673	GTTTTTTTTTT/GTTTTTTTTTT	AACCCATAAGCAGCA TGAC	AAAGAAAAATGCGATC GGTG	60.0	615	INTRON	Ca_21713	R	C2H2
scaffold174_P3_201398	scaffold174	201398	ATTTTTTTTT/ATTTTTTTTT	TTGCAATATTTTCCATT GCC	CAGGGACATTGTCAAC CCTT	58.5	579	INTERGENIC	--	--	--
scaffold174_P3_212765	scaffold174	212765	ATTTTTTTTTTT/ATTTTTTTTTTT	GGCGTGTTTCAGTCTC CAAT	GTGTCGTGTCTGTGTG ACCC	60.1	526	INTERGENIC	--	--	--
scaffold174_P3_238540	scaffold174	238540	CAAAAAAAAA/CAAAAAAAAAA	AACAAGGAATGGCTGA CGAC	GAATGTGCATTTTGAC CCCT	60.1	347	INTERGENIC	--	--	--
scaffold174_P3_279541	scaffold174	279541	ATTTTTTT/ATTTTTTTTT	AATGTAGCAGCAAACC ACCC	TTGATGCATTGTCTTCT CGC	60.0	602	INTERGENIC	--	--	--
scaffold174_P3_342316	scaffold174	342316	GAAAAAAAAA/GAAAAAAAAAAA	TAGGTTTATGAAGCGT GGGC	TGCTTGGTGGCATTTT GTAA	60.1	873	INTRON	Ca_21719	K	TCP
scaffold174_P3_349819	scaffold174	349819	CAAAAAAAAA/CAAAAAAAAAA	AACAATGAGTCGGCGA AAAC	AGGCAAGGGATCAACA ACAC	60.1	347	INTERGENIC	--	--	--
scaffold174_P3_350080	scaffold174	350080	TGCCTCGCCTCGCCTCG/TGCCTCGC CTCG	GTGTTGTGTATCCCTT GCCT	GCCATATTCTAAAGC AGCC	60.0	576	INTERGENIC	--	--	--
scaffold174_P3_352813	scaffold174	352813	CTTTTTTTTT/CTTTTTTTTT	AGGGACAAAGGGCAAG AAAT	TGATAAGTCGGTGAAA CGCA	59.9	442	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 (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
scaffold174_P3_368716	scaffold174	368716	TAAAAA/TAAAA	ATCCAAGGGCACATGT TAGC	TCGACTGCGTTAATGT TGGA	60.0	601	INTERGENIC	--	--	--
scaffold174_P3_368802	scaffold174	368802	AATTATCATT/AATT	ATCCAAGGGCACATGT TAGC	TCGACTGCGTTAATGT TGGA	60.0	601	INTERGENIC	--	--	--
scaffold174_P3_370146	scaffold174	370146	AACACACACA/AACACACA	ATTTTGATGCGACAAA CCC	ACTGCTGCCCTCTTT ATGA	59.8	553	INTERGENIC	--	--	--
scaffold174_P3_3772	scaffold174	3772	GAAAAAAAA/GAAAAAAAA	CAAGACATTTGGAGA GAGAAAA	TCTTCTTAATGCATGCT TTGTTT	59.0	654	INTERGENIC	--	--	--
scaffold174_P3_422115	scaffold174	422115	TAAAAAAAAA/TAAAAAAAAA	GGGCAATCATATCCT CCAA	TGATGCCACATTGTA AACC	59.7	638	INTERGENIC	--	--	--
scaffold174_P3_424440	scaffold174	424440	CAACAAAACAAAACAAAACAAA CAAA/CAACAAAACAAAACAAAACA AA	GGAGCTTTGATTCCCA TGAA	GATGCATTTGGGAAAG ATGG	60.0	560	INTERGENIC	--	--	--
scaffold174_P3_424854	scaffold174	424854	GAAAAAAAA/GAAAAAAAA	TCGAGTCTTCCACCCAT TTC	CGGCTTCAACATGAGA GTCA	60.1	761	INTERGENIC	--	--	--
scaffold174_P3_426186	scaffold174	426186	ATTTTTT/ATTTTTT	ATGTTGAAGTCGGGAA AACG	TCATGCGTTGTTGGAT CTGT	60.0	950	INTERGENIC	--	--	--
scaffold174_P3_434745	scaffold174	434745	CAA/CAA	TTTGCCATTCCAAGTT TCC	TTGATCTCGTGAAGTT TGCG	59.9	350	INTRON	Ca_21723	A	C3H
scaffold174_P3_445968	scaffold174	445968	TC/T	CAAGCCTTTTAAGCACT GCC	AAATTCTCACCATTTC CCC	60.0	729	INTRON	Ca_21723	A	C3H

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 (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
scaffold174_P3_448517	scaffold174	448517	GCCTGGCCTGGCCT/GCCTGGCCTGG CCTGACCTGGCCTGGCCT	CATGGAAGTAGGGATG GGAA	TGGAATGGCTATCGAA TATGG	59.7	315	INTRON	Ca_21723	A	C3H
scaffold174_P3_449459	scaffold174	449459	T/TC	GCCTATTCCCACCCCT ACAT	ACAAAGTCATTGCGAG GTCC	60.0	385	INTRON	Ca_21723	A	C3H
scaffold174_P3_450819	scaffold174	450819	AT/A	AAGATCACCGTGCAAA AAGG	GCCTCCACGACCACTA CAAT	60.1	433	INTRON	Ca_21723	A	C3H
scaffold174_P3_467080	scaffold174	467080	AT/ATT	ACCCATTGATCCTTGCA GTC	TGGCAAATCGATTAGA CCTGT	59.9	496	DRR	Ca_21724	--	--
scaffold174_P3_479142	scaffold174	479142	TAAAAAAAAA/TAAAAAAAAA	GAAGGGGTTTCACTGG ATGA	TTTGACCCCAACCTC AAAG	59.9	454	INTERGENIC	--	--	--
scaffold174_P3_4806	scaffold174	4806	ACCCCCCCCC/ACCCCCCCC	TTGATTGTCCTTTCCAA GCC	GGCTTCTGATTTTGTTT TGGG	60.2	575	INTERGENIC	--	--	--
scaffold174_P3_66524	scaffold174	66524	CTTTTTTT/CTTTTTT	TCATTTGAAATTCACGC TGC	CATTGGCAGATGATGG ACAG	59.8	642	INTERGENIC	--	--	--
scaffold174_P3_8927	scaffold174	8927	TAAAAAAAAAAAA/TAAAAAAAAAAAAA	TTACCACTTCAGACCC GAC	TTGGTTCCAACAATCT CGCT	60.0	609	INTERGENIC	--	--	--
scaffold1740_P3_2124	scaffold1740	2124	T/TA	GGAGGGTTTGTGTTG GAAT	ACATGATCACCCGAC AAAT	60.0	229	INTERGENIC	--	--	--
scaffold1740_P3_2698	scaffold1740	2698	TAA/TA	CGATTTGGCCATACAG GAAT	CCCATCTACATACCCA TCCG	59.8	498	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 (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
scaffold1750_P3_117404	scaffold1750	117404	T/TCTAA	TCTTGGTGCAACGTTTCTG	CGAAGCTCGACACAATTCA	59.9	475	INTERGENIC	--	--	--
scaffold1750_P3_19058	scaffold1750	19058	TTAAAGATAAAATAAGATAAAA/TTAAAGATAAAA	CTCTCCATAGGCAACC CAAG	AGGGTTTGGGTTTTCAGGTT	59.7	648	INTRON	Ca_24922	OE	WRKY
scaffold1751_P3_102486	scaffold1751	102486	TTATATATATATATATATAT/TTATATATATATATATAT	AGGAAGAGTGGAGTTGCGAA	ATTTTGGCTCGGAGGTTTT	60.0	358	INTERGENIC	--	--	--
scaffold1751_P3_111839	scaffold1751	111839	TTCATTGTGTGCATT/TTCATTGTGTCAATTTGTGCATT	TGTGCGTCCAATAGGTGTGT	CGGAGGACGAAAATGACCTA	60.0	261	INTERGENIC	--	--	--
scaffold1751_P3_135771	scaffold1751	135771	C/CG	AGGTCATTTTCGACCTCCCT	CCAATGAGACAAACACCCCT	59.9	390	INTERGENIC	--	--	--
scaffold1751_P3_176898	scaffold1751	176898	GAAAAAAAAA/GAAAAAAAAA	TCAAACTTTTCCGCTGCTT	AAGAATAAGCCCAGGGAGGA	60.0	419	INTERGENIC	--	--	--
scaffold1751_P3_391610	scaffold1751	391610	ATTTT/ATTTT	CAATGCATCGTCCCTTCTT	CAAGTTGCCTTTTCACAGCA	60.1	310	INTERGENIC	--	--	--
scaffold1751_P3_462092	scaffold1751	462092	CTTTTTTTT/CTTTTTTTTT	TGGATGCGTCCCTTAATAGC	CTCATGCGGTCCCTTA ACTT	60.1	787	INTERGENIC	--	--	--
scaffold1751_P3_468207	scaffold1751	468207	TGGG/TGG	AATATTTGGCAGCCATTGTC	TTTGAAGGACCTACTGTCCCA	59.9	390	INTERGENIC	--	--	--
scaffold1751_P3_470874	scaffold1751	470874	AATATATATATATATATA/AATATATATATATATA	GTTAACGAGGCGGTGACAAT	CTAGCAATTGGCAGCATGA	60.0	633	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_P3_477562	scaffold1751	477562	GAAAAAAAAA/GAAAAAAAAA	AGAACGCTCCAACAAA ATGG	TTAATGGGGAAGGGGA AAAA	60.1	428	INTERGENIC	--	--	--
scaffold1751_P3_555660	scaffold1751	555660	ATTTTTTTTT/ATTTTTTTTT	GAGGCTGCAGTATCTG GGAG	TCGCACAGCACCAGAC TATC	60.0	714	INTERGENIC	--	--	--
scaffold1756_P3_127369	scaffold1756	127369	TCTAAACCCTAAACCCTAAAC/TCTAA CCCTAAAC	TTTTTGCACTTCTTGGA CGA	TTAGGGGTTTGGGTT AGGG	59.4	833	INTERGENIC	--	--	--
scaffold1756_P3_5242	scaffold1756	5242	CGGTA/C	GGTGAGGCTTTTGCC TCAA	TTGGATGAAGGCCATA AAGG	60.2	665	INTERGENIC	--	--	--
scaffold1756_P3_68155	scaffold1756	68155	CTTTTTTTTT/CTTTTTTTTT	TCGGAATAATTAGGG CAAGA	TTTGCAATGTGTCTAT GCGA	58.7	791	INTERGENIC	--	--	--
scaffold1757_P3_1167	scaffold1757	1167	CTT/CTTATT	AAGCGTACCTGTGGGA ATTG	TTAATGAGGGGCTGAA TTGG	60.0	259	INTERGENIC	--	--	--
scaffold1761_P3_69178	scaffold1761	69178	CTT/CTTAGTT	GAGATTGGCGTGGTT TTGT	GAGGGAAAAGCCAGAT TTTC	60.0	951	INTERGENIC	--	--	--
scaffold1767_P3_28174	scaffold1767	28174	GAATAATAATAATAATAATAATAAT AATAATAATAATAATAAT/GAATAAT AATAATAATAATAATAATAATAATA ATAATAATAAT	GTGTTTTCCCGAATCG CTA	AATTTGGAATGCGGCT AATG	60.1	678	INTERGENIC	--	--	--
scaffold1768_P3_12878	scaffold1768	12878	CAAAAA/CAAAAA	GGTCCTCGATTTCATC GGA	GTACGAAAAATCGCCCA AAAA	60.0	320	INTERGENIC	--	--	--
scaffold1771_P3_66013	scaffold1771	66013	TG/T	AGAAGTGATTGCGGAG GAGA	ATGGTCTTGCCATT CTTG	60.0	165	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 (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
scaffold1773_P3_13836	scaffold1773	13836	TT/TTAATCGAGT	AATCCAATGACGCAAAAC ACA	GCCCAATTCGGGTTT TAAT	60.0	655	INTERGENIC	--	--	--
scaffold1773_P3_16488	scaffold1773	16488	T/TA	TGGGTGCACAAGATTG GTTA	AGGTCAGTTTCGTCCT CCCT	60.0	667	INTERGENIC	--	--	--
scaffold1776_P3_23561	scaffold1776	23561	CTTT/CTT	TCACAACCTCAATTTTGC TTTATGTT	TTCGTTTGGTAGTTGT ATTTAATAACG	59.2	519	INTERGENIC	--	--	--
scaffold1777_P3_40279 6	scaffold1777	402796	CTTTTTTTTT/CTTTTTTTTTT	GGGTCCAAAGCCCAT AAGT	TATGGATGGTGAGCGT CAAA	60.2	594	INTERGENIC	--	--	--
scaffold1777_P3_40284 9	scaffold1777	402849	GAAAAAA/GAAAAAAA	TTAAGGCGTGAGATTT CGG	TATGGATGGTGAGCGT CAAA	60.2	309	INTERGENIC	--	--	--
scaffold1777_P3_52155 1	scaffold1777	521551	ATTTT/ATTT	CTTTGTTTTTCACCGAC CGT	ACGCCTGACGGTTATT GTTC	60.0	497	INTERGENIC	--	--	--
scaffold1777_P3_55430 5	scaffold1777	554305	GTTTTTTTTT/GTTTTTTTTT	CTGACCTTCATTCTCCA GCC	GTTCTGCGTTTCCTT GAGC	59.8	364	INTERGENIC	--	--	--
scaffold1777_P3_61267 5	scaffold1777	612675	CTATATATATATATATATATA/CTA TATATATATATATATATATATATAT A	CATGCATCCATATCCCC TCT	CGGAACAACCTTTGCA GTGA	59.7	765	INTERGENIC	--	--	--
scaffold1777_P3_61469 0	scaffold1777	614690	CT/CTAAATCAT	TAAATCTCCACCGGC CAAG	TGAAAAGAGCCTCGCA AATTA	60.1	815	INTERGENIC	--	--	--
scaffold1777_P3_63649 0	scaffold1777	636490	CTTTTTTTTT/CTTTTTTTTTT	AAAGCGGGAATATGTT GGTG	CACACTTGTTGCCAC GTCT	59.8	460	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
scaffold1777_P3_69156	scaffold1777	69156	CAAAAAAAAA/CAAAAAAAAA	TTGCCACTATTACGCAT GGA	TGGAAATGGGTGTGT AGCA	60.1	645	INTERGENIC	--	--	--
scaffold1778_P3_1269	scaffold1778	1269	C/CG	ACTTCCGCGCTAGATT CAA	TCCTGGTCCTCGATT CATC	60.0	282	INTERGENIC	--	--	--
scaffold1779_P3_13141 4	scaffold1779	131414	CAAAAAAAAA/CAAAAAAAAAAAAA	TTGTTTCTCCCAGTTT TGG	TTCCATATCACACGGA ACCA	59.9	275	INTERGENIC	--	--	--
scaffold1779_P3_13149 7	scaffold1779	131497	ATTTTTTTT/ATTTTTTT	TTGTTTCTCCCAGTTT TGG	TTCCATATCACACGGA ACCA	59.9	275	INTERGENIC	--	--	--
scaffold178_P3_605	scaffold178	605	AACACAC/AACAC	CAATAGGCCAAGGAAG GACA	ACATTGAGGCCATTTT CGTC	60.1	236	INTERGENIC	--	--	--
scaffold1795_P3_5623	scaffold1795	5623	A/AGCC	CAAATGTCGGGAGCTA CCAT	TCGTTTAATTTTCGGGA TTGG	60.0	456	INTERGENIC	--	--	--
scaffold1802_P3_20448	scaffold1802	20448	CG/C	ATTTTCTCCGCTTCCGA TTT	AAGGAAGCGCACTAGC AGAG	60.0	816	INTERGENIC	--	--	--
scaffold1804_P3_13548 9	scaffold1804	135489	GTTT/GTT	GCTCTCGCTCCCCTCT ATTT	TTAGCAATGTTGTGGC AATG	59.9	518	INTERGENIC	--	--	--
scaffold1804_P3_15484 8	scaffold1804	154848	GCCCC/GCCCC	ACGACAAAATACATCG GGGA	TTTGATAGGACGTGGG GAAG	60.2	123	INTERGENIC	--	--	--
scaffold1804_P3_17611 8	scaffold1804	176118	AATATATATATATATATATATAT/AAT ATATATATATATATATATATATAT	AGCCCTGTTTGATTCC CTTT	TGAGCGTTCTAGTATC CACCTC	59.9	765	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 (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
scaffold1810_P3_89969	scaffold1810	89969	AACACACACACACACACACACA/AA CACACACACACACACACACACAC A	GCCATTGCTACCTCTG GCTA	TGGGACCCAAGTTGAA CCTA	60.4	890	INTERGENIC	--	--	--
scaffold1810_P3_98576	scaffold1810	98576	GGTTGT/GGTTGTTGT	TGACGATACGAAACGA TGGA	AGCGATGCATGTCTCA AGTG	60.1	430	URR	Ca_26004	--	--
scaffold1815_P3_23915	scaffold1815	23915	AAAAATTGAAAAT/AAAAATTGAAAAT GAAAAT	CATCTGAGCTTCTTTGG ACG	GCGGGTGCATTTTCAT TTAT	58.6	506	INTERGENIC	--	--	--
scaffold1816_P3_53607	scaffold1816	53607	ATATATAATTTATATAATTTATATAATTT /ATATATAATTTATATAATTT	TGGTGAGGAAATGAGC AACA	ACAAATGAAGGTGCG GAAG	60.2	679	INTERGENIC	--	--	--
scaffold1816_P3_56026	scaffold1816	56026	CAAAAA/CAAAAAA	TGGCATGCTGTGTAC GAAT	CGAACCGTTAAACATG GCTT	60.1	456	INTERGENIC	--	--	--
scaffold1822_P3_17416	scaffold1822	17416	GTT/GTTT	AAGACCAATTACCGA GGTG	TTGTATTTGGCGTGTC CGTA	60.0	720	INTERGENIC	--	--	--
scaffold1822_P3_8865	scaffold1822	8865	G/GCA	GGAGGGTTTGGTTTG GAAT	TGCTGAGTTTCTGCAT GACC	60.0	505	INTERGENIC	--	--	--
scaffold1825_P3_15825	scaffold1825	15825	CATATATATATATATATAT/CATATATAT ATATATATATAT	GTTGGTCCCTAGCAC CGTA	CGGGATGGTGGCATA GTATC	60.0	790	INTERGENIC	--	--	--
scaffold1825_P3_26286	scaffold1825	26286	CAAAGAAAAAGAAAA/CAAAGAAAA AGAA	TGGCAAATCGATTGAC AGAA	AGTTTCTCCCGAAA CCTA	60.2	778	INTERGENIC	--	--	--
scaffold1830_P3_4465	scaffold1830	4465	CTATA/CTA	CCAAGGGAAGACGAAA ATGA	TGCATCCAACAGGTGT GTTT	60.0	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 (°C)	Expected 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_P3_10086	scaffold1835	10086	GCC/GCCC	TGGTTAACCTTGACCA CAA	GGATGCTTGAATTATG CCGT	60.0	672	INTERGENIC	--	--	--
scaffold1835_P3_11262	scaffold1835	11262	CAAA/CAAAAA	AAACGCATCCCGTAAAT CAG	CGATTGCCCTAGAAAA TGGA	60.0	610	INTERGENIC	--	--	--
scaffold1835_P3_8124	scaffold1835	8124	TCAACAACA/TCAACA	TCATTGCTCCTTTGAGT TGC	ATTTGCCACAGATACC GCTC	59.0	453	INTERGENIC	--	--	--
scaffold1835_P3_8173	scaffold1835	8173	CAA/CA	TCATTGCTCCTTTGAGT TGC	ATTTGCCACAGATACC GCTC	59.0	453	INTERGENIC	--	--	--
scaffold1835_P3_8463	scaffold1835	8463	TAAAAAAA/TAAAAAAA	GAGCGGTATCTGTGGC AAAT	CGGTTTGTGGCTTTCC TAAA	60.1	486	INTERGENIC	--	--	--
scaffold1844_P3_10600	scaffold1844	10600	T/TTTG	TCTCCGTAAGGATTCA CCG	AAAAGTTAGGCTCAT GCCA	60.1	618	INTERGENIC	--	--	--
scaffold1844_P3_12115 9	scaffold1844	121159	ATTTTTTT/ATTTTTTT	ACTTCCGTTACACGTT TCC	CGATGCAGTGAAGAT CAAA	60.0	542	INTERGENIC	--	--	--
scaffold1844_P3_14877 5	scaffold1844	148775	TTATATATATATATATATAT/TTAT ATATATATATATAT	TGGTCGATGACACTCT TTGG	ATGTGGGAGCATAAT GAGG	59.7	506	INTERGENIC	--	--	--
scaffold1844_P3_15785 8	scaffold1844	157858	T/TATTAAG	TAAGTCGTCTTGAC CACC	ATCCACCAATGTGGCA TTTT	60.0	195	INTERGENIC	--	--	--
scaffold1844_P3_16675 0	scaffold1844	166750	TTTATTATTATTATTA/TTTATTATTA TTATTA	GGCTAGACGAGTTCGA CGAC	CTAGATGGTCGCATTC TGGG	60.0	418	DRR	Ca_24145	--	--

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
scaffold1844_P3_167253	scaffold1844	167253	CAAAAA/CAAAA	CCCCAATTGCGATCAATAA	TCAAAATAAGAACTCGCCAA	60.6	694	DRR	Ca_24145	--	--
scaffold1844_P3_167398	scaffold1844	167398	GTATATAT/GTATATATAT	CCCCAATTGCGATCAATAA	TCAAAATAAGAACTCGCCAA	60.6	694	DRR	Ca_24145	--	--
scaffold1844_P3_2008	scaffold1844	2008	CTTTTTTTTT/CTTTTTTTTTTTTT	AACATGGGACGAGCTGTTTC	TTCAAAGAGAGATAAA TTCAAAGGTC	60.1	903	INTERGENIC	--	--	--
scaffold1844_P3_2095	scaffold1844	2095	AAA/AAAATAA	AACATGGGACGAGCTGTTTC	GGGATATTCAATAAGT GAAATTCAAA	60.1	923	INTERGENIC	--	--	--
scaffold1844_P3_2214	scaffold1844	2214	T/TC	TGCAATTATGATCATGCTTTATATG	GGGATATTCAATAAGT GAAATTCAAA	58.2	732	INTERGENIC	--	--	--
scaffold1844_P3_2526	scaffold1844	2526	CA/CAA	GACCTTTGAATTTATCTCTCTTGAA	TTACAACATGTCAGGCGAA	58.5	373	INTERGENIC	--	--	--
scaffold1845_P3_119920	scaffold1845	119920	TGG/TGGG	AATTTGGAGGCGACATTACG	CCAAGACATTAAGAGATTCCCC	60.0	683	URR	Ca_26701	--	--
scaffold1845_P3_129984	scaffold1845	129984	GAAAAAA/GAAAAAAA	CTGCAAGCGACTTGGA CATA	GCATTGCCAATCATCT TCCT	60.0	593	INTERGENIC	--	--	--
scaffold1845_P3_47422	scaffold1845	47422	GA/G	GACCCAACGAGATTCGGTA	TTAGGTTAGCATGGCC CAAC	59.8	505	INTERGENIC	--	--	--
scaffold1845_P3_79664	scaffold1845	79664	ANNNNNNNNN/ANNN	CCTTGATATGCAATGCT CACA	ATCGAGCCTCTTGATATGCG	59.7	336	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 (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
scaffold1848_P3_10959	scaffold1848	10959	TTTTAG/TTTTAGCTCTTAG	TACAATGCCGAGCAAA TCAA	CGAACTGGGCTCAGAG AAAC	60.2	862	INTERGENIC	--	--	--
scaffold1852_P3_10166 1	scaffold1852	101661	CTTTTTTTTTTT/CCTTTTTTTTTTTT	CCCATAATTTTATGAAA ATGCCA	TCTCCTGTACCGAGGC TTGT	59.9	463	INTERGENIC	--	--	--
scaffold1852_P3_10262 1	scaffold1852	102621	CAAAAAAAAA/CAAAAAAAAAAA	TCCGGAAGAGGCTTCT GTAA	TCGACACTCATTGCTC CTCA	59.9	865	INTERGENIC	--	--	--
scaffold1852_P3_10295 2	scaffold1852	102952	CAT/CATAT	GGTCAGGGCCTCTAAG GTCT	TTGACACTCATTGCTC CTCG	59.7	847	INTERGENIC	--	--	--
scaffold1852_P3_10320 9	scaffold1852	103209	ATTTTTTTTT/ATTTTTTTTTTTTT	TTGAGGACCAATGAGT GTCG	GTAAATTCGGGGTCG AGGT	59.7	553	INTERGENIC	--	--	--
scaffold1852_P3_10350 7	scaffold1852	103507	ATTTTTTT/ATTTTTTTT	CGAGGAGCAATGAGTG TCAA	GTAAATTCGGGGTCG AGGT	60.0	253	INTERGENIC	--	--	--
scaffold1852_P3_94251	scaffold1852	94251	A/ATAAATAAGTTG	CATCCTCCTTCGCATCC TTA	ATTAGCGTCGATGTTG GACC	60.2	436	INTERGENIC	--	--	--
scaffold1852_P3_94526	scaffold1852	94526	ATTTTTT/ATTTTT	GGTCCAACATCGACGC TAAT	TCGGATGTTACACACC TCACA	60.0	515	INTERGENIC	--	--	--
scaffold1852_P3_94560	scaffold1852	94560	CTTTTTTTTT/CTTTTTTTTTTTTT	GGTCCAACATCGACGC TAAT	TCGGATGTTACACACC TCACA	60.0	515	INTERGENIC	--	--	--
scaffold1852_P3_94771	scaffold1852	94771	GGTGTGT/GGTGT	GGTCCAACATCGACGC TAAT	TTTCAGTCATTGATT CGGA	60.0	531	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
scaffold1852_P3_94919	scaffold1852	94919	TGATTA/T	TACCATGGAGTGTGCT CGAA	TTTCAGAACACAAATCT GCATGT	60.3	765	INTERGENIC	--	--	--
scaffold1852_P3_94935	scaffold1852	94935	ATTGTT/ATT	TACCATGGAGTGTGCT CGAA	TTTCAGAACACAAATCT GCATGT	60.3	765	INTERGENIC	--	--	--
scaffold1852_P3_96699	scaffold1852	96699	CTATATATATATATATATA/CTATATA TATATATATATA	TTGTTTTGATGACGGTC AGG	GACACTCATTGCTCCC CAAT	59.5	635	INTERGENIC	--	--	--
scaffold1854_P3_7020	scaffold1854	7020	ATTT/ATT	TGCAACCCAAAAAGAA GGAC	GCAACACAGGAAGTCA GCAA	60.1	510	INTERGENIC	--	--	--
scaffold186_P3_252188	scaffold186	252188	AATATATATATATA/AATATATATATA TATATA	TACTCCCAATGGCGA CTTC	CATTTCGAACTTGGGT TTGC	60.1	485	INTERGENIC	--	--	--
scaffold186_P3_255483	scaffold186	255483	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATATATAT	CTCACATGCCATAGCT GCAT	AAGGAAGGCCTACTCC CAAA	59.9	756	INTERGENIC	--	--	--
scaffold1861_P3_12269	scaffold1861	12269	ACC/ACCC	TTTCTGGACGGCTCTT GACT	GCGGGTGGTTCTTTGA ATTA	60.0	579	INTERGENIC	--	--	--
scaffold1864_P3_14836	scaffold1864	14836	TAAAAAA/TAAAAAA	CGCTCTGTTAAGTCGG TTCA	CATCCACGGAGCAAAA ACTT	59.1	251	INTERGENIC	--	--	--
scaffold1864_P3_14934	scaffold1864	14934	GTGTGATAAGATAT/GTGTGATAAGAT ATGTGATAAGATAT	AACTCGAACACGAAAC CGAC	CATCCACGGAGCAAAA ACTT	60.2	188	INTERGENIC	--	--	--
scaffold1864_P3_17283	scaffold1864	17283	GCTC/G	TCAAAATCAGCCCCAAA TTC	ATCAGCCCCAATCAGT AACG	59.9	445	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 (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
scaffold1864_P3_19581	scaffold1864	19581	T/TGCG	TCCTTCCTATTTTCCT CCAA	ACTTTGCATCTGGCAG CTTT	59.9	532	INTERGENIC	--	--	--
scaffold1864_P3_2902	scaffold1864	2902	GT/GTAGTAAT	CGTGACAACCACCAAC TCITT	TCTGAAAGCCGTGAAA GACC	60.1	490	INTERGENIC	--	--	--
scaffold1864_P3_3660	scaffold1864	3660	TACCA/TA	ATGTTGTGAAGATTGG GGG	TGCATTGGGTCCCAT AGA	59.6	369	INTERGENIC	--	--	--
scaffold1864_P3_3716	scaffold1864	3716	CATATATATATATATATAT/CATATAT ATATATATATATATATAT	ATGTTGTGAAGATTGG GGG	TGCATTGGGTCCCAT AGA	59.6	369	INTERGENIC	--	--	--
scaffold1864_P3_3872	scaffold1864	3872	ATTTTTTT/ATTTTTTTTTT	GTTGGATGCTTTTGA GCAG	ACGTAGCGTAGAAGTC CCCA	60.8	538	INTERGENIC	--	--	--
scaffold1864_P3_4285	scaffold1864	4285	TCC/TC	ATGGGACCCAAATGCA ATAA	ACGTAGCGTAGAAGTC CCCA	60.0	339	INTERGENIC	--	--	--
scaffold1864_P3_4508	scaffold1864	4508	ATCCTGTTACT/AT	TTGGGGACTTCTACGC TACG	GCAACAGGGATGACTG ACTG	60.3	713	INTERGENIC	--	--	--
scaffold1864_P3_4680	scaffold1864	4680	T/TC	TTGGGGACTTCTACGC TACG	TCGGTCAGAAGAAAAC TGCC	60.3	883	INTERGENIC	--	--	--
scaffold1864_P3_5094	scaffold1864	5094	TAAA/TAAAA	CAGTCAGTCATCCCTG TTGC	TCGGTCAGAAGAAAAC TGCC	59.3	190	INTERGENIC	--	--	--
scaffold1864_P3_5589	scaffold1864	5589	A/AT	TTCAGCGCTTAACGTG AGAA	TCGAGATGATGATGGA TGGA	59.8	638	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
scaffold1864_P3_5884	scaffold1864	5884	CAAAAAAAAA/CAAAAAAAAA	TTGCCATTCTCCAAGT TTC	CGGATATAAGCATGGC ATCA	60.1	659	INTERGENIC	--	--	--
scaffold1864_P3_5957	scaffold1864	5957	AATG/AATGATG	TTGCCATTCTCCAAGT TTC	CGGATATAAGCATGGC ATCA	60.1	659	INTERGENIC	--	--	--
scaffold1864_P3_5989	scaffold1864	5989	ATAGT/AT	TTGCCATTCTCCAAGT TTC	CGGATATAAGCATGGC ATCA	60.1	659	INTERGENIC	--	--	--
scaffold1864_P3_6249	scaffold1864	6249	TCC/TC	AGTGACATGTGCTGCC TTTG	AAATTGGGGTCTCAAC GAAA	59.9	295	INTERGENIC	--	--	--
scaffold1866_P3_13964 7	scaffold1866	139647	TACACACACACACACACACACAC ACA/TACACACACACACACACAC ACA	GCAAATGCTCCCCTAAT TGA	CAATTTTCTGCACTCTC GCA	60.0	296	INTERGENIC	--	--	--
scaffold1866_P3_41886	scaffold1866	41886	CTTTTTTTTT/CTTTTTTTTT	TGGAGTGGGGTACCTA GTGG	GGGACAGAAAGAAAGG GGAG	59.8	758	INTRON	Ca_26041	R	--
scaffold1866_P3_45885	scaffold1866	45885	TAAAAAAAA/TAAAAAAAAA	AAGAAGCCATTATGTGT TGGG	TCTTCCGCTTTCTATT CCA	59.0	221	INTRON	Ca_26041	R	--
scaffold1866_P3_62792	scaffold1866	62792	AAATAAA/AAATAAATAGAATAAA	TTGCTCCTACGTATCTC CCG	TTAAGTTGGTTTGGGC TTGG	60.2	855	INTRON	Ca_26041	R	--
scaffold1867_P3_17417 3	scaffold1867	174173	CAAAA/CAAAA	CAAAAGTTTCGGGCATT TGT	AGCTGCAAGTGCAGAG CATA	60.0	341	INTERGENIC	--	--	--
scaffold1867_P3_18384 5	scaffold1867	183845	TTATATATATATATATATATAT/TTAT ATATATATATATATAT	GCCAATCAATTATCAAC GGG	GGCATTGCCAGATTA AAAA	60.2	871	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 (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
scaffold1867_P3_226694	scaffold1867	226694	ATTT/ATTTT	ATCGATTTTGCCGTTT TGC	GGAGGGTTTGGTTG GAAT	59.9	473	INTERGENIC	--	--	--
scaffold1869_P3_19531	scaffold1869	19531	GAAA/GAAA	GACTTTTGGAGCGACT TTCG	AACAATGTTTCAGGTT CCGC	60.0	273	INTERGENIC	--	--	--
scaffold1869_P3_20055	scaffold1869	20055	CAA/CAAA	TTTCAGGCGATTTTCGT ACC	ATTGTGTTTCGGGTTT CGAG	60.1	825	INTERGENIC	--	--	--
scaffold1878_P3_25991	scaffold1878	25991	TATAATAATAATAATAA/TATAATAATAA TAATAATAA	CTAATGGGTGATCCG CTGT	TTGACATGATTGGTTT CGG	60.0	416	INTERGENIC	--	--	--
scaffold1878_P3_32075	scaffold1878	32075	TAAAAAAA/TAAAAAAA	TCAGGTTGGGATGGTT TCTC	CCTGCCTCAAGAGTTG CTTC	59.9	594	INTERGENIC	--	--	--
scaffold1878_P3_40480	scaffold1878	40480	CTCA/CTCAAGGATTTTGATTCA	GCTTGGAACAGCCTC AGAC	ACATTCAAGCGCAGGT CTCT	60.0	612	INTERGENIC	--	--	--
scaffold1878_P3_51803	scaffold1878	51803	T/TA	GATGCATATTGCTTCT TTCCA	CCAAAATTAGCCTTGT CACCA	59.2	603	INTERGENIC	--	--	--
scaffold1878_P3_52641	scaffold1878	52641	GTTTTTTTTTTTTTTTT/GTTTTTTTTTT TTT	TGCCATAACCACCAAAA GACA	TGTTTTCTGCAACAAAA GCG	60.0	384	INTERGENIC	--	--	--
scaffold1878_P3_56174	scaffold1878	56174	TCTTCAAATC/TCTTCAAATCTACTTCA AATC	CCTTGACCCTACAAGC CAAG	TCATACCTGGCTGATG TTGTG	59.7	896	INTERGENIC	--	--	--
scaffold1878_P3_73171	scaffold1878	73171	ATTTTTTT/ATTTTTTTTT	GGTTGGGTCCTGGTTT GTTA	CCTCTGGATCCAACAC AGGT	59.7	626	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
scaffold1878_P3_8070	scaffold1878	8070	CAAAAAAAAA/CAAAAAAAAA	TTGGTTTGAAAAAGGG GTTG	TACGTTGCAATCGTCC AAAA	59.8	468	INTERGENIC	--	--	--
scaffold1884_P3_24769	scaffold1884	24769	TAAAAA/TAAAAA	AGGAAGAGTGGAGTTG CGAA	CAACCCATTCTTCATT GCT	60.0	943	INTERGENIC	--	--	--
scaffold1885_P3_40287	scaffold1885	40287	GATATATATATAT/GATATATATAT ATATATATAT	CCATTGTGGTCGTTTA GGCT	CCCAAATGACATCAAA ACCC	60.0	572	INTERGENIC	--	--	--
scaffold1885_P3_40622	scaffold1885	40622	TAACC/T	CCATTGTGGTCGTTTA GGCT	CCCAAATGACATCAAA ACCC	60.0	572	INTERGENIC	--	--	--
scaffold1885_P3_47510	scaffold1885	47510	A/AG	GTAGCTTCGGCTACAC CGAC	ATTCCGTTGTGCATT GATG	59.9	664	INTERGENIC	--	--	--
scaffold1886_P3_17993	scaffold1886	17993	TA/TAA	GAGAGAGGCATTGCAC AACA	CGAAATTTCTTTAACGA GGGG	60.0	537	INTERGENIC	--	--	--
scaffold1886_P3_24795	scaffold1886	24795	GTT/GTTT	GCTTCTTGAAGTTTC GACG	CTTCTTCGTATACACC GCCG	60.0	422	INTERGENIC	--	--	--
scaffold1899_P3_8615	scaffold1899	8615	TTTATTATTATTATTA/TTTATTATTATTA	CCCCACTCCCCGTACT TATT	TGGTGGATGTGAACGA CACT	60.1	484	INTERGENIC	--	--	--
scaffold1905_P3_1617	scaffold1905	1617	CTG/CTCTGATG	ACTGATGTCAAGAGG CCAG	AGAGGGTGGCAATGGT AATG	60.3	251	INTERGENIC	--	--	--
scaffold1911_P3_12219	scaffold1911	12219	AG/AGG	CCAATCGATTATCGTG GGAC	ATTAGGCAATCGACTG GCAC	60.2	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 (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
scaffold1911_P3_12969	scaffold1911	12969	CAGAAGA/CAGA	GTGCCAGTCGATTGCC TAAT	TGCAATTCAGCTCAC TTGG	60.1	993	INTERGENIC	--	--	--
scaffold1918_P3_18624 2	scaffold1918	186242	CTTTTTTTTT/CTTTTTTTTT	TGGAAAAGGGAGAACA CTGG	TGCACTTCGTGGAAA AACG	60.1	535	DRR	Ca_24713	O	--
scaffold1918_P3_21355 8	scaffold1918	213558	CTTAATTA/CTTA	TGACATGCCAAACTA GTCAAAA	TGCAAAATAACACAT GGACG	59.7	663	INTERGENIC	--	--	--
scaffold1918_P3_65193	scaffold1918	65193	GTA/GTATA	GCATTAATTGGACGGG TGTC	CAATTGCTCCGTCCT TTGT	60.2	855	INTERGENIC	--	--	--
scaffold1920_P3_10351	scaffold1920	10351	CAA/CGAAA	TTGAATAAGCCTTGGG AGGA	GTGCATCACAAAAGTG CGTT	59.6	170	INTERGENIC	--	--	--
scaffold1923_P3_10722	scaffold1923	10722	ATTTTTTTTT/ATTTTTTTTT	GGCCCCAATATTTTG GTAA	ATTATTGGCCCCAACT CACA	60.7	383	INTERGENIC	--	--	--
scaffold1928_P3_15951	scaffold1928	15951	TG/T	ATCTACCCGGCAAACG TCTA	GCTGCAAAAGTCAACG TCAA	59.6	456	INTERGENIC	--	--	--
scaffold193_P3_199645	scaffold193	199645	AATATATATATATATAT/AATATATAT ATATATATATAT	ATGTTTTGGATTTTGGC TCG	GCACCGTGAGTAAATT CGGT	59.9	703	INTERGENIC	--	--	--
scaffold193_P3_233664	scaffold193	233664	A/AT	CACGCTTTGTGTGTAT CTTG	TCAGGAATCCATTTTC ATGC	59.4	973	INTERGENIC	--	--	--
scaffold193_P3_255307	scaffold193	255307	TA/TAGA	GTCTCCTCGAGCTTGG TTTG	CGCTTGATTCGATCTT CTCC	60.0	776	CDS (FRAME SHIFT)	Ca_25167	R	MYB

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 (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
scaffold193_P3_255384	scaffold193	255384	GAA/GA	GTCTCCTCGAGCTTGG TTTG	CGCTTGATTCGATCTT CTCC	60.0	776	DRR	Ca_25167	R	MYB
scaffold193_P3_329576	scaffold193	329576	TTATAAGTA/TTA	TCCATAAACCGTGTCC CAAT	TCAACCAAATCCCC AATA	60.1	342	INTERGENIC	--	--	--
scaffold193_P3_394517	scaffold193	394517	ATAT/ATATTTAT	TTGGAAGGAGCCCTTA CCTT	ACCAATTACTGGAGA TGCG	60.1	873	INTERGENIC	--	--	--
scaffold193_P3_407770	scaffold193	407770	TTTATTATTATTATTATT/TTTATTAT TATTATTATT	GCCGGATTTCAAAAGA CAAA	GTTGGCATCACCCCAT AATC	60.1	835	INTERGENIC	--	--	--
scaffold193_P3_456504	scaffold193	456504	CT/CTT	TTGGTTCACCAACAATG AGG	TGCAACCTCAAAAAGC TTGA	59.4	155	INTERGENIC	--	--	--
scaffold193_P3_463575	scaffold193	463575	AC/A	ATTCAAACGCACTCTCA CCC	GAAAGGAGTTGCAGTA GCCG	60.1	525	INTERGENIC	--	--	--
scaffold193_P3_64250	scaffold193	64250	GTT/GT	AACCAAAACCAATTCA GCC	TGCAAGGGTGTGTTTC ATGT	59.8	628	INTERGENIC	--	--	--
scaffold193_P3_79630	scaffold193	79630	TAAAAAA/TAAAAA	AAAATAATGCGCCGTA TGC	AGATCATGTGCAAAAA GGGG	60.0	477	INTERGENIC	--	--	--
scaffold193_P3_79687	scaffold193	79687	TAATAA/TAATAATAAAATAA	AAAATAATGCGCCGTA TGC	AGATCATGTGCAAAAA GGGG	60.0	477	INTERGENIC	--	--	--
scaffold1930_P3_30255	scaffold1930	30255	ATTT/ATTTT	GGTCCTCGATTTTCATCT GGA	TATGAAAATCGCCCGA AAAG	60.0	676	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
scaffold1930_P3_32788	scaffold1930	32788	AA/AATA	TCAAAATATGACCCGAA ACACA	TGCAGTCAAATCTTAA AGGAAGA	60.2	725	INTERGENIC	--	--	--
scaffold1930_P3_33808	scaffold1930	33808	TTATTAT/TT	CAACTGAATTATTCCG TGCAA	CGTCATTAAGTACAAC TATAAACGAA	60.0	142	INTERGENIC	--	--	--
scaffold1930_P3_59950	scaffold1930	59950	GATATCGGTCCATTTTAAATATCG/GATA TCG	TCGGGTGGTAAGTAA TCGC	GGTCCTCGATTTATC TGGA	60.0	390	INTERGENIC	--	--	--
scaffold194_P3_9508	scaffold194	9508	C/CTTTT	GGTGAAAGCGTTTGAT GGAT	CACGGGAAACTCGATG ATCT	59.9	742	INTERGENIC	--	--	--
scaffold1943_P3_118923	scaffold1943	118923	CTTTTTTTTTTTTT/CTTTTTTTTT TTTTTT	ATCAGATTGTGTGGCG ATGA	AAAGGGCTCGTTTGAT AAACAT	60.1	391	INTERGENIC	--	--	--
scaffold1943_P3_121284	scaffold1943	121284	A/ATTCT	TTGGATCAAATTGCTTG GAAC	TCGACTTGTCATCGC TTTG	59.9	388	INTERGENIC	--	--	--
scaffold1943_P3_171799	scaffold1943	171799	TT/TTCT	TACCACTCTGGGGCTG TAGG	CCAAGGTACGGCTTGT TTGT	60.1	279	INTERGENIC	--	--	--
scaffold1943_P3_223684	scaffold1943	223684	ATGTTGTTGTTGTTGTTGTTGTTGTTG TTGTTGTTGTTGTTG/ATGTTGTTGTTG TTGTTGTTGTTGTTGTTGTTGTTGTTG TTGTTGTTGTTG	CCTGCCACTAAGGCAA CTTC	ATTCAAACCACCAGCC ACTT	59.9	611	INTERGENIC	--	--	--
scaffold1943_P3_251763	scaffold1943	251763	TAAAAAAAAA/TAAAAAAAAA	CCTTACCCTCGCACT ATGA	TGGGTCATGGTTCCTT CATT	60.1	623	INTERGENIC	--	--	--
scaffold1943_P3_254868	scaffold1943	254868	ATCTC/ATC	TTTTGCAATTTGTGTGG GAG	TGCACAACCTGAGCAA CATT	59.6	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 (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
scaffold1943_P3_260252	scaffold1943	260252	CTTTTTTTTT/CTTTTTTTTTT	GGCAAACACAATTCAAA CCC	TGGTGTGCGAAAAGAAT AGCTGA	60.2	563	INTERGENIC	--	--	--
scaffold1943_P3_282409	scaffold1943	282409	CATATA/CATATATATA	TTGGTTTATTTGGGTTG GGA	AGCGATGCATGTCTCA AGTG	60.0	912	DRR	Ca_21930	--	M-type
scaffold1943_P3_2994	scaffold1943	2994	TAAAAAAAA/TAAAAAAAA	TTTGTAGCCTGCTCG ATTT	TCCATCGAGACTCATT TATAAGCA	59.8	807	INTERGENIC	--	--	--
scaffold1943_P3_334484	scaffold1943	334484	GTT/GTTT	CATCGCTAGAGGCAAC AACA	TCCAACGTCTTCATTT CCC	60.0	171	INTERGENIC	--	--	--
scaffold1943_P3_353210	scaffold1943	353210	GCCCC/GCCCC	GGGACATTTGTGAGTC ATTAGGA	GACAGCACACCGTAAG AGGC	60.2	422	INTERGENIC	--	--	--
scaffold1943_P3_381924	scaffold1943	381924	CAAAAAAAAA/CAAAAAAAAA	TCGGCCAAAATTAGCC ATAG	AGTTTTGCATGAAAAG CGGT	60.1	367	INTERGENIC	--	--	--
scaffold1943_P3_393620	scaffold1943	393620	ATC/ATCTTC	TGGTTCTCATGATACGT GTGG	GCGCAAACACAAACAA CAAA	59.4	635	INTERGENIC	--	--	--
scaffold1945_P3_4916	scaffold1945	4916	GTTT/GTT	CGTCAAACACAAACCTC CCT	TGGTTTTACGCCAAC ATTA	60.0	659	INTERGENIC	--	--	--
scaffold1945_P3_50537	scaffold1945	50537	ATTTTTTTTT/ATTTTTTTTTT	TCCTAGAACATGCATCA CGC	GGCAATTTTGTGTT CGTT	59.8	515	INTERGENIC	--	--	--
scaffold1945_P3_699	scaffold1945	699	ATCAC/A	AGTCCTGACAATCCAAA CGG	GCGAGAAAAGCCAGCT AGAA	60.0	238	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
scaffold1946_P3_1226	scaffold1946	1226	TATATA/TATATAGATATA	ACATTAATTCGGGG GAGG	CACACTCTCACCCGGC TAAT	60.0	388	INTERGENIC	--	--	--
scaffold1946_P3_22047	scaffold1946	22047	AGTGT/AGTGTGT	ACAACCGAATTCAGG ATGC	CCTTGTGAGGATTGCC ATT	59.9	689	INTRON	Ca_27475	--	--
scaffold1946_P3_40975	scaffold1946	40975	TGAAAATTTAAG/TGAAAATTTAAGAAA ATTTAAG	AATATACGGTTGTCGCA GGC	GCGGAGAATTCATTG GTTG	60.0	582	INTERGENIC	--	--	--
scaffold1954_P3_2359	scaffold1954	2359	ATTTT/ATTTT	AAAGCCGACAACTTC GCTA	CGAGGAGCAATGAGTG TCAA	60.0	752	INTERGENIC	--	--	--
scaffold1954_P3_995	scaffold1954	995	TT/TCGCAACCGT	TTTCCATCCCAATTCT CAAA	CAAGTGGGGCGAATAT AGGA	59.4	257	INTERGENIC	--	--	--
scaffold1956_P3_28195	scaffold1956	28195	CAAAA/CAAAAA	CAGTGTTCGGGTTC GAGT	TGGACTTTCGGCAAT TTTC	60.0	435	INTERGENIC	--	--	--
scaffold1956_P3_63893	scaffold1956	63893	ATATTATTATTATTATTATTATT/AT ATTATTATTATTATTATTATTATTAT T	TTCGTTATGCAGTCAAA TTTCTAA	AAAATGGACCAACGTC CGTA	58.1	719	INTERGENIC	--	--	--
scaffold1956_P3_85964	scaffold1956	85964	TTAG/TTAGTGTTTAGGGTGTAG	TAGGCGATTTTCGTAC CACC	ATAACCCGAACCTCAA ACCC	60.0	282	INTERGENIC	--	--	--
scaffold1959_P3_121649	scaffold1959	121649	TT/TCGT	GACACCAGGAGGCATG TTTT	GGAAGGCTTGTCAGCT TGAG	60.0	357	INTERGENIC	--	--	--
scaffold1959_P3_47247	scaffold1959	47247	GC/GCC	TCCTCCTCAAGTTGGA GCAT	ATATTGCATTGCAGTG GTGG	59.8	458	DRR	Ca_26462	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 (°C)	Expected 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_P3_83297	scaffold1959	83297	CAAAA/CAAAA	TTCGGTGGCATAAATT GTGA	TTCAAAATGGTCGACA TCCA	59.9	512	INTERGENIC	--	--	--
scaffold1962_P3_15914 6	scaffold1962	159146	AAATATAAGCAGAAAATTAA/AAATATA AGCAGAAAATTATATAAGCAGAAAAT TAA	CTTTTACAGCGCTTGT GGG	AAGCCGTGTAATCTGA ACCG	60.8	557	INTERGENIC	--	--	--
scaffold1962_P3_17071 4	scaffold1962	170714	GTTTTTTTTT/GTTTTTTTTT	TCAAGGACCCAAAGCA CATT	TACTCCCCCTTTGAGC TTGA	60.5	423	INTERGENIC	--	--	--
scaffold1962_P3_9879	scaffold1962	9879	CAT/CATAT	ATCAGTGGTCCCGTGA GAAG	AATGTTTAACGGCAG CTTG	60.1	444	INTERGENIC	--	--	--
scaffold1964_P3_11011	scaffold1964	11011	A/ACTC	ATGTTCTCTGCCAATCA TTC	TTCCAAAAGAGGAATG GTGC	59.9	771	DRR	Ca_25209	G	--
scaffold1964_P3_11658	scaffold1964	11658	AACACA/AACA	GCACCATTCCTCTTTTG GAA	GATGGACCACCTTCTC TCCA	60.1	553	CDS (FRAME SHIFT)	Ca_25209	G	--
scaffold1964_P3_11803	scaffold1964	11803	TAGAATTATGCAG/TAGAATTATGCAGA ATTATGCAG	GCACCATTCCTCTTTTG GAA	GATGGACCACCTTCTC TCCA	60.1	553	CDS (FRAME SHIFT)	Ca_25209	G	--
scaffold1964_P3_12030 5	scaffold1964	120305	ATTTTTTTTTTTTTTT/ATTTTTTTTTTT TTT	GATGGAAGAGCCGTAC CAAA	GCACAATAAGAGTGG TTGACG	60.1	542	DRR	Ca_25214	C	--
scaffold1964_P3_12992 8	scaffold1964	129928	GATATATATATATATATATATAT/GAT ATATATATATATATATAT	AGGTCAGGCACTTTT CTCA	TTGGGTGTGATACTG CTGA	59.8	281	INTRON	Ca_25215	O	--
scaffold1964_P3_14229 3	scaffold1964	142293	ATTTTTTTTTTT/ATTTTTTTTTTT	GTGCATCTTTCACGGC CTAT	GGATGTTGCTCCGGA ATAA	60.1	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
scaffold1964_P3_158808	scaffold1964	158808	TAAATAAAATAAAATAAAATAAA/TAAATAAAATAAAATAAAATAAA	CGGGTTGAGGATTGATCTGT	CCATGTTCTTGTCCAA CACG	59.9	747	INTERGENIC	--	--	--
scaffold1964_P3_172119	scaffold1964	172119	ATTGG/A	TTGTTTTGTTAGAAACG CCG	ACCCACATAGCGCAAG ATTC	58.9	313	INTERGENIC	--	--	--
scaffold1964_P3_21448	scaffold1964	21448	CAAAATAAAATAA/CAAAATAA	GGGTCAAGTCATCCCATGAC	TATGCATCTTTGTTGAC GCC	60.2	292	INTERGENIC	--	--	--
scaffold1964_P3_6786	scaffold1964	6786	GTTTTT/GTTTTT	CCCTTGAAGAAAAAC CACA	TTGGGAAGGGAGATGT CAAG	59.9	577	INTERGENIC	--	--	--
scaffold1964_P3_8928	scaffold1964	8928	ATTTTT/ATTTTT	CCTCCACTGCTGAGTT GTGA	AAGCCTAAGCTGCATT GGAA	60.0	651	INTERGENIC	--	--	--
scaffold198_P3_100770	scaffold198	100770	TA/T	CACCTGCTGAAACGCT ACCA	TCTCCTGAAAAACAA CGACG	60.1	381	INTERGENIC	--	--	--
scaffold198_P3_13115	scaffold198	13115	TAAAAAAAAA/TAAAAAAAAA	TAGGCCATAACCCATAGCCA	TGGTGAAATTTGTCG TGAA	60.3	509	INTERGENIC	--	--	--
scaffold198_P3_136294	scaffold198	136294	CTTTTTTTTT/CTTTTTTTTT	TAAAGGTCCGTTTGCC ATTT	TTCAGCCTCTTCACTT CCAA	59.5	723	INTERGENIC	--	--	--
scaffold198_P3_32866	scaffold198	32866	GAAAAAAAA/GAAAAAAAA	CCTTAGGAGGGTTGG GTTA	AGCCGGATGTGAAAT AACG	60.2	629	INTERGENIC	--	--	--
scaffold198_P3_335864	scaffold198	335864	GT/GTTT	ATCAGTGGCATACCTG AGGC	AGAAGAGGATCCTGCG AACA	60.1	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 (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
scaffold198_P3_435699	scaffold198	435699	AATATATATATATATATATATATATAT /AATATATATATATATATATATATATAT TATATAT	TTTGGAAATCAAATCAA ATCATGT	AATTATTGCGCATGC TCCT	57.6	511	INTERGENIC	--	--	--
scaffold198_P3_501505	scaffold198	501505	CA/CAA	TTGGCCAAGTCCCTGT TTAC	CGTTCCTGAGGGAATT GTGT	60.0	498	INTERGENIC	--	--	--
scaffold198_P3_633531	scaffold198	633531	AATATATATATATATATATATATATAT A/AATATATATATATATATATATATAT ATATATATATATATATA	TGCAGTTTTTCGCGTA GTGT	ACCCCTGCTGAAAA GATT	59.5	802	DRR	Ca_20924	--	--
scaffold198_P3_637595	scaffold198	637595	TTATTTTATATATTTTATATATTTT/TTAT TTTATATATTTT	TGACCGCAACCAAGTTC AATA	CCAACTCACAAATACAT CGCC	60.1	386	INTERGENIC	--	--	--
scaffold198_P3_637738	scaffold198	637738	CTTAATTATATTTAATTA/CTTAATTATA TTTAATTATATTTAATTA	TGACCGCAACCAAGTTC AATA	CAATTGAACTCTCAC ATTCAAAA	60.1	722	INTERGENIC	--	--	--
scaffold1981_P3_100589	scaffold1981	100589	AAATTTATAATTTATAA/AAATTTATAA	ATTTCCACATCACCCA AAA	TCATTACTCACACCATA AGTGGAA	60.0	436	INTERGENIC	--	--	--
scaffold1981_P3_116705	scaffold1981	116705	GATAATAATA/GATAATAATAATA	TTGTTGATCGCAACTTG AGG	AATTGAACCAATAAAAC ACGTTAAA	59.8	363	INTERGENIC	--	--	--
scaffold1981_P3_117145	scaffold1981	117145	AAAATTTATAATATTATTAATTTAT/AA AATTTATAATATTATTAATTTATAATAT TATTAATTTAT	AATTTAACGTGTTTTAT TGGTTCAA	ATTAAGAGTAGGGCA ATTATGATT	58.1	591	INTERGENIC	--	--	--
scaffold1981_P3_118399	scaffold1981	118399	TAAAAAAAAA/TAAAAAAAAA	AGCGAAAAGCACCAT GAAC	ATCGGAATTTTGTGC CTTG	60.3	332	INTERGENIC	--	--	--
scaffold1981_P3_13688	scaffold1981	13688	GATA/GA	TCAATCACATGGCAGC TCTC	AGCCAAACCTCTTTGA ATGG	60.0	545	INTRON	Ca_21249	--	--

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 (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
scaffold1981_P3_149526	scaffold1981	149526	ATTTTTTTT/ATTTTTTTT	CTCAAATTTGTTGGG GGA	TGTGAGTACGGATAAG GGGG	59.8	443	DRR	Ca_21257	C	--
scaffold1981_P3_155085	scaffold1981	155085	TAAAAAAAAAAAAAAAAA/TAAAAAAAAA AAAAAA	GAGCATGGGAAAGTTG CATT	TTCCTCTGGTCTCA CTGAA	60.1	318	INTERGENIC	--	--	--
scaffold1981_P3_166352	scaffold1981	166352	TC/TCC	TCACCAGGACCTCTGC TCTT	CGCAGTGGAGAGGTA GGTTC	60.0	513	INTERGENIC	--	--	--
scaffold1981_P3_233549	scaffold1981	233549	CTTTTTTTTT/CTTTTTTTTTT	CGTTTAGCCTCGTAGG TTCC	CAGCCATCTACTGCTC CTCC	59.9	756	INTERGENIC	--	--	--
scaffold1981_P3_239519	scaffold1981	239519	AATATATATATATATATATATATAT A/AATATATATATATATATATATAT ATATATATATA	AAATTTGCGTTTAAATA ACGGG	TGGATCTCCCTTTTG TAGC	59.3	779	INTERGENIC	--	--	--
scaffold1981_P3_287943	scaffold1981	287943	TTTATTATTATTATTATTATTATTAT TATTATTATTA/TTTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATTA	CTTTCAAATAAAACCCG CCA	TTTAGGCATTGTGCT GCTG	59.9	179	INTERGENIC	--	--	--
scaffold1981_P3_317439	scaffold1981	317439	TAAA/TAAAA	TCTCATTTGCTCCGAC TCT	TTGTCTCAACAATCTC CCCC	60.0	501	DRR	Ca_21265	--	--
scaffold1981_P3_323875	scaffold1981	323875	TAAA/TAAAAAA	ACTTGGGAACCCGAAG AAGT	TGGGTACCCTTTTCCT TCCT	60.0	486	INTERGENIC	--	--	--
scaffold1981_P3_325613	scaffold1981	325613	GAACA/GAACAACA	GCTGGTCACGGCATT AACT	TGGACCAAAAAGTGGT GTCA	60.1	243	DRR	Ca_21266	--	--
scaffold1981_P3_336192	scaffold1981	336192	TTT/TTTATCAAATT	GACTCGATCAAACATT GGG	CCTAGCTCTCCACCGT CAAG	60.3	740	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
scaffold1981_P3_336889	scaffold1981	336889	ATTTT/ATTTT	CTTGACGGTGGAGAGC TAGG	GCAAGGGTTTGAGATT TTGG	60.0	828	INTERGENIC	--	--	--
scaffold1981_P3_345913	scaffold1981	345913	ATTTTTTTT/ATTTTTTTTT	TGTTCAACACCGTTGTT CAT	ATTGTAGCGTCGTGA TGGG	59.9	739	INTERGENIC	--	--	--
scaffold1981_P3_351776	scaffold1981	351776	AAAAA/AAAAATAAAAA	CGGGGAGCATTGACTT AGAA	AACAATTGTGATTGAC TGAGGAA	60.2	675	INTERGENIC	--	--	--
scaffold1981_P3_355366	scaffold1981	355366	A/AC	ACGATATTTTGAAAGGC CCC	CGCGGATCCAATATCT CACT	60.2	426	INTERGENIC	--	--	--
scaffold1981_P3_355694	scaffold1981	355694	AATAAATATAAAT/AATAAAT	ACGATATTTTGAAAGGC CCC	TGGGCAATTGGAAT CAAT	60.2	956	INTERGENIC	--	--	--
scaffold1981_P3_358821	scaffold1981	358821	ATTTTTTTT/ATTTTTTTTT	GCCTCCGGACAACAAG TTTA	GACTGAAATGCAATTT TAGACCCT	60.1	606	INTERGENIC	--	--	--
scaffold1981_P3_359056	scaffold1981	359056	CAAAAAAAAA/CAAAAAAAAA	TTTTTAAAGCAAAAAGG AAAGAAA	CTGTCCCCCAAGTGAG AGAA	57.9	613	INTERGENIC	--	--	--
scaffold1981_P3_364618	scaffold1981	364618	TATCACA/T	GAGCCAAGTTCAATGTT CCAA	CCGCTCTTTAGTGAC GAAG	60.1	791	INTERGENIC	--	--	--
scaffold1981_P3_370693	scaffold1981	370693	TAAAA/TA	TCTTCTGGAGATTCTG GAGTG	TTTGGTTTTCCTTTTC AGCA	58.5	906	INTERGENIC	--	--	--
scaffold1981_P3_370930	scaffold1981	370930	A/AT	CCTGTTACGATATTTGC TGTTGA	GGCAATTTAGGACCAC GAAA	59.2	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 (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
scaffold1981_P3_37126 2	scaffold1981	371262	AAAAAAATTATAAAAAATTATA/AAAA AAAATTATA	TTTCGTGGTCCTAAATT GCC	TTCTACTATGGTGTA AAGCCCTC	59.9	342	INTERGENIC	--	--	--
scaffold1981_P3_37430 1	scaffold1981	374301	TAAAAAAA/TAAAAA	ATCCTCATTTTGAACC GGA	ACCCCTGCAAAGGTAA TGAA	59.4	107	INTERGENIC	--	--	--
scaffold1981_P3_37728 5	scaffold1981	377285	ATACTT/ATACTTTACTT	CCTCCATTTTGGCATTG ACT	CCATCATGGTGAGATT GTGG	59.9	393	INTERGENIC	--	--	--
scaffold1981_P3_37895 4	scaffold1981	378954	T/T/C	AGACTCTCGCGTGGT AGAA	GGAACAAGAAGAAGAA AGAAAACG	60.0	406	INTERGENIC	--	--	--
scaffold1981_P3_39049 1	scaffold1981	390491	CAAAATTTAGTTAAAAAATT/CAAAAT	AAACCTTGGCACCTC TTTT	TTTGCATGTGGCAGCA TAGT	60.0	339	DRR	Ca_21270	A	--
scaffold1981_P3_39540 2	scaffold1981	395402	CAAAA/CAAAA	AACCCACACCAATTCC AAA	GGGTGGTGGTGGAAG TATTG	60.1	445	INTRON	Ca_21270	A	--
scaffold1981_P3_40325 2	scaffold1981	403252	GTTTT/GTTT	CAATGCAGAGGGATGG TTTT	CCTGCAATCTGAATG ATGAGA	59.9	424	INTRON	Ca_21271	G	--
scaffold1981_P3_40887 5	scaffold1981	408875	ATTTTTTTTT/ATTTTTTTT	TGTGCAATGCAACAATT CAA	AATACTCGTGACCGT GGTT	59.7	568	INTERGENIC	--	--	--
scaffold1981_P3_41675 5	scaffold1981	416755	A/AT	TGATCGTTTGC GTT CTTC	TGATCTGCAAAAGCTG TGTA	59.8	502	INTERGENIC	--	--	--
scaffold1981_P3_42189 1	scaffold1981	421891	AAAAATTA/AA	TGGTCCCTCATCCAATC AAT	TTTGACCGAGTGAAA TCAA	60.1	208	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
scaffold1981_P3_97953	scaffold1981	97953	CAAAAAAAAA/CAAAAAAAAA	CTTCTCTACTTTCCGC CCC	AGCACCCAAAGCTGAG AAAA	60.2	524	INTERGENIC	--	--	--
scaffold1983_P3_23052	scaffold1983	23052	GTT/GTTT	AGCAGGTCTGTCCAAT CAGG	CATCAGCCCCTCTAAA CCAA	60.3	852	INTERGENIC	--	--	--
scaffold1983_P3_24123	scaffold1983	24123	AAATAATAATAATAATAATAATAAT AATAATAATAA/AAATAATAATAATA ATAATAATAATAATAATAATAA	TCACTTGAAAGTGTGA TGGTTG	TTGCTTCATAATTTCAA ACTTTTCC	60.1	741	INTERGENIC	--	--	--
scaffold1983_P3_25976	scaffold1983	25976	CTTT/CTT	TCGCACTCCTGAGTCA TGTT	TCAATTTCAACTGCAAA CCAA	59.4	504	INTERGENIC	--	--	--
scaffold1983_P3_34254	scaffold1983	34254	G/GATAA	AGAAAGGCTCAAACGA CCAA	CTCAAGTCGACAAGCC TTCC	59.9	301	INTERGENIC	--	--	--
scaffold1984_P3_20771	scaffold1984	20771	ATGTGTGTGTGTGTGTGTGTGTGT GTGT/ATGTGTGTGTGTGTGTGTGT GTGTGTGTGTGT	AGTGGCACCACCTTGT GGTT	TATCCTATCACCCACC CAGC	60.5	649	INTERGENIC	--	--	--
scaffold1984_P3_32362 6	scaffold1984	323626	T/TCCG	GCTTGTCCGCGTAAC CTTC	ACGATTTTAGAAGAGG CGCA	60.0	601	INTERGENIC	--	--	--
scaffold1984_P3_32551 7	scaffold1984	325517	GACA/GACAAGTATCACA	GCAAACTGGAGCTCC TCAC	CAACCCATTCCTTCATT GCT	60.0	533	INTERGENIC	--	--	--
scaffold1985_P3_10974 1	scaffold1985	109741	GAAAA/GAAAAA	TTAAAGTCAAGGGGCA CCAC	TCCAATTCTCATCACA CCG	60.0	602	INTERGENIC	--	--	--
scaffold1985_P3_19601	scaffold1985	19601	TCTTTTCCTTTTCCTTTTCCTT/TCTTT CCTTTTCCTTTTCCTTTTCCTT	AGGAAGAGTGGAGTTG CGAA	TATTTTGGATTTTGCT CGG	60.0	511	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
scaffold1988_P3_4430	scaffold1988	4430	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATATA TATATATAT	TCACATTAGGTTACTGA ATCTCATTTT	TGGATGCGTCCATCAT TGTA	58.7	242	INTERGENIC	--	--	--
scaffold1988_P3_7769	scaffold1988	7769	TACACACAATCAAA/TACACACACAATC AAA	ACCATACAAGTTCCCG CATC	GAAGGAGCAGTAAGCC ATCG	59.8	725	INTERGENIC	--	--	--
scaffold1991_P3_10018 8	scaffold1991	100188	AT/A	TTGTGTAACCTCTGCGT TGC	CATTTGCCAAAATCAA CAATTT	59.9	734	INTERGENIC	--	--	--
scaffold1991_P3_11646 8	scaffold1991	116468	GTTTTT/GTTTTTTT	CAGTTGTCGCGTCTAT GGAA	TGACTATTTATGGCAC GGCA	59.9	437	INTERGENIC	--	--	--
scaffold1996_P3_1162	scaffold1996	1162	A/ACG	CGGATGAATCATTGGG AAAT	AGTGAAACCAACGCCA AAAC	59.6	325	INTERGENIC	--	--	--
scaffold1996_P3_1333	scaffold1996	1333	TG/TGG	CGGATGAATCATTGGG AAAT	AGTGAAACCAACGCCA AAAC	59.6	325	INTERGENIC	--	--	--
scaffold1996_P3_5730	scaffold1996	5730	GAAAAAAAA/GAAAAAAAAA	TGTTAGGAGGATCTCA CGGG	ATTGTTGGAATTTGG CTGC	60.1	823	INTERGENIC	--	--	--
scaffold1999_P3_24246	scaffold1999	24246	TAAAAA/TAAAA	GCCTAGGGAGGACGAA AATC	AACCAATGTTGTGCAT CCAA	60.0	375	INTERGENIC	--	--	--
scaffold1999_P3_29603	scaffold1999	29603	GACA/GACACA	AGGGAGGACGAAAATG ACCT	AACCAATCTTGTGCAT CCAA	59.9	670	INTERGENIC	--	--	--
scaffold1999_P3_29835	scaffold1999	29835	TAAAAAA/TAAAAA	AATCCAACGACAACGG AAT	CCGATGTTGTGCATCC AATA	59.5	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 (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
scaffold2_P3_13812	scaffold2	13812	AATATATATATATATATATATATAT/A ATATATATATATATATATATAT	CGATATTTTCGCCGTG TTT	ACACCTTGCGCCTCG TAAG	60.0	596	INTERGENIC	--	--	--
scaffold2_P3_199004	scaffold2	199004	TA/TGA	CTTGGGAGTTGGAGAG CAAG	AGAATGGGAGAAAGGA GGGA	60.0	560	INTERGENIC	--	--	--
scaffold2_P3_304189	scaffold2	304189	CATATATATATATATATATATATATAT /CATATATATATATATATATATATATA TATATAT	GAAACTTTTTCCGCTGC TTG	TGTCATTGAGTTGCA ACGAG	60.0	511	INTERGENIC	--	--	--
scaffold2_P3_304238	scaffold2	304238	AATATATATATATATATATA/AATATATA TATATATATA	GAAACTTTTTCCGCTGC TTG	CCTCTAGGAACGATTG CCAC	60.0	870	INTERGENIC	--	--	--
scaffold2_P3_349431	scaffold2	349431	CATATATATATATATATATATATATAT A/CATATATATATATATATATATATA	GCAACAAAAGCAAAGC TTCC	CACATTGGTTTGAAGT GACCA	60.0	663	INTERGENIC	--	--	--
scaffold2_P3_504035	scaffold2	504035	CAAA/CAAAA	CGTTCCTTTTGGGTTTCG TGT	ATCCCATAGCCACAT TCCA	60.0	265	INTERGENIC	--	--	--
scaffold2_P3_76559	scaffold2	76559	AATATATATATATATA/AATATATATATA TATATA	TATTTTGGGATTTTGGC TCG	AAATGGAGGAAGGAG GGAGA	59.9	447	INTERGENIC	--	--	--
scaffold2_P3_95981	scaffold2	95981	CATATATATATATATATATATATATAT ATATAT/CATATATATATATATATATA TATATATATATATAT	TTGGAAGGAGCCCTTA CCTT	CGTCTCAAGTGATCGA ACCA	60.1	901	INTERGENIC	--	--	--
scaffold2000_P3_14213	scaffold2000	14213	CA/C	AAGCCTAGGAGGACG AAAA	TGCCACTGTGACTTAT CCAATC	60.2	509	INTERGENIC	--	--	--
scaffold2000_P3_1544	scaffold2000	1544	GAAAAAA/GAAAAAAA	GCCTAGGGATGACGAA AATG	TGTGTTTGCCTCATTG GATT	59.5	566	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDCC Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2000_P3_22359	scaffold2000	22359	AATTGGCCTCA/ACA	GCTGTGCACTTGATGC TGAT	TGTGTCGTTGCGTGAA CATT	60.0	465	INTERGENIC	--	--	--
scaffold2005_P3_14756	scaffold2005	14756	TAAAAAAA/TAAAAAAA	AAAATCCAACAATCTCC CCC	CGGTCTCAACCTCTCC CATA	60.0	515	DRR	Ca_28003	--	--
scaffold2005_P3_25670	scaffold2005	25670	GAAAAA/GAAAA	TGATGATGGTGATGAT GTTGG	ACCTAGGAATCCCCA CCTG	60.2	376	INTERGENIC	--	--	--
scaffold2005_P3_31637	scaffold2005	31637	ATTTTTTTTT/ATTTTTTTTT	TGGTGAGTGAACCAAA CGAG	CAGCCGTCCTTCATTT CATCT	59.7	302	INTERGENIC	--	--	--
scaffold2010_P3_3634	scaffold2010	3634	AT/ATT	AATCGATTGATTCAGCC CAG	TGATTCCAACGGTCA TCAA	60.0	869	DRR	Ca_27976	--	--
scaffold2010_P3_6749	scaffold2010	6749	T/TC	TTCCTTTTCGTTGTGA TCG	GGGCACCGATGTTACA TAAA	58.6	857	URR	Ca_27976	--	--
scaffold2010_P3_7925	scaffold2010	7925	ATTTTTTTTT/ATTTTTTTTT	AAAGTGCCTTCTTCTTG GCA	ATGTTTTCTTTGGGTT GCG	60.0	564	URR	Ca_27976	--	--
scaffold2018_P3_16998	scaffold2018	16998	CAATAATAATAATAATAATAAT AATAATAATAATAATAATAAT/C AATAATAATAATAATAATAATA ATAATAATAATAATAATAATAA T	AAGGCTCACTTGCAAA GACG	GGTATTGCTGCAGTTT TTGG	60.6	445	INTERGENIC	--	--	--
scaffold2018_P3_4354	scaffold2018	4354	TGGAG/TG	CATGTTTTTGTGTGTCG TGC	TGTTTGCTTTAAGCGA TGTC	60.0	462	INTERGENIC	--	--	--
scaffold202_P3_103827	scaffold202	103827	AGGG/AGG	TCAATAAGACGTGATAA GTAAATCCA	TTGGAGAAAGATATGA TACGATAGGA	58.3	847	URR	Ca_27127	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 (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
scaffold202_P3_103994	scaffold202	103994	ATTTTTTTTT/ATTTTTTTTTTTT	AAATTGCTTATTTAGTA GTGTCAATCG	AACTCAGCAAAACCCA AAACA	58.5	409	URR	Ca_27127	A	--
scaffold202_P3_104373	scaffold202	104373	TAAAAAAAAA/TAAAAAAAAA	TGTTTTGGGTTTTGCTG AGTT	TGGATGGATTGGATGA ATGA	59.6	180	URR	Ca_27127	A	--
scaffold202_P3_104727	scaffold202	104727	TTA/T	TCATTCAATCCATCC CCA	TCGAGTGTGATCTCA AGGA	59.7	489	INTERGENIC	--	--	--
scaffold202_P3_17816	scaffold202	17816	AAA/AAATAA	TCACAAGGGTAGTTTT GGGTTT	CTGCCAGCTCACCTCC TATC	59.8	685	INTERGENIC	--	--	--
scaffold202_P3_20536	scaffold202	20536	CTA/C	TGCATCCAACCTTGGT GTGT	ACACCGTTGTTTATGC ACGA	60.0	373	INTERGENIC	--	--	--
scaffold202_P3_21042	scaffold202	21042	AG/A	AATGGCCCTGCACATG TATC	TCATGATGGTAACCCG ACCT	60.8	313	INTERGENIC	--	--	--
scaffold202_P3_22635	scaffold202	22635	CG/C	GGATTACATTCGCTTCT CCG	GCAACAATGCGAAAC AGAA	59.7	804	INTERGENIC	--	--	--
scaffold202_P3_22768	scaffold202	22768	AT/A	TTGCAATCATGAGGCA AGTC	GCAACAATGCGAAAC AGAA	59.8	235	INTERGENIC	--	--	--
scaffold202_P3_23812	scaffold202	23812	TTATATATATAT/TTATATATATAT ATATATATATAT	AAAATTTTCTGAGATGC GGC	TTGGAAGGAGCCCTTA CCTT	59.3	649	INTERGENIC	--	--	--
scaffold202_P3_36674	scaffold202	36674	TAAA/TAA	AAATCGGTGTCAACGG TCTC	TTCACCTGTCAATTGG GTTG	60.0	559	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 (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
scaffold202_P3_37860	scaffold202	37860	TAAA/TAA	ATTGGAGGCTGGTTT GTTG	ATCGTGGGGATGAATT TGAA	60.0	539	INTERGENIC	--	--	--
scaffold202_P3_37967	scaffold202	37967	T/TC	ATTGGAGGCTGGTTT GTTG	ATCGTGGGGATGAATT TGAA	60.0	539	INTERGENIC	--	--	--
scaffold202_P3_39053	scaffold202	39053	CTTTTTTT/CTTTTTTT	GCACCGGAAAATACGT AGGA	ATTATCTTGTCGCGGC CTAA	60.0	359	INTERGENIC	--	--	--
scaffold202_P3_39185	scaffold202	39185	TATG/TATGATG	GCACCGGAAAATACGT AGGA	ATTATCTTGTCGCGGC CTAA	60.0	359	INTERGENIC	--	--	--
scaffold202_P3_39293	scaffold202	39293	CTTTT/CTTTT	GCACCGGAAAATACGT AGGA	ATTATCTTGTCGCGGC CTAA	60.0	359	INTERGENIC	--	--	--
scaffold202_P3_61873	scaffold202	61873	GTAAATGAAATAAAATGA/GTAAATG AAATAAAATGAAATAAAATGA	CAGCCCTTGAATTCGAT CAT	GCTGTTTGGCTCAACC ATT	60.0	331	INTRON	Ca_27125	--	--
scaffold202_P3_7032	scaffold202	7032	GTATATATATATATATATATATATAT ATATAT/GTATATATATATATATATAT ATATATATATATATAT	CTTTGACTCGCCATCAA CAA	TAACATTGCACGAGTT GGGA	59.8	606	INTERGENIC	--	--	--
scaffold2022_P3_128908	scaffold2022	128908	TC/TCC	TCAATTATTATGGGATG GAGGAA	TACAGCGCTTGATTCC ACAG	59.5	407	INTERGENIC	--	--	--
scaffold2023_P3_2321	scaffold2023	2321	CAA/CAAA	AACACCAACTCCACCA CACA	TGGTTTTGGTTGAGAG AGGG	59.9	544	INTERGENIC	--	--	--
scaffold2024_P3_1945	scaffold2024	1945	CAAA/CAAAA	GAATGTTAGGTTTCC GGGT	GATGAAATCGAGGACT GGGA	60.1	338	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PfI)	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
scaffold2027_P3_955	scaffold2027	955	GAAAAAAAA/GAAAAAAAAA	AGAAAGGCTCAAACGA CCA A	ACAGAGGAAGCTGCCA CCTA	59.9	672	INTERGENIC	--	--	--
scaffold2030_P3_4128	scaffold2030	4128	T/TTGTA	TGTTTTGGATTCCGGT TTA AG	AACCCAAAACGCTAAA CCCT	60.2	752	INTERGENIC	--	--	--
scaffold2030_P3_4596	scaffold2030	4596	ATT/ATTTT	AGGGTTTAGGATTTCG CGTT	CATATCAAAAACCCAAA TGACC	60.0	243	INTERGENIC	--	--	--
scaffold2030_P3_4882	scaffold2030	4882	TTAG/TTAGGTCTATTATAG	TTTCGCGTTTAGGTAA GGG	AAATCGGAAACCCAAA ACAC	59.2	742	INTERGENIC	--	--	--
scaffold2033_P3_106803	scaffold2033	106803	CATATATATATATATATATATATATAT ATAT/CATATATATATATATATATATA TATATATATATATATATATATAT	AAGATGGGAGAAGGAG GGAA	TTTGATTTTGACTCG GAGG	60.0	372	INTERGENIC	--	--	--
scaffold2033_P3_158775	scaffold2033	158775	TAAAAAA/TAAAAAA	GTGTGGAGATCACCCG AGTT	GGATTGTTTCAGGTGA TGGG	60.0	639	INTERGENIC	--	--	--
scaffold2033_P3_183883	scaffold2033	183883	CGAAGAAGAAG/CGAAGAAGAAGAAG	CTTGGGGTGGCAAGTA CAGT	TCGAATACATGAATTAA CAAAAGGA	60.0	371	DRR	Ca_26143	--	bHLH
scaffold2033_P3_44747	scaffold2033	44747	GTTTTTTTT/GTTTTTTTTT	ATGAATACCCCTGC GA GTTG	GAACAAGCAATCGCAG ACA A	60.0	549	INTERGENIC	--	--	--
scaffold2036_P3_151113	scaffold2036	151113	AATATATATATATATATATA/AATATATA TATATATATATATA	TATTTTGGATTTTGGCT CGG	AGGAAGAGTGGAGTTG CGAA	59.9	394	INTERGENIC	--	--	--
scaffold2039_P3_65992	scaffold2039	65992	ATT/ATTTT	GGAAAAATGGCGTTG AA GAAA	ACCTTCAGCATAGGTG GGTG	60.1	941	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 (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
scaffold2040_P3_15957 7	scaffold2040	159577	CA/CAGGTA	TGAAGAGGGGAATCCA TCTG	TTAACAACCTCTGGTT CGGG	60.0	372	INTERGENIC	--	--	--
scaffold2040_P3_18090 3	scaffold2040	180903	AATGA/AATGACTATGA	TTGGTTTATTTGGGTTG GGA	ACCAGGAAAAGAAGAA GGGC	60.0	514	DRR	Ca_26621	O	--
scaffold2040_P3_18113 4	scaffold2040	181134	TATTCAGTCA/TGTTCA	TTGGTTTATTTGGGTTG GGA	TGGGATACAAAGACGA GCCT	60.0	801	DRR	Ca_26621	O	--
scaffold2040_P3_22896 0	scaffold2040	228960	GTTTTTTTTTTTTT/GTTTTTTTTTTTTT	AATGAGCGCATAAAGG GAAG	TGCCTTATTGTTCAATT GCG	59.3	218	INTERGENIC	--	--	--
scaffold2040_P3_88024	scaffold2040	88024	ATTT/ATTTT	ATTGGTGCCAAGAGAG CAAC	AGATAGCAGCTCGGGT TGAA	60.3	494	INTERGENIC	--	--	--
scaffold205_P3_40693	scaffold205	40693	C/CAAG	CTACTCTCAATTTCCG CCG	GCACAATCAGAAGCGC ATTA	59.8	761	DRR	Ca_25491	--	--
scaffold205_P3_41104	scaffold205	41104	GT/GTCT	TAATGCGCTTCTGATTG TGC	AGGCCGTATTGCTTTT GAGA	60.0	634	INTERGENIC	--	--	--
scaffold205_P3_46882	scaffold205	46882	GAGGA/GAGGAAGGA	GAGAGGATTTGTGTTT CCGA	GGAATGCTCAAAGGTT GCAT	60.1	235	INTERGENIC	--	--	--
scaffold205_P3_93482	scaffold205	93482	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTAT TTATTATTATTATTATTATTATTATT ATTATTATTATTATT	TCAACCAAAATCCCCA ATA	TATTCGGTGTGCGAGT TCCC	60.0	460	INTERGENIC	--	--	--
scaffold206_P3_162025	scaffold206	162025	GTTTTT/GTTTTT	CTTGGATTCATTGATCC GCT	GTTTGGTTTTCTTTGG GGGT	60.0	423	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
scaffold206_P3_175737	scaffold206	175737	TTAAATAAA/TTAAA	GCCCTCAGATGAGAGT CAGG	TGACGCCATGGTGACA TACT	59.9	558	INTERGENIC	--	--	--
scaffold206_P3_176077	scaffold206	176077	T/TATAG	CTCTCGCTATGAAAAAC GGG	TGGGTTCAATTGGCAT TTTT	59.8	759	INTERGENIC	--	--	--
scaffold206_P3_190834	scaffold206	190834	CATATATATATATATATAT/CATATATAT ATATATATATAT	ATCCCTAACGCCGTTTT TCT	ATATTGGCTCGGAGGC TTTT	60.0	480	INTERGENIC	--	--	--
scaffold206_P3_199524	scaffold206	199524	T/TA	CCGAGCCAAAATCCAA AATA	TCTCAACGATAGCCAT CACG	59.9	578	INTERGENIC	--	--	--
scaffold206_P3_272483	scaffold206	272483	T/TG	TGCTGAAAATTGCTACT GGC	ATAGCGCTCAACGCTT TCTC	59.1	686	INTERGENIC	--	--	--
scaffold2064_P3_1734	scaffold2064	1734	AATATATATATATATATATATATATAT A/AATATATATATATATATATATATA	AAAGTCCGAGCTTGCA AAGA	ACAAACAGGACCCTTT CCCT	60.1	702	INTERGENIC	--	--	--
scaffold2065_P3_826	scaffold2065	826	ATTT/ATTTT	AGGTCATTTTCGTCCTC CCT	CATTGGATGCACAAGA TTGG	59.9	170	INTERGENIC	--	--	--
scaffold207_P3_6894	scaffold207	6894	AC/A	GCAAACTCGACAGGAA AAGC	TTGGTGAAGATGTCAG CCAG	60.0	370	INTERGENIC	--	--	--
scaffold207_P3_9627	scaffold207	9627	TAAATCGATT/TAAATCGATTAGGAAAT CGATT	TGCCTTAACTGACAAAG GGG	GTGCCAGTCGATTGCC TAAT	60.1	491	DRR	Ca_28033	--	--
scaffold2072_P3_39446	scaffold2072	39446	CA/CAA	GGTGGTACGAAAATCG CCTA	GGTCCTCGATTTCATC TGGA	60.0	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 (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
scaffold2074_P3_10587	scaffold2074	10587	TAT/TATATATATAAT	ATACCCAAGAGGGTAT GGGC	GCTCACACGGAAACAA CGTA	60.0	486	INTERGENIC	--	--	--
scaffold2074_P3_17376	scaffold2074	17376	ACCCC/ACCCCC	GTCACATGGCCATAAA GGCT	TCGAATTTTGGTAGG GTGG	60.0	253	DRR	Ca_27637	--	--
scaffold208_P3_151668	scaffold208	151668	GAAAAAAAA/GAAAAAAAAA	GAATCATGAGGGTGT GGGA	GTCCAAAATTGGTCC AAAA	60.7	532	INTERGENIC	--	--	--
scaffold208_P3_15689	scaffold208	15689	CTATATATA/CTATATATATA	TTTGGCCATTTCACAT CAA	TCCAATACTTAAATGC GAACAAA	59.1	452	INTERGENIC	--	--	--
scaffold208_P3_174233	scaffold208	174233	GAAAA/GAAA	CCTTGAGTATTCTCG GCAG	TGCTGATCCGTGAGAG ATTG	59.8	894	INTERGENIC	--	--	--
scaffold208_P3_238807	scaffold208	238807	TT/TTAT	ATTTTGGTGTCGTTCT CGG	ATTCATGATCCTCCC CACA	60.0	359	INTERGENIC	--	--	--
scaffold208_P3_324995	scaffold208	324995	CATATATATATATATATATATA/CATA TATATATATATATATA	CTTTTACAGCGCTCGAT TCC	CATGCAAGACTTTCTTT TTGTCA	60.0	670	INTERGENIC	--	--	--
scaffold2089_P3_1052	scaffold2089	1052	TTAGGGTATAGGGT/TTAGGGT	GCAAAAGGGCCACTTG ATT	CCGAACCGCAAAACAC TAAA	60.1	505	INTERGENIC	--	--	--
scaffold209_P3_231427	scaffold209	231427	CAA/CA	GCAAAATCACAGAACCA ACCA	CAAAATCAATGTGCCA ATCG	59.5	222	INTERGENIC	--	--	--
scaffold209_P3_258029	scaffold209	258029	TA/TAA	TCAGGCAACAAGCAG ACAC	ATCGAATGCCTCAATC TTGG	60.0	522	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 (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
scaffold209_P3_378233	scaffold209	378233	AATATATATATATATAGATATATATA TATATAT/AATATATATATATATATAT AGATATATATATATATAT	AAATGGAGGAGAAGGA GGGA	ATTTTGGGTCGGAAGC TTTT	60.0	446	INTERGENIC	--	--	--
scaffold2095_P3_6835	scaffold2095	6835	GTAACATACTAACAATCA/GTAACATA TAACAATCATACTAACAATCA	TTGAATGCAGTCCTCT GTGC	AAGGCCCAATGAATTT CTGA	60.0	978	INTERGENIC	--	--	--
scaffold2097_P3_29497	scaffold2097	29497	T/TA	AATGACCGTTGCCAA AATA	AATAGGGGAGCATGCA TTTG	60.2	547	INTERGENIC	--	--	--
scaffold2097_P3_4977	scaffold2097	4977	GC/GCC	ACATTCCCATCCACAG GGTA	CATGCAGGAATTCAGC AAAA	60.1	480	INTERGENIC	--	--	--
scaffold210_P3_298722	scaffold210	298722	TAAAA/TAAA	AACACTTGTTGAGCTTG CGA	TATTTGGGGTTATCG AGCG	59.6	196	INTERGENIC	--	--	--
scaffold210_P3_298750	scaffold210	298750	ATCAATTCAT/ATCAAT	ATCGACAAGCAAGAAC CCTG	AGCGATGCATGTCTCA AGTG	60.3	189	INTERGENIC	--	--	--
scaffold210_P3_31686	scaffold210	31686	CAA/CAA	TTTTCTCGCAAAACATG CAG	TTCGCAACTCCACTCT TCCT	60.0	712	INTERGENIC	--	--	--
scaffold210_P3_330740	scaffold210	330740	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATATA TATATATAT	ATGTTTTGGATTTTGGC TCG	AGGAAGAGTGGAGTTG CGAA	59.9	522	INTERGENIC	--	--	--
scaffold210_P3_411319	scaffold210	411319	GTTTTTTT/GTTTTTTT	CCACAACCTCTCACATC CCT	TCACAGTTGGTAGTGG CACC	60.0	239	INTERGENIC	--	--	--
scaffold210_P3_496501	scaffold210	496501	AGTATG/AG	TCTCCATTCCAGTCCGT AGG	TTGCTGTTTTCTGTT GCTG	60.1	442	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 (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
scaffold210_P3_532061	scaffold210	532061	CATATATAT/CATATAT	AAGCGCTGTAATATGC CCAC	CTGGGCAAGGGATCTG AATA	60.1	639	DRR	Ca_21912	--	Trihelix
scaffold210_P3_580690	scaffold210	580690	GT/G	ATATTCGTCCTCCCTTG GCT	CGGGGTAGTTGCTGAA ACAT	59.9	516	INTERGENIC	--	--	--
scaffold210_P3_621722	scaffold210	621722	AGCCTGGCCTGGCCTGGCCT/AGCCT GGCCTGGCCTGGCCTGGCCT	TAGGCTTCTAGGCCAG ACCA	CCAATGGTACGTCCAG TCCT	60.0	503	INTERGENIC	--	--	--
scaffold2103_P3_124055	scaffold2103	124055	AT/A	AACCCAATCACTGGAG ATGC	AGGAAGAGTGGAGTTG CGAA	59.9	540	INTERGENIC	--	--	--
scaffold2103_P3_124113	scaffold2103	124113	AG/AGG	AACCCAATCACTGGAG ATGC	AGGAAGAGTGGAGTTG CGAA	59.9	540	INTERGENIC	--	--	--
scaffold2103_P3_124172	scaffold2103	124172	CCGTTTTTCGT/CCGTTTTTCGT	AACCCAATCACTGGAG ATGC	AGGAAGAGTGGAGTTG CGAA	59.9	540	INTERGENIC	--	--	--
scaffold2103_P3_145039	scaffold2103	145039	GTATATATATATATATATATAT/GTATAT ATATATATATATAT	GCCAGAACACCGACCA TACT	CCAAGTGGTACAACCTG GTGTCT	60.0	581	INTERGENIC	--	--	--
scaffold2113_P3_4007	scaffold2113	4007	TAAAAA/TAAAA	GGGAGGACGAAAAGGA CCTA	CGTTCCTTTGTGTCAT TGGA	60.4	148	INTERGENIC	--	--	--
scaffold212_P3_101164	scaffold212	101164	TA/TATGA	CCCAAGAAAGTAGCCA CCAG	CACTCCAGTGCTGAGG GAAT	59.7	604	DRR	Ca_24888	--	--
scaffold212_P3_125791	scaffold212	125791	GT/GTTT	TGTCCAATCTTAGGGG TCAAA	AATTTGCCAATTCAAG GCAG	59.4	641	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 (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
scaffold212_P3_463806	scaffold212	463806	TAA/TA	AAACGCAATCCTTGAGT TCG	TGGGTCAAAGAAAAGA TCGG	60.2	323	INTERGENIC	--	--	--
scaffold212_P3_99487	scaffold212	99487	CAAAAAAAAA/CAAAAAAAAA	ATCGTGCTGAAC TTGT CGTG	CCGAACCTCACTGAGC CTAA	59.9	490	INTERGENIC	--	--	--
scaffold2126_P3_19827	scaffold2126	19827	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATAT ATATATATATATA	GGAGAAGGAGGGGAAA TCAG	TATTTTGGATTTTGCT CGG	60.0	394	INTERGENIC	--	--	--
scaffold2126_P3_3526	scaffold2126	3526	GATATATATATATA/GATATATATATA TA	CCATGAAAAGAAGAAG GGCA	GCCTTTTACTGCAC TTT GGC	60.2	472	INTERGENIC	--	--	--
scaffold2127_P3_10295	scaffold2127	10295	CA/CAA	TACATTTTGC GCGTTTG ACT	TGTGGTTAACCCATAA AACACATT	59.4	534	INTERGENIC	--	--	--
scaffold2127_P3_32525	scaffold2127	32525	TGATTGGTTTGTTTGAGATTGGTTTGT TTG/TGATTGGTTTGTTTG	TTTGCAAGAATTTTGCC TCA	TTACGCTACACCGTCA CCAG	59.4	645	INTERGENIC	--	--	--
scaffold2127_P3_9395	scaffold2127	9395	CATTATTATTATTATTATTATTATTA TTATCATTATTACTATTATTATTATTATT ATCATTATTACTATTATTATTATTATTAT TATTATTATTATTATTATTATTATT/TT CATTATTATTATTATTATTATTATTATTA TATTATTATTATTATTATTATTATTATT	TTCAACTCCTAGTACGC CCG	TGGAATCCAACCAAG GTAG	60.3	505	INTERGENIC	--	--	--
scaffold2131_P3_815	scaffold2131	815	TCTATTGAAATAC/TCTATTGAAATACT ATTGAAATAC	TGGTCGCAACAAC TAG CAAC	CTGCAATCGCAAAGT GAAA	59.9	975	INTERGENIC	--	--	--
scaffold2134_P3_5442	scaffold2134	5442	TTA/T	AAAAAAGGAACGAAGG GAGG	AACGGAACGAGCGAGT CTTA	60.0	566	INTERGENIC	--	--	--
scaffold2141_P3_16817	scaffold2141	16817	GTTTTTTT/GTTTTTTTT	TATCAGCCGACAAGCA ACAG	TCAATATGCA GCAGAG TGCC	60.0	490	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2152_P3_76564	scaffold2152	76564	AATTATTATTATTATTA/AATTATTATTA TTATTATTA	GAGCCTTGACCCCTTC CTTC	TGTCACCGCTTGCTTA AGAG	60.2	661	INTERGENIC	--	--	--
scaffold2152_P3_79355	scaffold2152	79355	A/AAAGT	TTCTTTGAGTTGTTTT CCGA	GCAAGCACAACTGTG AAAA	59.7	618	INTERGENIC	--	--	--
scaffold2153_P3_6068	scaffold2153	6068	TAAAAAAAAA/TAAAAAAAAA	CCGCTGTCAATTCTCCA TTT	TAACATGCGCTATTG CAGG	60.1	583	INTERGENIC	--	--	--
scaffold2158_P3_64854	scaffold2158	64854	ATTTT/ATTTT	CGTGGTAATCGCGTAG GAAT	CTCTCATCTGAGGGCA AAGC	60.0	515	INTERGENIC	--	--	--
scaffold2158_P3_70846	scaffold2158	70846	T/TACAAATAAAAA	TCTTTGTACACCCCG ACC	ATAATTGCACCTCTCC TGCG	59.8	394	INTERGENIC	--	--	--
scaffold2158_P3_71695	scaffold2158	71695	A/AATACCATTGT	TCGCGTAAGCAGACTC GTAA	GCTACCTCACGACCTT CTCG	59.8	212	INTERGENIC	--	--	--
scaffold2161_P3_11131 3	scaffold2161	111313	ATT/ATT	AGAAATTGTTGATGGC GTCC	GGTTGCATCAGGGTCA ATCT	59.9	240	INTERGENIC	--	--	--
scaffold2161_P3_18451 2	scaffold2161	184512	CATTATTATTATTATTATTATTATTA TTATTATTGTTATTATTATTATTATT ATTATAATTATTATTATT/CATTATTATT ATTATTATTATTATTATTATTATTAT TGTTATTATTATTATTATTATTATAA TTATTATTATT	TGCATTGGTATATGGA GGCT	GGCCTGCCAGCTTATC ATAG	58.1	841	INTERGENIC	--	--	--
scaffold2161_P3_5214	scaffold2161	5214	GGGGT/GGGGTGGGT	TACCTTCTGGGTGTC TTCA	AAGCCTCCAATGCTTC TTCA	60.6	154	INTRON	Ca_26956	H	--
scaffold2161_P3_98399	scaffold2161	98399	TACACAC/TACAC	AGCAAGGTTCTCCCA AACT	GAGGTATTCGGGTGG GAAAT	60.1	586	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
scaffold2163_P3_71476	scaffold2163	71476	AC/A	AGGGAGGACGAAAATG ACCT	TTGCGTTTGTGTCATT GGAT	59.9	547	INTERGENIC	--	--	--
scaffold2164_P3_71404	scaffold2164	71404	AGG/AGGG	TGATCAGATGCTTGAG CGAC	TTCTTTGTCCCAAGAC TGCC	60.1	863	INTERGENIC	--	--	--
scaffold2164_P3_77214	scaffold2164	77214	AAATAATAATAATAATAATAATAAT AA/AAATAATAATAATAATAATAATA A	GGAGTTGGGTTTTTG TGAA	TTTTGTAAACGGGGAA GTGC	59.8	710	INTERGENIC	--	--	--
scaffold2166_P3_17214 9	scaffold2166	172149	ATGATAAATTGATAAATTGATA/ATGAT AAATTGATAAATTGATAAATTGATA	GAGGGGATGTTCAACA GCAT	CGGGGTGTTACAGATT GCTT	59.9	325	INTERGENIC	--	--	--
scaffold2166_P3_18352 3	scaffold2166	183523	AAGTCTCTTTAATTGA/AA	CAGAGGAAATCCAGGG ACAA	GTTGTGGGATGAACG ACCC	60.0	666	INTERGENIC	--	--	--
scaffold2166_P3_20234 8	scaffold2166	202348	TAAAAAAAAA/TAAAAAAAAA	GTGTCGCGACTGATTT GCTA	TCCTTTGTGTAACCTCT TGCC	60.0	769	INTERGENIC	--	--	--
scaffold2166_P3_24154 3	scaffold2166	241543	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAA/AAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAA	CCTCGTCAACATGACT CAAAAA	TGATTTTCATCCACCCT CTTG	60.1	674	INTERGENIC	--	--	--
scaffold2166_P3_41038	scaffold2166	41038	AG/AGG	GCTCGAACTGGTGGC TACT	TCCACAACAACCTACG TCCA	59.5	245	INTERGENIC	--	--	--
scaffold2166_P3_49190	scaffold2166	49190	CTTTTTTTTT/CTTTTTTTTT	TGTTGGTTCAAAATGG GGTT	TCCATGGTGCCTTTGT ATCA	60.1	872	INTERGENIC	--	--	--
scaffold2166_P3_50733	scaffold2166	50733	CTTTTTTTTT/CTTTTTTTTT	TAGACTATTGAACCGC CGCT	CCGGAACCAACCTT ATT	59.9	680	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
scaffold2170_P3_12258	scaffold2170	12258	CTTTT/CTTTT	TGCTTTGTTCAATTGCT TGC	GGAGTCCCGGAAATT TCAT	60.0	531	INTRON	Ca_26929	O	--
scaffold2170_P3_12676	scaffold2170	12676	ATATGTAT/ATATGTATGTAT	GAAATTTTCGGGACT CCAT	AGCTCTTCCACTCCA AGCA	60.1	618	INTRON	Ca_26929	O	--
scaffold2170_P3_14347	scaffold2170	14347	AC/ACC	GCTCATTCTTGTCCTCA AAA	GCCTCTGCTAATTGGT CTCG	60.1	583	INTRON	Ca_26929	O	--
scaffold2170_P3_4201	scaffold2170	4201	ATTGGCTTCGTGGTCTTTGGCT/ATT TGGCT	GCTATCGGCTCACTGGT TGGT	CGAGGACCAGCTTTGG TAAG	60.0	372	INTERGENIC	--	--	--
scaffold2170_P3_5002	scaffold2170	5002	AACCTTACCTTACCTTACCT/AACCTTA CCTTACCT	GCAAATCAAGTTGCA GTCA	ACACTCTAATGGGGAC AGCG	59.8	222	INTRON	Ca_26928	YU	--
scaffold2170_P3_5357	scaffold2170	5357	C/CTATTGGG	CGCTGTCCCCATTAGA GTGT	GTTTGCCAATTAGGGC ACAT	60.1	387	INTRON	Ca_26928	YU	--
scaffold2170_P3_6851	scaffold2170	6851	AC/A	TTTGTGCTTCACTACCG CTG	TTGGCAAATTTTCCCA GAG	60.1	547	INTRON	Ca_26928	YU	--
scaffold2173_P3_19619	scaffold2173	19619	TAAAAA/TAAAAA	GGATGACACAAACGCA CCTA	ATTTTGTCTCCTCCTTG GCT	59.6	385	INTERGENIC	--	--	--
scaffold2173_P3_19824	scaffold2173	19824	A/AG	CCAAGGGAGGACAAAA ATGA	TTTCGTCTCTCACAG GCTT	59.9	515	INTERGENIC	--	--	--
scaffold2179_P3_20401	scaffold2179	20401	CTTTT/CTTT	GGGACACGTGTTGTCC TTTT	AATGTCAAGGATGGCC TCAC	59.9	601	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
scaffold2179_P3_20727	scaffold2179	20727	CTTTT/CTTTT	GTGAGGCCATCCTTGA CATT	TGCTACCAGCCCAGTT CTCT	59.9	673	INTERGENIC	--	--	--
scaffold2179_P3_20793	scaffold2179	20793	TCCCC/TCCCC	ATCAGCGAGGATGCAG AACT	CATCGCTCAGTTTGGA CTCA	60.0	789	INTERGENIC	--	--	--
scaffold2179_P3_35934	scaffold2179	35934	TG/TGCG	GAATTTGAACCTCCAAG CCA	ATAGCGGAGAAGCCCA TACA	60.1	404	INTERGENIC	--	--	--
scaffold2179_P3_35973	scaffold2179	35973	TC/TCC	GAATTTGAACCTCCAAG CCA	ATAGCGGAGAAGCCCA TACA	60.1	404	INTERGENIC	--	--	--
scaffold2179_P3_36066	scaffold2179	36066	ATAG/A	GAATTTGAACCTCCAAG CCA	TGCATTCCACATACAA GGGA	60.1	582	INTERGENIC	--	--	--
scaffold2179_P3_57022	scaffold2179	57022	AATATATATATATATATATATATATA/ AATATATATATATATATATATATATA	TTGGTATTGAACTCGG AGGC	CAGTGAGAGGAAGGA GACGG	60.1	351	INTERGENIC	--	--	--
scaffold2183_P3_19955	scaffold2183	19955	TATTAATTAATT/TATTAATT	TAGGGCGATTTTCGTA CCAC	TTTTCGCATATTTATT GACAACTC	60.0	468	INTERGENIC	--	--	--
scaffold2183_P3_65749	scaffold2183	65749	A/AG	CCCATCGATGATAATG GACC	CTAGTCATCGTCTGGT GCGA	60.0	380	INTERGENIC	--	--	--
scaffold2183_P3_67523	scaffold2183	67523	GT/G	AGTCGCTCGAAAAGTC CAAA	TCCTGGTCCTCGATT CATC	60.0	528	INTERGENIC	--	--	--
scaffold2183_P3_67873	scaffold2183	67873	ATTTTT/ATTTT	GATGAAATCGAGGACC AGGA	TTTCATCTGGACTTTTC GGG	60.0	333	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
scaffold2192_P3_106941	scaffold2192	106941	CTATTATTATTATTATTATTATTATT /CTATTATTATTATTATTATTATTATT TATT	TGGTCTCCCTCTCCTTC TCA	TTCCATTGCGCAAAT CATA	59.9	483	INTERGENIC	--	--	--
scaffold2192_P3_177333	scaffold2192	177333	ATTTTTTTTT/ATTTTTTTTT	AAAACGAGTCTACGAC AAGCG	TAATTTGACCCCTCA CCAA	59.6	194	INTERGENIC	--	--	--
scaffold2192_P3_8042	scaffold2192	8042	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	AGGAAGAGTGGAGTTG CGAA	ATGTTTTGGATTTTGG CTCG	60.0	524	INTERGENIC	--	--	--
scaffold2192_P3_93608	scaffold2192	93608	AAGAGAGAGAGAGAGAGAGAGA/AAG AGAGAGAGAGAGAGAGA	TCATCAAAAGCCACGAA TGA	TTTGTTGAGGGACTT GGAA	60.2	713	INTRON	Ca_26813	R	--
scaffold2193_P3_100511	scaffold2193	100511	AATATATATATATATATATATATA/AA TATATATATATATATATATATATA	TTCAAGGTGCGTAATG GTGA	TACAGAGCGCGAAAGA GTCA	60.1	633	INTERGENIC	--	--	--
scaffold2193_P3_161568	scaffold2193	161568	ATTTTTTTTT/ATTTTTTTTT	CCGTTTCGAGTCTCAA GGAG	GCTTCCATGTTGCTCC TCTC	60.0	679	INTERGENIC	--	--	--
scaffold2193_P3_3906	scaffold2193	3906	AATATATATATATATATATATATAT ATATATATAT/AATATATATATATATA TATATATATATATATATATATAT	AGGTGATACCGGGAT AAGG	CAATTGAAGTGCAAA CACG	60.0	727	INTERGENIC	--	--	--
scaffold22_P3_24507	scaffold22	24507	AAT/A	ATGAGGCTCAAAATGC CATC	GCCAACTTTTCCAATG CCTA	60.0	727	INTERGENIC	--	--	--
scaffold22_P3_30453	scaffold22	30453	A/AG	CCTGAGTTGCTCAAAG CACA	CTTCCTTCGCACATGA CAGA	60.2	514	INTERGENIC	--	--	--
scaffold22_P3_34203	scaffold22	34203	AC/A	CAACGACACATGCA CAAG	CAAAACACACGCTCTC TCCA	59.8	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 (°C)	Expected 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_P3_34524	scaffold22	34524	GTTTTT/GTTTTTTT	GCAGCATCGCAGATCA TAGA	CGAATTGGGTTTTCTG TCTC	60.1	181	INTERGENIC	--	--	--
scaffold2205_P3_36887	scaffold2205	36887	TG/T	AGGTCATTTTCGTCCTC CCT	TGGACAAGAATAAGCC CAGG	59.9	337	INTERGENIC	--	--	--
scaffold2205_P3_49159	scaffold2205	49159	ATT/ATTT	TTTTTAACCAATCTTCG GCG	AGGGAGGACGAAAATG ACCT	60.1	272	INTERGENIC	--	--	--
scaffold2208_P3_20005	scaffold2208	20005	CA/CATA	CAAACACACCTGTTGG ATGC	CCCTAGGCTTATTCTT GCCC	60.0	362	INTERGENIC	--	--	--
scaffold2208_P3_5110	scaffold2208	5110	AAAATG/AGCTAAATG	GGGTGGACGAAAATGA CCTA	TTTTTGTTTCGTCTC CGT	59.8	710	INTERGENIC	--	--	--
scaffold2208_P3_5165	scaffold2208	5165	AC/A	GGGTGGACGAAAATGA CCTA	ATTTTGTGTTTCGTCTT CCG	59.8	711	INTERGENIC	--	--	--
scaffold221_P3_75373	scaffold221	75373	GTATATATATATATATATATA/GTATA TATATATATATATA	TTGGAAGGAGCCCTTA CCTT	CGATTGAGGACCAAGG ATGT	60.1	910	INTERGENIC	--	--	--
scaffold2210_P3_15184	scaffold2210	15184	CG/CGGATTG	TCCAGATGAAATCGAG GACC	AAATCCGACACGTAAC TCGG	60.0	531	INTERGENIC	--	--	--
scaffold2210_P3_36171	scaffold2210	36171	AATTATATTA/AATTA	TCTTCGTTATGCAGTCA AACCT	TGTCAGAAAAACACCA TGAATTG	58.9	612	INTERGENIC	--	--	--
scaffold2210_P3_61082	scaffold2210	61082	AGTGATTTCGAATACA/AGTGATTTCGA ATACACGTGTATTCTGAATACA	TTTAGGGTTTAAGATTC GGGG	TCTTAAGATGCGTGGC CAAT	59.3	735	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 (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
scaffold222_P3_31032	scaffold222	31032	TG/T	TGTTTTTGTGGACGG ATGA	ACCGTCAATGGTTTGA CACA	59.9	586	INTERGENIC	--	--	--
scaffold2227_P3_27932	scaffold2227	27932	CCCAATCGATTG/CCCAATCGATTG CCCAATCGATTG	TCAGCCCAGGATTTTG TTTC	CCCGTGAGATCCTCCT AACA	60.1	537	INTERGENIC	--	--	--
scaffold2227_P3_31662	scaffold2227	31662	AATATATATATATATATATA/AATATA TATATATATATATA	CTTGGAAGTGGAGAG CAAG	AATGGAGGAAGGAGG GAGAA	60.0	541	INTERGENIC	--	--	--
scaffold223_P3_179733	scaffold223	179733	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGCTAATCTGTGTGAG GCG	CCTCCATCGAATTTCT CCAA	60.0	667	INTERGENIC	--	--	--
scaffold223_P3_18386	scaffold223	18386	ATTTTTTTTT/ATTTTTTTTTTT	TTTTGTCCCCCAACA TAA	TTGTTTCTCCCAAGTT TGG	60.0	216	DRR	Ca_25618	GE	bZIP
scaffold223_P3_43318	scaffold223	43318	ATTTTTTTTTTT/ATTTTTTTTTTT	TGGGATTAATGATGGA GCAA	TCGTTTTTCATGTCATCA GCC	58.9	424	INTERGENIC	--	--	--
scaffold223_P3_65831	scaffold223	65831	TC/TCAC	TGTGCCACGATTTGTT GAT	ATGCAAGGAAGTGGAG CAGT	60.0	911	INTERGENIC	--	--	--
scaffold223_P3_82674	scaffold223	82674	GTTTTT/GTTTTTTT	AATCTTCCCATGGATGT TTCA	TCAGCAAAGTCAAGAA GGCA	59.2	541	INTERGENIC	--	--	--
scaffold223_P3_95879	scaffold223	95879	AGCGACTACT/A	TTGCTCTCCTGTGTG TGC	TGGAGACCCCTTGATG AAAC	59.7	502	INTERGENIC	--	--	--
scaffold2235_P3_878	scaffold2235	878	GTTTT/GTTTTT	AGGTCATTTTCGTCTC CCT	TTGGATGCACAAGATT GGTT	59.9	267	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 (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
scaffold224_P3_101873	scaffold224	101873	GTTTTTTTTTTT/GTTTTTTTTTTT	TCGATTGGCAGTTGATTA	CGATTTCCAATCGATTCAT	60.1	402	INTERGENIC	--	--	--
scaffold224_P3_180989	scaffold224	180989	CCTTC/CCTTCCTC	GCTACCGTGCGTTGGATTAT	GTCACGGGCGTTGAATAAGT	60.0	545	INTERGENIC	--	--	--
scaffold224_P3_186566	scaffold224	186566	GTTTT/GTTTTT	TGAAGTGTTCGAATTGCAGC	TTGCGTTGAAAGACTCGATG	60.0	462	DRR	Ca_26345	--	--
scaffold224_P3_20770	scaffold224	20770	TAA/TAAA	GAACCTTACGCACGATCCAT	TGCAAACGTATTTTGGGT	60.0	475	INTERGENIC	--	--	--
scaffold224_P3_20848	scaffold224	20848	TTACA/T	GAACCTTACGCACGATCCAT	TGCAAACGTATTTTGGGT	60.0	475	INTERGENIC	--	--	--
scaffold224_P3_279272	scaffold224	279272	ATTTTTTTTTTT/ATTTTTTTTTTT	ACCAAAACAAATGAGGCAGG	CTGTTTCGCACCTCAACAAGA	60.0	678	INTERGENIC	--	--	--
scaffold2241_P3_6226	scaffold2241	6226	ATT/ATTT	CCAGTGTCTTGTTGTGG	TGTCCAAGGTATTCTACCGATG	60.0	595	INTERGENIC	--	--	--
scaffold2249_P3_1002	scaffold2249	1002	CT/CTT	TATTCACCCACGATCATT	CAACCAAGCCATTTTCATT	60.0	871	INTERGENIC	--	--	--
scaffold2263_P3_1331	scaffold2263	1331	AGGGG/AGG	GCACAAGATTGGTTAAACCCCT	TCGTCTCCATTGGCTTATC	59.4	354	INTERGENIC	--	--	--
scaffold2269_P3_108818	scaffold2269	108818	ATTT/ATT	TTTTTGGGGTTGATCGGTTA	GGATGGTTGTTTGAGTGGCT	60.2	685	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 (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
scaffold2269_P3_20533	scaffold2269	20533	TTATGTGTATATA/TTA	AAGGGGAGAATTGTAA CACCC	TTTAACATTAGTCAAGC GCACA	59.2	351	INTERGENIC	--	--	--
scaffold2269_P3_45593	scaffold2269	45593	TC/TAAC	CTTTGAGAAGCAGGCC ATTC	CGGTTGCGTGAGGTTT TTAT	60.0	562	DRR	Ca_27076	--	--
scaffold227_P3_135497	scaffold227	135497	TCC/TCCC	CTTGATGTGGTAGCC GTTT	GGTCTTGTGGTGGCTT TTGT	60.0	651	INTRON	Ca_25190	--	--
scaffold227_P3_140947	scaffold227	140947	TTA/TTAAAGTA	ACCCTTTTGTCCACAC GAG	TACGGATGTTGACGCA ATGT	60.0	511	INTRON	Ca_25190	--	--
scaffold227_P3_142854	scaffold227	142854	CT/CACAT	TGCAGGCCTCCACTAG AGTT	CTTAGTAACGGCGAGC GAAC	60.0	766	CDS (large-effect mutations)	Ca_25191	--	--
scaffold227_P3_144417	scaffold227	144417	AA/AATA	CCTCAAACCTCCATGG CCTA	CCACGTCCTCGATTTC ATCT	60.1	443	DRR	Ca_25191	--	--
scaffold227_P3_194942	scaffold227	194942	CTTTTTTTTTTTTTTT/CTTTTTTTTTT TTTTT	TTATCCGACAAACTGG CACC	TGGTTGGTTGTATGTT TGGG	60.9	472	INTERGENIC	--	--	--
scaffold227_P3_195682	scaffold227	195682	CAA/CAAA	AGACACAAACCCGCA ATAG	GGATGCCACCATTCAA GTTT	60.0	338	INTERGENIC	--	--	--
scaffold227_P3_195989	scaffold227	195989	ATTTTTTTTTTTTTTT/ATTTTTTTTTT	AAACTTGAATGGTGGC ATCC	AGTAATGAATGGGCGA GTGG	59.8	595	INTERGENIC	--	--	--
scaffold227_P3_196111	scaffold227	196111	TAAAAAA/TAAAAAAA	AAACTTGAATGGTGGC ATCC	AGTAATGAATGGGCGA GTGG	59.8	595	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PfII) reference genome-CDC	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
scaffold227_P3_196280	scaffold227	196280	TAAAA/TAAAAA	AAACTTGAATGGTGCG ATCC	AGTAATGAATGGGCGA GTGG	59.8	595	INTERGENIC	--	--	--
scaffold227_P3_197474	scaffold227	197474	TAAAAAAAA/TAAAAAAAAA	CCTAATGGCGAAATT GTGT	TAATCAGACCGTGTGG GTGA	59.8	626	INTERGENIC	--	--	--
scaffold227_P3_198390	scaffold227	198390	T/TC	ACCTGAAATGACTGCG CTCT	TCCAATGTCGGGAGC TAAC	60.0	401	INTERGENIC	--	--	--
scaffold227_P3_34781	scaffold227	34781	TAAAAAAAAA/TAAAAAAAAA	TGAATAGCGAGTGTGT TGGG	TGCACATAGTAAACTT GGCG	59.7	639	INTERGENIC	--	--	--
scaffold227_P3_388380	scaffold227	388380	TTATATATATATATATATATATATATA TATATA/TTATATATATATATATATATAT ATATATATATATATATATA	CAC TTCTTCGAGTAG GCCG	TCACTAACCATTTAGCA CCCCA	60.0	790	INTERGENIC	--	--	--
scaffold227_P3_389055	scaffold227	389055	CATATATATATATATATATATATATAT A/CATATATATATATATATATATATATAT ATATA	TGTGATCAATTGGAG CAGC	GGCGTGTTATGTTTTG GACC	59.8	470	INTERGENIC	--	--	--
scaffold2273_P3_10771	scaffold2273	10771	TAA/TA	TCTCCCTGGGCTTATT CTT	GGAGGACGCAAATGAC CTAA	60.0	405	INTERGENIC	--	--	--
scaffold2273_P3_24864	scaffold2273	24864	CATTAATTAA/CATTAATTAATTAA	AAAATCCAACAATCTCC CCC	CCCTGCTACTCCTGCT TTTG	60.0	590	DRR	Ca_28242	--	--
scaffold2273_P3_24986	scaffold2273	24986	GAAAA/GAAAA	AAAATCCAACAATCTCC CCC	CCCTGCTACTCCTGCT TTTG	60.0	590	DRR	Ca_28242	--	--
scaffold2273_P3_33009	scaffold2273	33009	C/CCTGAAA	CAATCGATTCCCTCAG CACT	ACACACCTATTGGACG CACA	60.2	584	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
scaffold2275_P3_15734	scaffold2275	15734	AATATATATATATATATATATAT/AA TATATATATATATATATAT	AGTGATAACCCGTGC GTCG	TGGAGTCATGCTTT CATCA	61.0	229	INTERGENIC	--	--	--
scaffold228_P3_136549	scaffold228	136549	A/AC	GATGAAATCGAGGACA GGGA	TGCGTCTTTCTCAAGT GCAT	60.0	445	INTERGENIC	--	--	--
scaffold228_P3_176693	scaffold228	176693	ATATTATTATTATTAT/ATATTATTATTA T	GGTTTCGAGGAAACTG GACA	TTGTTTATTTGACAACT CAATTGTTCT	60.1	794	INTERGENIC	--	--	--
scaffold228_P3_183161	scaffold228	183161	ATTT/ATT	CAGCCTAAAAGAGTC GTGG	AAGTTTGAAGTCAAAA CGAAGA	60.8	783	INTERGENIC	--	--	--
scaffold2289_P3_12871	scaffold2289	12871	ATTT/ATTTT	TGTGTTTGTGCCATTG GATT	AGGGAGGATGAAAACG ACCT	59.8	475	INTERGENIC	--	--	--
scaffold2289_P3_14559	scaffold2289	14559	GTTTT/GTTTTT	TCCTCCCAAGGCTTATT CAA	AATCCAATGGCACAAA CACA	59.6	501	INTERGENIC	--	--	--
scaffold229_P3_37264	scaffold229	37264	GC/GCTATTGGATGAAC	TGGGTGCACAAGATTG GTTA	TGAGGTCATTTTCGTC CTCC	60.0	857	INTERGENIC	--	--	--
scaffold2301_P3_1549	scaffold2301	1549	GA/GAGAACCCAAA	TGCAACGTCGTTCTCT CTTG	CAGACTTCCAGCGTC ACAA	60.2	441	INTERGENIC	--	--	--
scaffold2301_P3_22791	scaffold2301	22791	CTT/CT	CAAAACACCTGTTGG ATGC	CCTCGCTTGGCTTATT CTTG	60.0	466	INTERGENIC	--	--	--
scaffold2301_P3_34850	scaffold2301	34850	CAAAAA/CAAAA	GATAGAGGCCATTCCA CCAA	TCATTCAACTGGTGCA GCTC	59.9	716	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
scaffold2301_P3_54382	scaffold2301	54382	ATG/ATGTG	CCAAAGGAGGACGAAA ATGA	GCGTGTGTTGTGACATT GGAG	60.0	349	INTERGENIC	--	--	--
scaffold2301_P3_54476	scaffold2301	54476	C/CA	TGGATGCACATGATTG GTTT	AGGTCATTTTCGTCCT CCCT	59.8	316	INTERGENIC	--	--	--
scaffold2301_P3_6372	scaffold2301	6372	AAAATG/AAAATGACCTAAATG	AGGGAGGACGAAAATG ACCT	AACCAATCATGTGCAT CCAA	59.9	557	INTERGENIC	--	--	--
scaffold2301_P3_64947	scaffold2301	64947	TAT/TATCCTCGAGAAT	GCTTAATTTCGAAGAAG GCG	AAGGCATCGTCACATC TTCC	59.1	116	INTERGENIC	--	--	--
scaffold2301_P3_65310	scaffold2301	65310	A/AG	GCTTAATTTCGAAGAAG GCG	TGAAATTCAAATAAAGT CAACATATTC	59.1	224	INTERGENIC	--	--	--
scaffold231_P3_18150	scaffold231	18150	AC/A	GTTTCGTACCCCTCGA CAAA	TCCAGATGAAATCGAG GACC	60.0	475	INTERGENIC	--	--	--
scaffold2322_P3_7706	scaffold2322	7706	ATT/ATTT	CGCAACACCAAGAGAA CAAA	TCCGTTAACCCTCTAC CGTC	59.9	500	INTERGENIC	--	--	--
scaffold2325_P3_11057	scaffold2325	11057	TATAATAATAATAATAATAATAATA ATAATAATAAT/TATAATAATAATAATAA TAATAATAATAATAATAAT	ATTCCGGTAAATCTCC GCT	GGGGGCAGTAATGTAA GACC	59.9	803	INTERGENIC	--	--	--
scaffold2325_P3_58485	scaffold2325	58485	TAA/TA	AGGTCGTTTTCGTCCT CCTT	GCATGCCCAAGATTGG TAAA	60.1	268	INTERGENIC	--	--	--
scaffold2325_P3_58923	scaffold2325	58923	CA/C	TTTCCTTCTCCCTAGG CTT	TCCTGAATGGATGCAC AAGA	59.3	670	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 (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
scaffold2330_P3_105339	scaffold2330	105339	AATATATATATATA/AATATATATATATA	GTACCAATCTGCCCTTTT	ACCAAGGCGTCATCAA AATC	60.2	327	DRR	Ca_25426	--	--
scaffold2330_P3_49560	scaffold2330	49560	AAGAGAGAGAGAGAGAGAGA/AAGAG AGAGAGAGAGAGA	TTGTCAGCCACATTTTT GGA	CAAATTTCGATTTCAG GGTT	60.1	698	INTERGENIC	--	--	--
scaffold2330_P3_65265	scaffold2330	65265	CAGAGAGAGAGAGAGAGAGAGAGA GAGAGAGAGA/CAGAGAGAGAGAGAG AGAGAGAGAGAGAGAGAGAGA	TAGGTTCAAAATGGCTT CCG	ATTACGATAACCGCAC TCCG	60.1	440	INTERGENIC	--	--	--
scaffold2330_P3_91446	scaffold2330	91446	GATATATATATATATATATATATATA TATATATATATATATATATA/GATATATA TATATATATATATATATATATATATAT ATATATATATATA	GTTGCCATTGGTTGTC TGTTG	TCCAAATGCATCAGA AGATAGA	60.0	402	INTERGENIC	--	--	--
scaffold2330_P3_94981	scaffold2330	94981	AAT/A	AACCCAAGTTCCAAATG ACG	CTTCTGCAGCACTTCC TCCT	59.8	863	INTERGENIC	--	--	--
scaffold2343_P3_16033	scaffold2343	16033	ATTAGGGTTTAGGGTTTA/ATTAGGGT TTAGGGTTTAGGGTTTA	AGGCGAGTTTTGTCTAT TGG	AGGGAGGACGAAAATG ACCT	60.1	641	INTERGENIC	--	--	--
scaffold2345_P3_11872	scaffold2345	11872	TG/T	TAGGTGGTACGAAAAT CGCC	TTTCATCTGGACTTTTC GGG	60.0	364	INTERGENIC	--	--	--
scaffold2346_P3_28393	scaffold2346	28393	GA/GAA	TGGGCGATTTTGTACT TCC	CCCGAAAAGTCCAGAT GAAA	59.9	395	INTERGENIC	--	--	--
scaffold2346_P3_7295	scaffold2346	7295	GAA/GAAA	TCCAGGTCCTCGATTT CATC	CCATCGTCTCGTCCAA AAAT	60.0	418	INTERGENIC	--	--	--
scaffold2348_P3_176388	scaffold2348	176388	TTTTATTTATTTATTT/TTTTATTTATTTA TTTATTT	GGGAGGAAGTCTGTGC TGAG	CAACATGTTTGCAGTC CACC	60.0	564	DRR	Ca_25471	--	--

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 (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
scaffold235_P3_146229	scaffold235	146229	CTTTT/CTTT	CCTCAGATGAGAGCCA GGAC	TAACCAAAGGTTCCAC AGCC	59.9	500	INTERGENIC	--	--	--
scaffold235_P3_205678	scaffold235	205678	GACATAAAATCTAAA/GACATAAAATCT AAACATAAAATCTAAA	CCCCCTCAAATATGCT TCA	TCAAGGCTAACTCCCA AGGA	59.9	517	INTERGENIC	--	--	--
scaffold2354_P3_4289	scaffold2354	4289	C/CAAAAAA	TCCAGTCCTCGATTTC ATC	AATCGTGTTCGTT ACGC	60.0	521	INTERGENIC	--	--	--
scaffold2356_P3_13819 4	scaffold2356	138194	TT/TTCT	CCTTGAAGTGTGTCTG GCA	CCAACAACATCAAATTC ATCG	59.9	687	INTRON	Ca_24344	Q	--
scaffold2356_P3_22863 9	scaffold2356	228639	AG/A	TCACGAGACATTAGGT GGGA	CGAGGGTCGAAAGCTA TGAG	59.1	799	INTERGENIC	--	--	--
scaffold2356_P3_29418 1	scaffold2356	294181	CTA/CTATA	TGACAAGTGTAACACC CCAAA	GGTTGTTACAAAGCCA ATTGAA	58.9	889	INTERGENIC	--	--	--
scaffold2356_P3_44981	scaffold2356	44981	TCC/TC	CCGAGCCAAATCCAA AATA	GAAGAGTTACGCGGAC AAGC	59.9	564	INTERGENIC	--	--	--
scaffold2357_P3_11014	scaffold2357	11014	AGGGGGGGG/AGGGGGGGGGGG	GAATTCTGTTGAAGCAC GCA	TGAGCAAAGGAAACAA GCCT	60.0	644	INTERGENIC	--	--	--
scaffold236_P3_25371	scaffold236	25371	CATATATATATAT/CATATATATATAT	GAGGTGTCCAGCTCA CACA	TTGGCACATTGATTTT GACC	59.9	772	INTERGENIC	--	--	--
scaffold236_P3_41897	scaffold236	41897	TTATATATATATAT/TTATATATATAT	CCAGATTTCAGCCTTTC CAA	GATATGCGTCTGACTGA GCAA	60.2	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
scaffold2367_P3_1866	scaffold2367	1866	AG/A	ACGAACGTTGAAAATC CAGC	CGCTAGGCTCATTCTT GTCC	60.1	713	INTERGENIC	--	--	--
scaffold2368_P3_18968	scaffold2368	18968	ATTTTT/ATTTT	TTCCATTTTCAGCTTCCA ACC	ACCATTTTGCCTTCGA TCTG	60.1	697	INTERGENIC	--	--	--
scaffold2368_P3_25942	scaffold2368	25942	CGTG/CGTGTG	TTGTTTGCATCCATG GTAA	AAATCCACGTCATCCC AAAA	59.8	593	DRR	Ca_26718	--	--
scaffold2368_P3_26204	scaffold2368	26204	G/GCA	ATAATTTGGAGCGGTG GTTG	AAATCCACGTCATCCC AAAA	59.8	179	DRR	Ca_26718	--	--
scaffold2368_P3_26215	scaffold2368	26215	TTTTCTTT/TTTT	ATAATTTGGAGCGGTG GTTG	TGGAACGAGCTTTT ACCC	59.8	251	DRR	Ca_26718	--	--
scaffold2368_P3_53512	scaffold2368	53512	TGGG/TGGGG	AACCCTGGAGATGGGA AAGT	CTAGCCATTAGCTTCG ACCG	59.8	607	DRR	Ca_26720	P	--
scaffold2368_P3_54204	scaffold2368	54204	GTT/GTTT	CATCGGTCAAACACCA TCTG	GCTTTCAGAACATGC GTAA	60.0	490	DRR	Ca_26720	P	--
scaffold2368_P3_54372	scaffold2368	54372	CAGATA/CAGATAGATA	CATCGGTCAAACACCA TCTG	TTTGCGTACATGATG CAAT	60.0	800	CDS (FRAME SHIFT)	Ca_26720	P	--
scaffold2368_P3_55017	scaffold2368	55017	A/AG	TTGCATCATGTACGCCA AAT	ACTTTCAGTGGCTCGG AGAA	60.0	392	INTRON	Ca_26720	P	--
scaffold2368_P3_59799	scaffold2368	59799	TC/TCTCC	CTCCAAATCCCAATCTC CAA	CTCACTGTCAAGGTGC CGTA	59.9	725	URR	Ca_26721	--	MYB

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 (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
scaffold2371_P3_150056	scaffold2371	150056	TGGG/TGG	GCATTCGGGGGTATGTTTA	CATCTTCCTTCCACAATTCTTT	59.7	970	INTERGENIC	--	--	--
scaffold2371_P3_261490	scaffold2371	261490	ATTTTTTT/ATTTTTTTT	TGTCATATGCCTTGAGCAGC	AGGATATGCCAAAATGCACC	60.0	294	INTERGENIC	--	--	--
scaffold2371_P3_287452	scaffold2371	287452	CTTTTTTTTT/CTTTTTTTTT	CGACTCGTGTCTAAACTCAA	TTTCATGCCATAAGTCATTGTG	59.4	884	INTERGENIC	--	--	--
scaffold2371_P3_310705	scaffold2371	310705	ATTTTTTTTT/ATTTTTTTTTT	TCAATGAAGGGAAGGAGGTG	GAGAAAATTCTGGCATCCGA	60.0	515	DRR	Ca_23998	T	--
scaffold2371_P3_72440	scaffold2371	72440	TAAAAAA/TAAAA	TTGAATCGTGAGGGTTAGG	AGGGAAGATTCTCCGACACA	60.0	663	INTERGENIC	--	--	--
scaffold2371_P3_73153	scaffold2371	73153	TAAAAAAAA/TAAAAAAAA	TGTGTCTGGAGAATCTTCCT	ATCGACGATAAGTCATCGGG	59.7	950	INTERGENIC	--	--	--
scaffold2371_P3_73366	scaffold2371	73366	ATTTTATTTT/ATTTTATTTTATTTT TATTTT	CAAGAAAAAGTTTGACTTCCGA	ATCCACGCCACATAAACCAT	59.8	919	INTERGENIC	--	--	--
scaffold2371_P3_73819	scaffold2371	73819	GTT/GT	ATGGTTTATGTGGCGTGGAT	TGAATGAAGCGAAATGTGC	60.1	321	INTERGENIC	--	--	--
scaffold2371_P3_74028	scaffold2371	74028	AG/A	ATGGTTTATGTGGCGTGGAT	TGAATGAAGCGAAATGTGC	60.1	321	INTERGENIC	--	--	--
scaffold2371_P3_92991	scaffold2371	92991	GTTTTTTTT/GTTTTTTTTTTT	CTTAGTCTGACAAAGGGAGC	CGCACTTCTCAACCACGTTA	58.1	416	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 (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
scaffold2373_P3_38487	scaffold2373	38487	ACCCC/ACCC	TGCCTTGGACGAAGTT TTTC	CTCTCCCAAAATTGG GGTT	60.2	597	INTERGENIC	--	--	--
scaffold2373_P3_39509	scaffold2373	39509	GAA/GA	CGAACCGCAAATCTAC CAAC	ATGTGTTCTCCTCCAC TGCC	60.5	170	INTERGENIC	--	--	--
scaffold2373_P3_64133	scaffold2373	64133	CAAGTCTAAGTCT/CAAGTCTAAGTCTA AGTCT	AAGCAGTATTGACGG GGTG	ATGCATGGATTGATTG GGAT	60.0	802	INTRON	Ca_27075	--	--
scaffold2373_P3_69117	scaffold2373	69117	TCATCACA	GCGAAGTCTCCATCCT TTCTT	AAAAATGCGCACGACA GATT	59.8	254	INTRON	Ca_27075	--	--
scaffold2375_P3_2798	scaffold2375	2798	TTATATATATATATA/TTATATATATA TATATATATATA	TAGCACCGTAGCGGAG AGAT	GCATGACGAAGCAAGA TCAA	60.0	827	INTERGENIC	--	--	--
scaffold2376_P3_3757	scaffold2376	3757	GCCTAAACCCTAAACCCTAAACCCTAA ACCCTAAACCCTAAACC/GCCTAAACC CTAAACCCTAAACCCTAAACCCTAAAC C	TATGCACGTATGCGAC GAAC	TGGGGTATGGGATTTA GGGT	60.7	312	INTERGENIC	--	--	--
scaffold2376_P3_6720	scaffold2376	6720	TAAAACCAAAACCACCAAA/TAAAACCA AA	ACCCTAAGCCCAAAC CTAA	TGGTGGAATCTAGTCC ATGTTG	59.8	369	INTERGENIC	--	--	--
scaffold2378_P3_23078	scaffold2378	23078	ACTAAAC/ACTAAACCCTAAAC	TTGCTTGTGCTCATTC AGG	GGGTTTCGGGTTTATG GTTT	60.0	457	INTERGENIC	--	--	--
scaffold2378_P3_5174	scaffold2378	5174	GAAA/GAA	TACCCAAAAGCCTAAC ACG	TTTCGGGATTCAAGTT GAGG	60.0	881	INTERGENIC	--	--	--
scaffold2382_P3_11649	scaffold2382	11649	TAAAAA/TAAAAA	CAGAAGAGGAACAAAC AGAAGGA	ACGGAGTGACCAGGAA ACAC	59.9	229	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 (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
scaffold2385_P3_5093	scaffold2385	5093	TCC/TC	GAGTGAATTGTAACAG CCCAA	GGA CTTCGGTGAAGA AGAA	59.1	720	INTERGENIC	--	--	--
scaffold2385_P3_5335	scaffold2385	5335	TT/TTTCAAT	GAGTGAATTGTAACAG CCCAA	TCATTTGACGCTTTC ACAC	59.1	968	INTERGENIC	--	--	--
scaffold2386_P3_13369 2	scaffold2386	133692	TTATATATATATATATAT/TTATATAT ATATATATATATAT	TTATCTGCCCTTTCTCC CCT	CCTCATATGGTCAACG GTCA	60.0	447	INTERGENIC	--	--	--
scaffold2386_P3_19676 3	scaffold2386	196763	TGG/TG	ACAAAGAGTCTGCCCT GGAA	CGTGGGTACATCCAG TCCT	59.8	930	INTERGENIC	--	--	--
scaffold239_P3_109046	scaffold239	109046	T/TGTCTGA	TGCCTTAAGTACAAAG GGG	CAATCGATTCCCTCAG CACT	60.1	560	INTERGENIC	--	--	--
scaffold239_P3_109266	scaffold239	109266	CA/C	GGTTTCAACCCCAATG CTTA	TCGACTTGTCATCGC TTTG	59.8	808	INTERGENIC	--	--	--
scaffold239_P3_109857	scaffold239	109857	T/TCATA	TGGCAAACCGATTGAC ATTA	TGTTGCTCCTCACGAA TCTG	59.9	390	INTERGENIC	--	--	--
scaffold239_P3_61563	scaffold239	61563	A/AT	ATCCATTGTTGTGCATC CAA	GCGATGGAGGACGAA AGTTA	59.8	466	INTERGENIC	--	--	--
scaffold239_P3_64716	scaffold239	64716	GTTTTTTTT/GTTTTTTTTT	CGTCTCCATCGCCTT AGTA	AGGGAGGACGAAAATG ACCT	60.2	898	INTERGENIC	--	--	--
scaffold2392_P3_10736	scaffold2392	10736	TA/TATATAAAGA	TAGGCTCCACCACTTG GGTA	TTGGAAGGAGCCCTTA CCTT	60.5	745	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 (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
scaffold2392_P3_10820	scaffold2392	10820	TTTCTTCTTCTTCT/TTTCTTCTCT TCTTCTCT	GGTAGGCCTTGGGCTA GTGT	TTGGAAGGAGCCCTTA CCTT	60.5	729	INTERGENIC	--	--	--
scaffold2392_P3_18104	scaffold2392	18104	AT/A	TTGCTCCACGAACATCT CTG	CTGAGTTGCATTGATC TCGC	60.0	870	INTERGENIC	--	--	--
scaffold2392_P3_20138	scaffold2392	20138	CATATAT/CATAT	CGCATCGAGACGAGAA AACT	GCGCGACCCCTTATAT TACA	60.5	871	INTERGENIC	--	--	--
scaffold2392_P3_25134 9	scaffold2392	251349	GAAAAAA/GAAAAAAA	TGTGCGTCGAAGTCAC CTAT	GGTATTCTGCAGCCA CCAT	59.3	442	INTERGENIC	--	--	--
scaffold2392_P3_25901 8	scaffold2392	259018	TTCTCTCTCTCTCTCT/TTCTCTCTC TCTCTCT	ATCCTCCACCACCATAA CCA	GCAGATCGCACCCAAA TAAT	60.1	362	INTERGENIC	--	--	--
scaffold2392_P3_32180 8	scaffold2392	321808	ATTT/ATT	GGAAAACTAGGCCAAA ACCC	CATGCACACCCCATGT TAAA	59.8	692	INTERGENIC	--	--	--
scaffold2392_P3_32187 5	scaffold2392	321875	GAAAAAAAA/GAAAAAAAAA	GGAAAACTAGGCCAAA ACCC	CATGCACACCCCATGT TAAA	59.8	692	INTERGENIC	--	--	--
scaffold2392_P3_32621 1	scaffold2392	326211	AATATTT/A	TCATTCCCCACCTACAC AAG	GTGCATGTGGCTGAAA AACA	58.4	552	INTERGENIC	--	--	--
scaffold240_P3_148297	scaffold240	148297	TAG/TAGAGGAG	TGTGAGGCATGTCAA AAGG	CGGCTGTGTTTTCTG TGTC	59.7	822	DRR	Ca_25660	--	--
scaffold240_P3_150038	scaffold240	150038	GTATATATATATATATATAT/GTAT ATATATATATATAT	GGAGGCTTTGAAATTA GGGC	CTCCAGCGCACAAACAT CTAA	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 (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
scaffold240_P3_151385	scaffold240	151385	TAAAAAAA/TAAAAAAA	AGATGCATGTGATGAA ACCAA	TACTCCCATTTCTCC CCTT	59.0	727	INTERGENIC	--	--	--
scaffold240_P3_156860	scaffold240	156860	AAACAACA/AAACA	GACAATCGCAGGAAGT GGTT	GCATTGCACCAAAACA CAAC	60.1	699	INTERGENIC	--	--	--
scaffold240_P3_36060	scaffold240	36060	GTATTTATTTATTTATTTATTTATT TATTTATTT/GTATTTATTTATTTATTTA TTTATTTATTTATTTATTTATTT	CCTCAACCAAAATTTCCG CTA	TTCTTCTCTCTTTCC GGT	60.1	544	DRR	Ca_25654	--	--
scaffold240_P3_38776	scaffold240	38776	TTATATATATATATATATATAT/TTATAT ATATATATATATATATATAT	TATTTTGGATTTTGGCT CGG	TAGGAGAAACGGAGG GGTTT	59.9	575	INTERGENIC	--	--	--
scaffold240_P3_61392	scaffold240	61392	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGTGCCAAGAAAAGT GTCG	GACGAAGTACAATCGC CCAT	59.9	661	INTERGENIC	--	--	--
scaffold240_P3_73279	scaffold240	73279	AT/A	CAAGGTGTCGATGTTG GTTG	CTGGTGGCTACTTTCT TGGG	60.0	472	INTERGENIC	--	--	--
scaffold2408_P3_509	scaffold2408	509	AATATATATATATATATATATA/AATATA TATATATATATATA	TCGAAGTGAAAGTCGT CCCT	ACATCACCAACACGGT CTGA	59.8	631	INTERGENIC	--	--	--
scaffold2410_P3_15231	scaffold2410	15231	TTATATATATATATATAT/TTATATATAT ATATAT	CTTGGGAAGTGGAGAG CAAG	AAATCGGAGAAGGAGG GAAA	60.0	559	INTERGENIC	--	--	--
scaffold2415_P3_137080	scaffold2415	137080	AATATATATATATATATATATATATA/ AATATATATATATATATATATATA	ATCGTTGGAAGTAGGG ACCA	CCACCAACAACAATT CCCT	59.4	484	INTERGENIC	--	--	--
scaffold2415_P3_40897	scaffold2415	40897	T/TTAAATAAGCCTCTGC	GGACATAACCACGTGA AGGAA	TTTCATTTTGTCTGCG ACG	59.8	553	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 (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
scaffold2415_P3_44581	scaffold2415	44581	TAAAA/TAAAAA	CACATCAACAGCAGCC TTGT	TGTTGCCTCTGTTTT GCAG	59.9	390	INTERGENIC	--	--	--
scaffold2415_P3_6244	scaffold2415	6244	ATTTTTTTTTT/ATTTTTTTTTT	CGGGAGATACGTAGGA GCAA	AATTCAATTGAGTCGC CACC	60.2	365	INTERGENIC	--	--	--
scaffold242_P3_167554	scaffold242	167554	CAAAAAAAAA/CAAAAAAAAA	GAGGCCAAAAACCTCA CAAC	TTGGCGTAGTGTTTCT TCTTGA	59.6	608	INTERGENIC	--	--	--
scaffold242_P3_231922	scaffold242	231922	ATTTTTTTTTT/ATTTTTTTTTT	TGGGAGCATTTTCTTT TCC	TGCATTGGTTTGGAC TTTTT	59.1	250	INTERGENIC	--	--	--
scaffold242_P3_235256	scaffold242	235256	TAAAAAAAAA/TAAAAAAAAA	CAACGGTTGGCGATAT TCTT	TCGGTTGGTGTAATT TTGA	60.0	842	INTERGENIC	--	--	--
scaffold242_P3_238083	scaffold242	238083	TATGCA/TA	TGCCAAATGAAGTTGG ACAC	CTCCAATATTGACCG CCAC	59.5	391	INTERGENIC	--	--	--
scaffold242_P3_247505	scaffold242	247505	GAAAAAAAA/GAAAAAAAA	CCTCTGCAACAACACC AAAA	AAGGGAATTTGAGCC AAGG	59.7	350	INTERGENIC	--	--	--
scaffold242_P3_25047	scaffold242	25047	GAAAAAAAA/GAAAAAAAA	CATGTGCCCAATGCT ATGA	GGCCACGTTACAACCT GAAT	60.5	607	INTERGENIC	--	--	--
scaffold242_P3_260122	scaffold242	260122	T/TTG	TTACCAACTTTGCACT CCA	AAAGAAAGCGCTTAG AGGG	60.3	620	INTERGENIC	--	--	--
scaffold242_P3_307052	scaffold242	307052	CTTTTTTTTT/CTTTTTTTTTTTT	TTGCGTACGAGCATAT CCAT	ATGGGTGCTTTCTATG GTCG	59.2	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 (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
scaffold242_P3_314442	scaffold242	314442	TAAAAAA/TAAAAAA	CCACTCTAGAACACC CCA	TTGCAAGATCCATCC ATCA	60.0	707	INTERGENIC	--	--	--
scaffold242_P3_359902	scaffold242	359902	CAAGGGAAGGGAAG/CAAGGGAAG	GCAATTTGAAGAGCC GAAG	GCTTCCGATGATTTT CTGG	60.0	805	INTERGENIC	--	--	--
scaffold242_P3_360673	scaffold242	360673	CTTTTTTTTTTTT/CTTTTTTTTTTT	CCAGAAATCATCGGA AAGC	CCCAAGGAATGAAGC AAAC	59.6	761	INTERGENIC	--	--	--
scaffold242_P3_368643	scaffold242	368643	CAAAAAAA/CAAAAAA	AATGCATTAAATGAGGG GGA	AGGCAAAAGCTTCGTT GAAA	59.2	384	INTERGENIC	--	--	--
scaffold242_P3_392818	scaffold242	392818	TA/TAA	CGGTTGGGAACAATT GACT	CCAAATGACAAACCAT TCCC	60.0	213	INTERGENIC	--	--	--
scaffold242_P3_416740	scaffold242	416740	GAAAAAAAA/GAAAAAAAAA	GAGCACCATCCTTCCC ATAA	AACGCTATACCAACC CAAG	59.9	377	INTERGENIC	--	--	--
scaffold242_P3_425382	scaffold242	425382	TCCCCC/TCCCCCCC	GGAAATGGAAACCCA CATC	TGGCATTTCTGTTTG CTG	59.1	597	INTERGENIC	--	--	--
scaffold242_P3_440827	scaffold242	440827	ACTT/ACTTCTT	TCTCACTCCGTCGTT CTCT	GGTGTGTCATGACTG TTTGC	60.0	482	INTERGENIC	--	--	--
scaffold242_P3_454500	scaffold242	454500	GA/G	TGTGTCAGAAGGATCT TGCG	GTGGAGGCAATCGAA CCTA	60.0	695	INTERGENIC	--	--	--
scaffold242_P3_494583	scaffold242	494583	ATTTTTTT/ATTTTTTTT	GTTGGACCCCAACA CCTC	AATTAGGGGGCATAGG GATG	60.3	794	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_P3_494657	scaffold242	494657	TAAA/TAAA	GTTGGACACCCAAACA CCTC	AATTAGGGGGCATAGG GATG	60.3	794	INTERGENIC	--	--	--
scaffold242_P3_503459	scaffold242	503459	GAAA/GAA	AGAGCCTTGCCAAAA CAGA	CTCTTTCCATTTTCGC TCG	60.0	573	INTERGENIC	--	--	--
scaffold242_P3_509048	scaffold242	509048	TAA/TAAA	AAAGGCCTGAAAGGGA AAAA	TGGGCTAACAGAAAT CGCT	60.0	679	INTERGENIC	--	--	--
scaffold242_P3_509072	scaffold242	509072	GTATTATTATTATTATT/ GTATTATT ATTATTATTATTATTATT	AAAGGCCTGAAAGGGA AAAA	TGGGCTAACAGAAAT CGCT	60.0	679	INTERGENIC	--	--	--
scaffold242_P3_512888	scaffold242	512888	GTT/GTTT	AGGAAGTTGAGCCTGA CGAA	TCCAAATTGGGTTTGT GTGT	60.0	522	INTERGENIC	--	--	--
scaffold242_P3_514290	scaffold242	514290	ATTTTTTT/ATTTTTTTT	TGGATTCAACAATGCA GAGG	ACCAACCCGAACCACT TTTT	59.6	332	INTERGENIC	--	--	--
scaffold242_P3_52094	scaffold242	52094	AT/ATT	AATCGATTGATTCAGCC CAG	CGTTTTTCAAAGCGAG GGTA	60.0	784	INTERGENIC	--	--	--
scaffold242_P3_521682	scaffold242	521682	CTTTTTTTTT/CTTTTTTTTTT	ATGAGGTGGGTCACAC CATT	TGCCTCCACAAGGGAA TAAG	60.1	845	INTERGENIC	--	--	--
scaffold242_P3_523949	scaffold242	523949	TC/TCC	CAAGGTGTGAGATCAA CCGA	TCATGACTTTTGACCG ACGA	59.7	417	INTERGENIC	--	--	--
scaffold242_P3_553780	scaffold242	553780	AACA/AA	TTTCCAACGCATAATCG ACTC	TCCTAGGGACTTCGTG GTTG	60.1	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
scaffold242_P3_577314	scaffold242	577314	GTTTTTTTTT/GTTTTTTTTT	GCAAGTTAAATGCGATT GTGT	GAGTTTTGAGATGTG AATCAAACA	57.8	744	INTERGENIC	--	--	--
scaffold242_P3_579177	scaffold242	579177	TAAAAAAA/TAAAAAAA	AACGGTTGAACTAGT GCATTTT	TGCGTAAACGGTATGG ATGA	59.2	623	INTERGENIC	--	--	--
scaffold242_P3_584643	scaffold242	584643	TAAAAAAA/TAAAAA	AAGAACCGATAATGGA GGGG	AATCTATGGAGCGAGC AGGA	60.1	624	INTERGENIC	--	--	--
scaffold242_P3_593752	scaffold242	593752	ACCC/ACC	GTTGTTTGAGCAAAC TGCAT	TTTGATTGTTTGATGA GCCA	60.2	634	INTERGENIC	--	--	--
scaffold242_P3_679900	scaffold242	679900	ATTTTTTTTT/ATTTTTTTTT	GTTTGGATTGAACTT CGC	AATGTTGACGATGCGT TTGA	59.6	311	INTERGENIC	--	--	--
scaffold242_P3_681579	scaffold242	681579	TTTTATTATTATTATTATTATT TTTATT/TTTTATTATTATTATTATT	GGCTGTGCAATGTTGT GTGT	GCCATTGGAGTGAAGA TTGAA	60.6	775	INTERGENIC	--	--	--
scaffold242_P3_688858	scaffold242	688858	TTCATGTCATG	GGGATTGCATTTTGA GCAT	CCGTTTGTGTAGAAGC ACGA	59.9	649	INTERGENIC	--	--	--
scaffold242_P3_689206	scaffold242	689206	ATTTTTTTTT/ATTTTTTTTT	TCGTGCTTCTACAAAA CGG	GCACACGCTTACAACA CCAT	59.9	226	INTERGENIC	--	--	--
scaffold242_P3_698186	scaffold242	698186	GAAA/GAAAA	GGCATTTTAAGGTGAT CAATAA	GACATTGGAGGCGATT GTTT	57.3	363	INTERGENIC	--	--	--
scaffold242_P3_711902	scaffold242	711902	GTTTTTTTTT/GTTTTTTTTT	ATCACCACAACCTCTT GCC	TTCGACATATACCGC AAAA	60.0	368	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_P3_732752	scaffold242	732752	AGTG/AGTGTG	AAACAAGTCCAAGGTG GCAG	TTGTCGGCAGGGGTA GTAAC	60.1	514	INTERGENIC	--	--	--
scaffold242_P3_732948	scaffold242	732948	T/TA	AAACAAGTCCAAGGTG GCAG	TTGTCGGCAGGGGTA GTAAC	60.1	514	INTERGENIC	--	--	--
scaffold242_P3_735530	scaffold242	735530	CAAAAAAAAA/CAAAAAAAAAAAAA	CGAACTTGAGAATTCAC CGC	GTGGAAAAGGGGATTG GATT	60.8	371	INTERGENIC	--	--	--
scaffold242_P3_735562	scaffold242	735562	A/AC	CGAACTTGAGAATTCAC CGC	GTGGAAAAGGGGATTG GATT	60.8	371	INTERGENIC	--	--	--
scaffold242_P3_793808	scaffold242	793808	TCCC/TCC	CCTTCTTTCTTAGGGT CCACC	TAGACACTGAACGCCA ATCG	60.3	320	INTERGENIC	--	--	--
scaffold242_P3_801056	scaffold242	801056	CTTTTTTTTTTT/CTTTTTTTTTTT	TATGCCGATTGGCGTT CTAT	TACCCTGTGGATGGGA ATGT	60.4	428	INTERGENIC	--	--	--
scaffold2421_P3_28988	scaffold2421	28988	AC/A	TGGGTGCACAAGATTG GTTA	AGGTCATTTTCGTCTT CCCT	60.0	365	INTERGENIC	--	--	--
scaffold2421_P3_59145	scaffold2421	59145	AC/A	GGAGGACGAAACTGAC CAAA	AACCAATCATGTGCAT CCAA	60.1	269	INTERGENIC	--	--	--
scaffold2421_P3_61209	scaffold2421	61209	A/AC	ATAGGCCTAGGGAGGA CGAA	TTCTTGTCGAATTACG GGTTTT	60.1	299	INTERGENIC	--	--	--
scaffold2433_P3_2074	scaffold2433	2074	AATATATAT/AATATAT	ACGATACGTTGTCGGC TAGG	TTGTGTCAAGCGGGAT CATA	60.2	432	URR	Ca_27860	--	--

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 (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
scaffold2434_P3_2639	scaffold2434	2639	CATA/CATATA	CATAATATGACCCGAAA CACAA	TGCAGTCAATCTTTAA AGGAAG	57.5	601	INTERGENIC	--	--	--
scaffold2434_P3_76263	scaffold2434	76263	TGG/TG	TTCTTCGTTTTGTAGTT GTACTCAATG	GGCAAACAAGAACCGA AAAC	60.0	638	INTERGENIC	--	--	--
scaffold2434_P3_76563	scaffold2434	76563	TAAAA/TAAAAA	TTCGGTTCTTGTTGCC TCT	CCTTTATCTTCTTG GCCG	59.9	382	INTERGENIC	--	--	--
scaffold2446_P3_7324	scaffold2446	7324	GAAGTAA/GAA	CCTCTGCGAAAAATAAC CTCA	TGCCCTTGTTTCAGT TCAA	59.3	392	INTERGENIC	--	--	--
scaffold2459_P3_66364	scaffold2459	66364	AA/AAGA	GTACCTCCGGCAAGAA TTGA	TTTTTGAATGGAAGAC GTTCCCT	60.1	437	INTERGENIC	--	--	--
scaffold2466_P3_8204	scaffold2466	8204	CT/CTT	CGATTGTGTTTGTACAA GGG	TCATTTTCGTCTCCAA AGG	60.0	769	INTERGENIC	--	--	--
scaffold2470_P3_7003	scaffold2470	7003	ACCC/ACC	GGTGGACGAAAATGAC CTTG	TTGTGCATGCAATACG TTGA	60.4	361	INTERGENIC	--	--	--
scaffold2473_P3_1706	scaffold2473	1706	TAGGTTTCTGATTTAAGGTTTCTGATT TAAGGTTTC/TAGGTTTCTGATTTAAGG TTTC	TTGGCCAGTATGATTC GACA	TATCCCGAAACCCATA ACCC	60.1	321	INTERGENIC	--	--	--
scaffold2489_P3_2070	scaffold2489	2070	CATA/CA	TTGGATGCACATGATT GGTT	CGTCCCCTCTTGGCTT ATT	59.8	214	INTERGENIC	--	--	--
scaffold249_P3_138913	scaffold249	138913	GT/GTT	GCCTAGGGAGGTCCTA AACG	CATTGGGTCATTTTC GTCC	60.1	319	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
scaffold249_P3_144782	scaffold249	144782	AAGG/AAGGTAAAAGAGG	TGGATGCTCAAGATTG GTGA	CATTTCGTCCTCCATA GGC	60.2	510	INTERGENIC	--	--	--
scaffold249_P3_145492	scaffold249	145492	TGG/TG	AGCCTAGGGAGGACGA AAAT	TTTTCATTGCGTCATT GGA	59.2	656	INTERGENIC	--	--	--
scaffold249_P3_73354	scaffold249	73354	AA/AATTGA	CAGCCAAAATAACTG CCAT	CTTTGTTGGTGCGTGT GTTC	60.0	422	INTERGENIC	--	--	--
scaffold2491_P3_6330	scaffold2491	6330	TTGTGT/TTGT	TCGAGGACCGAGAGAC ACTT	GCATTTTGGACCAGA CGAT	60.0	863	INTERGENIC	--	--	--
scaffold25_P3_51854	scaffold25	51854	AC/A	TCCGTCCTCCTAGGC TTAT	GGACCAAAATGACCCA AATG	60.1	388	INTERGENIC	--	--	--
scaffold25_P3_71208	scaffold25	71208	TGGG/TGTTGTCTAAAGGG	CATGCTTACCCTCTGG CCTA	TACCCTAGGACACCA CAGC	60.2	481	INTERGENIC	--	--	--
scaffold250_P3_30490	scaffold250	30490	CAATAATAACTAATAATAATA/CAATA ATAATA	CATGAGGTTCTCCAC ACCT	TTTTCCCTGCAACTC CATC	60.0	684	INTRON	Ca_27037	--	STAT
scaffold250_P3_82632	scaffold250	82632	AT/ATAATTTTCTT	CCGATCACTTTTTCCT TGA	GTGATGATAGCCCTCC TCCA	60.0	235	INTERGENIC	--	--	--
scaffold2501_P3_7458	scaffold2501	7458	TG/T	AACCGATCTTGTCGATC CAA	AGGGAGGACGAAAATG ACCT	60.5	373	INTERGENIC	--	--	--
scaffold2505_P3_1462	scaffold2505	1462	TCCC/TCCCC	ATTCCAAACCAAAACCC TCC	TTGCTCACTACCACGC TACG	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 (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
scaffold2505_P3_1793	scaffold2505	1793	TG/TGGAAGG	CGTTTCCACACAACCA CAAA	TTGCTCACTACCACGC TACG	60.4	112	INTERGENIC	--	--	--
scaffold2505_P3_823	scaffold2505	823	CAAA/CAA	GCTGAGTTTCTGCATG ACCA	GTGGTAATCGCGTTGA AGGT	60.0	506	INTERGENIC	--	--	--
scaffold2511_P3_1442	scaffold2511	1442	TTGTG/TTGTGTG	AAGCTTCAATGGCCAA AAGA	CCTGACAAGTTTCCTT GGGA	59.8	246	INTERGENIC	--	--	--
scaffold2511_P3_3313	scaffold2511	3313	GAAAAAA/GAAAAAAA	GAGGTTGGCCGAAGAC ATTA	GTAGTCGATGGTTGTG CAGC	60.1	263	INTERGENIC	--	--	--
scaffold2511_P3_7402	scaffold2511	7402	CT/C	TGTTGAAGAAGGTTTTG GGG	CCAATAACGATCAAGC AATCG	59.9	359	INTERGENIC	--	--	--
scaffold2516_P3_23314	scaffold2516	23314	C/CTCTGTCAAACCTCTTTATT	TCTTTGTGCAACCACCA TGT	GCATCATGAGTTTGAG GGGA	60.0	675	INTERGENIC	--	--	--
scaffold2521_P3_69232	scaffold2521	69232	AATATATATATATATATATATATAT A/AATATATATATATATATATATATAT ATATA	TTCTTCAACTGCTTTTG CGA	AACATGAAGCACTTTC GCGT	59.7	789	INTERGENIC	--	--	--
scaffold2522_P3_24043	scaffold2522	24043	ATTT/ATTTT	AGGTGTGTTTGTGCAT TGGA	AGGGAGGACGAAAATG ACCT	60.0	248	INTERGENIC	--	--	--
scaffold2528_P3_19502	scaffold2528	19502	GTTTTT/GTTTT	GTCTCTCGTTGGCTTA TTCA	GGACGAAAATGACCAA AAGG	60.1	488	INTERGENIC	--	--	--
scaffold2542_P3_2207	scaffold2542	2207	TAGGAG/TAG	TCATTGGACTTTTCGG GAG	TCAATTGGGTTTCAGG GTGT	60.0	816	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 (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
scaffold2542_P3_2722	scaffold2542	2722	GTATATATATATATATATATATAT/GT ATATATATATATATATATATAT	TTAAAGAGATTCGCAG CGGT	TGGGTGGGAGTAATT TTCG	60.0	324	INTERGENIC	--	--	--
scaffold2548_P3_1045	scaffold2548	1045	TTTCTT/TTT	AACAAAGGAACAAATG GCG	AGGGAGGACGAAAATG ACCT	60.0	485	INTERGENIC	--	--	--
scaffold255_P3_10897	scaffold255	10897	AATATATATATATATATA/AATATATA TATATATATATATA	CTTGGGAAGTGGAGAG CAAG	GTTGGTTCCTAGCAC CGTA	60.0	750	INTERGENIC	--	--	--
scaffold255_P3_37691	scaffold255	37691	ATTT/ATTTT	TACGGTGCTAGGGAAC CAAC	TGGTTTTACGCCAAC ATTA	60.0	575	INTERGENIC	--	--	--
scaffold2555_P3_44289	scaffold2555	44289	CT/CTT	CCAATCGATTATCGTG GGTC	GTTGCAGTCGATTGGG AAAT	60.2	417	INTERGENIC	--	--	--
scaffold2557_P3_40987	scaffold2557	40987	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	TCCAGTAGACGTTGAG CCATC	CACACCTGAATGTGCG AAAA	60.3	775	INTERGENIC	--	--	--
scaffold2557_P3_49964	scaffold2557	49964	AA/AATTA	CTTGGGCAACACCTC CTAA	TGCATTGGTATATGGA GGCT	60.1	907	INTERGENIC	--	--	--
scaffold2557_P3_59791	scaffold2557	59791	TTTATTATTATTATTATTATTATTAT T/TTTATTATTATTATTATTATTATTA TTATTATTATTATTATT	CACATGGAATCATCTC GTGG	CTAATTGCCAAAACG GAGG	59.9	698	INTERGENIC	--	--	--
scaffold2557_P3_61886	scaffold2557	61886	ATTTTT/ATTTTTTT	GCTAGAAATTCGCCA CACC	TCGGCAAAATATTAGG GACA	59.7	671	INTERGENIC	--	--	--
scaffold2557_P3_62144	scaffold2557	62144	AAATAATA/AAATAATAATA	AAGTGGTTTGTTTTGG CACA	TTCTTAATTTCGCCA TGC	59.1	558	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
scaffold2557_P3_631	scaffold2557	631	GTTCTGCTTCTGCTTCTGCTTCTGC/G TTCTGCTTCTGC	GCACTTTGGTCCCC TATT	GTGTGTTGGAATTGTT CCCC	60.2	670	INTERGENIC	--	--	--
scaffold2557_P3_79849	scaffold2557	79849	TTATATATATATATATATATATA/TTATA TATATATATATATATA	TTCATTAGGATTTTGT GCGG	TCAACAAGACGACGAG ATGC	60.0	586	INTERGENIC	--	--	--
scaffold256_P3_141631	scaffold256	141631	ATATATAT/ATATATATCTATATAT	ATTTTGGCTCGGAGGC TATT	TCCCTCCAACAAACA CACA	60.1	261	INTERGENIC	--	--	--
scaffold256_P3_141751	scaffold256	141751	GAAAGGAAAAACAAAGG/GAAAGGAAA AACAAAGGAAAAACAAAGG	TGTGTGTTTGTGTTGGA GGGA	CGTTTTCGGATCAAG AGGA	60.0	295	INTERGENIC	--	--	--
scaffold256_P3_43420	scaffold256	43420	ATTT/ATTTT	TCACCTATCACGGTCA AACA	TGTTTTGTCGTGAAA TTGG	60.0	621	INTERGENIC	--	--	--
scaffold256_P3_44521	scaffold256	44521	ATC/ATCTC	TAGGAGAAACGGAGGG GTTT	CTTGGGAGTTGGAGAG CAAG	59.9	694	DRR	Ca_28228	--	--
scaffold2560_P3_32023	scaffold2560	32023	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATAT	AGCCATAGCAAAGACG CAGT	AGCAGGTTTTTGATC ATGG	60.0	225	INTRON	Ca_27049	S	--
scaffold2560_P3_60629	scaffold2560	60629	T/TA	GGAGAACATTATCCGTT TTCCA	TCAAATTTATCCTCAC CCA	60.2	536	INTERGENIC	--	--	--
scaffold2560_P3_61168	scaffold2560	61168	ACACGCACGCAC/ACACGCACGCACG CACGCAC	GGGTGAGGATGAAATT TGAAGA	ATTTCGTTAGCACATTC GTCC	60.3	864	INTERGENIC	--	--	--
scaffold2574_P3_5499	scaffold2574	5499	GTT/GTTT	TAATGTTGGCGTGAAAA CCA	TCACGGGTCAGCACAA TTTA	60.0	421	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 (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
scaffold2575_P3_145628	scaffold2575	145628	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGAACCTGAAGGTCAA AGCA	GCGAGCTTAATTCAC TCCAA	59.4	487	INTERGENIC	--	--	--
scaffold2575_P3_196132	scaffold2575	196132	C/CA	ACTTTTCACCACATCCC TCG	ATCCATTCCCCACATT GAAA	60.0	347	INTERGENIC	--	--	--
scaffold2575_P3_239940	scaffold2575	239940	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	AACCATCACCAAGTGC ATGA	GGCGTGATTTGATTAG ATGCT	60.0	681	INTERGENIC	--	--	--
scaffold2575_P3_247902	scaffold2575	247902	G/GA	AGCCATAACTTGCTTGA GGC	CCATCCTCACGTGGTT TTCT	59.5	374	INTERGENIC	--	--	--
scaffold2575_P3_278639	scaffold2575	278639	ATTTT/ATTTT	TGGTGGCAAATGATGA AGAA	CGTGGTGCTAAGTCAA TCAA	60.0	330	INTERGENIC	--	--	--
scaffold2575_P3_279306	scaffold2575	279306	TAA/TA	TTTTTGTGGATGTAGT CCCTG	CATGAACATTTAAGAG TTTGCATT	59.0	583	INTERGENIC	--	--	--
scaffold2575_P3_280082	scaffold2575	280082	C/CATTGATA	TCCAAGGTATCATTGT CTCTT	TCGGAGTTTTGTGTGA GTGTG	59.0	316	INTERGENIC	--	--	--
scaffold2575_P3_280195	scaffold2575	280195	TTA/T	CACCTTTGTCCCTGAG CTGT	TCGGAGTTTTGTGTGA GTGTG	60.3	178	INTERGENIC	--	--	--
scaffold2575_P3_282023	scaffold2575	282023	CGAGAG/CGAG	GAACCCGCTAAACAT TTCA	TTCAATTGTCCATAAG CAGTCA	59.9	401	INTERGENIC	--	--	--
scaffold2594_P3_12905	scaffold2594	12905	CAAAAAAAAAAAAA/CAAAAAAAAAAAAA AA	CCTTGAACCGACACCC TAAA	TCGTCGAACAAGTGC TAAA	60.0	355	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
scaffold2594_P3_25571	scaffold2594	25571	CAAAAAAAAA/CAAAAAAAAAA	AAACCCAAATCTCGAAA CCC	TCGCCAATCAAGTGCA TAAG	60.2	780	INTERGENIC	--	--	--
scaffold2599_P3_1642	scaffold2599	1642	GGTGT/GGTGTGT	TCCTCCCCAGGCTTATT CTT	ATGGGATGCACAAGAT TGGT	60.0	559	INTERGENIC	--	--	--
scaffold26_P3_171958	scaffold26	171958	T/TA	ATTCCACGAGGTTGGA ACTG	TTTGGCCAGACCACT TTAC	60.0	423	INTERGENIC	--	--	--
scaffold26_P3_20504	scaffold26	20504	TC/TCAC	CTCCAGTCAAGCATT CCAT	GCAACACAGGAAGTGA GCAA	60.1	391	INTERGENIC	--	--	--
scaffold26_P3_327641	scaffold26	327641	CTATATATATATATATATA/CTATATA TATATATATATATA	GTGCGGCTCAAGTGTG AAAT	TCCCACTTCTTTGTG CTTT	61.2	421	INTERGENIC	--	--	--
scaffold26_P3_506230	scaffold26	506230	GTT/GTTT	ATTGGCGTGAAAACCG TTAG	TGACGGGTCTGCACAA TTTA	60.0	538	INTERGENIC	--	--	--
scaffold26_P3_541307	scaffold26	541307	AATATATATATATATATATATATATAT ATATATATATATAT/AATATATATATATA TATATATATATATATATATATATATAT ATAT	GGTAACCAATCCGAAG ACGA	TCCCCATTTTATTCT CCC	59.9	850	INTERGENIC	--	--	--
scaffold26_P3_553328	scaffold26	553328	AT/ATTATTATTATTCT	TTTGTTCGTGGACTC ACTC	GGGCAGCACTGAAGT GAAT	59.9	417	INTERGENIC	--	--	--
scaffold26_P3_84614	scaffold26	84614	CATATATATATATA/CATATATATATATA TA	TACAGAAACGGAGGG TTTG	GGAGGCTTTTAGGCCA AAGT	60.0	559	INTERGENIC	--	--	--
scaffold260_P3_121195	scaffold260	121195	AG/A	GCCCTCAGATGAGAGT CAGG	TACCCCGCCAAAATAT GTGT	59.9	880	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 (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
scaffold260_P3_1842	scaffold260	1842	TAAA/TAA	AATGCACTCCAGGACC AAAC	CCTTCTTCAGCCGTAT CAGC	60.0	547	INTERGENIC	--	--	--
scaffold260_P3_213529	scaffold260	213529	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATAT	CGTAGTGTGGAGGTGA GCAA	CCAACAGCTCTTTTGG ACCC	59.9	778	INTERGENIC	--	--	--
scaffold260_P3_275666	scaffold260	275666	CAAAAAAAAA/CAAAAAAAAAA	CAAGTGCCCGCTAAT TAA	GTTTAAGCCCTTTGA GCCT	60.1	396	INTERGENIC	--	--	--
scaffold260_P3_341696	scaffold260	341696	AT/ATGT	AGGAAGAGTGGAGTTG CGAA	GCATTGAGCAGCAAAA ACAA	60.0	670	INTERGENIC	--	--	--
scaffold260_P3_413792	scaffold260	413792	A/AG	TATTTTGGATTTTGCT CGG	AAAATCTCTGCTCGCG ATGT	59.9	668	INTERGENIC	--	--	--
scaffold260_P3_417517	scaffold260	417517	GAAA/GAAAAA	AGGTGGGTTGAGTTGT CAGG	GTTATTCATAGCCTCC GCCA	60.0	194	INTERGENIC	--	--	--
scaffold260_P3_86017	scaffold260	86017	TTATATATATATATATATATA/TTATATA TATATATATATATA	CATATGCCAATTGAGTT GCG	ACATGGCAAGGAGCAA CTTT	60.1	322	INTERGENIC	--	--	--
scaffold2600_P3_14055	scaffold2600	14055	A/AC	GCAGAGTCTTGGCGGT AGTC	ACCCAATTACTGGAGA TGCG	60.0	783	INTERGENIC	--	--	--
scaffold2603_P3_6448	scaffold2603	6448	ATCATAAGTGAT/A	AGCAGCTTCAAGCAAA GCTC	TGAACCAAGTCCAATTC AACAGT	60.0	485	INTERGENIC	--	--	--
scaffold2603_P3_6501	scaffold2603	6501	CCA/CCACA	AGCAGCTTCAAGCAAA GCTC	TGAACCAAGTCCAATTC AACAGT	60.0	485	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2617_P3_32144 1	scaffold2617	321441	ATTTTTTTT/ATTTTTTTTT	TGCTCCTTTTCCCCTCT TTC	TTATGTGCGCATGACC AATC	60.7	542	DRR	Ca_21883	--	WRKY
scaffold2617_P3_32182 5	scaffold2617	321825	TAAAAA/TAAAAA	TTGGTCATGCGCACAT AATA	GATGGCTGTGTGCGGA GACTT	58.6	529	DRR	Ca_21883	--	WRKY
scaffold2617_P3_32203 9	scaffold2617	322039	TAAAAA/TAAAAA	TTGGTCATGCGCACAT AATA	CTTCCTGCTGAGTAG TCGG	58.6	678	DRR	Ca_21883	--	WRKY
scaffold2617_P3_32449 7	scaffold2617	324497	TGTG/T	AAACAAGTTGGTGGTG GAGC	AAAGTTAATTCAAATGC ACTGTCA	60.0	290	INTERGENIC	--	--	--
scaffold2617_P3_37143 1	scaffold2617	371431	GA/G	TATCTTGGATTTTGGCT CGG	AGGAAGCAACGAAAC GAGA	60.0	467	INTERGENIC	--	--	--
scaffold2617_P3_40248 3	scaffold2617	402483	GAA/GAAA	GTTGCAAGGGTGGAGT GATT	AACAATTGTGAAACGT CTCCG	60.0	640	INTERGENIC	--	--	--
scaffold2617_P3_40251 9	scaffold2617	402519	TG/T	GTTGCAAGGGTGGAGT GATT	AACAATTGTGAAACGT CTCCG	60.0	640	INTERGENIC	--	--	--
scaffold2617_P3_40258 4	scaffold2617	402584	AAATAATAATAATAATAATAAT AATAATAATAATAATAAAGTAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATA	GTTGCAAGGGTGGAGT GATT	AACAATTGTGAAACGT CTCCG	60.0	640	INTERGENIC	--	--	--
scaffold2617_P3_40277 7	scaffold2617	402777	ATTTTTTT/ATTTTTTTTT	GTTGCAAGGGTGGAGT GATT	AACAATTGTGAAACGT CTCCG	60.0	640	INTERGENIC	--	--	--
scaffold2617_P3_66093	scaffold2617	66093	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATATA TATAT	GACCCAACCATGTGGA GTTT	GGTGAGTGATCGCATC CTTT	59.7	594	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 (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
scaffold2620_P3_33448	scaffold2620	33448	GTTTT/GTTTTT	TTAACCGATCTTGTGCA TCG	AGGGAGGACGAAAATG ACCT	59.7	470	INTERGENIC	--	--	--
scaffold2624_P3_18225	scaffold2624	18225	AT/A	TGTGATTGGGTCATTG GATG	AGGGAGGACGAAAATG ACCT	60.2	247	INTERGENIC	--	--	--
scaffold263_P3_159249	scaffold263	159249	GTTTT/GTTTTT	TTGATCCTTGCAGTCAC TCG	TGGCACTCCGATTAAC ATGA	60.0	820	INTERGENIC	--	--	--
scaffold263_P3_184255	scaffold263	184255	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT	ATGTGACACCCTAAAC CCCA	CCGAGCCAAATCCAA AATA	60.1	486	INTERGENIC	--	--	--
scaffold2632_P3_745	scaffold2632	745	TAAAAA/TAAAAA	AGGGTACTACAGTGC CCCT	TCGGTAACCAATCCGA AGAC	60.2	421	INTERGENIC	--	--	--
scaffold2653_P3_5698	scaffold2653	5698	AATTATTAT/AATTATTATTAT	GTGAATCGTCGGGTTT CATT	TTAAGGTGGAGGTGGA GGTG	59.8	214	INTERGENIC	--	--	--
scaffold2660_P3_12451	scaffold2660	12451	TAAAA/TAAAAA	CCTAGGGACGACGAAA ATGA	TGCATCCAACAGGTGT GTTT	60.1	462	INTERGENIC	--	--	--
scaffold2662_P3_10211	scaffold2662	10211	AAATAATAATAATAATAATAATAAT AAT/AAATAATAATAATAATAATAAT AATAATAAT	TTGCTCCTACGTATCTC CCG	TTCTTTTCGCTATTTTA TTTTCGTG	60.2	699	INTERGENIC	--	--	--
scaffold2662_P3_1313	scaffold2662	1313	T/TC	TGCACCTTGCAACATC TCA	TGGCTATTGATTATCC CATTTTG	60.0	866	INTERGENIC	--	--	--
scaffold2662_P3_26227	scaffold2662	26227	TT/TATTTCT	AACACCATGAAACGCT CCTC	CGAAGCCGAGAAAATG ACTC	60.1	589	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
scaffold2662_P3_31062	scaffold2662	31062	TAA/TA	AGAGGATGCGGATCAA TGTC	GGACAACCTGGGAAAA GTGA	60.0	898	INTERGENIC	--	--	--
scaffold2662_P3_32730	scaffold2662	32730	AAA/AAATAA	CAAATTCTCCAAGTGA TTGGT	TAGTCGGCCACAAGAA GACA	60.2	411	DRR	Ca_27470	--	--
scaffold2662_P3_40024	scaffold2662	40024	ATTTTTTTTTTTTT/ATTTTTTTTTTT	TGACCAAGACGTTCTCT CCA	ACGCTCTCCCACTGA GCTA	59.4	828	INTERGENIC	--	--	--
scaffold2662_P3_43828	scaffold2662	43828	CNNNNNNNNN/CNNNNNNNN	TCACGGGTCAACACGA TTTA	TGCCATGTGATTGTGT GGTT	60.0	103	INTERGENIC	--	--	--
scaffold2669_P3_12356	scaffold2669	12356	A/AC	CCTTAAATGTTCGCCAT GCT	CCATCAGAGCGTGAGA TTGA	60.1	546	INTERGENIC	--	--	--
scaffold2669_P3_16328	scaffold2669	16328	AATATTGATTTGAT/AATATTGAT	TTTTAGGCGATTCTACG TGC	TTGAGGGGTGGCAAGT TTAG	58.1	641	INTERGENIC	--	--	--
scaffold2670_P3_67030	scaffold2670	67030	A/AG	AGCCCAAGGAGGATGA AAAT	CCGTCCTCCCTAGGCA TATT	59.9	563	INTERGENIC	--	--	--
scaffold2678_P3_3506	scaffold2678	3506	AATATATATATATATATATATATAT ATATATATATATATAT/AATATATATA TATATATATATATATATATATATAT	GTCTTCACCAACCACC GTCT	CCATGCGTTTCAATTC TCCT	60.0	458	INTERGENIC	--	--	--
scaffold269_P3_3682	scaffold269	3682	TTATA/TTA	GCAAAACAATGAGCAA GCAA	TACCCTGTGGATGGGA ATGT	60.0	449	INTERGENIC	--	--	--
scaffold2692_P3_13450	scaffold2692	13450	GGTTAAGTT/GGTT	TTCAGAAAAACCGCCAT ACC	CCCTCTAAGCCCCAG GTTA	59.9	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 (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
scaffold2692_P3_1438	scaffold2692	1438	AAAAATATTATCAAAATATTAT/AAAAAT ATTAT	CCCTCAAGTCAAAACATA GGCA	AAGGAAATCCGAGTCT GCAA	60.1	511	INTERGENIC	--	--	--
scaffold2692_P3_14565	scaffold2692	14565	ATTTTTTT/ATTTTTTTT	ACCTGTCAAAGTTTTT AAGCA	TCCTTCACCAACCAAA CAAA	58.9	420	INTERGENIC	--	--	--
scaffold2692_P3_14759	scaffold2692	14759	ATTTTTTT/ATTTTTT	ACCTGTCAAAGTTTTT AAGCA	TTTCCTTCACCAACCA ACA	58.9	422	INTERGENIC	--	--	--
scaffold271_P3_205973	scaffold271	205973	GAA/GA	GCACCGTGAGTAAAT CGGT	TATTTTGGATTTTGGCT CGG	60.0	692	DRR	Ca_25334	--	--
scaffold271_P3_267926	scaffold271	267926	GATATATATATATATATATAT/GATAT ATATATATATATATAT	GGGGTGCTCAACTTGT TTGT	GGCCAAGGTAAGGT GAGAT	60.0	223	INTERGENIC	--	--	--
scaffold271_P3_57742	scaffold271	57742	TGAGATGATTAG/TG	TGGGGTGTTTCATAGC ATCA	TTTCATCCCATGCATCA GAAA	59.9	444	INTERGENIC	--	--	--
scaffold271_P3_82894	scaffold271	82894	CAA/CA	GATCCCCATTCTTAAC GCC	GGTAAGGGCTCCTTCC AAAC	60.6	763	INTERGENIC	--	--	--
scaffold2720_P3_128510	scaffold2720	128510	TAAAAA/TAAAAAA	GGGTAGGCCATTTTGG GATA	TATGGCCTGGCCTACT TACG	60.9	706	INTERGENIC	--	--	--
scaffold2720_P3_77306	scaffold2720	77306	TAAAAA/TAAAAA	GGATTGGGAGTCGAT TACA	TTATTCACCGTCGTG TCCA	59.9	499	INTERGENIC	--	--	--
scaffold2722_P3_29007	scaffold2722	29007	TTATATATATATATA/TTATATATATATA TATA	TGATCATGGAGGAGGA TTTGA	ATCCTCTGAGATGCC ACAC	60.4	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 (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
scaffold2722_P3_69525	scaffold2722	69525	ATTTTTTT/ATTTTTT	TCACGTGAGTGGTGTG AACT	AAAAACTGATGGATTG GTCAAAA	57.6	424	INTERGENIC	--	--	--
scaffold2722_P3_71728	scaffold2722	71728	TA/T	CAACGGTACACAAAGT GGAAAA	ATAGCGACCGTAAAC ACCG	59.9	441	INTERGENIC	--	--	--
scaffold2722_P3_79440	scaffold2722	79440	ATTTTTTTTTT/ATTTTTTTTT	CATTGTCCAGACACCA CGAC	AAAGGTCTAATGGCCA CCAA	60.0	708	INTERGENIC	--	--	--
scaffold2726_P3_4506	scaffold2726	4506	G/GA	CAAACACCCCTATTGG ATGC	AGGTCATTTTCGTCCT CCCT	60.2	380	INTERGENIC	--	--	--
scaffold2728_P3_11268	scaffold2728	11268	ATTTTTTTTTT/ATTTTTTTTTT	TGGCATCCGAGTCTA TTTT	TGATAACATGATTTC CGTCA	59.5	603	INTERGENIC	--	--	--
scaffold2729_P3_5336	scaffold2729	5336	AAAA/AAAACAAA	CAATGCCACACATTTA ACGA	AATTGTGTTTCGAGTT CCGC	59.5	787	INTERGENIC	--	--	--
scaffold273_P3_209660	scaffold273	209660	AATTATTAT/AATTATTATTATTAT	GAAGCCCCACCAATAA CTGA	CAGATGATATGGACCC CCAC	59.9	578	DRR	Ca_26228	--	--
scaffold2734_P3_117916	scaffold2734	117916	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TTGTCTTGACGGGA TTCA	TGCAAAAGCTTCGAAT GATG	60.1	651	INTERGENIC	--	--	--
scaffold2734_P3_606	scaffold2734	606	TGCAAG/TGCAAGCAAG	TTTCTTTTCCCTCCAA GCA	GGGGGAGAGAACAAAT CCAT	59.8	550	INTERGENIC	--	--	--
scaffold2736_P3_3536	scaffold2736	3536	GAAAAA/GAAAAA	TTCAAGGAAATGCC AGTC	TGTTTGCACACACA ACAA	60.1	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 (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
scaffold2737_P3_9534	scaffold2737	9534	TAA/TAA	TCTTCGTTTACGGTTT TATTCA	AACATATAACAAAATTG AGTTGTCAAA	59.2	419	INTERGENIC	--	--	--
scaffold2738_P3_30876	scaffold2738	30876	TA/T	TTGTCCCAAGCAACA ATTA	AAACGCAATCCTTGAG TTCG	59.0	645	INTERGENIC	--	--	--
scaffold2738_P3_31131	scaffold2738	31131	TTTCTTTCTTTCTTTCTTTCTT/TTTC TTTCTTCTTTCTTTCTTTCTTTCTT	TCCTAGAACATGCATCA CGC	AAACGCAATCCTTGAG TTCG	59.8	379	INTERGENIC	--	--	--
scaffold2744_P3_65445	scaffold2744	65445	CAATCGATTTC/CAATCGATTCCAAA TCGATTTC	GTAAGGGTCACCAAC CGAA	ACCCAATTGTCGTGG TGAT	59.8	544	INTERGENIC	--	--	--
scaffold2748_P3_26063	scaffold2748	26063	GA/G	CAAGTCTCCCAACTTC CAA	GCCCAACTCCAAGTG TAAA	60.1	375	DRR	Ca_28188	--	--
scaffold2748_P3_26427	scaffold2748	26427	TCC/TC	TTTACCACCTGGAGTTG GGC	TAACCCTTTGCTAGCC CCTT	60.0	431	DRR	Ca_28188	--	--
scaffold2748_P3_27802	scaffold2748	27802	TCA/TCACA	TCTCGTTTAGATCGTCC GCT	TGGAATTCTTCTCCAAT GCC	60.0	551	INTRON	Ca_28188	--	--
scaffold275_P3_114981	scaffold275	114981	ATTTTTTTTT/ATTTTTTTTT	TAATTGCAGTTTGGTC CCC	TTGTTTCTCCCAAGTTT TGG	59.8	261	DRR	Ca_23457	--	--
scaffold275_P3_119250	scaffold275	119250	AATATATATATATATATATAT/AATAT ATATATATATATATATATATAT	TATTTTGGGATTTTGGC TCG	GTTTTCGAATCAACGA GGGA	59.9	528	INTERGENIC	--	--	--
scaffold275_P3_147158	scaffold275	147158	AG/A	GGAGCAAACGGAAGGT ATGA	ACATGAGTCTTTGTG CCCC	60.1	331	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_P3_162362	scaffold275	162362	TG/TGG	CGAAGCACAGGAGAT GACA	GTTTGGGCAATCTGC TTTA	60.0	762	INTERGENIC	--	--	--
scaffold275_P3_335898	scaffold275	335898	TAAAA/TAAA	CGTCCCAAAATAACGAA ACC	CGAAGTTTGAATGTCA CCAAAA	59.3	466	INTERGENIC	--	--	--
scaffold275_P3_355509	scaffold275	355509	GAAAAAA/GAAAAAA	GCTTAGGCAGCCACAA AATC	TTGCCCTTGATATAA CTCA	59.9	510	INTERGENIC	--	--	--
scaffold275_P3_377072	scaffold275	377072	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TCAAGATACCCAGTGC ACCA	AGCGACATGTGAACAA CAGC	60.1	551	INTERGENIC	--	--	--
scaffold275_P3_377587	scaffold275	377587	TAAAA/TAAAA	GCTGTTGTTACATGTC GCT	CAATCCACAGGTAC GCTT	59.9	485	INTERGENIC	--	--	--
scaffold275_P3_781326	scaffold275	781326	GA/GACCTAA	GACGAAAATGGCCAAA ATGT	TTTGTGACGTTGGAGG AACA	59.8	328	INTERGENIC	--	--	--
scaffold275_P3_806	scaffold275	806	GCCC/GCC	GGTGGGAAGCTGTTTC ATGT	AGCTGAGGCCTTTGAA GACA	60.0	539	INTERGENIC	--	--	--
scaffold276_P3_37151	scaffold276	37151	A/AT	CGACCTCGAAATAATC GGAA	TGAGAGCGCTCAACAA GAAA	60.0	500	INTERGENIC	--	--	--
scaffold276_P3_1741	scaffold276	1741	GTTTTTTTT/GTTTTTTTT	TCGATTCTCTCAATG TCG	TTTTAGTGACCGAAT CCGC	59.9	795	INTERGENIC	--	--	--
scaffold276_P3_183619	scaffold276	183619	TC/TCC	GCACTGAAAGCAACAA CCAA	ACCAGGTTATGAATAG CCGC	59.9	422	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 (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
scaffold2763_P3_3532	scaffold2763	3532	ATTTTTTTT/ATTTTTTTT	ATGAGGGTCAACGTTCAAGGT	TTTGTTCCTCCACTTTATGGC	59.4	889	INTRON	Ca_24392	--	WRKY
scaffold2763_P3_62838	scaffold2763	62838	TAAAAAAA/TAAAAAA	TGACAATAGCTCCATATCTTTGTTG	TGTAAATGGCATAAATATTCTTGTA	59.6	577	INTRON	Ca_24398	--	bHLH
scaffold2763_P3_9760	scaffold2763	9760	C/CCTCACG	ATGCCAGTCGTTATTCCAG	GAGATGCCATTGAAGCATT	60.0	400	CDS (large-effect mutations)	Ca_24393	R	--
scaffold277_P3_185142	scaffold277	185142	G/GA	GTGAATCCCAAGTTTGTGGC	TTAGAAAAACGGGGTGTTCG	60.4	336	INTERGENIC	--	--	--
scaffold277_P3_205504	scaffold277	205504	TTATATATATATATATATAT/TGATATATATATATATATATATATATATAT	GGTTTAGGTGTGGGAGTTGA	TGATACAAGGTTCAACCGCA	59.8	444	DRR	Ca_25752	--	--
scaffold277_P3_252454	scaffold277	252454	CTCTT/CT	CCCATTGCATTGCCTCTAT	TAAAGGACCATGTCGGGAAG	59.9	329	INTERGENIC	--	--	--
scaffold277_P3_4447	scaffold277	4447	TACTGA/TA	TAAAGGAGCATCCGTGGAAT	TGCATGTATCATAGACCGCC	59.5	472	INTERGENIC	--	--	--
scaffold277_P3_4542	scaffold277	4542	AATATATATATATATATA/AATATATATATATATATA	TAAAGGAGCATCCGTGGAAT	TGCATGTATCATAGACCGCC	59.5	472	INTERGENIC	--	--	--
scaffold277_P3_4861	scaffold277	4861	AATATATAT/AATATAT	TGGAGAAACCTTGTAACCA	GAAACGGAAGGGGAACAAT	59.1	316	INTERGENIC	--	--	--
scaffold2777_P3_2240	scaffold2777	2240	ATT/ATT	GACTTTTGCACCTTATTGACGA	CATTGCGGTTCAAATCCAT	59.3	653	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PfII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold2777_P3_4052	scaffold2777	4052	GTTAAC/G	CATTGATTAAGAACGCA AATGG	AGTTGGTCCCAAAGT GCAA	59.5	199	INTERGENIC	--	--	--
scaffold2777_P3_5289	scaffold2777	5289	TTATATATATATATATATATATATATA TATATATATATATAT/TTATATATATATA TATATATATATATATATATATATATAT ATATATATATAT	CAATTGAGTTGCGACG AGAG	GTGACGTCGCTTCGAA AAAT	59.6	411	INTERGENIC	--	--	--
scaffold2779_P3_6967	scaffold2779	6967	GT/GTG GTT	AGGTCATTTTCGTCCT CCT	TCGAAATGTT CATCCA ACGA	59.9	498	INTERGENIC	--	--	--
scaffold2782_P3_6224	scaffold2782	6224	AGG/AGGG	CTTTTCGGGCGATTTTC ATA	GATGAAATCGAGGACT GGGA	60.0	483	INTERGENIC	--	--	--
scaffold280_P3_107582	scaffold280	107582	C/CCTCTTGGG	AGCTCTGCTCAAGCA G TTC	AAAATGACCCCTGAT TTCC	59.9	653	INTERGENIC	--	--	--
scaffold280_P3_115143	scaffold280	115143	AGGA/AGGACTATCTCCGGTGA	CTAGCAGACTTG TCCC TCCG	TGACGCCAAAAGCTTAC ATCG	60.0	391	INTERGENIC	--	--	--
scaffold280_P3_118374	scaffold280	118374	TA/TAA	AAACGCATTGGCTTTCA ATC	AACA AATTGGAACCGC TCAC	60.1	567	INTERGENIC	--	--	--
scaffold280_P3_121637	scaffold280	121637	CCCTAAAACCTAAAACCTAAAACCTAA AACATAAAACCTAAA/CCCTAAAACCTA AAACCTAAAACCTAAAACCTAAAACAT AAAACCTAAA	CCGAAACGCATAACAC AAAA	TCGGGTATATG GTTAA GGGTC	59.6	378	INTERGENIC	--	--	--
scaffold280_P3_128741	scaffold280	128741	CAA/CAAA	ATTCCAAACCA AACCC TCC	TGATTTTGGGGG AAAA TGAA	60.0	943	INTERGENIC	--	--	--
scaffold280_P3_266426	scaffold280	266426	TAAC/T	TCTTCGTTATGCAGTCA AACCT	CGGAACCCGAAACAAA GT TA	58.9	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold280_P3_302193	scaffold280	302193	CAA/CAAA	TCACCTATCACGGGTC AACA	TCATCGTATTTCGCGT GTTC	60.0	593	INTERGENIC	--	--	--
scaffold280_P3_322801	scaffold280	322801	A/AGAT	GATGACCGGGAAACCC TTAT	AAATCCGACACGGAAC TCAC	60.0	720	INTERGENIC	--	--	--
scaffold280_P3_378566	scaffold280	378566	ATTTTT/ATTTTTTT	ATGACGAAGCTGCTGG AGTT	AATCTCCCCTGAGTT TTGG	60.0	793	INTERGENIC	--	--	--
scaffold280_P3_5053	scaffold280	5053	GACCCTTAACC/GACCCTTAACCCTTA ACC	TCCTAAACCAAAACATC GAAGA	CGGGGTTATGGTTAAG GGTT	58.7	516	INTERGENIC	--	--	--
scaffold280_P3_52649	scaffold280	52649	CTCAAT/CTCAATTGATTATCAAT	TGGTCATGCAGAACT CAGC	ACTCTCATCTGAGGC GAAG	60.0	330	INTERGENIC	--	--	--
scaffold280_P3_83790	scaffold280	83790	ACCTAAACCTAAA/ACCTAAACCTAA ACCCTAAACCTAAA	CCAAAAACCAAAACCA AAAA	TCAAGCTATTAGTGCA AAAGAGTCA	58.9	532	INTERGENIC	--	--	--
scaffold280_P3_97638	scaffold280	97638	ACC/ACCCCCC	TGCGAATTTATTTCTTC CCG	GCTCACTAACTCTGCC TGGG	60.0	559	INTERGENIC	--	--	--
scaffold280_P3_98151	scaffold280	98151	CGGGG/CGGGGGG	CCCAGGCAGAGTTAGT GAGC	TCATAACGCACTCTTC GCAC	60.0	513	INTERGENIC	--	--	--
scaffold281_P3_1263	scaffold281	1263	CA/CAATTAA	TGTTTCGACACTCAGTCT TACGG	TGCATGCCCTTTGATT TACA	60.3	287	INTERGENIC	--	--	--
scaffold281_P3_1388	scaffold281	1388	GAAAAAAAAA/GAAAAAAAAA	TGTTTCGACACTCAGTCT TACGG	TGCATGCCCTTTGATT TACA	60.3	287	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
scaffold281_P3_1467	scaffold281	1467	GGCATGCATG/GGCATG	TGTTTCGACACTCAGTCT TACGG	ATCGGAAAAGTGACAT TGGG	60.3	515	INTERGENIC	--	--	--
scaffold281_P3_2224	scaffold281	2224	CT/C	TGGGCAGATTTGTAAC ACGA	GCGAAACCCGATTCTA TTGT	60.1	593	INTERGENIC	--	--	--
scaffold281_P3_3002	scaffold281	3002	TAAAA/TAAAAA	ACAATAGAATCGGTTT CGC	AGGACTATTTTGGTC TCCCA	59.0	623	INTERGENIC	--	--	--
scaffold281_P3_3090	scaffold281	3090	AATATATATATAT/AATATATATAT	ACAATAGAATCGGTTT CGC	AGGACTATTTTGGTC TCCCA	59.0	623	INTERGENIC	--	--	--
scaffold281_P3_3310	scaffold281	3310	GAA/GAATAAA	AGACATTGCTCTTTCG GTCAA	CGTTGACCATTTTAAG CTTGG	59.9	911	INTERGENIC	--	--	--
scaffold281_P3_3414	scaffold281	3414	GAAAAGAAAA/GAAAAGAAAAAGAAAA	TGGGAGACCAAAAATA GTCCT	CGTTGACCATTTTAAG CTTGG	57.7	534	INTERGENIC	--	--	--
scaffold281_P3_3735	scaffold281	3735	A/AATT	TGGGAGACCAAAAATA GTCCT	CAAGAGGGGTTGCAAG TGTT	57.7	648	INTERGENIC	--	--	--
scaffold281_P3_4125	scaffold281	4125	TGG/TG	AACACTTGCAACCCCT CTTG	ATGATGATTTTCTCCC CGTG	60.1	595	INTERGENIC	--	--	--
scaffold281_P3_4227	scaffold281	4227	AG/AGGAATTATG	AACACTTGCAACCCCT CTTG	ATGATGATTTTCTCCC CGTG	60.1	595	INTERGENIC	--	--	--
scaffold281_P3_4869	scaffold281	4869	TGCCGGCCG/TGCCG	ACACGGGGAGAAAATC ATCA	GACGCGCTATAGAACT TCGC	60.3	711	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 (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
scaffold281_P3_5058	scaffold281	5058	TATAAT/TAT	CAATTGCAGTCAGTT GTGC	GACGCGCTATAGAACT TCGC	60.3	297	INTERGENIC	--	--	--
scaffold2812_P3_16756	scaffold2812	16756	TAAAAA/TAAAAAA	CAATTGTTGTTGTTGAC ATTTGG	GGTTGATGCGTCAATG TTGT	60.2	871	INTERGENIC	--	--	--
scaffold2812_P3_43005	scaffold2812	43005	TTATATATATATATATATAT/TTATAT ATATATATATATATATAT	TCACACGAGAATCATGT CAAG	TTGCGAATTGTTTGC AAGT	57.2	837	INTERGENIC	--	--	--
scaffold2812_P3_58880	scaffold2812	58880	TAAAAA/TAAAAAA	TTGCTCCCAAAACAAG CTCT	TACTTTGTGGCTGTTT CCCC	60.0	672	INTERGENIC	--	--	--
scaffold2812_P3_65938	scaffold2812	65938	CAACTTA/CAACTTA	AAGCTTCAACACCGCA ATCT	TGAAGATAAGCAATC CCCC	59.9	374	INTRON	Ca_26645	--	TALE
scaffold2815_P3_71273	scaffold2815	71273	TC/T	CGGTGCTAGTGGACCA ATTT	GTTATTCATAGCCTCC GCCA	60.0	576	INTERGENIC	--	--	--
scaffold282_P3_6259	scaffold282	6259	C/CTCTTCCCTCTTCT	TTCCAAATGGAAGCCT CATC	TGTGGATCCCTTGTT TAGG	60.0	685	INTERGENIC	--	--	--
scaffold283_P3_91241	scaffold283	91241	A/AG	AAAGTTTGA	TCATTGAGTACA	58.1	389	INTERGENIC	--	--	--
scaffold2837_P3_61700	scaffold2837	61700	A/AG	GACCTTGTGGATGGCA GTTT	GGGGATTGTTGGAAT GATG	60.0	373	INTERGENIC	--	--	--
scaffold284_P3_207539	scaffold284	207539	CGG/CG	GGAGGGTTTGGTTTG GAAT	CAAGGCTGTTTCAGCA TTCA	60.0	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 (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
scaffold284_P3_21461	scaffold284	21461	AT/A	AATGTTGTGGTTGGGT TGGT	ACAAGGCTAACTCAAG GCCA	60.0	517	INTERGENIC	--	--	--
scaffold284_P3_265251	scaffold284	265251	A/ACTGTAG	GACTGTGATGGGCAAC AATG	CAATTCTGCACGATT CAAA	60.0	529	INTERGENIC	--	--	--
scaffold284_P3_301159	scaffold284	301159	GACAACAACAACAACAAC/GACAA CAACAACAACAACAAC	CGACCGCATAAACCA CATA	CTTCAAACTTGTGTC GTGC	59.4	390	INTERGENIC	--	--	--
scaffold284_P3_3250	scaffold284	3250	AGAATGAATGAATGAA/AGAATGAATG AATGAATGAA	TCACAATGGGCACAAG AAAA	TTTCCCATGCAACTTG AACA	60.1	146	INTERGENIC	--	--	--
scaffold284_P3_334885	scaffold284	334885	ATTTTT/ATTTTTTT	TCCTCATACCAATCCA CATT	TTGAGAATAAGAGGCG TCGAT	58.3	742	INTERGENIC	--	--	--
scaffold284_P3_40796	scaffold284	40796	TA/T	TCCTGCACCTGAATGG ACAG	TTGGGTTTTCTTTCAA CGG	59.8	693	INTERGENIC	--	--	--
scaffold284_P3_427221	scaffold284	427221	CATATATATATATATATATATATATA/ CATATATATATATATATATATATATATA	TTGGAAGGAGCCCTTA CCTT	TATCTGCCAATTGAGT TGCG	60.1	601	INTERGENIC	--	--	--
scaffold284_P3_428305	scaffold284	428305	CTATTATTATTATT/CTATTATTATT ATTATTATT	TGTTGTTTACACACTT AAGATGAAGA	GTCGCGTCTCCATT CATT	58.5	361	INTERGENIC	--	--	--
scaffold284_P3_4461	scaffold284	4461	CTCATCATCATCATCA/CTCCTCCT CCTCCTCATCATCATCATCATCA	TACGATGATGAACAGT CGGC	TTGGTTTCAAGACCTG CATCT	59.7	424	INTERGENIC	--	--	--
scaffold284_P3_477291	scaffold284	477291	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA/AAATA ATAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAA	TTTATGTGCCCTTGACC GAT	GTTTGGCGTTGGTTT CACT	60.3	847	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 (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
scaffold284_P3_488247	scaffold284	488247	GTATATATATATATATATATATATAT AT/GTATATATATATATATATATATAT ATATATATATAT	AGGCAATTTTTCACGAC CAC	CGCTCAAAACAAAGAA AGGG	60.0	441	INTERGENIC	--	--	--
scaffold284_P3_623446	scaffold284	623446	CTATATATATATATATATAT/CTATATAT ATATATATAT	TAGAAGAAGAAAACGG GCGA	GTGGTTTGGAAAGTGA TGGG	60.0	401	INTERGENIC	--	--	--
scaffold284_P3_702931	scaffold284	702931	ATTTTTTTTT/ATTTTTTTT	CATTTTGCCTCTATCT GCCA	TTTGCATGCTTGATC GTTA	60.2	766	INTERGENIC	--	--	--
scaffold284_P3_803522	scaffold284	803522	ATTT/ATTTT	TTTGTTTGACTGGCT TGG	AGAATCGACATTCGAC CCAC	59.7	324	INTERGENIC	--	--	--
scaffold2848_P3_2441	scaffold2848	2441	GCTCCTCT/GCTCCT	AAGGCAGCAGACCTCA AAAA	GCACACGACCTTCTCG TACA	60.0	449	CDS (large-effect mutations)	Ca_27862	--	--
scaffold2853_P3_11764	scaffold2853	11764	TTTTAGGGTTT/TTTTAGGGTTTAGGGT TT	TTTCGGGTTTATGGTT AGGG	GGGTGCATTTTACAGC GTTT	60.1	520	INTERGENIC	--	--	--
scaffold2853_P3_17987	scaffold2853	17987	T/TCATATCTAGTC	TTAGGGTTTAGGGTTT CGGG	GCACTTATTCGACAAA CTGCAT	60.2	427	URR	Ca_28160	--	--
scaffold2853_P3_18313	scaffold2853	18313	TGTTTAGGGTTTAGGGTTTAGGGTTTA GGGTTTAGG/TGTTTAGGGTTTAGGGT TTAGGGTTTAGG	GCAGTTTGTGCAATAA GTGCAT	ACCATAAACCCGAACC ACAA	59.3	339	URR	Ca_28160	--	--
scaffold2853_P3_21376	scaffold2853	21376	A/AGTTTAGG	CGTCGCATACGTGCAT AAGT	ACCCTAAACCCAAGCC CTAA	59.8	391	INTERGENIC	--	--	--
scaffold2853_P3_6530	scaffold2853	6530	CTTTTTTTT/CTTTTTTT	CCATTTCGGTTTAAACC AATGTA	GATTGATGCACTAATT CGACG	60.0	642	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 (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
scaffold287_P3_22647	scaffold287	22647	AA/AATTA	TTTAAACAGATGTTCCG CCC	GGAACAATGTAGGCAA GGGA	59.9	708	INTRON	Ca_25380	--	--
scaffold2871_P3_30418	scaffold2871	30418	AGT/AGTGT	GGTTTTGGATTGGGC TACA	GGGTATGGCTTTGAT CATGT	59.8	521	INTERGENIC	--	--	--
scaffold2871_P3_35686	scaffold2871	35686	ATATT/AT	CAATTCACCCGGATCA AAGT	CCGTGATCGAGTTAAC AGCA	59.8	552	INTERGENIC	--	--	--
scaffold2887_P3_7283	scaffold2887	7283	CTG/C	TGGTGCCTCTTAATGT GGAA	TTTGCCATGACCTTTTT GTTC	60.1	473	INTERGENIC	--	--	--
scaffold2888_P3_3476	scaffold2888	3476	G/GCCCAGGC	GCCTTGGTAGTCGTGG ACAT	TGACTGGTGACTAGGG GCTC	60.0	440	INTERGENIC	--	--	--
scaffold2893_P3_10683	scaffold2893	10683	AGG/AGGG	GCCAGATCTTTCGATTC AGC	CCTTCAATGGAACCGC ATAC	59.9	255	INTERGENIC	--	--	--
scaffold2898_P3_4989	scaffold2898	4989	GAAAAAAAA/GAAAAAAAAA	TGGCAGAGAATATGTT GGGA	GCCGGTACTGAATGCA GATT	59.1	504	INTERGENIC	--	--	--
scaffold29_P3_100652	scaffold29	100652	C/CA	TCCCGATCTTCGATTT ATC	CCATCGTTCAGTCCGA AAAT	60.0	254	INTERGENIC	--	--	--
scaffold29_P3_101084	scaffold29	101084	AGG/AGGG	CGCGGAACCTGAAATA CAAT	TCCAGATGAAATCGAG GACC	60.0	401	INTERGENIC	--	--	--
scaffold29_P3_132238	scaffold29	132238	TCTGACGCGTATCCTGA/TCTGA	GTATTTAAATCGGGC GCAA	GAAATCGAGGACTGGG ACAA	59.9	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 (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
scaffold29_P3_151466	scaffold29	151466	A/ATC	TCCAGATGAAATCGAG GACC	TTTGGACTTTTCGAGG GATG	60.0	642	INTERGENIC	--	--	--
scaffold290_P3_130734	scaffold290	130734	TAAAAAAAAA/TAAAAAAAAA	GATCAAATCACCGGAT CACA	CTCGTTCCATGAACCG ACTT	59.3	486	INTERGENIC	--	--	--
scaffold290_P3_134045	scaffold290	134045	TTATATATATATATATATATATATATATATATATATAT/TTATATATATATATATATATATATATATATATATATAT	TAGTTCCTCGGAGGTT GTGG	CCAAATGCAGCAACGT CTAA	60.1	561	INTERGENIC	--	--	--
scaffold290_P3_178276	scaffold290	178276	TAAAAAAAAA/TAAAAAAAAA	CACATCGAAGCAATCG TCAT	ACCAATTCGGTTCGGT TTTT	59.7	861	INTRON	Ca_19830	F	--
scaffold290_P3_206705	scaffold290	206705	GATAT/GATCAATTAATAT	TCCCTCTTTCAAGTCA ACTCA	TCGCTCTAGGCTAATC CAACT	59.0	318	INTRON	Ca_19830	F	--
scaffold290_P3_223954	scaffold290	223954	CTTTTTTTTTTTTT/CTTTTTTTTTTT T	CGAAGCATGAAAAATG GGTT	CGTCGACATTAGATCG GTTG	59.9	508	INTERGENIC	--	--	--
scaffold290_P3_233617	scaffold290	233617	A/AC	GGACGACCTAGCCTAT TCCC	TGATCCGTTACAAAT GCCA	59.9	430	INTERGENIC	--	--	--
scaffold290_P3_293241	scaffold290	293241	ATTATTTATTTATTTATTTATTTATT/ATT ATTTATTTATTTATTTATTTATTTATT	TTGCTCTTAATTTTTC TCGAA	GTGAGTCTGCGACCAC TTGA	58.2	602	INTERGENIC	--	--	--
scaffold290_P3_305687	scaffold290	305687	AC/A	CATGCCAATCGTTTCAC TTT	TAGATTCGTGGAGGTG GAGG	58.6	428	INTERGENIC	--	--	--
scaffold290_P3_310286	scaffold290	310286	ATTTTTTTTT/ATTTTTTTTT	GCGACTTCCAACGGT TTTT	AAATGCCCATTTGGAT TTACT	59.2	152	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 (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
scaffold290_P3_338368	scaffold290	338368	ATTTTTTTTTTTTT/ATTTTTTTTTTT TTTTT	ACCTTGAACATGGTCG CATT	TTTCTCAAGCCTGATT CCGT	60.4	503	INTERGENIC	--	--	--
scaffold290_P3_34984	scaffold290	34984	TAAAAA/TAAAAA	ATGGAACATCAGAGGA TGGC	CCAACCTCTCCACTGG GTAA	59.9	688	CDS (FRAME SHIFT)	Ca_19822	--	--
scaffold290_P3_372111	scaffold290	372111	TAAAAA/TAAAAA	TCCTAGTCCGCGACTC AATC	TAGGTGCGTTTCTTT GCAG	60.4	517	INTERGENIC	--	--	--
scaffold290_P3_377065	scaffold290	377065	ATT/AT	TGCTTCAAGCTGCAATC TCT	CGCCTTGGTTACCCCT CAT	58.9	789	INTERGENIC	--	--	--
scaffold290_P3_400824	scaffold290	400824	TAAAAA/TAAAAA	TTGTGTTGCATTGTGG ATTCT	CACAGCCCTCTAAAC CAAC	59.0	650	INTERGENIC	--	--	--
scaffold290_P3_417878	scaffold290	417878	CAAAAA/CAAAAA	AGTGATTTCGGGACTG GATG	CTTCCCCGTTTAGCCT CTTC	59.9	672	INTERGENIC	--	--	--
scaffold290_P3_418174	scaffold290	418174	GT/GTT	GAAGAGGCTAACGGG GAAG	ATGCAAAGTTGGTCA TTCC	60.2	409	INTERGENIC	--	--	--
scaffold290_P3_429778	scaffold290	429778	ATTTTTTT/ATTTTTTT	ACTCCGATGCACTGTTA CCC	TAATGTGTCGTGTCTT CGCC	60.0	751	INTERGENIC	--	--	--
scaffold290_P3_452067	scaffold290	452067	GAAA/GAA	GAAAAATTCACCACCGA TTAGG	TACAATCAGGATGCGT CCAA	59.7	632	INTERGENIC	--	--	--
scaffold290_P3_45753	scaffold290	45753	GAATAATAATAATAATAATAAT AATAATAATAATAATAAT/GAATAAT AATAATAATAATAATAATAATAAT AT	TTAATTAATATCCGCGC AACG	TCATGAACAAAAAGAA TAATGGAA	60.0	514	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 (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
scaffold290_P3_470470	scaffold290	470470	TAAAAAAAAA/TAAAAAAAAA	TTCGAATCGAGACATTG CAG	GCAGCAAATACCGTCA CAA	59.9	287	INTERGENIC	--	--	--
scaffold290_P3_471689	scaffold290	471689	CTTTTTTTTT/CTTTTTTTTT	CTTTTGCCCAATTGAGT GGT	TCATTCAACAACATCC CAA	60.0	780	INTERGENIC	--	--	--
scaffold290_P3_572854	scaffold290	572854	AATATATATATATATATAT/AATATAT ATATATATATATATAT	TCACCAAGCAAAACCA CATA	CATGCAACCAATCGA CAAC	60.0	554	INTERGENIC	--	--	--
scaffold290_P3_578135	scaffold290	578135	GTTTTTTTTT/GTTTTTTTTT	TTTGCAAAGTAAACAGG ACCC	AGTCAATGGCAGTCCC TCAC	59.1	494	INTERGENIC	--	--	--
scaffold290_P3_589822	scaffold290	589822	ATTTTTTTTT/ATTTTTTTTT	ATTCATGGGATCGTGC ACTC	ATTGCAAAACCTCCT GATG	59.7	803	INTERGENIC	--	--	--
scaffold290_P3_628037	scaffold290	628037	AAAGAA/AAA	CCAAAGAAGATGCAGC ACAA	ACAACCATCCGATAG CGAC	60.0	164	INTRON	Ca_19843	O	--
scaffold290_P3_664401	scaffold290	664401	GTTTTTTTTT/GTTTTTTTTT	AGATGCATGTCACGAA ACCA	GCCTTTGGGAAATGT TCAA	60.1	838	DRR	Ca_19844	--	--
scaffold290_P3_674235	scaffold290	674235	ATTTTTTTTT/ATTTTTTTTT	TTGCGCATCAGCCATATT TTG	AATTTTCGACGCTTG ATCG	59.7	883	INTERGENIC	--	--	--
scaffold290_P3_678148	scaffold290	678148	GAAAAAAAA/GAAAAAAAA	GTGAGTCCAGCATCAC GCTA	CCACAAAGGAAAGAAC CAA	60.0	855	INTERGENIC	--	--	--
scaffold290_P3_692624	scaffold290	692624	CAAAAA/CAAAAA	ATCACATCACCCACGT CTCA	TGGGGTTAGGTTCAAA CTGC	60.0	651	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_P3_708615	scaffold290	708615	AACA/AA	TACAATAACACCGCTG GCAA	ATTTTGTAGCGGCAAA CACC	60.1	455	INTERGENIC	--	--	--
scaffold290_P3_740162	scaffold290	740162	ATTTTTTTTT/ATTTTTTTTTT	CCAGATGATGACATAC CCGA	ATGAGGCGTGCTACCC ATAC	59.3	717	INTERGENIC	--	--	--
scaffold290_P3_743194	scaffold290	743194	CAV/CA	AAAGCAACCATAAAAG GGCA	GGTTCGATTTTCGT TTTTG	59.6	335	INTERGENIC	--	--	--
scaffold290_P3_764172	scaffold290	764172	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT/ATATTAT TATTATTGTTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATT	TGTTGTAATTTGAATG AGCAATTAAC	CCACCACAACAAGACA GAGG	59.8	417	INTERGENIC	--	--	--
scaffold290_P3_80619	scaffold290	80619	AGAG/AGAGGAG	CCCAATCCAATGCTG AACT	TTAGGATTGGAACCG ATGC	59.9	188	DRR	Ca_19826	--	--
scaffold290_P3_820202	scaffold290	820202	ATT/ATTT	ACCAAGCCTTTTGGAC AATG	TCTTCGGTTGGAATTT GGTT	60.0	879	INTERGENIC	--	--	--
scaffold290_P3_857611	scaffold290	857611	TTATATATATATATATATATATATATA TATATAT/TTATATATATATATATATATA TATATATATATATAT	TGCATTGTTACGGAAAC ATCAT	ACAACCCAGTGATCAG CCTC	60.3	733	INTRON	Ca_19854	K	MIKC
scaffold290_P3_862556	scaffold290	862556	TT/TTATTTAT	TCGTTTGTCTTGTGTCG CTC	CTCGTGTGGAATTCG AGGT	60.0	367	INTERGENIC	--	--	--
scaffold290_P3_87352	scaffold290	87352	TCAACTCAACT/TCAACTCAACTCAACT CAACT	CGACGAACCTCTTGGG TTGT	GCCACGTGGTCTAAGC TTTC	60.1	543	INTERGENIC	--	--	--
scaffold290_P3_887858	scaffold290	887858	GA/G	GCACTAGGCTTCAAAC AGGC	CAAGCCAGTACCGTGG AAAT	60.0	651	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 (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
scaffold290_P3_892920	scaffold290	892920	GAAAATAAAAAATAAAAAATA/GAAA ATAAAAAATA	ACCCGGGTATAAGGTT CCAC	TTCCCTACGCATAATC GGTC	59.9	467	INTERGENIC	--	--	--
scaffold2900_P3_7979	scaffold2900	7979	ATT/AT	TATGAAATCGCCGA AAAG	GGTCTCGATTTCATC TGGA	60.0	355	INTERGENIC	--	--	--
scaffold2907_P3_21102	scaffold2907	21102	AAT/AATGTATGTTGTAT	GGTCTCAGCCCCCTTC TTAG	AAATCCAACATCTCC CCC	60.2	562	DRR	Ca_27009	--	--
scaffold2907_P3_30446	scaffold2907	30446	ATATATATTATAT/ATATATAT	TATTCAGATCCCTTGCC CAG	TGGGTGCTATTTGCAA TCAA	60.0	635	INTRON	Ca_27010	--	Trihelix
scaffold2916_P3_20817	scaffold2916	20817	AG/A	TCATCTTACTTCTGGGC GCT	CAATGAATGACCCCA GCTT	60.0	350	INTERGENIC	--	--	--
scaffold2916_P3_91263	scaffold2916	91263	CAAAAAAAAA/CAAAAAAAAA	TGCCACATGCTTGAC CAAT	GGTCCATAGTGGGACC CTTT	60.0	676	INTERGENIC	--	--	--
scaffold2922_P3_7477	scaffold2922	7477	CGG/CG	TTTCATCTGGACTTTTC GGG	TAACACGTTTCGGGT TCCG	60.0	447	INTERGENIC	--	--	--
scaffold2922_P3_8355	scaffold2922	8355	GAAAAA/GAAAAA	GACTTTTCGGGCGATA TTCA	ATATGCAACCGAAGAC CAGG	60.0	647	INTERGENIC	--	--	--
scaffold2924_P3_26942	scaffold2924	26942	T/TG	TGCAGGTAGCACTCCA AATG	TGGAGAACTCGCTC TGAT	59.9	652	INTERGENIC	--	--	--
scaffold2924_P3_8200	scaffold2924	8200	ATTTTT/ATTTTT	TTGCTTCATGGAACCTG AGG	CGTCCTCGAAATTTGA CGTG	58.8	295	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 (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
scaffold2928_P3_22766	scaffold2928	22766	ATTTT/ATTTT	AACCAATGATGTGCAT CAA	AGGGAGGACGAAAATG ACCT	59.8	471	INTERGENIC	--	--	--
scaffold2928_P3_23701	scaffold2928	23701	TTGT/TT	AGACCTCGCTTGGCTG ATTA	ACGGAGGAGGAAAATG ACCT	60.0	210	INTERGENIC	--	--	--
scaffold2928_P3_43810	scaffold2928	43810	GTTT/GTTT	TCGTTTTCGTCCTCCAT AGG	TGAAAGCACCAGATCG GTTA	60.1	565	INTERGENIC	--	--	--
scaffold293_P3_27940	scaffold293	27940	TTTTCTTCTTTCTTCTTTC/TTTTCTTCT TTC	GCATCACGCTACCATA GGCT	TTGGTCGTTTGAGCCT TTCT	60.3	511	INTERGENIC	--	--	--
scaffold2931_P3_1404	scaffold2931	1404	CTTTTTT/CTTTTTTT	GCCCTCAGATGAGAGT CAGG	GGAGGGTTTTGTTTG GAAT	59.9	707	INTERGENIC	--	--	--
scaffold2932_P3_13288	scaffold2932	13288	TCCCCC/TCCCCC	TTTCGTCCTCTTTGGG CTTA	ACGGACGACGAAAATG ACTT	59.8	413	INTERGENIC	--	--	--
scaffold2932_P3_2304	scaffold2932	2304	GTTTT/GTTTT	ATTGTCGTCCTCCCTA GGCT	ACACCTATTGGATGCC CAAG	60.1	670	INTERGENIC	--	--	--
scaffold2940_P3_1242	scaffold2940	1242	TC/T	TGTGCACCGAATAGGT GTGT	TCCTTCGGAGGATGAA AATG	60.0	266	INTERGENIC	--	--	--
scaffold2940_P3_26012	scaffold2940	26012	TCCC/TCC	AGGTCATTTTCGTCCTC CCT	CAACACACCTGTTGG ATGC	59.9	182	INTERGENIC	--	--	--
scaffold2950_P3_10165	scaffold2950	10165	AGG/AGGG	AGTTGTTGGATACACC GGC	AGTGCTGTGGCTGGAC CTAT	59.9	662	INTRON	Ca_27517	L	FAR1

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 (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
scaffold2950_P3_10696	scaffold2950	10696	G/GT	TGATGATATCAGGCAACGGA	TGTCCTCCACAGGTAGCTTTC	60.0	588	INTRON	Ca_27517	L	FAR1
scaffold2950_P3_1436	scaffold2950	1436	ATTTT/ATTTT	GTCTCTGAAACCTCCACACA	TTTGGGTCGTGACACTTGA	60.1	337	INTERGENIC	--	--	--
scaffold2950_P3_6843	scaffold2950	6843	A/AG	CCAAATTACAACCGACCAC	AAAGGCGCTCCTCTATCACA	60.1	650	INTERGENIC	--	--	--
scaffold2950_P3_6903	scaffold2950	6903	AAA/AAATAA	CCAAATTACAACCGACCAC	AAAGGCGCTCCTCTATCACA	60.1	650	INTERGENIC	--	--	--
scaffold2950_P3_7749	scaffold2950	7749	ATTTT/ATTTT	CACGTTTTAAAGGGTTTGC	GGTAAAGCCCATTCGTACCA	59.5	845	INTRON	Ca_27517	L	FAR1
scaffold2950_P3_8204	scaffold2950	8204	T/TG	TGGTCAGAATGGGCTTTACC	TTCAGAAGGGCCAGAAAGAAA	59.9	506	INTRON	Ca_27517	L	FAR1
scaffold2955_P3_10080	scaffold2955	10080	CT/CTT	AGAGTGGACGGAAATGGTG	AACTTGGTGCCCTGACTTG	60.0	621	INTERGENIC	--	--	--
scaffold2955_P3_11390	scaffold2955	11390	ATTTT/ATTTT	TAGAATAAGGCTCGACCGGA	TCCAAGCCCTTCTCTTTCA	59.8	402	INTERGENIC	--	--	--
scaffold2955_P3_11867	scaffold2955	11867	GTTTTTTT/GTTTTTTT	TGAAAGAGAAAGGGCTTGGA	CCTCATTTGTGCCCAATTCT	59.9	848	INTERGENIC	--	--	--
scaffold2955_P3_33615	scaffold2955	33615	A/AG	TGATTGTTGAAGCTCCATTCC	GCCACATGGATGAGGATAGG	60.1	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 (°C)	Expected 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_P3_9708	scaffold2955	9708	TTACTA/TCTACTACTA	ACTATGCAAAGGTGCA AGGC	CACCATTTCCGTCCA CTCT	60.3	374	INTERGENIC	--	--	--
scaffold2957_P3_806	scaffold2957	806	GT/GTT	TTTTCCCACATCTTGTC ATT	AGGGAGGACGAAAATG ACCT	60.3	573	INTERGENIC	--	--	--
scaffold296_P3_11136	scaffold296	11136	GTTTT/GTTT	TTGAATCCTTTTCTGGG TGG	CTTGCTTCGGTTAC AGCA	59.9	658	INTERGENIC	--	--	--
scaffold296_P3_11327	scaffold296	11327	TCC/TCCC	TGGACGTAGTCCGAGT TGGT	CTTGCTTCGGTTAC AGCA	60.6	517	INTERGENIC	--	--	--
scaffold296_P3_16189	scaffold296	16189	TAA/TAAA	GCAGGGATCCAAAAGT TCAA	GTTTGGCAGTGAGAAA AGGC	60.1	456	INTERGENIC	--	--	--
scaffold296_P3_17248	scaffold296	17248	AATATATATATATATATATATATATAT ATATAT/AATATATATATATATATATATA TATATATATATATATATATATATATAT	AGGAGGAGGGATCTGG AAAA	TTGCTCCTACGTATCT CCCG	60.0	965	INTERGENIC	--	--	--
scaffold296_P3_233039	scaffold296	233039	AATATATATATATATATATATAT/AAT ATATATATATATATATATAT	TTGAGTTGCGACGAGA GTACA	GAAACATGGAGGTTTG CGTT	59.6	488	INTERGENIC	--	--	--
scaffold296_P3_259047	scaffold296	259047	TAA/TA	AAGGTCAAGCAGTGGC AGAT	CATCTTCAAAGGGGCA TGAT	59.9	741	INTERGENIC	--	--	--
scaffold296_P3_261413	scaffold296	261413	AGAGAGGGAGAG/AGAGAGAGGGAGA GGGAGAG	CATTGTGGGAGCGTAA GACA	TCGCAACTCTCATGTG TATGG	59.7	388	INTERGENIC	--	--	--
scaffold296_P3_261628	scaffold296	261628	TACACACACAC/TACACACACACAC	CATTGTGGGAGCGTAA GACA	TCGCAACTCTCATGTG TATGG	59.7	388	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
scaffold296_P3_261904	scaffold296	261904	CAAAAA/CAAAA	CCATACACATGAGAGTT GCGA	TTGACTCAGCCTTAAA TTTTTATTGA	59.7	534	DRR	Ca_20542	--	--
scaffold296_P3_262823	scaffold296	262823	ATATTATTATTATTATTATTA/ATATTAT TATTATTATTA	CACTTTTAAACCGGAG GAATG	GCAGTGGATAAGGCC GATAA	58.6	140	DRR	Ca_20542	--	--
scaffold296_P3_265325	scaffold296	265325	AACTACTA/AACTA	TCAAGCCATAAATGATG CCA	ATCTGCCACTGCTTGA CCTT	60.0	257	INTERGENIC	--	--	--
scaffold296_P3_305431	scaffold296	305431	ATTTAAAT/ATTTAAATCAACTTTAAAT	AGCTTCAAGGCAATGG GATA	TGGTGCCATTGAAGAT GAAA	59.7	672	INTERGENIC	--	--	--
scaffold296_P3_406805	scaffold296	406805	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTAATATTATTATTA T/GTTATTATTATTATTATTATTATTAT ATTATTATTATTATTATTATTAATATTAT TATTAT	AGTTATTTACGACGCAC GGG	GGCAGCATCATCAT CATC	60.0	547	INTERGENIC	--	--	--
scaffold296_P3_78708	scaffold296	78708	TTATA/TTA	TATGGACCGAAATGG ATGT	GACATTGCATTTTGA CACG	60.0	606	INTERGENIC	--	--	--
scaffold2962_P3_535	scaffold2962	535	ATTTTTTT/ATTTTTTTT	CGAGACAAGTTTTCCAA GCA	ACTCCAAGATCATCAT CGGC	59.0	835	INTERGENIC	--	--	--
scaffold2968_P3_15868	scaffold2968	15868	A/ATAATCGAAAAGATATTTTC	ACAAGGTTCTCCCGTT CCTT	AGAAAGCGACGAAAC GAAA	60.0	683	INTERGENIC	--	--	--
scaffold2969_P3_32767	scaffold2969	32767	AT/AAAATTAGTT	GTCAATGGACCCACTTT CCA	TCCAGATAAAGTGAGG ACAGCA	60.8	473	INTERGENIC	--	--	--
scaffold298_P3_14439	scaffold298	14439	ATTT/ATT	TTACACCAATCCTTTG CCC	GAGCCCAACAGTTCCA TGAT	59.8	792	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 (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
scaffold298_P3_156072	scaffold298	156072	GTTTTT/GTTTTT	ACCCAATTACTGGAGAT GCG	AGTCAGTGGCAAAAC AGCA	60.0	410	INTERGENIC	--	--	--
scaffold298_P3_208119	scaffold298	208119	GTTTTTTT/GTTTTTTT	AGTCGGAGGTTCTAG CACA	ATTGTTGGGCTTGTC GTCC	59.9	471	INTERGENIC	--	--	--
scaffold298_P3_208171	scaffold298	208171	TTATATATATATA/TTATATATATATATA TATA	AGTCGGAGGTTCTAG CACA	ATTGTTGGGCTTGTC GTCC	59.9	471	INTERGENIC	--	--	--
scaffold298_P3_212123	scaffold298	212123	CAAAAAAAAA/CAAAAAAAAA	ATAGCCTCCCTTTTGG CAT	TGCAGCTTCTGGTGTT CATC	59.9	371	INTRON	Ca_27492	--	--
scaffold298_P3_8123	scaffold298	8123	TGA/T	AAATGAAAAGTGCGA GGAC	AGTTACCATTTGTGG CAGC	59.2	740	INTERGENIC	--	--	--
scaffold298_P3_8968	scaffold298	8968	ATT/ATTTT	GCTGCCACAAATGGGT AACT	CCAAAAACGGTGACGA AACT	60.0	771	INTERGENIC	--	--	--
scaffold2988_P3_16123	scaffold2988	16123	TCCC/TCC	ACCATTTACCCATAAG GCA	CTCTACCCAAGAAGA TCGC	60.2	611	INTERGENIC	--	--	--
scaffold2988_P3_23424	scaffold2988	23424	TAAA/TAAA	ATTAGGCAATCGACTG GCAC	TGGAGAACTCTTCGG CTGT	60.1	684	INTERGENIC	--	--	--
scaffold299_P3_158960	scaffold299	158960	TA/TAA	TACGAACCGGTAGAAC CGTC	CGTGGTAATCGCGTAG GAAT	60.0	574	INTRON	Ca_25996	AJ	--
scaffold299_P3_213491	scaffold299	213491	AGG/AGGG	ACGGGAGCAAAAGTCT CTGA	CCAAAAGAAAATGCC AAGA	60.0	705	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 (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
scaffold299_P3_213941	scaffold299	213941	AACACA/AACACACA	ATTATTATCGCCCCGA AAC	TTTGTTGCACTGCT TTTG	60.0	379	INTERGENIC	--	--	--
scaffold299_P3_53102	scaffold299	53102	CAAAAAAAAA/CAAAAAAAAA	TGAAGGGTGTCACAA CCAA	ATTCATGGTGCTTTCTT GGC	60.0	313	INTERGENIC	--	--	--
scaffold2990_P3_6208	scaffold2990	6208	AA/AGATTTA	TTTGATGAACTATGC CCC	TGCCTTTCTCATCTCG GTCT	59.8	551	INTERGENIC	--	--	--
scaffold300_P3_74648	scaffold300	74648	TG/T	AAAACACGCCTATTGG ATGC	AGGTCATTTTCGTCTC CCCT	60.0	382	INTERGENIC	--	--	--
scaffold3002_P3_1129	scaffold3002	1129	TAAAAAAAAA/TAAAAAAAAA	ACGCACGCCCAATTAA TATC	TTGGTTTCAAAGGTTT ACACA	59.8	788	INTERGENIC	--	--	--
scaffold3015_P3_28106	scaffold3015	28106	GAAAAA/GAAAAA	ATGTGTGAAGTCACAA GCCG	GATGGCTCCAACGTGT ATGA	59.8	516	INTERGENIC	--	--	--
scaffold3015_P3_68459	scaffold3015	68459	TCA/TAGTGCTCAGGCA	TGCCTTTCTATGGCAAA TCC	GCATGAGTTTGTCTG CGAA	60.0	323	INTERGENIC	--	--	--
scaffold3015_P3_68656	scaffold3015	68656	A/AACCGGCACAGCC	TTCGCAGACAAACTCA TGC	AGCATTATGGGCCATC TGAG	60.0	283	CDS (large-effect mutations)	Ca_27318	--	--
scaffold3015_P3_69170	scaffold3015	69170	AG/A	GGCCCAATAATGCTCAA GTGT	TCATAGGCATGGGATT TGAA	60.0	472	DRR	Ca_27318	--	--
scaffold3015_P3_73264	scaffold3015	73264	TGGCATAG/TG	TTTGTGTTTGCATGAC GAT	TAAGAGCGGAGTTTCT CCCA	60.1	792	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
scaffold3015_P3_73454	scaffold3015	73454	TTTTGACTTTGACTTT/TTTTGACTTTG ACTTTGACTTT	GTCTCGCGTTGAGTTA AGGG	TAAGAGCGGAGTTTCT CCCA	59.9	489	INTERGENIC	--	--	--
scaffold3015_P3_73940	scaffold3015	73940	TG/T	TGGGAGAAACTCCGCT CTTA	TGATGGCTCCAAGGTG TATG	59.9	538	INTERGENIC	--	--	--
scaffold3015_P3_74020	scaffold3015	74020	AAATCATA/AA	TGGGAGAAACTCCGCT CTTA	TGATGGCTCCAAGGTG TATG	59.9	538	INTERGENIC	--	--	--
scaffold3015_P3_74169	scaffold3015	74169	TTT/TTTCTT	TTTTGAAATTTAGGGTG TCACG	TGATGGCTCCAAGGTG TATG	59.0	221	INTERGENIC	--	--	--
scaffold3015_P3_76583	scaffold3015	76583	CTTTTTTT/CTTTTTTTTT	GGCTAAATTACATCTGT GGTCCTT	TGAAAGAGAAAGGGCT TGGA	59.8	532	INTERGENIC	--	--	--
scaffold3015_P3_76843	scaffold3015	76843	CAAAA/CAA	TTTCCCGACTTGGTCCT TTA	TGAAAGAGAAAGGGCT TGGA	59.5	468	INTERGENIC	--	--	--
scaffold3016_P3_59264	scaffold3016	59264	AATATATATATATATATATATATATAT /AATATATATATATATATATATATATA TAT	ACAGCCAACAACCACA TCAA	GGTAATCACAATCGGA TGCC	60.0	777	DRR	Ca_26724	--	--
scaffold3016_P3_87899	scaffold3016	87899	TTATATATATATATATATATATATATA TA/TTATATATATATATATATATATAT ATATATATATA	TCCTCACTCTTCGCACC TCT	CATTGGCTTTGTTGGT GATG	60.1	674	INTRON	Ca_26725	C	NAC
scaffold3019_P3_17640	scaffold3019	17640	GTTTT/GTTTTT	TGCATTATGGGTAGGT GCAA	GATGTCTACCAAGTTGC GGGT	60.0	570	DRR	Ca_28069	--	--
scaffold3019_P3_18112	scaffold3019	18112	CAAA/CA	ACCCGCAACTGGTAGA CATC	AATTGTTTGGCCTCAA ATGG	60.0	597	INTRON	Ca_28069	--	--

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 (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
scaffold3019_P3_18761	scaffold3019	18761	GAAAAAAAAAAAAA/GAAAAAAAAA	ACCCCAACCAACAAG ACAG	CAAGCCTGGAGCTATT GAGG	59.9	369	INTRON	Ca_28069	--	--
scaffold3019_P3_19910	scaffold3019	19910	CGAGAGA/CGAGA	TATGGCCTTCGAAGATT TGG	CTCTGCACTTTGACGA TCCA	60.0	503	URR	Ca_28069	--	--
scaffold3019_P3_20892	scaffold3019	20892	AT/AATGGTT	TGCATGAGTTGTTAAG GCGA	TATGCAAAACGGGACT TCCT	60.4	582	URR	Ca_28069	--	--
scaffold3019_P3_717	scaffold3019	717	ACCTCAGCCTCA/ACCTCAGCCTCAGC CTCA	CTCTGACGCGTATGCT GGTA	TTGTGTGCCATCTGAG CTTC	60.0	421	INTERGENIC	--	--	--
scaffold3021_P3_2998	scaffold3021	2998	ATTTTTTT/ATTTTTTT	TGGTTTGTGCGATGAG AGAG	TCACGCAGAAAGCAA ACAC	60.0	649	INTERGENIC	--	--	--
scaffold3026_P3_7014	scaffold3026	7014	TAAA/TAA	AGCCCCAGATGAATTG TTTG	CAATCAACCTATTACC GTTTCAA	59.9	479	INTERGENIC	--	--	--
scaffold3028_P3_3725	scaffold3028	3725	AT/A	CTCCCCCTTTTGGCAT AAT	GTGAGGACCAGCCCA CTTTA	60.1	577	DRR	Ca_28109	--	--
scaffold3029_P3_14921	scaffold3029	14921	AGG/AGGG	GCGTTCAATTGGTGTG TTTG	GTCCTACCGGTCGTA CCCT	60.0	721	INTERGENIC	--	--	--
scaffold303_P3_111143	scaffold303	111143	TTATATATATATAT/TTATATATATAT AT	ATGGTTTGAGAGTTG TGGG	AATTTAATTTCCGCTGT GCG	59.8	567	INTERGENIC	--	--	--
scaffold303_P3_162542	scaffold303	162542	AAGCGCTGT/AAGCGCTGTGGAAACGA GCGCTGT	GCCATTACAGCGCTTT TTC	TGAAATTATGGGTGGG CATT	59.9	357	DRR	Ca_26661	--	Trihelix

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
scaffold303_P3_77772	scaffold303	77772	TATTTATTA/T	GGTGACAATGGGTTTG ATCC	CCAATCTCCCTGCAAA CATT	60.0	950	INTRON	Ca_26659	--	M-type
scaffold3038_P3_10393	scaffold3038	10393	TG/T	TGTGCATCCAAGAGGT GTGT	GGCGAGAATGACCAAA ATGT	60.2	756	INTERGENIC	--	--	--
scaffold3038_P3_17812	scaffold3038	17812	CG/CATAAGTG	AGGTCATTTTCGTCCTC CCT	TCGACTTGTCATCGC TTTG	59.9	645	INTERGENIC	--	--	--
scaffold3038_P3_37217	scaffold3038	37217	GTTTT/GTTTTT	CCAAGCTTGTGCATCC AATA	AGGGAGGACGAAAATG ACCT	59.7	868	INTERGENIC	--	--	--
scaffold3046_P3_14446	scaffold3046	14446	AGGG/AGG	TTGGATGAACATTTCG GTCA	AAGCCTAGGAGGAC GAAAA	59.9	240	INTERGENIC	--	--	--
scaffold305_P3_97151	scaffold305	97151	GAAAAA/GAAAAA	ACTCGGGATGTAGCAA CCAC	CGACAGTGCCACAAGT GAGT	60.0	403	INTRON	Ca_25900	Z	--
scaffold3052_P3_15819	scaffold3052	15819	TG/T	TGGACAAGAATAAGCC CAGG	AGGTCATTTTCGTCCT CCCT	60.1	137	INTERGENIC	--	--	--
scaffold3058_P3_27566	scaffold3058	27566	CA/CAA	CTTTGTTTTTCACCGAC CGT	TCCTCAGATGGATTTA CGCC	60.0	737	DRR	Ca_27792	A	--
scaffold306_P3_128535	scaffold306	128535	TA/T	ACCGAAAGGAGAACAC ATGG	TGCAAAATGAAAGTTTAA AGACCA	60.0	240	INTERGENIC	--	--	--
scaffold306_P3_128902	scaffold306	128902	AACA/AA	AAGGAGAACACATGGA CTTGC	TGAGGCTTCAAGGAAT TTGG	59.2	961	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
scaffold306_P3_128942	scaffold306	128942	ATATCTTTATCTTTATCTTTA/ATAT CTTTTATCTTTTA	TGCAGTTGTGTGAAG TTTACGG	TGAGGCTTCAAGGAAT TTGG	60.1	828	INTERGENIC	--	--	--
scaffold306_P3_130611	scaffold306	130611	G/GAA	CAGCACAAACAAAGGC TACG	TTGTCCAATACTTAGAT CGAACC	59.5	359	INTERGENIC	--	--	--
scaffold306_P3_166393	scaffold306	166393	TAAATCGATTG/TAAATCGATTGGGAAA TCGATTG	TGCACAAGTCAGTAGC ACCC	GCCAATCGATTACCCT CAAA	59.9	138	INTERGENIC	--	--	--
scaffold306_P3_181921	scaffold306	181921	TA/TAA	TGCCTTTGTTTCTCGT CAA	TTCTTTC AACGATAAAT GGCCT	59.4	616	INTERGENIC	--	--	--
scaffold306_P3_261090	scaffold306	261090	GTTT/GTTT	CTTGATTGGGATTTTG TCTCA	TTGAACGAGAAACAAA GGCA	59.1	646	INTERGENIC	--	--	--
scaffold306_P3_277837	scaffold306	277837	TAAA/TAAATCAAA	TTTGCTTCTTTGGGCCT TTA	TTCCAATTTTCATATTA CGACGG	59.8	776	INTERGENIC	--	--	--
scaffold306_P3_332966	scaffold306	332966	ATTTTTTTTTTTT/ATTTTTTTTTTT	TGGGCTTGATCATGT TTG	ATAGCTCTCATAGCCC CGGT	59.5	238	INTERGENIC	--	--	--
scaffold306_P3_342475	scaffold306	342475	ACATCATCATCATCA/ACATCATCA TCATCATCATCA	TTCAAATGGCCCTGTC TTC	GGGTGCTTGTTCGT CTAT	60.1	841	INTERGENIC	--	--	--
scaffold306_P3_418497	scaffold306	418497	CAAAA/CAAAA	CACAAATACATGTGGCT CCC	TCATCCATCTTTTCT CTTTCA	58.9	674	INTERGENIC	--	--	--
scaffold306_P3_424318	scaffold306	424318	GTTAATTAATTA/GTTAATTAATTAATTA ATTA	ACAGTGGCACCAACA ATGA	TTTCCATCCAAAATTGT CGC	60.0	682	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 (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
scaffold306_P3_424863	scaffold306	424863	CAGTTGTATGTAAGTT/CAGTTGTATGT AAGTTGTATGTAAGTT	ATTGCGACAATTTTGGATGG	TCCAAGTTTCAAATG GTGAC	60.7	661	INTERGENIC	--	--	--
scaffold306_P3_47635	scaffold306	47635	GAAAAAAA/GAAAAAA	TTGACCTATTTGGACCTTGA	ACCAAGACGGCAAAAC AAAC	59.4	473	INTERGENIC	--	--	--
scaffold306_P3_55275	scaffold306	55275	C/CA	GGGGAAAAATATCCGCATT	TGGCACATTCAACCTT TGAG	60.0	559	DRR	Ca_22708	--	C2H2
scaffold306_P3_65174	scaffold306	65174	CTTT/CTTTT	CGTCTTGTTTGGTCCAGGT	CTCTGGGTGGTGGCAGTAGT	60.0	706	INTERGENIC	--	--	--
scaffold3061_P3_596	scaffold3061	596	ATACATAAGTAA/ATACATAAGTAATTA CATAAGTAA	TTTGCTGTGTGGGTGGTTTA	TCTTGTGGAAGGAAGCTCGT	60.0	870	INTERGENIC	--	--	--
scaffold3079_P3_6349	scaffold3079	6349	TA/TACACA	AATGGGAGAAGGAGGGAGAA	GGAGGGTTTTGGTTTGAAT	60.0	854	INTERGENIC	--	--	--
scaffold3079_P3_6649	scaffold3079	6649	CATCACAATCACAATCACAATCACAAT/ CATCACAATCACAATCACAAT	GCCTCCGAGTTCAATACCA	CCCGTGATAGGCAGTAGTTCGTT	60.1	779	INTERGENIC	--	--	--
scaffold3082_P3_10375	scaffold3082	10375	TAAAAAAAAAAAAA/TAAAAAAAAAAAA	GCCCTCAGATGAGAGTCAGG	CCATCAGCATAACCCCACAT	59.9	716	INTERGENIC	--	--	--
scaffold3092_P3_1124	scaffold3092	1124	TAAAAAA/TAAAAAA	GAGGTATTTTACAGGCTCTTTC	TTGGGTCTGAAGAATGGCTC	58.7	117	INTERGENIC	--	--	--
scaffold3093_P3_19732	scaffold3093	19732	GATATATATATATAT/GATATATATATAT ATAT	GAACCCTCACAATCACA CGA	GAGCGCTGTAAACACCTCC	59.5	863	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
scaffold3094_P3_1310	scaffold3094	1310	GTTTTT/GTTTTT	CGTCCTCCCAAGGCTT ATTC	GGAGGACGAAAATGAC CAAA	60.9	609	INTERGENIC	--	--	--
scaffold311_P3_131360	scaffold311	131360	A/ACAT	GAAGCTCAGATGGCAC ACAA	CAATCTCCCCCTTGAG TTGA	60.0	716	DRR	Ca_26332	--	--
scaffold311_P3_135819	scaffold311	135819	ATTT/ATTTT	GCCAAATTTCTCCTC CTC	CGCGAGTAATTCCGCT AAAA	60.0	297	INTERGENIC	--	--	--
scaffold311_P3_143231	scaffold311	143231	GA/G	ACCTAAGGGGGACGAA AATG	GTCCGCCCTAGGCTTA TTCT	60.2	811	INTERGENIC	--	--	--
scaffold311_P3_154183	scaffold311	154183	TG/TGG	AGGAAGGACGAAATG ACCT	TCCCCCTCCTTGACT TTTT	59.9	796	INTERGENIC	--	--	--
scaffold311_P3_23991	scaffold311	23991	TG/T	TTTTCGTCTCCCTAGG CTT	GCCAATGACACAAACA CACC	60.2	455	INTERGENIC	--	--	--
scaffold311_P3_91768	scaffold311	91768	CAAAAA/CAAAA	TGGGCAAGAAAAAGCC TATG	AGGTCAATTTTCGTCT CCCT	60.2	836	INTERGENIC	--	--	--
scaffold3115_P3_20098	scaffold3115	20098	TTTATTATTATTATTATTATTATTAT TATT/TTTATTATTATTATTATTATTATTA TTATT	CTTGGTGGTCCACTAT GTGC	GGAGGCTGCCATTCAA AATA	59.0	473	INTERGENIC	--	--	--
scaffold3115_P3_61891	scaffold3115	61891	GT/GTGTAT	CATGTCTCCATATTCCT TTCCA	GAACCTCAGATGCAAT TCACA	58.9	292	INTERGENIC	--	--	--
scaffold3115_P3_62578	scaffold3115	62578	ATTTTTTTTTTTT/ATTTTTTTTTTTTTT	CTTGGTGGTCCACTAT GTGC	GGAGGTCAAATACTA ACTGCGA	59.0	594	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
scaffold3115_P3_62639	scaffold3115	62639	CTTTTTTT/CTTTTTTTT	CTTGGTGGTCCACTAT GTGC	TTCATAGGAGGCTGCC ATTC	59.0	632	INTERGENIC	--	--	--
scaffold3115_P3_62933	scaffold3115	62933	TTTATTATTATTATTATTATTATTAT TTTTATTATTATTATTATAATTATTA TTATTA/TTTATTATTATTATTATTAT TATTTTTATTATTATTATTATAATTA TTATTATTA	CTTGGTGGTCCACTAT GTGC	TTCATAGGAGGCTGCC ATTC	59.0	632	INTERGENIC	--	--	--
scaffold3115_P3_63715	scaffold3115	63715	AATATATATATATATATGTATATATA TATATAAATATATATATATATATATG TATATATATATATA	TGAAGCATATGCCGTG AGAG	AAGCAAGCTAGCGTCA ATGAA	60.0	285	INTERGENIC	--	--	--
scaffold3115_P3_63986	scaffold3115	63986	AATATATATATATATATATATATAT A/AATATATATATATATATATATAT ATATA	TGAAGCATATGCCGTG AGAG	GCGTCAATGAACCTTA CATGC	60.0	559	INTERGENIC	--	--	--
scaffold3124_P3_3801	scaffold3124	3801	AT/A	TTTTGCATTATGCAGT GTTGA	TCGCTTGACCTTATT CTTG	59.3	328	INTERGENIC	--	--	--
scaffold3124_P3_4736	scaffold3124	4736	TAAAAAAA/TAAAAAAA	GAGACAGGTGGCGAAC GTAT	AGGATCCCGTTTGAA GTCT	60.1	573	INTERGENIC	--	--	--
scaffold3127_P3_10029	scaffold3127	10029	TGAT/TGATCCACAAGATTGGAT	AGGGAGGACGAAATG ACCT	TGTGCGTCCAATAGGT GTGT	59.9	561	INTERGENIC	--	--	--
scaffold3127_P3_2181	scaffold3127	2181	AC/A	GGAAGCACAGATGGG GTAA	CGGTCATTTTCTCCT CCCT	59.9	265	INTERGENIC	--	--	--
scaffold3127_P3_8863	scaffold3127	8863	A/AT	AATCCAATGGCACAAC ACA	GGACATTTTCGTCCTG CCTA	59.8	488	INTERGENIC	--	--	--
scaffold3134_P3_10933 4	scaffold3134	109334	AATATATATATATATATATAT/AATAT ATATATATATAT	AGGAAGAGTGGAGTTG CGAA	TTAATGTGTTGCGGGT GAAA	60.0	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 (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
scaffold3134_P3_12154	scaffold3134	12154	ACATC/A	TAAACGAGGTAAACCG GTGC	GAAAGTCGCATGTGCA ACAC	60.0	437	DRR	Ca_27104	O	C2H2
scaffold3134_P3_12239	scaffold3134	12239	T/TTTTTTTA	TAAACGAGGTAAACCG GTGC	GAAAGTCGCATGTGCA ACAC	60.0	437	DRR	Ca_27104	O	C2H2
scaffold3134_P3_13329 4	scaffold3134	133294	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATT	TGAGGATGTGGCAAAG ATGA	TTGAACCAGCCATGTT CTAATC	60.2	741	INTERGENIC	--	--	--
scaffold3134_P3_13444	scaffold3134	13444	TA/TATTAACAAA	CCAATCAGTTGGAGCC AGTT	CCAAGAGAAAGGCAGT CGAG	60.1	891	DRR	Ca_27104	O	C2H2
scaffold3134_P3_13610	scaffold3134	13610	A/AAG	TTGATTCGTGCAAATCA GGA	CCAAGAGAAAGGCAGT CGAG	60.2	289	DRR	Ca_27104	O	C2H2
scaffold3134_P3_13664	scaffold3134	13664	GGTGT/GGT	TTGATTCGTGCAAATCA GGA	CCAAGAGAAAGGCAGT CGAG	60.2	289	DRR	Ca_27104	O	C2H2
scaffold3134_P3_13730	scaffold3134	13730	GCTAACTCTAACTC/GCTAACTC	TTGATTCGTGCAAATCA GGA	CCAAGAGAAAGGCAGT CGAG	60.2	289	DRR	Ca_27104	O	C2H2
scaffold3134_P3_15211	scaffold3134	15211	TAAA/TAAAAA	CCTGGTTGAGTCTGGA TAGCA	GCATTGGCGTATCTTG TTCA	60.3	874	INTRON	Ca_27104	O	C2H2
scaffold3134_P3_68521	scaffold3134	68521	AATTATTATTATTATTATTATTATTA TTATTATTGTTATTATTATTGTTATT ATTATTATTGTTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTAT/AATTATTATTATTATTATTAT TATTATTATTCTATTATTATTCTTA	GCTGAAGCAGAAAAAC ATCG	CGGATCAAAGAAGGAA CCAA	58.7	360	INTERGENIC	--	--	--
scaffold3135_P3_4161	scaffold3135	4161	TCC/TC	TCCAGATGAAATCGAG GACC	CCCGAAAAGTCCAGAT GAAA	60.0	882	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
scaffold314_P3_1870	scaffold314	1870	GAAAAAAAAA/GAAAAAAAAAAAAA	GCCCTCAGATGAGAGT CAGG	AAACGCAATCCTTGAG TTCG	59.9	509	INTERGENIC	--	--	--
scaffold314_P3_189404	scaffold314	189404	AATATATATATATATATATATATA/AA TATATATATATATATATATATA	TGAATTTTGGAGGCGTA CGG	AATTTCATTGCACCC ACTC	60.1	703	INTERGENIC	--	--	--
scaffold314_P3_222339	scaffold314	222339	TATATAAATA/TATATA	CAAGGTGTAGGACCCA TTCG	TGCATTGTGTGTATG CGTA	60.4	514	INTERGENIC	--	--	--
scaffold314_P3_233207	scaffold314	233207	CATATATATATATATATATATATATAT ATATATATATATAT/CATATATATATATA TATATATATATATATATATATATATAT ATATATATAT	CTTTCAGAATGAAGGG TCGG	GGGAATGTCTTCATCC AAGG	59.7	625	INTERGENIC	--	--	--
scaffold314_P3_404143	scaffold314	404143	AT/ATAACAGT	TTTTGAACTTGGGTG GGAG	CATTGCACTGCATGCT TTTT	59.9	651	DRR	Ca_21806	KR	G2-like
scaffold314_P3_582748	scaffold314	582748	GTATATATATATATATATATATAT/GT ATATATATATATATATATATATATAT	GGGAGTGTGTGTGTTT GTGC	TTCATTAAAAATGGCAT TACCAAG	60.1	642	INTERGENIC	--	--	--
scaffold314_P3_79817	scaffold314	79817	GAA/GA	GAAGGCCCTCAAATC ATCA	CACAGCACCAGGTTAT CCCT	60.0	615	INTERGENIC	--	--	--
scaffold3149_P3_9644	scaffold3149	9644	TAG/TAGGAG	TTTCATCTGGACTTTTC GGG	ATCGTCGATGGGTACG AAAG	60.0	452	INTERGENIC	--	--	--
scaffold3155_P3_24057	scaffold3155	24057	GAAAAAAAAA/GAAAAAAAAA	TGCATATTTTGAACGA ATGACA	TGCAACCATCGGTTAA AATG	60.4	505	INTRON	Ca_27114	R	NF-YB
scaffold3155_P3_24938	scaffold3155	24938	GTTTTTTTT/GTTTTTTTTT	CAACTTCCTCCGATTTC ACA	ATGCGACCTCCTGAAA GAGA	58.7	574	INTRON	Ca_27114	R	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 (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
scaffold3160_P3_10499	scaffold3160	10499	AG/AGG	TGGCTTTTAGTTAGAG CACCA	GCAACAAAGGAAACG GAAA	59.1	629	INTERGENIC	--	--	--
scaffold3160_P3_8265	scaffold3160	8265	CTAAT/CTAATTAAT	GTTGCTCCTTTTTCGCA GAC	GCATCCCTTTGTGCTG AGTT	60.0	744	INTERGENIC	--	--	--
scaffold3160_P3_8856	scaffold3160	8856	AAGAGA/AAGA	AACTCAGCACAAAGGG ATGC	AGGCGTTACAACCAAA CTGG	60.3	353	INTERGENIC	--	--	--
scaffold3160_P3_9833	scaffold3160	9833	TGG/TG	AACCAGTCACTCAAGC GTCC	TGGCTGGTGATTTGTG TGAT	60.3	165	INTERGENIC	--	--	--
scaffold3164_P3_2307	scaffold3164	2307	AGCG/A	CGTATTTCGGGGAAGA GTCA	TCGAGATTGTGTGCAA GGAG	60.1	614	INTERGENIC	--	--	--
scaffold3168_P3_514	scaffold3168	514	CAGTAG/CAG	AGTGAACCAACGCCA AAAC	ATTCCCCACCCAAATA CCTC	60.0	761	INTERGENIC	--	--	--
scaffold317_P3_16022	scaffold317	16022	GAAAAAA/GAAAAAA	CATGCTGCAAGGTTGT GAAT	CAAAAAGCGCTGTAAA TCCC	59.7	614	DRR	Ca_25634	--	--
scaffold317_P3_209733	scaffold317	209733	T/TC	TGTTGTTGTGATTGTGC CCT	CAGGATGTCAGCAGCA AAAA	60.0	243	INTERGENIC	--	--	--
scaffold317_P3_210863	scaffold317	210863	TAAAAAAAA/TAAAAAAAAA	TGATAGGTTTCATAGCC CCG	CGGTTACGGGACAAGT TGAT	59.9	896	INTERGENIC	--	--	--
scaffold3170_P3_10619 6	scaffold3170	106196	CTATATATATATATATAT/CTATATAT ATATATATATATAT	GGAATAAGGCGGGTGT ATCA	TCACAATGAAACAAAG GGCA	59.8	529	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3170_P3_187238	scaffold3170	187238	TCTCCTCCTCCTCCTCCTCCTCCTCCT/TCTCCTCCTCCTCCTCCTCCTCCTCCCTCT	CCTTCTCGTTCCCTTTC TCC	ACGCAAAAGCCGAGTCTAAA	60.2	153	INTERGENIC	--	--	--
scaffold3171_P3_2203	scaffold3171	2203	TCTTCTCAATT/TCTTCTCAATTTCAATTA CTCTCAATT	TATGTGGATGCATCAAT GGC	CCTTCTCTCAATCCTCC ATCA	60.3	519	INTERGENIC	--	--	--
scaffold3171_P3_2398	scaffold3171	2398	C/CTA	TGATGGAGGATTGAGG AAGG	GTTGACAAATGCAAAA TGCG	60.0	431	INTERGENIC	--	--	--
scaffold3171_P3_2647	scaffold3171	2647	ATTTTTT/ATTTTT	TGATGGAGGATTGAGG AAGG	GTTGACAAATGCAAAA TGCG	60.0	431	INTERGENIC	--	--	--
scaffold3175_P3_11875	scaffold3175	11875	CT/C	CGAAAAATCGCTCGAAA AGTC	GGTCTCTGATTTCATC TGGA	60.0	613	INTERGENIC	--	--	--
scaffold3187_P3_7250	scaffold3187	7250	TTACTCTGATGACTGATAATACTCTGATGACTGATAAT/TTACTCTGATGACTGATAAT	CCATTTACCGCTTTTTG CAT	CCCCCTTTTTCGATAA GTGA	60.0	367	DRR	Ca_28167	--	--
scaffold3191_P3_26393	scaffold3191	26393	ATTTTTT/ATTTTT	TTCGTAATGGACGGGA TGAT	GGGTTTTGCATGTTGA GCTT	60.2	492	DRR	Ca_27210	--	M-type
scaffold321_P3_36107	scaffold321	36107	AC/A	AGGGAGGACGAAAATG ACCT	CTTGGGCGTCCAATAG ATGT	59.9	862	INTERGENIC	--	--	--
scaffold321_P3_38512	scaffold321	38512	A/AT	CCAAGGAGGACGAAAA TGAC	ACCAATCTTGTCATC CCAT	59.5	768	INTERGENIC	--	--	--
scaffold3212_P3_1519	scaffold3212	1519	GAAAAAAAA/GAAAAAAAAA	AATGACATTTGTCCCCG TAGA	ATCGGTGGCATGTCCT TACT	59.3	741	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
scaffold3212_P3_1828	scaffold3212	1828	TAATCTAA/TA	GCAGAAATTAATGAG TGGTGTG	TGGAAGGTGGAGGTT AGAG	59.9	715	INTERGENIC	--	--	--
scaffold3212_P3_2564	scaffold3212	2564	A/AC	TGAACCTCCACCTTCCA TTC	CAACAAATGAGTGGC GATG	59.9	439	INTERGENIC	--	--	--
scaffold3212_P3_3813	scaffold3212	3813	GTT/GTTT	GTGGCCATTGTTCCAA GAGT	GTATGCATGAATTACG GGGG	60.0	728	INTERGENIC	--	--	--
scaffold3212_P3_6334	scaffold3212	6334	ATTTTTTTT/ATTTTTTT	GAGCACATGATCTCGC AGAA	CACTGCTGAAGCGGAA TACA	60.1	213	INTERGENIC	--	--	--
scaffold3212_P3_725	scaffold3212	725	CTT/CTTTT	CGAGTCGTGCTTGAT AATGGA	CCCATTAGTGGTGATG CTCC	60.1	125	INTERGENIC	--	--	--
scaffold3217_P3_4699	scaffold3217	4699	TTA/TTACTATA	CGCTTTGCCCTTAGTT GAG	ATTCCCCATCAATTG GACA	60.0	298	INTERGENIC	--	--	--
scaffold322_P3_4062	scaffold322	4062	C/CCTGTAGAAGACTGG	TGCAAGAGCATATGGC AAAG	AATAAGCGACCATGT TCCG	60.0	227	INTERGENIC	--	--	--
scaffold322_P3_54117	scaffold322	54117	AC/A	AGAAGATTAGCATGGC CCCT	TGCATTTTAACAATGTT GGCA	60.1	295	INTERGENIC	--	--	--
scaffold322_P3_55500	scaffold322	55500	TCTACT/TCT	AAGTGCATATCAGCAG CGTG	ACCAGGTATTGAATGC AGCC	60.0	163	INTERGENIC	--	--	--
scaffold3228_P3_1705	scaffold3228	1705	GAA/GAAA	TTGGTGAAGGAGGAGG ATTG	CTCACCTTGAATGCC ACTT	60.0	149	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 (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
scaffold3234_P3_5840	scaffold3234	5840	CATATATATATATATATAT/CATATAT ATATATATATATATAT	GGGTTCTTTTCTTGAA GCC	CTTGGAAGTGGAGAG CAAG	60.1	679	INTERGENIC	--	--	--
scaffold324_P3_216118	scaffold324	216118	TA/T	CCTACGGACAGGAATG GAGA	GGTCTCGATTTCATC TGGA	60.1	653	INTERGENIC	--	--	--
scaffold324_P3_350218	scaffold324	350218	CAAAA/CAAAA	GTACGAAATTGCCG AAAA	AGTTTCGAACCAACG ATGG	59.9	439	INTERGENIC	--	--	--
scaffold324_P3_63390	scaffold324	63390	TAA/TAA	CGCGTGTCTGTTTTT TTG	TGCATAATCGATTGCG ACAT	59.5	413	INTERGENIC	--	--	--
scaffold324_P3_86326	scaffold324	86326	TTATATATATATATAT/TTATATATAT ATATATATAT	ATCCCAATAAAGTGCCA TCG	ATGCCCAACCCATAATT TTCA	59.8	826	DRR	Ca_24915	--	NAC
scaffold3258_P3_34096	scaffold3258	34096	GTTTTTTTTTTTT/GTTTTTTTTTTTT	GGGTTTGCTTACCGAA CTCA	GGTTTCCACGGTTTGT CTGT	60.1	270	URR	Ca_27898	--	--
scaffold3258_P3_34164	scaffold3258	34164	TAAAAAAAAA/TAAAAAAAAA	GGGTTTGCTTACCGAA CTCA	TACGGAATAATACCCA CGGA	60.1	375	URR	Ca_27898	--	--
scaffold3258_P3_41416	scaffold3258	41416	AT/A	TTTTGTGTTGAATAC ACGGTT	TTTTCTCGAGTGCA GCTT	58.5	588	INTERGENIC	--	--	--
scaffold3258_P3_46908	scaffold3258	46908	GAC/GACCGGCTACGTAC	ATGGCCCCATTATTGA GGTT	TGCACGAGTCTAATGA GGGA	60.4	696	INTERGENIC	--	--	--
scaffold3258_P3_48852	scaffold3258	48852	TTATGT/TT	ATGACACGGCTGAATG TCAA	ACGCACGTATGTTGTC CAAA	60.1	374	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 (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
scaffold330_P3_4039	scaffold330	4039	GAAAAAAAAA/GAAAAAAAAA	TCGAATCGCTAGGGTG TTAG	TGGATTGAGAATTTTC CGC	58.0	567	INTERGENIC	--	--	--
scaffold3307_P3_13505	scaffold3307	13505	TGTAGT/TGT	GTTTCGTACCCTCGA CAAA	CAGAGGAAATCAAGGA CCGA	60.0	147	INTERGENIC	--	--	--
scaffold3307_P3_15314	scaffold3307	15314	CAAAAA/CAAAAA	AGTGCCACCCGACTAA AATG	GATGAAATCGAGGACT GGGA	60.0	550	INTERGENIC	--	--	--
scaffold331_P3_155436	scaffold331	155436	CATATATATATATATATAT/CATATAT ATATATATATAT	TTGGAAGGAGCCCTTA CCTT	TTGCTATTGAACTCGG AGGC	60.1	716	DRR	Ca_25647	FH	--
scaffold331_P3_19367	scaffold331	19367	ATT/AT	ACATTCCCACACAG GGTA	AAAAACATGCAGGGAA ATCG	60.1	616	INTERGENIC	--	--	--
scaffold331_P3_202046	scaffold331	202046	C/CGA	ATTCCAAACCAAAACCC TCC	GTGATTGGTGCGAAT TGTC	60.0	581	INTERGENIC	--	--	--
scaffold331_P3_26353	scaffold331	26353	CGAAGA/CGA	AGGGAGGATGGAAATG ACCT	TCTTCGTCCTCCCTAG GCTT	59.8	516	INTERGENIC	--	--	--
scaffold3314_P3_7352	scaffold3314	7352	CTTTTT/CTTTTTTTTT	CCATCTTGCCTTGATT GAAA	ACACATTGCAAGGGTT CACA	60.1	436	INTERGENIC	--	--	--
scaffold3317_P3_3339	scaffold3317	3339	TGACGAC/TGAC	GCATCTGTGTAGCCAT CCAA	TAGGTCATTTCTGTC TCCG	59.7	738	INTERGENIC	--	--	--
scaffold332_P3_160323	scaffold332	160323	TTATATATATATATATATATA/TTA TATATATATATATATATATA	TGAGTTGCTGCTGGAA AATG	ATGAGCCCTTACATCC GTTG	60.0	418	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 (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
scaffold3321_P3_25022	scaffold3321	25022	ATTTTTTTTT/ATTTTTTTTT	TTTCTGTTGTAGGAC GGG	CAACAACCTTCATGC TCGC	60.0	711	DRR	Ca_25706	QR	B3
scaffold3321_P3_69689	scaffold3321	69689	TAA/TA	TCTTCAGGAGCTTGG ATTT	TGTGCCGACAATTAAC CAAA	60.0	681	INTERGENIC	--	--	--
scaffold333_P3_19854	scaffold333	19854	CGGG/CGGGG	TCTTCGTTATGCAGTCA ACCTT	TTGGACTTTTCGAGCG ACTT	58.9	594	INTERGENIC	--	--	--
scaffold333_P3_21781	scaffold333	21781	TGGG/TGG	GGTACGAAAATCGCCA GAAA	GACGTGGAACCCAAA GAAA	60.1	585	INTERGENIC	--	--	--
scaffold333_P3_8945	scaffold333	8945	TCC/TC	GATGAAATCGAGGACC AGGA	GACTTTTCGAGCGATT TTCG	60.0	299	INTERGENIC	--	--	--
scaffold3337_P3_3257	scaffold3337	3257	TATATATATAT/TATATATATATAGAT ATATATAT	GCGTTACGGGTAAAA GGTG	AGGAAGAGTGGAGTTG CGAA	59.5	371	INTERGENIC	--	--	--
scaffold334_P3_58371	scaffold334	58371	CTATATATATATATA/CTATATATATA TATATATA	ACCTTGCTCCCTTACCC ACT	TATTTGGATTTTGGCT CGG	60.0	490	INTERGENIC	--	--	--
scaffold335_P3_137920	scaffold335	137920	A/AGCAAACAGAG	ATTTTGACGAACAACAG CCC	GCATGATGCATGTTGA GCTT	60.0	363	INTRON	Ca_26029	--	NAC
scaffold335_P3_191468	scaffold335	191468	ATT/AT	ACTCGAGTCGTTTCGC AAGT	GGAATAAAAGTCCAAT GCCG	60.1	730	INTERGENIC	--	--	--
scaffold335_P3_88156	scaffold335	88156	GTTATTATTATTATTATTATTATTAT TATT/GTTATTATTATTATTATTATT ATTATTATTATT	TTGTCTCTTGTGGCC GACT	TTTACAGGCGATTTG GAGC	60.8	785	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_P3_186479	scaffold336	186479	AT/ATATATGT	CGCGTTAACAGAGGAA GAGG	GCGGTGAATCTTTTAC GAGG	60.0	290	INTERGENIC	--	--	--
scaffold336_P3_202276	scaffold336	202276	TTATATATATATATAT/TTATATATATAT ATATATATAT	TTTCTGCCTTCCTTGCT TGT	AGAATGAGGAGTCTTG CCCA	60.0	467	INTERGENIC	--	--	--
scaffold336_P3_297238	scaffold336	297238	CA/C	TTGGAAGCTCCATGGA AAAC	CCCGTGTCAAATCCT TAAA	60.1	524	INTERGENIC	--	--	--
scaffold336_P3_361009	scaffold336	361009	TA/TTTTACAGCGA	TGCACATTTTACAGCGC TTC	CTGGGCAAGGGATCTG AATA	60.0	666	INTERGENIC	--	--	--
scaffold336_P3_441276	scaffold336	441276	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATA TATATATATAT	CACGACATCCCCTCTT CAAT	ACAAAATATCGGAGGG AGCC	59.9	714	INTERGENIC	--	--	--
scaffold336_P3_487957	scaffold336	487957	ATTTTTTTTT/ATTTTTTTTT	ACGATGACCATAGACG TCCC	TCATAGGTCTCATAGC CCCG	59.8	557	INTERGENIC	--	--	--
scaffold336_P3_536252	scaffold336	536252	ATTTTTTTTT/ATTTTTTTTT	GATTCGATGAGGAAAA CGGA	CTAGCCCGTATTCGAT TCCA	60.0	374	INTERGENIC	--	--	--
scaffold336_P3_592824	scaffold336	592824	T/TC	GAGGAGGGAGGGATT TGAG	TTTGGCTCGAAGGCTT TTTA	60.0	404	INTERGENIC	--	--	--
scaffold336_P3_617875	scaffold336	617875	AATATATATATATATATA/AATATATATA TATATATATA	GGCAACGTGCATAAAC AAAA	TGTGAGTGTGGGAAAC GGTA	59.6	437	INTERGENIC	--	--	--
scaffold336_P3_624730	scaffold336	624730	AG/AGTCACTCTCATGTTCTCG	TTAACCCAAGATTTCAC GGC	CCCACAAAGGGTAGT TGAA	59.9	617	DRR	Ca_21292	--	--

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 (°C)	Expected 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_P3_633921	scaffold336	633921	A/AC	GAGAAAGGCAAGACCA GTGC	TTGCAATTCAACTGAT GGGGA	60.0	365	INTERGENIC	--	--	--
scaffold3362_P3_103460	scaffold3362	103460	GT/GTG TATATATAT	AATGCAATTTTGTATCG ACA	TGGAAATTGTGGGATC CATT	60.1	767	INTERGENIC	--	--	--
scaffold3362_P3_95463	scaffold3362	95463	CATATATATATATATATATATATATATATATA/CATATATATATATATATATATATATATATATA	ATTTCAGCATGCCAAT TTC	TCGAGTTATTGCGAAA ATGAA	59.9	510	INTERGENIC	--	--	--
scaffold3364_P3_43644	scaffold3364	43644	T/TG	AGCCAAGGGAGGATGA AAAT	CGTCCACCCTTTGATT ATCC	59.9	214	INTERGENIC	--	--	--
scaffold3369_P3_18856	scaffold3369	18856	T/TA	TTCAACGTGACCTGCT CATC	ATGGGTCCAGGTCATC TCAG	59.8	671	INTERGENIC	--	--	--
scaffold3369_P3_22053	scaffold3369	22053	TATAATAATAATAATAATAATAATA ATAATA/TATAATAATAATAATAATAATA ATAATAATAATAATA	TCGCCACCGATTTTATT TTT	AATTAATGGTTGTCGC TGCC	59.4	674	INTERGENIC	--	--	--
scaffold3371_P3_34114	scaffold3371	34114	GA/GAA	CGAGCCAAAATCCCAA AATA	CAACACGATCATGACA AGCA	59.9	799	INTERGENIC	--	--	--
scaffold338_P3_76520	scaffold338	76520	G TATATATATATATATAT/GTATATATAT ATATATATAT	CTTGGCCATAAAATCG GAAA	AGGATGCATGGGATGA AAAG	59.9	661	INTERGENIC	--	--	--
scaffold3381_P3_1661	scaffold3381	1661	AC/A	ATGCACACGATTGGTC AAAA	CGTCCTCCCTAGGCTT TTTC	60.0	554	INTERGENIC	--	--	--
scaffold3385_P3_8542	scaffold3385	8542	GTTTT/GTTTTT	TAACCAATCTTGTGCAT CCG	AGGGAGGACGAAAATG ACCT	59.5	271	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
scaffold3392_P3_684	scaffold3392	684	GCTAAACCCTAAACCCTAAACC/GCTAAACCCTAAACC	CATTGCCTTTGTCTTAC GCA	CATAACGGCCGCTCTA AAAA	59.9	638	INTERGENIC	--	--	--
scaffold3397_P3_107475	scaffold3397	107475	CTTTTTTTTT/CTTTTTTTTTTT	CGCTGTGTTGACGAAG AAAA	TTCCAACACTAACCAA CAAAGTG	60.0	683	DRR	Ca_26277	F	--
scaffold3397_P3_15794	scaffold3397	15794	AATATATATATATATATATATATATATATATATATATATATA/AATATATATATATATATATATATATATATA	CACAAAACTAACCCCT TAGAGACA	TTCAACTCATTGAAATT TTGGA	60.0	543	INTERGENIC	--	--	--
scaffold3397_P3_16196	scaffold3397	16196	TAT/TATGAAAT	TTTCTGTGTTTGAATA AGATATCCA	GGGCATGTTGGTTGAG TTTT	59.5	526	INTERGENIC	--	--	--
scaffold3397_P3_17764	scaffold3397	17764	AT/ATT	GATCAGATCTGGCAGC AACA	GAGGATGGAATTGCT GCAT	60.0	366	DRR	Ca_26271	--	--
scaffold3397_P3_27868	scaffold3397	27868	ATTTTTTTT/ATTTTTTTTTT	TGAAAAATCCGCACACAA AAA	TTTGGGGTGAGAATTG AGAAA	60.1	470	INTERGENIC	--	--	--
scaffold3397_P3_55203	scaffold3397	55203	ATA/ATACTATTA	TTACTCACTTGCAACAC GCC	GGGAAGCAATGTTTGG ATCC	59.9	859	INTERGENIC	--	--	--
scaffold3397_P3_73585	scaffold3397	73585	CTTTTTTTTTT/CTTTTTTTTTTTT	TCCAAGCTCCTTGTTTC CTG	CACAAAATGGGAGTTT TAGCC	60.4	560	INTERGENIC	--	--	--
scaffold3397_P3_88653	scaffold3397	88653	GTTATTATTATTATTATT/GTTATTATTATTATTATTATTATTATT	CGGCAAAATATCAGAAA CACG	AGGATGCGACCATTTA CTGC	60.5	477	INTERGENIC	--	--	--
scaffold340_P3_100873	scaffold340	100873	TTCTC/TTC	AACGTGGGTTACGTCC AGTC	AAATGCAGAGCACCTC CAAC	59.9	530	INTRON	Ca_24959	U	--

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 (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
scaffold340_P3_119053	scaffold340	119053	CAACAAAAA/CAAAAA	GGTTGCGTAGTGGTAG CCAT	CTCCGAGCCAATATCC AAAA	60.0	623	INTERGENIC	--	--	--
scaffold340_P3_135811	scaffold340	135811	ATTTTTTTT/ATTTTTTTT	TTTGACGCTTAACTAT CCCG	AACTTTGTCCATTTTAT TGGCTT	59.3	530	INTERGENIC	--	--	--
scaffold340_P3_137373	scaffold340	137373	TCCC/TCC	TGTTGGCTTTCCTCCT TTA	ACAAAAATCAGGTTGC GAGG	59.7	430	INTERGENIC	--	--	--
scaffold340_P3_137577	scaffold340	137577	TAAAAAAAAA/TAAAAAAAAA	TTTCACTGTTTATGCTG GCG	CAAAATCAGGTTGCG AGGT	59.9	195	INTERGENIC	--	--	--
scaffold340_P3_145370	scaffold340	145370	CAATATTAA/CA	TGGAATCACCATCTCA CAA	GGGCAAGATCGTTGGT ACAT	59.9	271	INTERGENIC	--	--	--
scaffold340_P3_155007	scaffold340	155007	TAAAAAAAAA/TAAAAAAAAA	TGATGTGGCACTGTGA CTGA	TGAGGACTGGACGTAA CACG	59.9	794	INTERGENIC	--	--	--
scaffold340_P3_161360	scaffold340	161360	ATTTTTTT/ATTTTTTT	GCGGATATCGTAGGGT GCTA	TACATCCAGAAGGCTA CCGC	60.1	539	INTERGENIC	--	--	--
scaffold340_P3_161647	scaffold340	161647	ATTT/ATTTCTTT	GCGGATATCGTAGGGT GCTA	TCACAAGGGAGGCTCT ATGG	60.1	694	INTERGENIC	--	--	--
scaffold340_P3_172201	scaffold340	172201	ATTTTTTTT/ATTTTTTTT	AGGGGAACATTGCAA ACAA	TAAAGCCGCCACAAAT TCTC	60.3	810	INTERGENIC	--	--	--
scaffold340_P3_175477	scaffold340	175477	TTATATATATATATATA/TTATATATA TATATATATATATA	TCTTGTGTTGGGTG CTTTT	TGTAAGTTGAAAGGAG GCCG	59.6	661	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 (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
scaffold340_P3_18699	scaffold340	18699	CA/CAAA	GAATGCACACAGCAGA AGGA	CTAACTCTAATGGGCG GCAG	60.0	639	DRR	Ca_24954	DL	--
scaffold340_P3_194683	scaffold340	194683	GAAAAAAAAA/GAAAAAAAAA	AGGTGCGAGGGGATAG TTTG	TTCAAGTGGCATGAT GAAA	60.3	628	INTERGENIC	--	--	--
scaffold340_P3_218055	scaffold340	218055	ATTTTT/ATTTTTT	TATATAGACTGGGCCA CGCC	TCGTATGCACGAATCC GATA	59.9	521	INTERGENIC	--	--	--
scaffold340_P3_259744	scaffold340	259744	GAAAAAAAAA/GAAAAAAAAA	TTTCGCTAAATTACATT TGTGG	GAAAGAGCTTTTGATT GGACG	59.0	745	INTERGENIC	--	--	--
scaffold340_P3_259875	scaffold340	259875	CT/CTTTTTATTT	TAAAGGACCAAGTCGG GAAA	GAAAGAGCTTTTGATT GGACG	59.5	449	INTERGENIC	--	--	--
scaffold340_P3_260137	scaffold340	260137	AT/ATGT	TAAAGGACCAAGTCGG GAAA	GAAAGAGCTTTTGATT GGACG	59.5	449	INTERGENIC	--	--	--
scaffold340_P3_278027	scaffold340	278027	GTTTTTTTTT/GTTTTTTTTT	AGGGGTATGAGCGATG TCTG	GCATTGCATTTTGAAG GGAT	60.1	681	DRR	Ca_24964	--	--
scaffold340_P3_278848	scaffold340	278848	TAAAAAAAAA/TAAAAAAAAA	AAAACCTCTCGCATGG TCAG	GTTGGTCCTTTTGAC CTCA	60.3	551	DRR	Ca_24964	--	--
scaffold340_P3_284582	scaffold340	284582	GAAAAAAAAA/GAAAAAAAAA	TATCCCCCAAGATTGG ATCA	CGAGCCAAATCCAAA ACAT	60.1	455	INTERGENIC	--	--	--
scaffold340_P3_316742	scaffold340	316742	ATTTTTT/ATTTTTTT	CGGGAATTAAGTGAAG GCCA	TGTTTCATGGATGCAA GTACG	60.1	610	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
scaffold340_P3_48199	scaffold340	48199	GAAA/GAA	CGACCCAAGCATCTTG AAAT	TATGTATGGAGAGGCC CCAG	60.1	400	INTERGENIC	--	--	--
scaffold340_P3_60721	scaffold340	60721	CTTTTTTTTT/CTTTTTTTTTT	TGCTACGCACTAGATG GCAC	TTGCAGCATTGTCTTT GTCC	60.0	803	INTERGENIC	--	--	--
scaffold340_P3_66713	scaffold340	66713	ATTTTTTTT/ATTTTTTTTT	AACACACGCACCAACA AAGA	TGAATATGCGTCGACT GAGC	60.2	559	INTERGENIC	--	--	--
scaffold340_P3_79441	scaffold340	79441	TAAAAAAAA/TAAAAAAAA	CAAATGTGTGTCCTT GGAC	GGATCAAATCGGAAG AAAA	60.0	702	DRR	Ca_24958	R	NAC
scaffold3403_P3_754	scaffold3403	754	A/AG	AGGTCACTTTCGTCT CCCT	GCGTTTTCCAGAAGT CTTC	60.1	353	INTERGENIC	--	--	--
scaffold341_P3_135303	scaffold341	135303	GAAAA/GAAAAA	AATGGAGTTGCGACGA GAGT	TCTCCGTAAAGGATTC ACCG	59.9	540	INTERGENIC	--	--	--
scaffold341_P3_188800	scaffold341	188800	A/AC	TAATGGTTTTACGCCA ACA	CGCGGTAAACGGAGAT TTTA	60.0	583	INTERGENIC	--	--	--
scaffold342_P3_120732	scaffold342	120732	ACTCTCTCTCT/ACTCTCTCTCTC TCT	TTATTGTTAGTGCGCG CTTG	CACACAAACATTCATT GCCC	60.0	611	INTERGENIC	--	--	--
scaffold342_P3_28576	scaffold342	28576	ATT/ATTT	GTTTGCAACGGGAAAT AGAA	CAACCACTCAACACAC CCTTC	59.9	321	INTERGENIC	--	--	--
scaffold342_P3_310549	scaffold342	310549	CATATATAT/CATAT	TTGTGACATTTATCAA ACACA	CAACCGACGTTGAAGA ACAA	57.5	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 (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
scaffold342_P3_340574	scaffold342	340574	TC/T	TGTTCCAGCATACCAAA TGC	AGCAAAATCCGAGGAG GAAT	59.5	557	INTERGENIC	--	--	--
scaffold342_P3_370625	scaffold342	370625	TTATCAT/TT	TGGGGTCCTTTCTCTT CTCC	TATGCCCATTGAGTTG GACA	60.6	387	INTERGENIC	--	--	--
scaffold3422_P3_13107 2	scaffold3422	131072	ATT/A	CCGAAATCATGTAATT GACCA	TGTGTTGCACCTTGACA CGAA	59.7	668	INTERGENIC	--	--	--
scaffold3432_P3_14117	scaffold3432	14117	TTACTC/T	TATTGGAAGGCACACC CCTA	TCCCACTCTTCAATGC TCTTT	60.3	376	INTERGENIC	--	--	--
scaffold3432_P3_23969	scaffold3432	23969	CAATAAT/CAAT	CCTGAATCCGAGACAA GACG	TCATGGGTTGTATGGA AGCA	60.8	487	INTERGENIC	--	--	--
scaffold3432_P3_35439	scaffold3432	35439	TTTATATT/TTTATATTATATT	TGATTGATTTTGCGGTT ACG	AAAGAGATCGGTTCTA CCCAAA	59.6	278	INTERGENIC	--	--	--
scaffold3434_P3_11167	scaffold3434	11167	AGGGG/AGGG	CTTTCTCCATTTCCACC CAA	TCACTCAAAGGGCTAC TGCC	59.9	532	INTERGENIC	--	--	--
scaffold3434_P3_7670	scaffold3434	7670	GAAAAAAAAA/GAAAAAAAAA	CGACATTCGTCATGGT TTTG	CGTCTGAAACACAAAC ACTTTCA	60.0	971	INTERGENIC	--	--	--
scaffold3436_P3_13785	scaffold3436	13785	TGAGGA/TGA	GCGCTACATTTACGG CTCT	TTCGTCCTCGAAATTC AACC	59.5	757	INTERGENIC	--	--	--
scaffold3436_P3_9281	scaffold3436	9281	GAGACTTAT/G	GGCCATGAATTCAACA ACAA	TTGCCAAATACAAAAA GAAATGAA	59.4	570	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
scaffold3436_P3_9348	scaffold3436	9348	GTAATAATAATAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAGTAATAATAATAA/GT AATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA AATAATAATAATAATAATAATAA	TTTCACCATTTTGCATT TCG	CAGGTCACGTTATTTT GTTTCA	59.5	635	INTERGENIC	--	--	--
scaffold3436_P3_9959	scaffold3436	9959	TAA/TTAATAATATACAAA	TGGAGTTCGGGCTAAG TACAG	CGTGCTTGCAGAAAA CAAA	59.4	309	INTERGENIC	--	--	--
scaffold3438_P3_12015	scaffold3438	12015	CAACAATAA/CAA	GGCAGTCGATTAA TCAA	ACATCCAGTCCTGCA ATCC	59.5	833	INTERGENIC	--	--	--
scaffold3438_P3_22632	scaffold3438	22632	TA/T	GTGCTGTTGAACCCCA AACT	TGAATACCCTCCCTTG AACG	60.0	711	INTERGENIC	--	--	--
scaffold3447_P3_34619	scaffold3447	34619	CATATATATATATATAT/CATATATAT ATATATAT	CGAGTGAGCGTTCTAG TATCCA	AGCCCTGTTTGATTCC CTTT	59.5	847	INTERGENIC	--	--	--
scaffold3448_P3_6184	scaffold3448	6184	GCT/G	AGCCATATTCGACCAAA TCG	AGGAAACAGTCACACC GACC	59.9	578	INTERGENIC	--	--	--
scaffold3453_P3_1173	scaffold3453	1173	CA/CAAA	ATATGCCTCTACCGTG CAGC	TCGTGAAAGCAACAA AGGA	60.3	507	INTERGENIC	--	--	--
scaffold3463_P3_9463	scaffold3463	9463	GAAA/GAA	CCGTTGCTTGTCCGA AAAT	GGTCCGATTTTCATC TGGA	60.0	577	INTERGENIC	--	--	--
scaffold3472_P3_51384	scaffold3472	51384	TAAAAAAAA/TAAAAAAAAA	GAAATCCATGTTAGAAA TTTTGTTGA	TTGTGTTGTTTGGC TTCA	59.7	327	INTERGENIC	--	--	--
scaffold3472_P3_6763	scaffold3472	6763	GTATATATATATATATATATATATAT ATA/GTATATATATATATATATATATA TATA	CAAGCATGATCCAGGG AGAT	CTCGGCAGTTTGTGT GTAA	60.0	471	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 (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
scaffold3472_P3_71251	scaffold3472	71251	CTACAGCGCTT/CTACAGCGCTTGTT TACAGCGCTT	GAAAGCGCTTCGTTT ACAG	GACATTTAACAGCGCC CATT	60.0	159	INTERGENIC	--	--	--
scaffold3472_P3_7148	scaffold3472	7148	TATTAATAATT/TATTAATAATTAAT AATT	CAGGCTAGCTAAATGC CTCG	ACCATGGTTGTTGCAA GTGA	60.1	720	INTERGENIC	--	--	--
scaffold3472_P3_9063	scaffold3472	9063	CAA/CAA	GCTCCATGTGCTTCAC ACAC	GTGACACGTGACAATC CCAC	60.3	107	INTERGENIC	--	--	--
scaffold3472_P3_9396	scaffold3472	9396	TC/TCC	TTTTGACAGAGAAACCC GCT	CTGTGAGAGCGGAAGA TGGT	59.9	223	INTERGENIC	--	--	--
scaffold3475_P3_31282	scaffold3475	31282	TG/TGG	GCTATTTTCGTACCAC CGA	GCCCCAAAAGTCCAGA TGAA	60.0	326	INTERGENIC	--	--	--
scaffold3475_P3_6139	scaffold3475	6139	AG/A	GGCCTGGAGACCCCTTA TAGC	ACCACTCGACGAAAAT GGAC	60.1	616	INTERGENIC	--	--	--
scaffold3483_P3_2437	scaffold3483	2437	GTT/GTTT	TGCATCCAATTGGTGT GTTT	AGGGAGGACGAAAATG ACCT	59.8	559	INTERGENIC	--	--	--
scaffold3485_P3_4608	scaffold3485	4608	A/AGAACA	AACCAATCATGTGCATC CAA	AGGGAGGACGAAAATG ACCT	59.8	468	INTERGENIC	--	--	--
scaffold3489_P3_1552	scaffold3489	1552	GTTT/GTT	ACTATCCATCGTCTGTT CCG	GAAAGGGTCCAACAGA ACGA	60.0	452	INTERGENIC	--	--	--
scaffold3489_P3_2052	scaffold3489	2052	TAATAAAAAATAAAAAATAAAAAATAAA AAA/TAATAAAAAATAAAAAATAAAAA	TCGTTCTGTTGGACCC TTTC	AGTGGAATAATGCCG TTGC	60.1	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 (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
scaffold349_P3_167037	scaffold349	167037	TA/TAAC TCCA	TTCTTTTCTGGTGGCA TTC	ATGTCTCGTCATTCGG GAAG	60.1	903	CDS (FRAME SHIFT)	Ca_24503	--	M-type
scaffold349_P3_177787	scaffold349	177787	GTTATTGAATT/GTTATTGAATTCCTTT ATTGAATT	GCGATAATCCCCGTAA GGAT	TAGGTGCAGGTCATGA AACC	60.1	652	INTERGENIC	--	--	--
scaffold349_P3_335267	scaffold349	335267	ATT/ATTT	TTGGTCAATGTGGCTT CTCA	CTGAGCTTGTGACCAA ATCG	60.2	531	INTERGENIC	--	--	--
scaffold349_P3_55144	scaffold349	55144	ATTCACC/A	AAATGGAGGAAGGAGG GAGA	ATGCCGTTTGAATTA CTCG	60.0	340	INTERGENIC	--	--	--
scaffold349_P3_59238	scaffold349	59238	AATATATATATATATATATATATATAT ATATATATATATAT/AATATATATATATA TATATATATATATATATATATATATAT ATATATATAT	CAATTGAGTTGCGACG AGAG	TCACTAGCATCGTAGC GTGG	59.6	504	INTERGENIC	--	--	--
scaffold349_P3_70201	scaffold349	70201	GTATATATATATATATATATATAT/GTAT ATATATATATATATATATATAT	ATTAACCCCAACAGCAT TCG	AATGCATGCTCCCTTA ATTG	59.8	596	INTERGENIC	--	--	--
scaffold350_P3_118793	scaffold350	118793	CA/C	TTGGATCAAATTGCTTG GAA	CAATCGATTCCCTCAG CACT	59.1	309	INTRON	Ca_26736	Q	--
scaffold350_P3_165550	scaffold350	165550	ATGTGTG/ATGTGTGTG	CAATTCCATGGCTCCAA AGT	CAATGCCTCCCCATAA CAAT	59.9	670	INTERGENIC	--	--	--
scaffold3500_P3_6141	scaffold3500	6141	C/CTGTA	GCGTTTCGATTCCACAT CTTT	TCATTATGCGTGTTCC GCTA	60.1	434	INTERGENIC	--	--	--
scaffold3500_P3_75959	scaffold3500	75959	A/ATATATATAT	CTTGTTTTGGTCACTTG GCA	CGCTTTCTTTAGTGAC CGCT	59.7	803	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
scaffold3513_P3_20042	scaffold3513	20042	ATTT/ATTTT	TAGGCTTAGGGAGCAC GAAA	TGTGTCTGTGCCATTG GATT	60.0	850	INTERGENIC	--	--	--
scaffold3514_P3_12548	scaffold3514	12548	CAAAAAAAAA/CAAAAAAAAAA	CTCTTTAAGACGTTTCG CGG	TTGGTGCCCACTGAT TCAA	60.0	653	INTERGENIC	--	--	--
scaffold3514_P3_14351	scaffold3514	14351	TAAAAAAAA/TAAAAAAAAA	TTTGAATATGAGAGTTT GGGTTG	ATGGTGAAGAAGAAG GTGC	58.2	454	INTERGENIC	--	--	--
scaffold3514_P3_40711	scaffold3514	40711	GAAA/GAAA	TGACCAAATCGGAATT GATTTT	CATTTCGAATCTTCC CGTA	60.5	723	INTERGENIC	--	--	--
scaffold352_P3_116417	scaffold352	116417	TGGG/TGG	AGATTGACAACGGCAT CTCC	ATCGACCCCAATATC ACAA	60.1	496	INTERGENIC	--	--	--
scaffold352_P3_133593	scaffold352	133593	AAAGA/AA	TTTTGAGTTCGGGAGT CGAT	TTTCTTGAGTTTGGG ACACA	59.7	453	INTERGENIC	--	--	--
scaffold352_P3_177986	scaffold352	177986	TAAAAA/TAAAAA	AACGCATCTTTTACCC ACG	GGCCTGAATCTCATCC AAGA	60.0	568	INTERGENIC	--	--	--
scaffold352_P3_178010	scaffold352	178010	ATTT/ATT	AACGCATCTTTTACCC ACG	GGCCTGAATCTCATCC AAGA	60.0	568	INTERGENIC	--	--	--
scaffold352_P3_178511	scaffold352	178511	ATGAGTTGAGTTGAGTT/ATGAGTTGA GTT	TCGCAATGCAACATCTC TTT	GCTTGTGAGTGTGTGT GCCT	59.4	823	INTERGENIC	--	--	--
scaffold352_P3_192510	scaffold352	192510	ATTTTTTTTTT/ATTTTTTTTTTT	TGTGTAAGGCTTATGT GGCG	GCAAGGGAGAGCAAG TTTTG	59.8	762	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 (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
scaffold3529_P3_23523	scaffold3529	23523	G/GT	TTGTGACGCTGGAAG TCTG	TAACCAATCTTGTGCA CCCA	60.0	438	INTERGENIC	--	--	--
scaffold3539_P3_5454	scaffold3539	5454	TAAAA/TAAAAA	GGAGGGCGAAAATGAT GTAA	CTTGCGCATCCAACAA GTTA	59.9	861	INTERGENIC	--	--	--
scaffold3542_P3_21737	scaffold3542	21737	ATTTTTTT/ATTTTTT	ATTGCAACTGCCGGA ATAC	TGAAGTTCAAATTGAA AAACAAGA	60.0	577	INTERGENIC	--	--	--
scaffold3542_P3_25608	scaffold3542	25608	C/CGGCGCAT	CAGGTTAGGAAGCAAG CAGG	TACAGCGCTCATTTCC ACAG	60.0	527	INTERGENIC	--	--	--
scaffold3542_P3_26037	scaffold3542	26037	TT/TCAGATTAT	CTGTGGAATGAGCGC TGTA	AGACCTTGGACACGTA ACGG	60.0	464	INTERGENIC	--	--	--
scaffold3542_P3_34290	scaffold3542	34290	GTTT/GTTTCTTTTT	AATTCATTGCTTCCAG CAT	GGATTAGCCGCTTCAA TGAG	59.7	770	INTERGENIC	--	--	--
scaffold3542_P3_507	scaffold3542	507	AGGGGGGG/AGGGGGG	GAAGAGTTACGCGGAC AAGC	CCGAGCCAAAATCCAA AATA	60.0	566	INTERGENIC	--	--	--
scaffold355_P3_1384	scaffold355	1384	GTTTTT/GTTTT	GGGGCGTTACATGTGG TATC	CAGATTCACGAAGGTC ACACA	60.1	314	INTERGENIC	--	--	--
scaffold3562_P3_1038	scaffold3562	1038	ATTT/ATT	AGGGAGGACGAAAATG ACCT	CCAATTGGTGTGTTTG CATC	59.9	556	INTERGENIC	--	--	--
scaffold3594_P3_794	scaffold3594	794	GC/GCTCCACC	CGAACTGGGCTCAGAG AAAC	ACGATCTCGTTTTGAA CGCT	60.0	498	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 (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
scaffold3594_P3_965	scaffold3594	965	GAGCTAAAAAGCTAAAAAGCT/GAGCT AAAAAGCTAAAAAGCTAAAAAGCT	CGTTCAAACGAGATC GTCA	TACAATGCCGAGCAAA TCAA	59.8	575	INTERGENIC	--	--	--
scaffold36_P3_138770	scaffold36	138770	GAAAAA/GAAAA	CCAATCATTGTCCAAGA GAGC	TTGGGCTGATGCAATA AACA	59.7	607	INTERGENIC	--	--	--
scaffold36_P3_236312	scaffold36	236312	ATTTTTTTTT/ATTTTTTTTT	TAGGTCTCATAGCCCC GATG	GCCCTCAGATGAGAGT CAGG	60.1	640	INTERGENIC	--	--	--
scaffold36_P3_294954	scaffold36	294954	AATATATATATATA/AATATATATATATA TA	CTTGGGCTTTACCCAT GAAA	TGTCGTGTGCTTCAAA AAGG	59.9	598	INTERGENIC	--	--	--
scaffold3600_P3_4483	scaffold3600	4483	AC/A	TGTTAGGAGGATCTCA CGGG	CCTGACAACCTCAACCC CCTA	60.1	498	INTERGENIC	--	--	--
scaffold3600_P3_987	scaffold3600	987	AG/AGTTATGAGAATG	TATTTGTTGGCCTTGG GAAG	CTCCGAGCCAATATCC AAAA	59.9	376	INTERGENIC	--	--	--
scaffold362_P3_166434	scaffold362	166434	TGA/T	CCCGGTATTGTTTGTG CTCT	CACATCAGCCACATT GACC	60.0	774	DRR	Ca_24991	C	--
scaffold362_P3_196137	scaffold362	196137	TA/TAGTGTCA	TCAAAGACGGAGTATG TGCG	AAGCTGCAACAATCAA AGCA	59.9	704	DRR	Ca_24993	--	--
scaffold362_P3_267543	scaffold362	267543	A/AC	TATCTTGTTCCGACCCA ACC	CTTGAATTCATGCGT CCTT	59.8	698	INTERGENIC	--	--	--
scaffold362_P3_35810	scaffold362	35810	TGGGGG/TGGGG	TACATATTGGAGGGGC CAAA	GCCTCCAACTCTAAGG TCCC	60.1	422	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold366_P3_68160	scaffold366	68160	ATTT/AT	GCTGATGCAAAGGATT GGTT	CAATGAAAGGGGGTT TGAA	60.1	143	INTRON	Ca_26528	--	--
scaffold366_P3_80006	scaffold366	80006	CATAT/CATATATAT	AAATTGGTTGAACGTG GTGG	AAGGCAAAGGATCAAA TGGT	60.6	710	INTERGENIC	--	--	--
scaffold3663_P3_4120	scaffold3663	4120	T/TG	TTTTATTGTTTTACTAC ATAACGACGA	AAGTTTGACTGCATAA CAATGACA	57.7	631	INTERGENIC	--	--	--
scaffold3663_P3_4430	scaffold3663	4430	TAAA/TAAAA	TGTCATTGTTATGCAGT CAAACCT	TCTTCGTTTTATGGTTT TATTTCA	58.7	280	INTERGENIC	--	--	--
scaffold367_P3_158974	scaffold367	158974	ATAT/ATATATATATTTAT	TATTTTGGATTTTGGCT CGG	AGGAAGAGTGGAGTTG CGAA	59.9	513	INTERGENIC	--	--	--
scaffold367_P3_44857	scaffold367	44857	GTATTATTATTATTATTATT/GTATTATT ATTATTATTATTATT	AGGACCATTGCAGCCA ATAC	GGAGACTTGGGGCAAT TACA	60.0	695	INTERGENIC	--	--	--
scaffold367_P3_6329	scaffold367	6329	AGGGG/AGGG	GACACCCTAGGCCAA TGAA	TAGATTGGGTGGATTC GCTC	59.9	556	INTERGENIC	--	--	--
scaffold3687_P3_105794	scaffold3687	105794	CTATATATATATAT/CTATATATATATAT AT	CCGAGCCAAATCCAA AATA	GAAAGATCAAAGTCC GAGG	59.9	718	INTERGENIC	--	--	--
scaffold3687_P3_119976	scaffold3687	119976	C/CATGTCTTT	TGCTCTTTGCGACCTT ACT	AAAATGTTGGAGCCAA ATGC	60.0	442	INTERGENIC	--	--	--
scaffold3687_P3_143982	scaffold3687	143982	TTCTTATTTTCAT/TT	TCGAAACAAAAGCCCA ATTC	TCAATGGAATAAAAA GGGGG	60.1	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold3687_P3_82563	scaffold3687	82563	G/GTAA	GAGTTTCCTCTACCACC CCC	GGGACTATGTTAGTGG CGGA	59.8	417	INTERGENIC	--	--	--
scaffold3689_P3_16220	scaffold3689	16220	TATTCA/TA	TCCCATCCCTATTTTGG ACA	ACATGGCAAGCCAAAT TTTC	60.1	350	INTERGENIC	--	--	--
scaffold369_P3_125737	scaffold369	125737	ATTTTTTTTTTT/ATTTTTTTTTTT	CGGAAGCTCGGATTAC ACAT	GGGTCGTGGGACTTTG ATAG	60.1	771	INTERGENIC	--	--	--
scaffold369_P3_49034	scaffold369	49034	GTATATATATATATATATATATAT/GT ATATATATATATATATAT	AATGGAGGAAGGAGGG AGAA	TGTAAGTGGGCGATA GAGG	60.0	626	INTERGENIC	--	--	--
scaffold369_P3_73779	scaffold369	73779	GGAAAGAAAGA/GGAAAGA	CGGTGAATCCTTTACG GAGA	AATGGAGGAAGGAGG GAGAA	60.1	297	INTERGENIC	--	--	--
scaffold37_P3_15297	scaffold37	15297	AT/ATT	AAAACGATTCGGCCTT TTT	TGGCAAATCGATTGAA ACAA	60.0	636	INTERGENIC	--	--	--
scaffold370_P3_101037	scaffold370	101037	CAA/CA	TCCTGGTCCTCGATTT ATC	CGGGTTCAACACTAG CCAT	60.0	434	INTERGENIC	--	--	--
scaffold370_P3_160053	scaffold370	160053	ATT/ATTT	TGTGGTTGGTGGTTTG TGTT	CCGGATATAACCAGCC ACAC	59.7	274	INTERGENIC	--	--	--
scaffold370_P3_37851	scaffold370	37851	GAA/GA	TTATTTAGTACCACTAC AAAACGAAGA	AGTCCAGATGAAAGCG AGGA	57.0	395	INTERGENIC	--	--	--
scaffold370_P3_40522	scaffold370	40522	AT/ATTGACCGAAAATGGGT	TGGACTTTTCGAGCGA CTTT	TTGAACATTAGCCATC ATTGG	60.0	193	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 (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
scaffold370_P3_58169	scaffold370	58169	TC/T	CCCTCGTCGTGTTGA AAAT	TTTGGGCACTTTTCG TACC	60.0	393	INTERGENIC	--	--	--
scaffold370_P3_75163	scaffold370	75163	AC/A	GATTTTCGTACCCCTC GTCA	AGTCGCTCGAAAAGTC CAAA	59.9	533	INTERGENIC	--	--	--
scaffold370_P3_89771	scaffold370	89771	GAAA/GAAAA	GGTTCGAAAATTGCCT GAAA	CCCGAAACGCAGTTAC AAAT	60.1	416	INTERGENIC	--	--	--
scaffold3705_P3_4075	scaffold3705	4075	TC/TGGGCTAAAACCC	CAATAACCCCTCAATGG CTCA	GCTTTGCTCCCTTTC CTCT	59.9	393	INTERGENIC	--	--	--
scaffold3707_P3_1070	scaffold3707	1070	TAAAAAAAA/TAAAAAA	GGAAATGGATCCTTTG CATC	CAAGGTAAGACCTCC ACCA	59.3	270	INTERGENIC	--	--	--
scaffold373_P3_1311	scaffold373	1311	A/AT	TCGATTTGGTCACAAG CTCA	GAAGCAAATCGATTGG GAAA	60.4	549	INTERGENIC	--	--	--
scaffold373_P3_25857	scaffold373	25857	ACTTC/ACTTCTTC	AGCCACGAATTTAAGCT CCA	AGGGACAAGGGCAA GAAAT	59.8	559	INTERGENIC	--	--	--
scaffold374_P3_118629	scaffold374	118629	CTTATTATTATTATTAT/CTTATTAT TATTAT	TAAAAAGCCTTCGAGC CAAA	ACCCAAGGAAGCAAAA GAGA	60.0	708	INTERGENIC	--	--	--
scaffold374_P3_13002	scaffold374	13002	AC/ACC	CAAATTCAACGAGGTC ACACA	ATTGGAGCGTTACAT TGGG	59.6	184	INTERGENIC	--	--	--
scaffold374_P3_141916	scaffold374	141916	TG/T	GATTCCTTCTTAAC GCC	GGTAAGGGCTCCTCC AAAC	60.6	497	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
scaffold374_P3_142006	scaffold374	142006	TAAA/TAA	AATTCCTCCACACAA CCA	AGCGGAGATTTACCG GAAT	60.2	128	INTERGENIC	--	--	--
scaffold374_P3_14684	scaffold374	14684	CAA/CA	AGTCACTCATACCAAC GGGG	TTTTGGGGGAATTGGT AAAA	59.8	633	INTERGENIC	--	--	--
scaffold374_P3_149528	scaffold374	149528	CTT/CTTTT	AAGGGTGAAGAGGAG GAAA	TGATGTTTGAGATGCA AAAGC	60.0	473	INTERGENIC	--	--	--
scaffold374_P3_154680	scaffold374	154680	TAAAAAAAAAAAAA/TAAAAAAAAA	GATTGATGTTGGGAC CGTT	TCAAATGCTTCAACTT GTGCTT	59.7	477	INTERGENIC	--	--	--
scaffold374_P3_158468	scaffold374	158468	ACACGATCAGCACGA/ACACGA	CCTATCAGGTCAGC ACGA	GGTGTGGATGGAATT GGAG	59.9	531	INTERGENIC	--	--	--
scaffold374_P3_203256	scaffold374	203256	GTTTTTTTTT/GTTTTTTTTTT	AGCTTCACCGTGTGCT CTCT	GTGAGTTGGGCTTGGA CTGT	60.2	942	INTERGENIC	--	--	--
scaffold374_P3_205813	scaffold374	205813	CAT/CATCCTGAT	AGCTGTTTCTGCTAGG CTGG	TTTATTTACGCGAATG CCCT	59.8	941	DRR	Ca_26214	O	--
scaffold374_P3_2435	scaffold374	2435	GA/G	ATCGATTGGGAAATCG ACTG	CGATTGTGTTTGTAC AGGG	59.9	249	INTERGENIC	--	--	--
scaffold3742_P3_3802	scaffold3742	3802	TTAT/TTATAT	CGATAGACTCAAGTTG GACCTG	GTGTCTGCTTGTTC CTGA	58.9	632	INTERGENIC	--	--	--
scaffold3742_P3_4056	scaffold3742	4056	A/AG	ACCCGAAGAACCAGAC TTTG	GTGTCTGCTTGTTC CTGA	59.2	232	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
scaffold377_P3_147292	scaffold377	147292	CTTATTATTATTATTATTATTATTAT TATTATTGTTATTATTATTATTATTAT TT/CTTATTATTATTATTATTATTAT TATTATTATTATTATTGTTATTATTAT TTATTATTATT	TAGGGTTAAGTGAATG GCCG	CGTCGTCACGTCCTTC ATTC	60.0	742	INTERGENIC	--	--	--
scaffold377_P3_207835	scaffold377	207835	GAAAA/GAAA	GCCCATTGCCAAATTG ATTA	TTGGTGAATGGCCTC TATC	60.7	978	INTERGENIC	--	--	--
scaffold377_P3_251447	scaffold377	251447	ATT/ATTTTATTTTT	TTAGCCTTGTGGAATG GGTC	TGATTTCAAATGAATT GGTGC	59.9	894	INTERGENIC	--	--	--
scaffold377_P3_261998	scaffold377	261998	C/CG	ACAACGAGGGGTGAGT ATCG	CAAACCTAGTGATTG GGGA	60.0	490	INTERGENIC	--	--	--
scaffold377_P3_263808	scaffold377	263808	GTATATATATATATATATATATAT/ GTATATATATATATATATATATAT	GTGTGTAGAAGCCTAG CCGC	TGCACTTGTCCTTCA ATCG	60.0	690	INTERGENIC	--	--	--
scaffold377_P3_357709	scaffold377	357709	TAAA/TAAAA	CCCCGCTCTGATAGGT GATA	AACCATCTCGGTGGAC AGAC	60.1	469	INTERGENIC	--	--	--
scaffold377_P3_75306	scaffold377	75306	C/CAT	TCACGGGTCGACACAA TTTA	AACTGGACGTTGAGAA TGGG	60.0	403	INTERGENIC	--	--	--
scaffold3780_P3_21052	scaffold3780	21052	ATTTTTTTTT/ATTTTTTTTT	GGCTTTCTACGGTGCA AGAG	CCTTTGAGTTGCGTTG TTGA	60.0	296	INTERGENIC	--	--	--
scaffold3780_P3_7994	scaffold3780	7994	C/CT	TCATTGCGTAAATTAGC CCC	CCCAATCCCCCAACT TAAC	59.9	557	INTERGENIC	--	--	--
scaffold3780_P3_9020	scaffold3780	9020	ATTTTTTT/ATTTTTT	GACATGCGTCATTCCA ACAC	GCACAAGCTTGCACT TAAA	60.0	579	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 (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
scaffold3789_P3_2620	scaffold3789	2620	AGG/AGGG	AATGGTTCTTGGACAG TGGC	GGCTGGTGGTTTGTAT AGGA	60.0	548	INTERGENIC	--	--	--
scaffold379_P3_194523	scaffold379	194523	AATATATATATATATATATA/AATATA TATATATATATATA	CCGAACCTTACTGGGC CTAA	ACCGTTTGGTGTTTC TTGC	59.2	602	INTERGENIC	--	--	--
scaffold3794_P3_16662	scaffold3794	16662	ATTTTTTTTT/ATTTTTTTTT	TGATTAATCTGATTTGG CGG	TGCGTGGGATATACGG ACTT	58.6	279	INTERGENIC	--	--	--
scaffold3794_P3_3310	scaffold3794	3310	GAAAAAA/GAAAAAA	GAAGCAAATCATGTATT TTCCTTTT	GGGAAAAGACTTAGC TGTGGA	60.1	921	INTERGENIC	--	--	--
scaffold3794_P3_33596	scaffold3794	33596	CTGT/CT	CTTTTGCCGACATTCA AGT	AGCCAAGTGCCCTCT CACA	60.1	665	DRR	Ca_26694	--	--
scaffold3794_P3_34380	scaffold3794	34380	GTAT/GTATTTTCATTTATATTAT	TGTGAGAGGGACACTT GGCT	CAGTGTCGTGGTGGAT TTTG	60.9	499	INTERGENIC	--	--	--
scaffold3794_P3_35234	scaffold3794	35234	ATTTTTTTTT/ATTTTTTTTT	TGAAATACAATGGTCCC GTTT	GCTCAGCCAACTGTGA CAAA	59.2	576	INTERGENIC	--	--	--
scaffold3794_P3_37136	scaffold3794	37136	CAAAA/CAA	GACCAAGAAGACTCAT TTGATGTG	CCCATTTGAATTGTTTT GCAT	60.0	535	DRR	Ca_26695	GMW	--
scaffold3794_P3_38566	scaffold3794	38566	ATTTTTTTTTTTTT/ATTTTTTTTTTTTT TT	TGAATGTCTACGGTCAA CAAGG	TTGAAGTATGAGTCC CGGC	60.0	550	INTRON	Ca_26695	GMW	--
scaffold3794_P3_48113	scaffold3794	48113	ATTTTTTTTT/ATTTTTTTTT	GCAGCAAATCAAAGGT GGTT	GTGGGTGGACTCTGCT TTGT	60.1	644	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 (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
scaffold3794_P3_55492	scaffold3794	55492	TTTCTTCTTCTTCTTCTTCTT/TTTC TTCTTCTTCTTCTTCTTCTTCTT	AAGGTAAGAGGGAGTG GGGA	TACACTGTTGCATGCC TTCC	59.9	754	INTERGENIC	--	--	--
scaffold3794_P3_71924	scaffold3794	71924	A/AT	TTGATCAAAGGTGTGT CCCA	CCCCATTGACCAAAAT CATC	59.9	440	URR	Ca_26696	GMW	NAC
scaffold3794_P3_82476	scaffold3794	82476	CCAC/CC	CAAAGGGACCACACCT CTTT	TTGGCCCTTTAGTGT ATCG	59.0	554	INTERGENIC	--	--	--
scaffold38_P3_184715	scaffold38	184715	ATTTTTTTTT/ATTTTTTTTT	CTGGTCGTAACCGTCG ATTT	GGGAGCCATGTCTGTT TGAT	60.0	306	INTERGENIC	--	--	--
scaffold38_P3_184761	scaffold38	184761	CAAA/CAAAA	CTGGTCGTAACCGTCG ATTT	GGGAGCCATGTCTGTT TGAT	60.0	306	INTERGENIC	--	--	--
scaffold38_P3_193081	scaffold38	193081	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CTTTGATGCCCATTTTCG TTT	TGAACTCATTATTTGTT CGCCA	59.9	487	INTERGENIC	--	--	--
scaffold38_P3_19797	scaffold38	19797	ATTTTTTT/ATTTTTT	ACTAACGGGCCGGAAT ACTT	ACAAACGGAATCTGAA CAAAA	59.9	509	INTERGENIC	--	--	--
scaffold38_P3_204585	scaffold38	204585	GTTGTTTCT/GTTGTTTCTTTGTTTCT	CATCATTTCTTGACAT GCC	CAACACAAATCAATC CCCC	60.1	528	INTERGENIC	--	--	--
scaffold38_P3_248171	scaffold38	248171	CTTTTTTTTT/CTTTTTTTT	TAGCCTTGAGACCGAG CATT	CAAGGACTAACTGAA GCCCA	60.0	372	DRR	Ca_23620	--	--
scaffold38_P3_250931	scaffold38	250931	GATAT/GAT	GGGAGCATATCTTCCC ATCA	ACCATTTTCTCCAAAC CCC	59.9	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
scaffold38_P3_261884	scaffold38	261884	GATAATAATAATAATAATAA/GATAATAA TAATAA	AGGGTTGGCGGATAAC TTTT	TGAAGGAGAAAAGCAT CGAAA	59.8	426	INTERGENIC	--	--	--
scaffold38_P3_267684	scaffold38	267684	ATCTTCTTCTTCTTCTTCTTCTTCTCA TCTTCTTCTTCTTCTTCTTCTTCTTCT C	TCCCCAAACAGAATTT GAG	CGGATGAAAAGGGAAG ATGA	59.9	430	INTERGENIC	--	--	--
scaffold38_P3_27061	scaffold38	27061	TAATAATAATAATAATAATAATAAT AATAATAATAAT/TAATAATAATAATAAT AATAATAATAATAATAATAATAAT	TCCCAAACAGCCTAAC ACC	ACACTCAAGGCTGAA GGGA	60.0	394	INTERGENIC	--	--	--
scaffold38_P3_271720	scaffold38	271720	GGGTTC/GGGTTCACGCTGGTGGTT CA	AGAAGTGGCCGATTTT GATG	GGCAGATGCCTATGTG GATT	60.1	246	INTERGENIC	--	--	--
scaffold38_P3_274389	scaffold38	274389	TAG/TAGCGGTGTAATAAG	ATGGGAGACCACGACA ACTC	TGCCCTTTAGTGTGT GTGA	60.0	568	INTERGENIC	--	--	--
scaffold38_P3_285083	scaffold38	285083	CTTTTTTTT/CTTTTTTTTT	TTCATAATTTTTCTGTT GAGCCA	TCTGTGTCCACGTCA TTTG	60.0	399	INTERGENIC	--	--	--
scaffold38_P3_324018	scaffold38	324018	CAACAAGTATAACAAGTAT/CAACAAGT AT	CCCTCGTGATGGAAGA TGAT	TTTCTTAGTGTTGT GGGC	59.9	635	INTERGENIC	--	--	--
scaffold38_P3_340055	scaffold38	340055	AATTATTCTCCATTATTCTCCATTATTC TCC/AATTATTCTCCATTATTCTCC	GGAGGTTTGTGTTTGA CGGT	ATATCTTTTGAGGCC CGAT	59.9	524	INTERGENIC	--	--	--
scaffold38_P3_343774	scaffold38	343774	ATTTTTTTTT/ATTTTTTTTT	TGTCGTTTTAATTTGT GGGC	TGACATGACCGTCGTC AACT	59.9	960	INTERGENIC	--	--	--
scaffold38_P3_361767	scaffold38	361767	CTTTTTTTTTTT/CTTTTTTTTTTT	AGTTTCAGCGGAGGA TATG	GGTCGTGATTGGAGG AAGA	60.2	717	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 (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
scaffold38_P3_394344	scaffold38	394344	TAAAAAAAAA/TAAAAAAAAA	GGGCTTTTGTCTTTT CTGTG	TTATTTGACAAACGG GGGA	60.1	827	INTERGENIC	--	--	--
scaffold38_P3_413791	scaffold38	413791	ATTTT/ATTTT	CTTCGCTGCAAAATTC CTC	TTGATGTCGGGTAGTG TCTGA	60.0	755	INTERGENIC	--	--	--
scaffold38_P3_426063	scaffold38	426063	ATTTTTTTTTTT/ATTTTTTTTTTTT	TGCTCAATTTAGGGT CTCTC	TTTCTCCGCTTTGCTT GAAT	59.7	499	INTERGENIC	--	--	--
scaffold38_P3_454844	scaffold38	454844	GAT/GATCACGGATGTAAT	TTTCCCGACTTGGTCCT TTA	GCAATTATTTTCGTG CAGC	59.5	716	DRR	Ca_23625	--	YABBY
scaffold38_P3_474073	scaffold38	474073	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGTGTCAGAAGGATCT TGCG	TGAGATTCGCCAGTTA ACCC	60.0	652	INTERGENIC	--	--	--
scaffold38_P3_489031	scaffold38	489031	GAAAAA/GAAAA	CCCTTTGTATTCCCAA CCT	TGCCAAAAGCAAGATT GATG	60.0	530	INTERGENIC	--	--	--
scaffold38_P3_491501	scaffold38	491501	GC/GCC	CACTGATTGTGGGA CCTT	CATTTCTTGAGCGCT TGTG	59.8	755	INTERGENIC	--	--	--
scaffold38_P3_502595	scaffold38	502595	ATTTTTTTTT/ATTTTTTTTTT	TTTGGGCATATGTCAA GTTCC	TCATCGCAGGTGTACC ATGT	59.8	752	INTERGENIC	--	--	--
scaffold38_P3_511501	scaffold38	511501	TAAAAAAAAA/TAAAAAAAAAAAAA	TTTGCTTTGATTCGGAA TTG	AAAATCGCATATGGCT GGAG	58.7	594	INTERGENIC	--	--	--
scaffold3802_P3_4088	scaffold3802	4088	CTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATT/CTATTAT TATTATTATTATTATTATTATTATT TTATTATTATT	TGTTGAAGAGGGAGTT TTGACA	TGACGAACTTTGTATG GTTG	59.8	498	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
scaffold381_P3_6157	scaffold381	6157	CGTTTTAGGTTTATAGTTTATAGTTT AGG/CGTTTTAGGTTTATAGTTTATAGG TTTTAGGTTTATAGG	GTTGATGGTTTCGGT TGAT	AACGCAAAACACTAAA CCGC	59.7	304	INTERGENIC	--	--	--
scaffold381_P3_6830	scaffold381	6830	AAG/A	TGCAAAAGGGTCACTT GATT	CCCCAAACCCTAAACC CTAA	59.6	355	INTERGENIC	--	--	--
scaffold3810_P3_21403	scaffold3810	21403	GAAAAAA/GAAAAAA	ATGCACCTTTACTGCG CTT	TTGGTAACCTTGAGA TGGTC	59.9	530	INTERGENIC	--	--	--
scaffold3811_P3_24838	scaffold3811	24838	TA/T	TACTATGCAACCATCCC GGT	TGAAACAAGAAACCCG AACC	60.2	663	INTERGENIC	--	--	--
scaffold3823_P3_3930	scaffold3823	3930	ACAAAAGAACTATCAA/ACAA	TGGCAATCGATTGAC AGAA	GTCTGAAAATCCAAA CGGA	60.2	780	DRR	Ca_27909	--	--
scaffold3824_P3_10339	scaffold3824	10339	TCTGCCTG/TCTG	AAAGCCCAAGAGGGAG GTAG	CCGACAGACAAACCAA CAGA	59.7	451	INTERGENIC	--	--	--
scaffold3824_P3_21914	scaffold3824	21914	TACACAC/TACAC	ACGGTTGAGAATTGAG TGCC	ACAAAAACCACATTG CACA	60.1	572	INTERGENIC	--	--	--
scaffold3837_P3_2371	scaffold3837	2371	ATTTTTTTTTTTT/ATTTTTTTTTTT	CTTCTTGGTGGCATGG TTTT	TACCCTGTGGATGGGA ATGT	60.0	591	INTERGENIC	--	--	--
scaffold3837_P3_5661	scaffold3837	5661	AT/ATT	GCCTCCGAGTCAATAC CAAA	ATTGAGGGTAGGGGA GCAGT	60.1	415	INTERGENIC	--	--	--
scaffold3849_P3_5823	scaffold3849	5823	CTCT/CTCTGCTTATTCT	GCGTGTTTGTGTCATT GGAC	CCAAGGAAAGGCAAAA ATGA	60.0	542	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 (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
scaffold3850_P3_13069	scaffold3850	13069	GATAATAATAATAAT/GATAATAATAAT	AGGGAAATCAAACTCCGT	TTATTTACCGTCGTGTCCA	59.8	288	INTERGENIC	--	--	--
scaffold3865_P3_62289	scaffold3865	62289	ATTTTTTTTT/ATTTTTTTTT	GATGGAGCTGAGAGACTGG	GGCGGAGTAAATTGTTGCAT	59.9	276	INTRON	Ca_27663	--	--
scaffold387_P3_16023	scaffold387	16023	CAT/C	CACACCCCTTGTCACACTG	TTAAGCTGAGAGCCTTCCCA	60.0	439	INTERGENIC	--	--	--
scaffold387_P3_160969	scaffold387	160969	TTA/TTACTA	AGCTCCAAATCCAGAGCAAA	GGGATATGATCTTCTACCCCA	60.0	835	INTERGENIC	--	--	--
scaffold387_P3_161432	scaffold387	161432	ATAAAA/ATAAAGTAAAA	TGGTACTCACATGAAATTCGAAA	GCGACTATTGCAATTGTGAA	59.5	281	INTERGENIC	--	--	--
scaffold387_P3_19261	scaffold387	19261	TATAATAGAT/TAT	CCTTGAGGAACAACAACCA	TTTTGGGGTTTAGGGTGCA	60.0	757	INTERGENIC	--	--	--
scaffold387_P3_22975	scaffold387	22975	AATC/AATCATC	CGCAATCTGAACAAATGACAA	TCCACTAACCACCTTGACCC	59.7	338	INTERGENIC	--	--	--
scaffold387_P3_23363	scaffold387	23363	ATGT/ATGTGT	GGGTCAAGGTGGTTAGTGGA	TCCTCTGCCTTTCATGTGTG	59.8	496	INTERGENIC	--	--	--
scaffold387_P3_23424	scaffold387	23424	G/GAA	GGGTCAAGGTGGTTAGTGGA	TCCTCTGCCTTTCATGTGTG	59.8	496	INTERGENIC	--	--	--
scaffold387_P3_23485	scaffold387	23485	ATTTTT/ATTTTTTT	GGGTCAAGGTGGTTAGTGGA	TCCTCTGCCTTTCATGTGTG	59.8	496	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
scaffold387_P3_23589	scaffold387	23589	ATGTGTGTG/ATGTGTGTGTG	GGGTCAAGGTGGTTAG TGG	TCCTCTGCCTTTCATG TGTG	59.8	496	INTERGENIC	--	--	--
scaffold387_P3_24000	scaffold387	24000	TAAAAA/TAAAAA	CACACATGAAAGGCAG AGGA	CCCTCCCGTATAAGT AGCC	59.8	683	INTERGENIC	--	--	--
scaffold388_P3_8749	scaffold388	8749	C/CCTATA	GCCCCAGAATTCAAAG TTCA	GCAGGAATCCTCGTAC CTCA	60.1	520	INTERGENIC	--	--	--
scaffold3896_P3_515	scaffold3896	515	CATATATATATATAT/CATATATATATAT ATAT	GGAGGAGAAGGAGGG ATTTG	ACCCAATTACTGGAGA TGCG	60.0	570	INTERGENIC	--	--	--
scaffold39_P3_23326	scaffold39	23326	TAAAAAAA/TAAAAAAA	TTCTTTTGGTTTGGTT GTGC	TCAATGGAGTTGCCAT CAAA	60.0	865	INTERGENIC	--	--	--
scaffold39_P3_40229	scaffold39	40229	GAAAAAAA/GAAAAAAA	CGGCCATCTACGTTGT CTTT	GACATTGCATTTTGA CACG	60.1	924	INTERGENIC	--	--	--
scaffold3900_P3_4432	scaffold3900	4432	CG/CAG	TTCTGAATCAATGTAGT TCGTCTG	AAACCCTAAATCCCAA ACCC	59.3	294	INTERGENIC	--	--	--
scaffold3900_P3_4684	scaffold3900	4684	T/TC	GGGTTTGGGATTTAGG GTTT	CCTAGGAAAGACGAAA ATGACC	59.0	250	INTERGENIC	--	--	--
scaffold3912_P3_5188	scaffold3912	5188	G/GC	AGGTCATTTTCGTCCTC CCT	TGGAAAAGAATAAGCC TTGGG	59.9	634	INTERGENIC	--	--	--
scaffold3918_P3_4292	scaffold3918	4292	TAAAAAAA/TAAAAAAA	ATGCCTTCGTCCTCTC CTTT	ACATTGAACTGCCCA TTCC	60.2	612	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 (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
scaffold395_P3_75464	scaffold395	75464	CT/CTT	TCGGTTTGTGCAAAACA ACT	GACCATTTTCTTGGGC TTGA	59.2	247	INTRON	Ca_24512	E	--
scaffold395_P3_8212	scaffold395	8212	TT/TTAAT	TTCCTGGTGGGATTCA CATT	AGCGATGCATGTCTCA AGTG	60.2	440	INTERGENIC	--	--	--
scaffold3950_P3_12638	scaffold3950	12638	T/TTCAGCA	CAAGAGCCTAAGGATG CTGC	AGCATGAAACGGTGGA GAAT	60.1	919	INTERGENIC	--	--	--
scaffold3950_P3_6762	scaffold3950	6762	C/CAAGAAAGTTTT	AGTGGCATAGGAGTGC CATC	ATCGGAGAAACGACAT CTGG	60.1	510	INTERGENIC	--	--	--
scaffold3950_P3_7394	scaffold3950	7394	GTATATATATATA/GTATATATATA TATA	CCAGATGTCGTTTCTC CGAT	TTGTATGACATCTCGC CACC	60.1	665	INTERGENIC	--	--	--
scaffold3950_P3_7697	scaffold3950	7697	C/CTT	TTTCTCTTTTGGTGGTT GCC	TCCACCAATATGCAAA AGCA	60.1	854	INTERGENIC	--	--	--
scaffold3950_P3_7767	scaffold3950	7767	TAAAAA/TAAAA	GGTGGCGAGATGTCAT ACAA	TCCACCAATATGCAAA AGCA	59.5	366	INTERGENIC	--	--	--
scaffold3950_P3_8173	scaffold3950	8173	T/TA	TGCTTTTGCATATTGGT GGA	AAAACATGGCCTTCAA CTGG	60.1	475	INTERGENIC	--	--	--
scaffold3950_P3_8477	scaffold3950	8477	TAAAAAAAAA/TAAAAAAAAA	TGCTTTTGCATATTGGT GGA	AAAACATGGCCTTCAA CTGG	60.1	475	INTERGENIC	--	--	--
scaffold3950_P3_8667	scaffold3950	8667	AAATAATAATAATA/AAATAATAATAA	CCAGTTGAAGGCCATG TTTT	TTTTATGGAAGCATGT GGCA	60.0	528	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 (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
scaffold3950_P3_8791	scaffold3950	8791	TAAAAAAAAA/TAAAAAAAAA	CCAGTTGAAGGCCATG TTTT	TTTATGGAAGCATGT GGCA	60.0	528	INTERGENIC	--	--	--
scaffold3952_P3_963	scaffold3952	963	G/GT	GATGAAATCGAGGACC AGGA	TTTCATTTGGTCTTTTC GGC	60.0	470	INTERGENIC	--	--	--
scaffold396_P3_142728	scaffold396	142728	ATTTTTTTTT/ATTTTTTTTTTT	AGCCCTAGTCATGCAC CATC	CCCAAATTCCTTCGT CAAA	60.1	252	INTERGENIC	--	--	--
scaffold396_P3_144915	scaffold396	144915	AAAGAAGAAGAAGAAGAA/AAAGA AGAAGAAGAAGAA	CCAACACGGGTAAATT CGTC	TTTAAATTGATGGCTTC GGC	60.2	263	INTERGENIC	--	--	--
scaffold396_P3_165817	scaffold396	165817	TTA/TTACTA	GGAGCCATTTGTGAG AGGA	TTTCACTGCGTGAAT CTGG	60.2	621	INTERGENIC	--	--	--
scaffold396_P3_290550	scaffold396	290550	ATTTTTTTTT/ATTTTTTTTTT	ATATCCTCGGGAGCCA TCTT	GGTGATCAATTTGGGG ACTG	59.9	513	INTERGENIC	--	--	--
scaffold396_P3_372299	scaffold396	372299	CATATATATATATATATATATATA/CA TATATATATATATATATATA	TGTATTTCTGCGCATTC TCG	TTGTTAGTTTGACGAG GGCA	60.0	357	INTERGENIC	--	--	--
scaffold396_P3_577559	scaffold396	577559	GAA/GA	TCCCAACCCAAATAAAC CAA	AAGCTCAACATGCAAA ACCC	60.0	538	INTERGENIC	--	--	--
scaffold396_P3_577641	scaffold396	577641	ACCC/ACCCC	TCCCAACCCAAATAAAC CAA	AAGCTCAACATGCAAA ACCC	60.0	538	INTERGENIC	--	--	--
scaffold397_P3_120507	scaffold397	120507	GAAA/GAAAA	TGGGTGTTAAGAATGG GGAA	AACGTACTGCCTATCA CGGG	60.2	685	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
scaffold397_P3_23238	scaffold397	23238	CATATATATATAT/CATATATATATAT ATAT	TGGAGGCGGCTACTAG TGTT	ATTGAATTCGCCATAAA CGG	59.9	411	INTERGENIC	--	--	--
scaffold397_P3_23446	scaffold397	23446	A/AT	TGGAGGCGGCTACTAG TGTT	ATTGAATTCGCCATAAA CGG	59.9	411	INTERGENIC	--	--	--
scaffold397_P3_284008	scaffold397	284008	TTATATATATATATATATATATATAT TATATATATATATATATA	GATGTGATGTGAGGTG TCGG	TTACACATAAACCGC CAAA	60.0	437	INTERGENIC	--	--	--
scaffold397_P3_374129	scaffold397	374129	ATTTTT/ATTT	TGATGTCTTTGTCTCAA CCCA	GTCTTAAGCCCGACGA GTTG	59.1	659	INTERGENIC	--	--	--
scaffold398_P3_111585	scaffold398	111585	TAAA/TAAAA	ATGCATGGATCGTGTG TGTT	GCTGAAAACCTGAAAA GGCG	59.8	586	INTERGENIC	--	--	--
scaffold398_P3_12968	scaffold398	12968	TC/TTGAAGCGCGCC	CCAGCATCTGCTACTG TCCA	AAGTCTCCCCACTTCC CAAT	60.0	126	INTERGENIC	--	--	--
scaffold398_P3_133623	scaffold398	133623	AAAATAAATAAATAAATAA/AAAATAAA TAAATAAATAAATAAATAA	TTGACCTATGTCCCCTC TCG	CGCACACTTAGCAAAT GCAG	60.1	269	INTERGENIC	--	--	--
scaffold398_P3_184152	scaffold398	184152	CCAACATGAATTCACAACAT/CCAACAT GAATTCACAACATGAATTCACAACAT	GGTGCACTTACGGTTC CAGT	GTGGTGGACACTCCTC ACCT	60.0	876	INTRON	Ca_22284	A	--
scaffold398_P3_213680	scaffold398	213680	GTTTT/GTTT	GGTCCATGTGTCGTTT CCTT	TGAAGGTGCAAACAG AGAA	59.8	423	INTERGENIC	--	--	--
scaffold398_P3_248711	scaffold398	248711	AAAG/A	CTTTTACAGCGCTCGAT TCC	TTCCATGTCCATTCCA GTGA	60.0	197	DRR	Ca_22286	--	Trihelix

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
scaffold398_P3_252867	scaffold398	252867	TAAAAAA/TAAAAAA	TGCTCAGACCACCAAA TGAA	AAAAATTGGCGAATAT GCAA	60.2	745	INTERGENIC	--	--	--
scaffold398_P3_260710	scaffold398	260710	AC/ACC	TTGTCCTTCAACCACGT TCA	CACAAAGCAATTCCAA ACCA	60.1	379	DRR	Ca_22288	I	--
scaffold398_P3_268697	scaffold398	268697	A/AC	CCATGGAGATTAATGG ACCG	CACAAGTGCGATGTCC AAAC	60.1	201	INTERGENIC	--	--	--
scaffold398_P3_270743	scaffold398	270743	TAAAAAAA/TAAAAAAA	GTAGTGGTTGAAGTGG CGGT	CTACTCCATCGGGTCT CCAA	60.0	462	INTERGENIC	--	--	--
scaffold398_P3_275366	scaffold398	275366	ATTTT/ATTTT	GCACACAGTCTTCCT CCTC	TCCGTGCCCATGATAA ATAA	59.8	579	DRR	Ca_22289	B	--
scaffold398_P3_288064	scaffold398	288064	AGGG/AGG	AATTCTCAGGCCAGCT CAAA	TGAAGCTTACCAATTC CCCA	60.0	444	INTERGENIC	--	--	--
scaffold398_P3_290707	scaffold398	290707	CAAAAA/CAAAAA	AAAACGGATTTTACGGT CCC	GTTGGTCCTTTTGAC CTCA	60.1	990	INTERGENIC	--	--	--
scaffold398_P3_291477	scaffold398	291477	CTTT/CTT	GGGCAAGAAAAGGGAG AATC	TTGAAAAACGACCTT TTGG	60.0	316	INTERGENIC	--	--	--
scaffold398_P3_301322	scaffold398	301322	TTTTT/TTTTATTTT	TCTAGATACGGGATGG GCAC	TCGCGAAGAAGGATAA AATG	59.9	523	DRR	Ca_22290	A	--
scaffold398_P3_301598	scaffold398	301598	CTTTTTTTTT/CTTTTTTTTTT	GCAGTTTTTGCCATTCC ATT	ATTTGTGCGTTGTAGG GGAG	59.9	802	DRR	Ca_22290	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 (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
scaffold398_P3_301740	scaffold398	301740	TAAA/TAAA	GCAGTTTTTGCCATTCC ATT	AAATTTGTGCGTTGTA GGGC	59.9	830	DRR	Ca_22290	A	--
scaffold398_P3_309013	scaffold398	309013	T/TC	TCAGTTTGGAGGGTGC TTCT	TCGCAATAGGTTAGGA TGGG	59.8	763	INTERGENIC	--	--	--
scaffold398_P3_313941	scaffold398	313941	T/TG	CGGTGCACTCTTTGAC TTGA	AGACATTTATCGGTCA CGCC	60.0	856	DRR	Ca_22292	R	bHLH
scaffold398_P3_314075	scaffold398	314075	TAAAAAAAAA/TAAAAAAAAA	ATCAAAATTCGAACAAG CCG	AGACATTTATCGGTCA CGCC	60.1	378	DRR	Ca_22292	R	bHLH
scaffold398_P3_319791	scaffold398	319791	ACC/AC	TTGGAGGAACCATGAC CATT	TGTGTATGTACCTCTC AACACCAA	60.2	462	INTERGENIC	--	--	--
scaffold398_P3_33315	scaffold398	33315	AG/AGG	AGTGATCCAACCTCAA CATCG	TCGAATAATCAATCCA AAATCAA	60.0	561	INTERGENIC	--	--	--
scaffold398_P3_33523	scaffold398	33523	AATTA/AA	AGTGATCCAACCTCAA CATCG	GGATTTCCACATTCA TAGCA	60.0	912	INTERGENIC	--	--	--
scaffold398_P3_33778	scaffold398	33778	AATAT/AATATAT	TTTGATTTTGATTGAT TTATTCG	CATGGCCACTCAAAGC ACTA	59.3	494	INTERGENIC	--	--	--
scaffold398_P3_33851	scaffold398	33851	A/ATTTTT	TTTGATTTTGATTGAT TTATTCG	CATGGCCACTCAAAGC ACTA	59.3	494	INTERGENIC	--	--	--
scaffold398_P3_345675	scaffold398	345675	CATAAT/CAT	AGAATCACCACAGGCA CACA	TGCCTCATTAGCTCAA GGGT	60.2	522	INTRON	Ca_22294	K	C3H

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 (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
scaffold398_P3_347600	scaffold398	347600	TAAAAA/TAAAAA	TTTGGTCGGACATACT CGCT	CCAAGTCGCCTCATA ATTT	60.7	685	INTERGENIC	--	--	--
scaffold398_P3_348013	scaffold398	348013	TAAAAAAA/TAAAAAAA	AAATTATGAGGCGCAG TTGG	TCCGTTTGAATTGCT CTTA	60.1	348	INTERGENIC	--	--	--
scaffold398_P3_351556	scaffold398	351556	CTTT/CTTTT	GACCAAGGCAAGCAAG AAAG	GAATTCGACTTCGAT GGGA	60.0	887	INTERGENIC	--	--	--
scaffold398_P3_365738	scaffold398	365738	GTAA/GCTCTTCCAAATAA	GGAATCTCGGTTTGC ATTA	GCGTCAAGAAAGATGC AACA	59.9	514	INTERGENIC	--	--	--
scaffold398_P3_365903	scaffold398	365903	TC/TCC	GGAATCTCGGTTTGC ATTA	GCGTCAAGAAAGATGC AACA	59.9	514	INTERGENIC	--	--	--
scaffold398_P3_379143	scaffold398	379143	AGAA/AGAAATTGAA	TCTGAGGAAGAGGAGG ACGA	AGCGTGGCAGATTTTG AAAG	60.1	778	INTERGENIC	--	--	--
scaffold398_P3_385694	scaffold398	385694	ACCCCC/ACCCCC	TCAAGGAACGTTCTCC GTTT	CCCTTTCACTTTCTCG CTG	59.7	536	INTERGENIC	--	--	--
scaffold398_P3_430273	scaffold398	430273	AT/ATGAACTT	ATGCTCTGCACCTTGCA GCTA	AAAACCAACCCACAA ACCA	59.9	151	INTERGENIC	--	--	--
scaffold398_P3_45043	scaffold398	45043	T/TGTA	CCCTACGACGTCCGTT AAAA	TCGCTCGTTGCACCAT ATTA	60.0	554	INTERGENIC	--	--	--
scaffold398_P3_459574	scaffold398	459574	CAAAAAAAAA/CAAAAAAAAA	TCGGTTGTATGGGG TTTA	TTGGTCGTTTGAGCCT TTCT	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 (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
scaffold398_P3_466018	scaffold398	466018	ACCCCC/ACCCC	TGCATGCAGACAAGAG TCAA	TTGGAAGGCCACCT ACAC	59.1	468	INTERGENIC	--	--	--
scaffold398_P3_474746	scaffold398	474746	ATTTTTTTTT/ATTTTTTTTT	TGTGGGGCACAAGTTT GTTA	CCATCAAGTGGGAGTG TCCT	60.0	192	INTERGENIC	--	--	--
scaffold398_P3_483867	scaffold398	483867	TAAAAAAAAAAAAA/TAAAAAAAAA AAAAAA	CAAACCTCAGTGAGAG GGGG	TCTGGTGAATCAGAGC GTTG	59.7	241	INTERGENIC	--	--	--
scaffold398_P3_488633	scaffold398	488633	ATTTTTTTTT/ATTTTTTTTT	CGCACCCATGACCTAA CTCT	GCATGATAGAATTCA CCGGA	60.1	439	DRR	Ca_22300	--	C2H2
scaffold398_P3_49002	scaffold398	49002	CTAGGGTTTAGGGTTTAG/CTAGGGTT TAGGGTTTAGGGTTTAG	CTTGTCCTTGTCGT CTAA	TTTCTTCACACATGCC ATCTT	60.1	604	INTERGENIC	--	--	--
scaffold398_P3_648	scaffold398	648	TTA/TTATA	TCGTGTATTGATCCAAC TCCC	TCGAAATCACAGTTTT GGCA	59.8	187	INTERGENIC	--	--	--
scaffold398_P3_75332	scaffold398	75332	ATTTTTTTTT/ATTTTTTTTT	AAACCCAAATCTCCGCT TTT	CAACCCCAATCTTTTG AGGA	59.9	445	INTERGENIC	--	--	--
scaffold399_P3_70643	scaffold399	70643	GTTTT/GTTTTT	AGTGAAACCAACGCCA AAAC	TTTCCCGTTCATCACA CAA	60.0	303	INTERGENIC	--	--	--
scaffold40_P3_1008120	scaffold40	1008120	CTAT/CTATTTAATTAT	TTTGGAAGCGGATGAA AAAC	TCTACCGCACAAATGCA AGAG	60.1	647	DRR	Ca_18997	S	--
scaffold40_P3_1008967	scaffold40	1008967	T/TTTGTTAA	TGTCATCTCAATATGC TCTCCA	TCATCTAGAGATTTTG CAACCAA	59.7	389	DRR	Ca_18997	S	--

[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 (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
scaffold40_P3_419054	scaffold40	419054	CTTTT/CTTT	TGTTGCGCAATTGAATG GTA	TCAAACCAATTCCTG CACA	59.9	536	INTERGENIC	--	--	--
scaffold40_P3_496475	scaffold40	496475	ATATTATTATTATTATTATTATTATT ATTATT/ATATTATTATTATTATTATTAT TATTATTATTATTATTATTATT	AGTATCCTGGGTATGC GACG	TTTGATAACAATTTTCG CTCCTC	60.0	692	DRR	Ca_18973	R	--
scaffold40_P3_56808	scaffold40	56808	CATA/CATATA	ATTTGCACGGAAAGTC ATCC	CCTCCACCTCCTCCTC CTAC	59.9	810	INTERGENIC	--	--	--
scaffold40_P3_649904	scaffold40	649904	CAAA/CAAAA	CTGATTCCATTGTCTTT CACCA	CATCATCGCCATCCTT CTTT	60.0	291	INTERGENIC	--	--	--
scaffold40_P3_676695	scaffold40	676695	CTAAG/C	CATTTCAGAGTACCAC GTCAA	TGCCACCAAATTATTT TCTC	60.0	531	DRR	Ca_18982	T	FAR1
scaffold40_P3_843875	scaffold40	843875	T/TA	TTTGCTCCAATCACGAT GAA	GGCCAAGATAACCAAG CAGA	60.2	779	DRR	Ca_18992	--	MYB_related
scaffold40_P3_846364	scaffold40	846364	GC/GCC	CCTCAGCAGGATCAAA CCAT	TTACACTGCTGGGGTT GTTG	60.1	642	INTRON	Ca_18992	--	MYB_related
scaffold40_P3_855536	scaffold40	855536	TTATATA/TTATA	GATAAGTAGCTTTCGG TGCCC	TTTTTCGTTTGTTTCCC GAG	60.1	100	INTERGENIC	--	--	--
scaffold40_P3_874460	scaffold40	874460	ATTT/ATTTT	GGATCTCAAATTGTTT GGCA	CCGGTTGCAATTTTAT GGTT	59.9	559	INTERGENIC	--	--	--
scaffold40_P3_900197	scaffold40	900197	T/TCG	GACTGACTCCGCTATT CGC	TCATATGCGCCAATTC GATA	60.0	472	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 (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
scaffold40_P3_910055	scaffold40	910055	T/TTTTATA	AGTCCCTGCCTCAACT GAAA	TGCCCGTGTGTAACAA AGAA	59.8	619	DRR	Ca_18994	A	--
scaffold40_P3_922038	scaffold40	922038	ATTTTTTT/ATTTTTT	GCAGTTCATTTTATTG TCGC	TTGGTTATGAAATTCG GGATG	59.6	395	INTERGENIC	--	--	--
scaffold40_P3_925350	scaffold40	925350	ATATTATTATTATT/ATATTATTATTATT	AAATTGGGGTGCTACA CGAG	GGAGGAAGGAAATTC AGCA	60.0	587	INTERGENIC	--	--	--
scaffold40_P3_926146	scaffold40	926146	GATATATATATA/GATATATATATATATA	GCTTGAATTTCTTCCT CCA	ATTGCAACGGGTACGT CTGA	59.2	419	INTERGENIC	--	--	--
scaffold40_P3_976928	scaffold40	976928	TAAAAAA/TAAAAAA	CCCAAATGTCCTTG GAAG	CGACACAACCACTTC ATTG	60.3	848	INTERGENIC	--	--	--
scaffold40_P3_977189	scaffold40	977189	GAAAAAA/GAAAAAA	TGCAATGTGAAGTCGG AGAG	CAACCACTTCCATTGT GTGC	60.0	461	INTERGENIC	--	--	--
scaffold40_P3_983017	scaffold40	983017	TAAATGAACAAAT/TAAATGAACAAATG	AAACACATCCAGAGCC CAAG	GAAGCTCTCATTATG GCGG	60.1	280	INTERGENIC	--	--	--
scaffold40_P3_986543	scaffold40	986543	CTTT/CTTTT	GTGTTGAGGCCTCCGA TAAA	TTACCCCAATACCAA TCAA	60.1	145	INTERGENIC	--	--	--
scaffold40_P3_991965	scaffold40	991965	TAT/TATGAT	AATCCGGTTTGAGATT GACG	GCGTAACTGCATTTC CATT	59.9	600	INTERGENIC	--	--	--
scaffold400_P3_42714	scaffold400	42714	TAAAAAAA/TAAAAAAA	CCCTTCATCGTTGTGG ATTT	CGAAGGATGATTTTG TCCC	59.8	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
scaffold400_P3_63260	scaffold400	63260	GCTTCTTCC/GCTTCTTCTTCTTCC	TTTCGCTGCTTCCTTT GTT	GTTGGTTCCTAGCAC CGTA	60.0	213	INTERGENIC	--	--	--
scaffold401_P3_151237	scaffold401	151237	C/CT	TGAAGTCGGGAAAACG AAAC	TCGAATTCTGTTCCCC TTTG	60.1	657	INTERGENIC	--	--	--
scaffold401_P3_93969	scaffold401	93969	ATTTTTTTTT/ATTTTTTTTTTT	TCCTCGCTGGAATTCA CTT	TGCTCCAATTTCTCCA AACA	59.8	805	INTERGENIC	--	--	--
scaffold4011_P3_17091	scaffold4011	17091	CAAAAAA/CAAAAAA	TTTTCTTCCACAGGGG ATTG	TGGCGGTTTATCAGCT CTCT	59.9	269	INTERGENIC	--	--	--
scaffold4024_P3_4486	scaffold4024	4486	GTATATATATATATATATATAT/GT ATATATATATATATATATATAT	TGAATGTTGCTTTGTTT TGCAT	GCCCTCAGATGAGAGT CAGG	60.5	852	INTERGENIC	--	--	--
scaffold4024_P3_690	scaffold4024	690	TAGGAG/TAG	GTTCAAAAACATCAG GCCT	GCCAATTAATGACCG ATGG	60.0	626	INTERGENIC	--	--	--
scaffold4028_P3_27326	scaffold4028	27326	T/TG	GGTTTGACTGCATAAC GGAGA	TTGAATACACCTACAAA ACGAAGA	60.1	552	INTERGENIC	--	--	--
scaffold4028_P3_8437	scaffold4028	8437	CCT/CAGGTAAACTCT	CACCTCCCCAGACAAC CTTA	CAGACTGAGCGAACCA ATCA	60.0	453	INTERGENIC	--	--	--
scaffold404_P3_149224	scaffold404	149224	GAAA/GAAAA	GAATTGGGGCGAGAGA AGAT	CTTTAACGAGCGATTA CGGC	60.5	455	INTERGENIC	--	--	--
scaffold404_P3_161683	scaffold404	161683	T/TC	CGTGAGATCCCCCTAT CGTA	TTGATTTAGCCAGG ATTG	59.9	334	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_161983	scaffold404	161983	GAAAA/GAAAAA	GAATCCTGGGCTGAA TCAA	ACGTTCTGAGGGAAT TGTG	60.0	623	INTERGENIC	--	--	--
scaffold404_P3_185728	scaffold404	185728	TAAAA/TAAA	CTTTTGCGAAGGATGG TTTC	AGCTGATTGGAATTGG TTGC	59.7	846	INTERGENIC	--	--	--
scaffold404_P3_202624	scaffold404	202624	AATATATATATATATATATATATAT ATATATATATATAATATATATATAT ATATATATATATATATATATA	TATTTTGGATTTTGGCT CGG	AAATGGAGGAGAAGGA GGGGA	59.9	417	INTERGENIC	--	--	--
scaffold404_P3_236122	scaffold404	236122	GATAATAATAATAATAATAATAATA ATAATAATAATAATAA/GATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATA	ATTTGGTTTGACAATGG GGA	TTATTTACCCTGCTGTGCCA	60.0	349	INTERGENIC	--	--	--
scaffold404_P3_252069	scaffold404	252069	CAAAAAAAAA/CAAAAAAAAAA	AGCGAATGGGTTTAGG GTTT	GGCACACCGGACTTGT TATT	59.8	701	INTERGENIC	--	--	--
scaffold404_P3_362118	scaffold404	362118	ATTCAGTTCA/ATTCAGTTCAGTTCA	TTGGTTTTATTTGGGTTG GGA	ACCAGGAAAAGAAGAA GGCC	60.0	441	INTRON	Ca_24364	--	--
scaffold4041_P3_1126	scaffold4041	1126	TTATATATATATATATATAT/TTATAT ATATATATATATATATATATATAT	GGGTTGGGATATGTTA GCAAAA	GTCCAAACCCAGCACATCT	60.1	192	INTERGENIC	--	--	--
scaffold4041_P3_15570	scaffold4041	15570	AT/ATGTGTGTGT	AGATTGTGCTGGGTTT GGAC	AAGGAAATGAGGAAAA TGCCA	60.0	803	INTERGENIC	--	--	--
scaffold4041_P3_15702	scaffold4041	15702	T/TG	AGGAATTGGATCGGGA GATT	AAGGAAATGAGGAAAA TGCCA	59.7	626	INTERGENIC	--	--	--
scaffold4041_P3_15753	scaffold4041	15753	TAAAAAAAA/TAAAAAAAAAAAA	AGGAATTGGATCGGGA GATT	AAGGAAATGAGGAAAA TGCCA	59.7	626	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 (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
scaffold4041_P3_15867	scaffold4041	15867	AT/ATT	GGGTTGGGATATGTTA GCAAAA	GAATGCGAAAGCCACA ATTT	60.1	851	INTERGENIC	--	--	--
scaffold4041_P3_15956	scaffold4041	15956	TAAAAAAA/TAAAAAA	TCCATTTCCTCATTT CCTT	GAATGCGAAAGCCACA ATTT	59.8	493	INTERGENIC	--	--	--
scaffold4041_P3_16171	scaffold4041	16171	AAA/AAATTAA	GGCACGTCCCTATTTTT GAA	GAATGCGAAAGCCACA ATTT	59.9	345	INTERGENIC	--	--	--
scaffold4041_P3_16421	scaffold4041	16421	AA/AATTTATCCA	GGCACGTCCCTATTTTT GAA	CCGAGAATGCCGCTAT GTAT	59.9	754	INTERGENIC	--	--	--
scaffold4041_P3_36491	scaffold4041	36491	TAAAAAAA/TAAAAA	CCTTTGAGAACCAGCA GGAG	GCAAACGGAGACAGAA CACA	60.0	886	INTRON	Ca_27375	--	--
scaffold4041_P3_39114	scaffold4041	39114	A/AAG	GTGTGGTGGACGAACC TTTT	CGTGTCTCAAACTCG AGGA	59.9	769	INTERGENIC	--	--	--
scaffold4041_P3_994	scaffold4041	994	CT/CTTT	TCATTCTAATTCCTGCC TGATG	GTCCAAACCCAGCACA ATCT	59.2	494	INTERGENIC	--	--	--
scaffold4057_P3_6605	scaffold4057	6605	T/TCTTTTA	CCTATGTGCTCTTCGT GCAA	AAAGCTTATATCCCAA GCTCAA	60.0	667	DRR	Ca_27488	--	--
scaffold4064_P3_1246	scaffold4064	1246	ATTTT/ATTTT	TATGCATGCGGACAAG AGTC	GTGTGCACTGCATGC TTTT	59.8	277	INTERGENIC	--	--	--
scaffold4064_P3_1366	scaffold4064	1366	TTAT/TT	AAAAGCATGCAGTGCA ACAC	TCCGCTCGAAAATTA TGGC	59.9	367	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 (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
scaffold4064_P3_805	scaffold4064	805	TTATATATATATATATATATATATATA TATA/TTATATATATATATATATATATAT ATATATATATATA	ATGCTCTGCACTTGCA GCTA	TGACTTGACTCTTGTC CGCA	59.9	581	INTERGENIC	--	--	--
scaffold408_P3_130988	scaffold408	130988	T/TG	GTGGTGATATTGGGA AGCC	TCGTGGTTTTGGTGTT GGTA	59.2	662	INTERGENIC	--	--	--
scaffold408_P3_131029	scaffold408	131029	A/AAG	GTGGTGATATTGGGA AGCC	TCGTGGTTTTGGTGTT GGTA	59.2	662	INTERGENIC	--	--	--
scaffold408_P3_3361	scaffold408	3361	T/TGTTGA	CAAGGAGGAGCAAGAT CAGG	GGGAAAGCGGACGTG TATTA	59.9	631	INTERGENIC	--	--	--
scaffold408_P3_3569	scaffold408	3569	TCCCC/TCCCCC	TAATACACGTCCGTTT CCC	CGAACCTGCTGTCCAA AAAT	60.0	394	INTERGENIC	--	--	--
scaffold408_P3_35918	scaffold408	35918	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATATA TATATATATAT	TTGTTAGTTTGACGAG GGCA	TTTTGTGTGGTAGGG CACA	59.3	423	INTRON	Ca_25271	--	Trihelix
scaffold408_P3_40902	scaffold408	40902	GCA/GCAGAAATAAATTAATCA	AATGCCCTTTACAACGC TTTT	AATGTGAATCCCACCA GGAA	60.0	400	DRR	Ca_25272	--	M-type
scaffold408_P3_91285	scaffold408	91285	CTATATATATATATAT/CTATATATATAT ATATATAT	TAGAGGGAATGCAGAT TGCG	CTGCGCCGACGAATAAG TTGT	60.0	479	INTRON	Ca_25277	J	--
scaffold4088_P3_11666	scaffold4088	11666	AAACTGAATCAAATTGCAGAACTGA AACTGAATCAAATTGCAGAACTGAATC AAATTGCAGAACTGAA	TACTCATATGCGCCAAT CCA	CAGAGTTGGAGCACTA GCATCTT	60.1	619	INTERGENIC	--	--	--
scaffold4088_P3_5270	scaffold4088	5270	AT/A	ATCAACTTGCAAGGCA GCTT	TACCATTCAATTGGCG AACA	60.0	454	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PII) reference genome-CDC	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
scaffold409_P3_2612	scaffold409	2612	GTAATTTT/G	AAGTCACAGTGAACCCAG	TCGATTGCAACCAAT TGAA	60.0	151	DRR	Ca_27582	--	--
scaffold41_P3_122248	scaffold41	122248	CT/CTCCCCGAT	TCGCTACGGCTCTAGT GGTT	AAGTCCTGTAGCCGAA AGCA	60.0	294	INTERGENIC	--	--	--
scaffold41_P3_122306	scaffold41	122306	ATT/ATT	TCGCTACGGCTCTAGT GGTT	AAGTCCTGTAGCCGAA AGCA	60.0	294	INTERGENIC	--	--	--
scaffold41_P3_122382	scaffold41	122382	C/CG	TCGCTACGGCTCTAGT GGTT	AAGTCCTGTAGCCGAA AGCA	60.0	294	INTERGENIC	--	--	--
scaffold41_P3_122436	scaffold41	122436	GC/G	TGCTTCGGCTACAGG ACTT	CGGGGAGTTGAAATA AGCA	60.0	282	INTERGENIC	--	--	--
scaffold41_P3_16581	scaffold41	16581	TATAATAATAATAATAATAATAATA ATAATAATAATAAT/TATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAAT	CATCGGGGCTATGAGA CCTA	AGTTTCTGCAATCGCA TCCT	60.1	392	INTERGENIC	--	--	--
scaffold41_P3_28907	scaffold41	28907	GATATATATATATATATATATATATA TA/GATATATATATATATATATATATA TATATA	TGATCTGCCAGAATTGA GCA	CCAAAGCGCTGTAGAA GACC	60.5	446	INTERGENIC	--	--	--
scaffold41_P3_66499	scaffold41	66499	AATATATATATATATATATAT/AAATAT ATATATATATATATATATAT	TTTGATTTTGGCTCAG AGG	AGGAAGAGTGGAGTTG CGAA	60.2	515	INTERGENIC	--	--	--
scaffold41_P3_83798	scaffold41	83798	TA/TAGGGAAAGAAA	GAGTGTGGCTGTTTG GAGT	CACCTCATTTGCCATTT CTTT	60.2	841	INTERGENIC	--	--	--
scaffold41_P3_8903	scaffold41	8903	GA/GAA	TCAATCCACAAGTTG GGT	AGAGTCCCAACAATCG AACG	60.2	537	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 (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
scaffold4107_P3_9634	scaffold4107	9634	CT/CTAAATT	CCTAAAACCTAAAACCA AAAACC	TCGTCCAATAAGAACA AAAGTCAA	57.4	127	INTERGENIC	--	--	--
scaffold4108_P3_8749	scaffold4108	8749	CTT/CT	CAAAACCGGAAACGCT TAAC	TTTGGGCTTCGAGTT TAGG	59.6	294	INTERGENIC	--	--	--
scaffold411_P3_298521	scaffold411	298521	AT/AGATTGT	CTTGCATGGCAATTATC CAA	TTGGGCTGATGCAATA AACA	59.5	469	INTERGENIC	--	--	--
scaffold411_P3_314583	scaffold411	314583	GTAATAATAATAATAATAATA/GTAA TAATAATAATAATAATAATA	AATTGGAAAATCGGAG GAAT	GTTTGGCGTTGGTTT CACT	57.5	490	INTERGENIC	--	--	--
scaffold411_P3_339806	scaffold411	339806	T/TA	GACAATGTCCCACTT GAGAA	CACGGTTGTGATGACT GGAC	60.0	671	INTERGENIC	--	--	--
scaffold411_P3_343473	scaffold411	343473	A/AGTG	TCATTTTCATGAAGACC AAACA	TCATTTCGACCATCAAT CCA	58.1	462	INTERGENIC	--	--	--
scaffold411_P3_403033	scaffold411	403033	TA/TAATAA	AAATGGCATTGTAACAC CCC	AATTGGGATGCAGCTT TTTG	59.6	357	INTERGENIC	--	--	--
scaffold411_P3_42875	scaffold411	42875	GAAAAA/GAAAAA	GCCTGTGATAGGCGGT ACAT	TTGGCCAAGTCCCTGT TTAC	60.0	526	INTERGENIC	--	--	--
scaffold411_P3_42897	scaffold411	42897	ATT/ATTT	GCCTGTGATAGGCGGT ACAT	TTGGCCAAGTCCCTGT TTAC	60.0	526	INTERGENIC	--	--	--
scaffold411_P3_74386	scaffold411	74386	C/CA	CCGTCATAGGCGGAGA TAGA	CGCAAGGGTTAATGAT GTCC	60.2	399	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 (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
scaffold411_P3_75082	scaffold411	75082	ATTTTTTTTTTTT/ATTTTTTTTTTTT T	TGGGAGTCGAATCGAG AAAG	GATGAAATTCACCCCA ATCG	60.3	599	INTERGENIC	--	--	--
scaffold4118_P3_18553	scaffold4118	18553	CAA/CAAA	TTCCCCATTCTGAATCC TCA	TACGGTGCTAGGGAAC CAAC	60.4	496	INTERGENIC	--	--	--
scaffold414_P3_21975	scaffold414	21975	GAAAAA/GAAAA	TTCCTATTGCTCACCCC TTG	GAAAAACAAGACCCGC GATA	60.1	516	DRR	Ca_27849	--	--
scaffold415_P3_1012	scaffold415	1012	TTG/T	GGCTAGCAAATGGTCT GAGC	AGGAAGAGTGGAGTTG CGAA	60.0	600	INTERGENIC	--	--	--
scaffold415_P3_9749	scaffold415	9749	T/TCTGA	TTCGAGCTCAAAGAGG TGCT	AGCGCTGAAAAATGTG CCTT	60.3	727	DRR	Ca_28252	--	Trihelix
scaffold4155_P3_7060	scaffold4155	7060	AATATATAT/AATATATATAT	CGGTTC AACGTAACCG ACTT	TTGGGCAACAATCGAT GTAA	60.0	402	INTERGENIC	--	--	--
scaffold4157_P3_9419	scaffold4157	9419	CAA/CTAAATAA	TGCCCAGAGATTGGTAA AAAC	TTTCGGTCATTTTCGT CCTC	59.9	524	INTERGENIC	--	--	--
scaffold4167_P3_2443	scaffold4167	2443	TATATATATAT/TATATATATACATAT ATATAT	CACGGTTTGATCCATT TCC	GAACCTCCTGATCCTC CTCC	60.2	660	INTERGENIC	--	--	--
scaffold418_P3_141565	scaffold418	141565	AT/A	AAGTTGACGAACCAATT CCG	CAAAAGCAATTGTCGT GGAA	60.0	516	INTERGENIC	--	--	--
scaffold418_P3_152839	scaffold418	152839	AACACACACACACACA/AAACACAC ACACACACACACA	CTGGGCAAGGGATCTG AATA	TGCATTTTACAGCGCT TTTG	60.0	596	DRR	Ca_24681	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold418_P3_19445	scaffold418	19445	GTTTTTTTTT/GTTTTTTTTTT	TTACTAGCTTGGTCCC GTGG	CTCCGTTAAGCCCCACA AAAA	60.1	502	INTERGENIC	--	--	--
scaffold418_P3_21466	scaffold418	21466	TTATATATATATATATATATATATATA TATATATATATATATATA/TTATATAT ATATATATATATATATATATATATATA TATATATATATATA	TCACCTTCATATGTGAG CCAA	ATGCCAAATGGCGACTT CTTT	59.1	212	DRR	Ca_24672	--	--
scaffold418_P3_82144	scaffold418	82144	CA/CAAA	GTTTGTGTGGTTGCA GTGG	GAGACCGCTTCTTCTT GACG	60.0	518	INTERGENIC	--	--	--
scaffold418_P3_9574	scaffold418	9574	TTATATATATATATATATATATATATA TATA/TTATATATATATATATATATATAT ATATATA	TGAATATGTGGCGGAA AACA	CATGTGTGAGGGTTGT GGAG	59.9	606	INTERGENIC	--	--	--
scaffold4182_P3_9531	scaffold4182	9531	GATTATTAT/GATTAT	GCCCTCAGATGAGAGT CAGG	CTATTAGCGTTGGCTC TCGG	59.9	629	INTERGENIC	--	--	--
scaffold419_P3_146118	scaffold419	146118	AATATATATATATA/AATATATATATA	CCACAAATACAAC TGCA CCG	TTTGGTAGGCATCTTT GATCG	60.0	440	INTERGENIC	--	--	--
scaffold419_P3_148404	scaffold419	148404	CTATATATATATATATAT/CTATATAT ATATATATATATAT	GAGCAACGACCTATTC TGGC	GGTGAGGATCTGGTGT GGTT	59.8	750	INTERGENIC	--	--	--
scaffold419_P3_148627	scaffold419	148627	CA/CAA	AACAAGCAAGCCATTCA AGC	GGTGAGGATCTGGTGT GGTT	60.4	657	INTERGENIC	--	--	--
scaffold419_P3_88835	scaffold419	88835	TAAAAAAAAAAAA/TAAAAAAAAAAA	AAACTCATTCCTCGTGC TTG	GGCAGTTGCAATGGTT TCTT	60.1	494	INTERGENIC	--	--	--
scaffold4192_P3_3302	scaffold4192	3302	C/CGATTGGTAATCGA	AGGGAGGACGAAATG ACCT	CGATTGCCTCAAAC TT GGAT	59.9	724	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
scaffold4192_P3_3668	scaffold4192	3668	T/TC	ATCCAAGTTTGAGGCA ATCG	CGATTTTCGCAGTCT TGTT	60.1	484	INTERGENIC	--	--	--
scaffold4197_P3_16267	scaffold4197	16267	ATT/ATTACTATTGAGTTGTT	AATGCCACGAATCTG AAAG	GTGCGGAAGCCATGA GTAAT	60.1	483	INTERGENIC	--	--	--
scaffold4197_P3_16348	scaffold4197	16348	GAAA/GAA	AATGCCACGAATCTG AAAG	GTGCGGAAGCCATGA GTAAT	60.1	483	INTERGENIC	--	--	--
scaffold420_P3_113998	scaffold420	113998	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATAT	TTTTTCATTTTGAGCAC CCC	TGCTCAAATCTTGTA TCATGT	59.9	558	INTERGENIC	--	--	--
scaffold420_P3_265273	scaffold420	265273	GAAAAAAAA/GAAAAAAAAA	CGTGATCGTGTGGT TGTC	GGGAATGGCAGCAAAT AGAA	60.0	587	INTERGENIC	--	--	--
scaffold420_P3_344571	scaffold420	344571	CTTTTTTTTT/CTTTTTTTTTT	TCCTCTATGTTGCCGT TCC	TCACTCTCCAAATGGA ACCC	60.1	192	URR	Ca_22212	G	NAC
scaffold420_P3_69655	scaffold420	69655	CAA/CAA	ATGGCGAAGAATTATG GTGC	CATGTACCGCCCATCT CTTT	59.9	265	INTERGENIC	--	--	--
scaffold420_P3_88239	scaffold420	88239	CATATATATATA/CATATATATA	AACACATCCGGGATCC ATTA	TGATGACGAAGACGAA GACG	60.0	468	INTERGENIC	--	--	--
scaffold4213_P3_2577	scaffold4213	2577	GC/GCC	AGTGCCGGTGCAATTT ATTC	CGCATTCCAAATTCAT TCC	60.0	780	INTERGENIC	--	--	--
scaffold4221_P3_48105	scaffold4221	48105	A/AT	CATCCCCGTTTAATACC ACG	AAAGCGGATAGAGTGA TGCC	60.1	234	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
scaffold4221_P3_54516	scaffold4221	54516	A/ATTTAGGG	GAGCCCGAATCGTTAT TTTG	TTGTGGTATACCCGAC AAAGAA	59.5	695	INTERGENIC	--	--	--
scaffold4221_P3_54616	scaffold4221	54616	CAATAATAATAATAATAATAATAAT AATAATAATAGTAATAATAATAATA/ CAATAATAATAATAATAATAATAAT AATAGTAATAATAATAATAATA	GAGCCCGAATCGTTAT TTTG	TTGTGGTATACCCGAC AAAGAA	59.5	695	INTERGENIC	--	--	--
scaffold4221_P3_569	scaffold4221	569	AAAGAA/AAA	ATTGATTTTGAAATCGC CCA	CAGTTTCCTGCCAGCC TTAG	60.3	441	INTERGENIC	--	--	--
scaffold4221_P3_691	scaffold4221	691	A/AG	CTAAGGCTGGCAGGAA ACTG	CGCTTCTTTGGTCATG CAA	60.0	443	INTERGENIC	--	--	--
scaffold4221_P3_7762	scaffold4221	7762	TAAAA/TAAAA	TGCCAGAACTGATTTTC TGCT	GAGCGCTGTAAACAC CTCC	60.0	540	INTERGENIC	--	--	--
scaffold423_P3_23355	scaffold423	23355	GT/GTCTAT	ATGCAATGCGTATATGC CAA	TGCCATGTGATCTGTT GGTT	59.9	481	INTERGENIC	--	--	--
scaffold424_P3_90663	scaffold424	90663	ATTTT/ATTTT	TGCAGTCAAACTTTAA AGGAAG	TTACATAACCAAGACG ACAATAACA	57.8	592	INTERGENIC	--	--	--
scaffold4243_P3_1042	scaffold4243	1042	CGG/CG	GGTACGGAAATTGCCT GAAA	GGTCCTCGATTTCATC TGGA	59.9	204	INTERGENIC	--	--	--
scaffold4243_P3_14917	scaffold4243	14917	CT/CTT	TGCTTGATTGCTTGAGT TCC	GATGAAATCGAGGACT GGGA	59.0	537	INTERGENIC	--	--	--
scaffold4243_P3_17716	scaffold4243	17716	AGG/AGGG	AGGCGATTTTCGTACC ACAC	AAACCGTGTTTCGGTT TCTG	60.0	589	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/Pil) reference genome-CDC	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold4243_P3_7493	scaffold4243	7493	GAAAAA/GAAAAAA	AGCGTCACAGCCTATC CATC	AAGAAAAACAAGACAC GCGA	60.2	468	INTERGENIC	--	--	--
scaffold4244_P3_559	scaffold4244	559	TAA/TAAA	CCCAGTCCCAAGAGT CAAA	GGAACGCATTCTCGT GTTT	60.1	122	INTERGENIC	--	--	--
scaffold429_P3_178641	scaffold429	178641	AATATATATATATATATATATATATATATATATAT/AATATATATATATATATATATATA TATATATATATAT	CAAGCTGAGACATGGC AAAA	CAGTTGGCTACTACCC TCGC	60.0	494	INTERGENIC	--	--	--
scaffold429_P3_179314	scaffold429	179314	CATATATATATATATATATATATATATATATATATATATATA/CATATATATATATATATATATATATATATATATATATA	AAGCTGCAACATCAAA GCA	TAACCAATCTTGTCGA CCCCA	59.6	923	DRR	Ca_26240	--	--
scaffold429_P3_69799	scaffold429	69799	TAA/TA	TGGATGCACGAGATTG GTТА	AGGTCATTTTCGTCCT CCCT	60.1	446	INTERGENIC	--	--	--
scaffold4306_P3_633	scaffold4306	633	TC/TCC	AACCAATCTTGTCATC CAA	GGAATGACGAAAATGG CCTA	59.0	857	INTERGENIC	--	--	--
scaffold4319_P3_1189	scaffold4319	1189	A/AGTCAAТ	CGATTTCCCTCACGAC AAAT	TTTTGGACAGCTACAA GTGGTT	59.9	582	INTERGENIC	--	--	--
scaffold4319_P3_1245	scaffold4319	1245	TAAAAАA/TAAAA	CGATTTCCCTCACGAC AAAT	TTTTGGACAGCTACAA GTGGTT	59.9	582	INTERGENIC	--	--	--
scaffold433_P3_105282	scaffold433	105282	TAAAAAAAA/TAAAAAAAA	ATCGATGATCATGCTCT CCC	TTGTTTCCAAGATTTC GGT	60.0	571	INTERGENIC	--	--	--
scaffold433_P3_146841	scaffold433	146841	AATTATTATTATTATTATTATTATT// AATTATTATTATTATTATT	TGGTGACAATTGTAGT GTTCТ	CAGTGCGATGGAGAAA TCAA	57.9	523	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 (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
scaffold433_P3_147086	scaffold433	147086	ATTTTTTTTT/ATTTTTTTTT	TGGTGACAATTGATG GTTCT	TCGATTATGCGTAGGG AAGG	57.9	770	INTERGENIC	--	--	--
scaffold433_P3_147750	scaffold433	147750	TTTTTATTTTAT/TTTTTATTTATTTTAT	TTTGTAGCGGATGTCGTA GGG	TCACAAGGGAGGCTTT ATGG	60.1	717	INTERGENIC	--	--	--
scaffold433_P3_147805	scaffold433	147805	GTAT/GTATAT	TTTGTAGCGGATGTCGTA GGG	TCACAAGGGAGGCTTT ATGG	60.1	717	INTERGENIC	--	--	--
scaffold433_P3_157672	scaffold433	157672	GATATATA/GATATA	GCAATTCAGATGGGC AGTT	AATGATCGTCTTCGGA TTGG	60.1	714	INTERGENIC	--	--	--
scaffold433_P3_161477	scaffold433	161477	TGA/TGAAATCGA	TGAGTGGAACCTTATAC CCGA	GAACATTCAATCGCCG AAAC	59.4	289	INTERGENIC	--	--	--
scaffold433_P3_163276	scaffold433	163276	CTTTTTTTT/CTTTTTTTT	CGCACTTGGCCAAAAT AAAT	GATTCATGCAGGACAG AGCA	60.0	532	INTERGENIC	--	--	--
scaffold433_P3_165941	scaffold433	165941	A/AG	AAAATTGAAACATCCGA CGC	ACTTGTCGCTGGACGA ATCT	59.9	512	DRR	Ca_26821	--	--
scaffold433_P3_166848	scaffold433	166848	C/CT	TGGGAATGTTGTGTAA GCGA	TGCAATGGATGAAATG GTGT	60.1	691	INTRON	Ca_26821	--	--
scaffold433_P3_169477	scaffold433	169477	ATTATTTATTTATTTATTTA/ATTATTTAT TTATTTATTTATTTA	CTAGTGGGTACCCGCA AAAA	GGTGGGCATATTACAA CGCT	60.0	576	URR	Ca_26821	--	--
scaffold433_P3_20683	scaffold433	20683	A/AATATCT	GGGGTGGTGATTCTCA CAAG	GATCCAATGCATGGC TTTT	60.4	382	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 (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
scaffold433_P3_26424	scaffold433	26424	G/GA	TGTGAATGTTTTGTTGC TCAATC	TTCCCAAACAGCCTGA AAAC	60.0	829	INTERGENIC	--	--	--
scaffold433_P3_47351	scaffold433	47351	AAAAA/AAAAACAAAA	GAGGCGTCAAGCTAAT GACC	AAGCTCAATGGGCTA GCAA	59.8	530	INTERGENIC	--	--	--
scaffold433_P3_70798	scaffold433	70798	CGGG/CGG	GGGTACGTCGGTGAGT GTTT	GAACAAAAGAGAACGG CTGC	59.9	751	INTERGENIC	--	--	--
scaffold433_P3_74324	scaffold433	74324	G/GATACGA	GTGGGTTCTATTGGGG GAGT	ACGTTGTCGGACATTC ATCA	60.1	570	INTERGENIC	--	--	--
scaffold433_P3_7788	scaffold433	7788	CAAAAAAAAA/CAAAAAAAAAAAAA	AGGGCAACCTAGGCAA AAAT	TGGTGGTGACTGTCCT TTTG	60.0	709	INTERGENIC	--	--	--
scaffold433_P3_86247	scaffold433	86247	GTTT/GTT	GCCCTCAGATGAGAGT CAGG	AGAATTACGAGCAGC GGAA	59.9	287	INTERGENIC	--	--	--
scaffold433_P3_88737	scaffold433	88737	GAAAAA/GAAAA	TATTTTGGATTTTGGCT CGG	CGAAACGGAGAGGTTT GTGT	59.9	573	INTERGENIC	--	--	--
scaffold433_P3_96086	scaffold433	96086	AATATATATATATATATATATATA/AA TATATATATATATATATATATATATA	AATCCCAAGTTTGCAAC GAC	TGAAGGATATTGACCC AGCC	60.0	301	INTERGENIC	--	--	--
scaffold433_P3_99055	scaffold433	99055	TAAA/TTAAAA	CTAAAAATTGGCCCGAT CAA	TCAAGTTGAACGTGCG GCAC	59.9	596	INTERGENIC	--	--	--
scaffold4349_P3_1831	scaffold4349	1831	GTTTT/GTTT	AGGTCATTTTCGTCTC CCT	CAACACACCTGTTGG ATGC	59.9	182	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 (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
scaffold4349_P3_664	scaffold4349	664	G/GA	AGGTCATTTTCGTCCTC CCT	AACACAGCTGTTGGAT GCAC	59.9	279	INTERGENIC	--	--	--
scaffold436_P3_67143	scaffold436	67143	A/AC	CAAACACACCTGTTGG ATGC	AGGTCATTTTCGTCCT CCCT	60.0	478	INTERGENIC	--	--	--
scaffold436_P3_68438	scaffold436	68438	A/AT	GGCCGGATGAAAATGA ACTA	ATTTTCGTCCTCCAAA GGCT	59.9	513	INTERGENIC	--	--	--
scaffold4366_P3_1890	scaffold4366	1890	G/GC	GGACATGAATAGGGCA ATGG	GGTCATTTTGTCCAC GCTT	60.2	532	INTERGENIC	--	--	--
scaffold437_P3_45718	scaffold437	45718	CAATATTAATAAATATTA AAAAATATTAATAAATATTA AA	TCGAAGAGGACCATT ATCA	AGGTCGCACTCCAAT ATCG	59.2	777	INTERGENIC	--	--	--
scaffold4374_P3_1159	scaffold4374	1159	CTAAACC/CTAAACCATAAACC	TAAACCCCAATGACC GAAA	AGGGGTTAGGGGTTA GGGT	60.2	444	INTERGENIC	--	--	--
scaffold4374_P3_728	scaffold4374	728	GCCTAAACCCTAAACCCTAA/GCCTAA ACCCTAA	ATAAACCCGAACCGCA AAAC	AGGGTTTAGGGTTAG GCCA	61.1	848	INTERGENIC	--	--	--
scaffold4377_P3_6572	scaffold4377	6572	AA/AAGA	TCCAGATGAAATCGAG GACC	AGGCGATTTTCGTACC ACAC	60.0	319	INTERGENIC	--	--	--
scaffold438_P3_13740	scaffold438	13740	TTATATATATATATATA/TTATATATATA TATATATATATATA	CCTTCTCATTGCGAACC CTA	CTTCGACACTGTAGCA CCCA	60.2	356	INTERGENIC	--	--	--
scaffold438_P3_3929	scaffold438	3929	A/ATAT	GATGCATCTACCAAG GGTT	ATTCCGCCACATGTTT CTTC	59.9	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold438_P3_61806	scaffold438	61806	AATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	TTGACACAGCTCCAGT CAGG	ATTCCGGTAAATCTC CGCT	60.0	838	INTERGENIC	--	--	--
scaffold4383_P3_25907	scaffold4383	25907	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAA/TATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAATAA	TGATCTCTAACGGACC ACCC	TCATGTGCTTTTACTG CCCA	59.9	781	INTRON	Ca_28195	--	--
scaffold4387_P3_5508	scaffold4387	5508	TAGTATA/TAGTATAGCAAGTATA	GCACAAAACCTTATCC CCA	AAATGCTCGCCTCTT TTGA	59.8	311	INTERGENIC	--	--	--
scaffold4387_P3_5615	scaffold4387	5615	ACGTCGTCG/ACGTCGTCGTCG	TCAAAAAGAGCGAGC ATTT	GGCGATTGTGGAAGA CAGT	60.0	191	CDS (large-effect mutations)	Ca_27838	U	--
scaffold4387_P3_5637	scaffold4387	5637	TTCT/TTCTCTCT	TCAAAAAGAGCGAGC ATTT	GGCGATTGTGGAAGA CAGT	60.0	191	INTRON	Ca_27838	U	--
scaffold4387_P3_5828	scaffold4387	5828	GTTTTTTT/GTTTTTTT	TCAAAAAGAGCGAGC ATTT	GCCAACTTAACAGCAG GCTC	60.0	665	INTRON	Ca_27838	U	--
scaffold44_P3_148629	scaffold44	148629	TTATATATATATATATATATATA/TTA TATATATATATATATATATATA	ATCGTTGTGGCACGTT ATCA	TTGATTGTTTGATGAC ATATTGTG	60.0	422	INTERGENIC	--	--	--
scaffold44_P3_277784	scaffold44	277784	GTTTTTTTTT/GTTTTTTTTT	GGTTTATTCGAGTTCGT TTTGG	GAGGCTTTTGCACTTC TTGG	59.9	463	INTERGENIC	--	--	--
scaffold44_P3_287139	scaffold44	287139	CA/CATGTTTTGAATA	TTAAATTTGGCGGTTT TGG	AAAAATTCGAAGCGG AAAG	59.8	166	INTERGENIC	--	--	--
scaffold44_P3_290551	scaffold44	290551	TTTA/TTTACAATTA	AACCAAAGAGGCTTTC GTCA	GGAGCAGTTTCTTGCC GTAG	59.9	705	DRR	Ca_25417	--	--

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 (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
scaffold440_P3_8696	scaffold440	8696	CAAAAAAAAA/CAAAAAAAAA	ATCAGCATCAAGTGCA CAGC	TCCAGATTTGTGACGA GCAA	60.0	473	INTERGENIC	--	--	--
scaffold4417_P3_868	scaffold4417	868	GCCC/GCC	TGGTTAAATCGAAATG GGC	TGTTTGGGGTTTGGA TTTA	59.8	398	INTERGENIC	--	--	--
scaffold442_P3_20594	scaffold442	20594	TGGGGGGGG/TGGGGGGG	TGGACGCACAAGATTG GTTA	AGGTCATTTTCGTCCT CCCT	60.1	370	INTERGENIC	--	--	--
scaffold442_P3_37151	scaffold442	37151	TAAAA/TAAAA	AGGGAGGACGAAATG ACCT	TGTGCGTCCAATAGGT GTGT	59.9	363	INTERGENIC	--	--	--
scaffold4446_P3_7048	scaffold4446	7048	ATTTT/ATTT	CCCTGGCTTATTCTGT CCA	CCAAGGAAGACGAAA ATGA	60.1	206	INTERGENIC	--	--	--
scaffold4452_P3_79088	scaffold4452	79088	CTTTTTTT/CTTTTTTTT	CCTCGTGTAATTTAGTG GAGGTT	CCTCTGCAACTCCCAT TTGT	58.6	944	DRR	Ca_26057	QI	bHLH
scaffold4452_P3_80208	scaffold4452	80208	AAGA/AA	CAAACTTTCTTCGGCA ATC	AGACTCGGTGCATTTT CAGG	59.7	229	DRR	Ca_26057	QI	bHLH
scaffold446_P3_114477	scaffold446	114477	TAG/TAGAG	AAAAATGGGTGGTCAA ATCAA	CACCGAGGCTTAAAC CAAA	59.2	375	INTERGENIC	--	--	--
scaffold446_P3_119169	scaffold446	119169	ACGCGGAACCG/ACG	TCTAACACGGAACCG AAAC	TCCAGATGAAATCGAG GACC	60.0	406	INTERGENIC	--	--	--
scaffold446_P3_12907	scaffold446	12907	A/AT	TGTTCCCAAGTCAACAC CAA	AAATGGACGTGAAAAG TGCC	60.0	918	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 (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
scaffold446_P3_145342	scaffold446	145342	GAAA/GAA	TTAAAGTCAAGGGGCA CCAC	CGTCTTAGGGTCCAA ATCA	60.0	477	DRR	Ca_26829	--	--
scaffold446_P3_163582	scaffold446	163582	CAAATGAAAATTTAAA/CAAATGAAAAT TTAAATGAAAATTTAAA	TTGCATCATGCTATTTT CCA	ACATAACTTTGTGGGC CAGC	60.0	685	INTERGENIC	--	--	--
scaffold446_P3_224556	scaffold446	224556	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATA/AAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATA	TTTCTCTGGCTTTTTG GGC	CATTGAGTACAACTAC AAAACGACG	60.1	771	INTERGENIC	--	--	--
scaffold446_P3_235656	scaffold446	235656	TAA/TA	TCTGACAACTCAATTTT GCTCTATG	GTTGTACTTCATAACG AACACAATACT	59.8	521	INTERGENIC	--	--	--
scaffold446_P3_67842	scaffold446	67842	A/ATAT	GGACGGCCTAGTCTAT TCCC	ACGACGTAGAACTATA AAACGGTAA	59.9	500	INTERGENIC	--	--	--
scaffold446_P3_67853	scaffold446	67853	CATA/C	GGACGGCCTAGTCTAT TCCC	ACGACGTAGAACTATA AAACGGTAA	59.9	500	INTERGENIC	--	--	--
scaffold4462_P3_2637	scaffold4462	2637	G/GGTTTTGACAA	CAAAAATCGACCACAG CAAA	GTAAATGAAGCGCTT TCGC	59.7	569	INTERGENIC	--	--	--
scaffold450_P3_108759	scaffold450	108759	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATATA T	TTTTTCGAGTAGGTG GGTG	AGCAAAAGGAAGCAAC GAAA	60.1	620	INTERGENIC	--	--	--
scaffold450_P3_247899	scaffold450	247899	CG/C	TTTGAAGCACGTCCAA CTCA	GTATTTGGCCGACGCT ATGT	60.4	808	INTERGENIC	--	--	--
scaffold450_P3_415554	scaffold450	415554	CAA/CA	TGTTACAATCGGCACTT GGA	GTGTGACCCTTGAGAC CACA	60.1	754	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 (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
scaffold450_P3_515659	scaffold450	515659	GGTC/GGTCATTTTCGTC	ACCTCATTTTCGTCCTC CCT	TTGGATGCACAAGATT GGTT	59.9	641	INTERGENIC	--	--	--
scaffold4508_P3_21691	scaffold4508	21691	AATATATATATATATATATATA/AA TATATATATATATATATATA	CGTTCAGCGTCAATTCT CTG	CCCAACTTCCACCACA ATCT	59.6	879	INTERGENIC	--	--	--
scaffold4508_P3_33683	scaffold4508	33683	CTTTTTT/CTTTTTT	TGAATGTCGTCAATGG GAGA	AAGAATCGAATGGGAA ATCG	60.0	772	INTERGENIC	--	--	--
scaffold4508_P3_36727	scaffold4508	36727	TAA/TA	TTGTGTTTGTCACAGG CCAT	TCAGGAACAACAACCT AACCC	60.0	371	INTERGENIC	--	--	--
scaffold4509_P3_1069	scaffold4509	1069	GTGTTATTGTT/GTGTT	CATTAGAGGTGCTTGG CACA	TCTTGTGAATGAGCTC CACG	59.9	382	INTERGENIC	--	--	--
scaffold451_P3_17388	scaffold451	17388	AAGTA/AA	TGCTCAAGGATGCACT CAAC	GCCATTGATGAGTACG CTGA	60.0	671	CDS (large-effect mutations)	Ca_22599	--	C3H
scaffold451_P3_288952	scaffold451	288952	ACCCCCCCCC/ACCCCCCCCC	TTGGAAGGTCAGGTGC TTTT	CCAACAGAGCGATGTA ACCA	59.7	516	INTERGENIC	--	--	--
scaffold451_P3_31313	scaffold451	31313	A/AC	GAATTCATGCACCCGA GAAT	TGGAGGAACAATGAGT GTCG	59.9	247	INTERGENIC	--	--	--
scaffold451_P3_321636	scaffold451	321636	GTTTTTTTT/GTTTTTTTT	TTGGGAGGCTATGAAA AACG	GAAGATGGGTACGGT GGTG	60.1	505	INTERGENIC	--	--	--
scaffold451_P3_382138	scaffold451	382138	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAA/AAATAATAATAATAATAATAA TAAATAATAATAATAATAATAATAAT AATAATAATAATAA	CAAAGCCGAGAAAACG ACTC	AGAGGCAAAACAAGAAC CGAA	60.0	376	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 (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
scaffold451_P3_5783	scaffold451	5783	ATTT/ATTTT	TTCGTTTGTGAGATTTTA GGGC	TTGCCATTTGGTTCTT CACA	58.4	660	INTERGENIC	--	--	--
scaffold451_P3_64877	scaffold451	64877	GTTG/GTTGAATTATATTG	GCAATCTTTGTGGCAC TGAA	TTCATACTCGCAATTA AAACATCA	59.8	560	INTERGENIC	--	--	--
scaffold4511_P3_22953	scaffold4511	22953	TAAAA/TAAAAA	CTCCCCCTGAGTTTGT GAAT	GACGACAATCACCCGA AGAT	60.3	753	DRR	Ca_28219	--	Trihelix
scaffold4511_P3_38356	scaffold4511	38356	GTTTTTTTTT/GTTTTTTTTT	AATGCCCAACCATAATT TCA	CTGGGCAAGGATCTG AATA	60.0	642	INTRON	Ca_28219	--	Trihelix
scaffold453_P3_147436	scaffold453	147436	AAAATTCCCAATTCCCAAATT/AAAAT TCCCAAATT	AAGAGAGGTCACTTTG GCGA	AACCTCGAGACCACCA TCAC	60.0	771	INTERGENIC	--	--	--
scaffold453_P3_301361	scaffold453	301361	TA/TAA	GCTTTGTGGAGGAAAT GGAA	ACTGCTGTTGCTGCTC TTGA	60.1	817	INTERGENIC	--	--	--
scaffold453_P3_430178	scaffold453	430178	TCTT/TCTTTCACCCCTTACCTT	CGTCACCATCCTCACAT AACC	ACCAAAGCCAAAAATG ATCG	60.2	655	DRR	Ca_21743	--	--
scaffold453_P3_497792	scaffold453	497792	CAATAATAATAATAATA/CAATAATAATA ATAATAATA	GCCGTGATTTGGAATA AGAA	TGTCAGTTTTGAGCCC AATG	60.1	479	URR	Ca_21748	--	--
scaffold453_P3_498751	scaffold453	498751	GATAT/GATATAT	GCCCTCAAAGATAAC CCAT	GACCATGATTTCTTACT AGCCGTT	60.2	838	URR	Ca_21748	--	--
scaffold453_P3_498973	scaffold453	498973	TATAATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAATA TAA/TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAATA TAAATAATAATAATAATAATAATAATA	TTTGTGCAAAGGATTGT TGG	TGCAATTTATGCATTG AAGG	59.6	762	URR	Ca_21748	--	--

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 (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
scaffold453_P3_526129	scaffold453	526129	ATTTTT/ATTTTTTT	TCCTCTTAGTTTCGAGG ACGA	TGCCCCCTCTTAATTG CACA	59.1	630	INTERGENIC	--	--	--
scaffold453_P3_79397	scaffold453	79397	AG/AATACCATCTAAGATTG	TTGTTTGACCCATTGTA CTTTGA	TTGCTAGTTGCTGATG TGGC	59.4	183	INTRON	Ca_21728	--	MYB_related
scaffold453_P3_80166	scaffold453	80166	T/TCATG	AATTTAAACCGGCCAAA ACC	TCACTCATAAATATCCT CATGGACA	60.1	578	INTRON	Ca_21728	--	MYB_related
scaffold4551_P3_6498	scaffold4551	6498	TAAAAAA/TAAAAA	CTGGTGAGGTTGCTTG GAAT	CATGCCTTGAGACCT TCAT	60.1	883	INTERGENIC	--	--	--
scaffold4582_P3_7612	scaffold4582	7612	A/AG	TCCAGATGAAATCGAG GACC	CGAAATTTGACACGGA ACCT	60.0	258	INTERGENIC	--	--	--
scaffold46_P3_40359	scaffold46	40359	ATTT/ATTTT	TGTGCCTGAGAAAGAT GCAA	CAGAATCAATGTGCCA ATCG	60.5	509	DRR	Ca_27600	--	--
scaffold46_P3_6079	scaffold46	6079	CTTTT/CTTTT	GGGCCGAGAGTCCCTT ATAG	GGTCCTCGATTTTCATC TGGA	60.1	304	INTERGENIC	--	--	--
scaffold46_P3_6142	scaffold46	6142	C/CGAG	GGGCCGAGAGTCCCTT ATAG	AGTGTGTCTCGCTCCT CGAT	60.1	437	INTERGENIC	--	--	--
scaffold46_P3_9094	scaffold46	9094	ATTTT/ATTT	TTGAAATCGGACATGG AACA	GATGAAATCGAGGACC AGGA	59.9	852	INTERGENIC	--	--	--
scaffold4605_P3_24911	scaffold4605	24911	GCC/GC	CGTAGGGAGGACGAAA ATGA	ACCAACCTTGTGCATC CAAT	60.1	773	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 (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
scaffold469_P3_75190	scaffold469	75190	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATAT	TGAAAAGGCCGTTAGT TGCT	GCCAAAAATATTCATG CCAAA	59.9	728	INTERGENIC	--	--	--
scaffold469_P3_8072	scaffold469	8072	TAAAAAAAAA/TAAAAAAAAA	AATCATCCGCTTCCCTT CTT	AAACGTGGTCTTTTCC ATGC	60.0	632	INTERGENIC	--	--	--
scaffold470_P3_185944	scaffold470	185944	GTTCTGATTAAT/GTTCTGATTAATTTA TTTTCTGATTAAT	AATAATGGCGTTCGGA TTGA	TTGGTTTATTTGGGT GGGA	60.3	798	INTERGENIC	--	--	--
scaffold470_P3_186075	scaffold470	186075	ATGAACTGAACTGAACTGAA/ATGAACT GAACTGAA	ACCAGGAAAAGAAGAA GGGC	TTGGTTTATTTGGGT GGGA	59.7	456	INTERGENIC	--	--	--
scaffold470_P3_186436	scaffold470	186436	T/TTTTACAGCGC	TCCCAACCCAAATAAAC CAA	TGGATCTCACTAAATC TTGGGAA	60.0	301	INTERGENIC	--	--	--
scaffold470_P3_241092	scaffold470	241092	AATATATATATATATATATATATAT/AA TATATATATATATATATATATATAT	AATCGGAAGGGTAAAC TCGT	TTTCGTTTGCAAGGT TTGA	57.7	660	INTERGENIC	--	--	--
scaffold470_P3_335250	scaffold470	335250	CAAAAAAAAA/CAAAAAAAAA	GGCCATGCCAGCTACT ACAT	TTGCTCGTTTGCTTCT GCTA	60.1	649	INTERGENIC	--	--	--
scaffold470_P3_336358	scaffold470	336358	TTATGTAT/TTAT	GTCATCCTAGCCATCG TCGT	GTGTCCCAAACTCAA GGGA	60.1	876	INTERGENIC	--	--	--
scaffold470_P3_365605	scaffold470	365605	CTTTTTTTTTTT/CTTTTTTTTTTT	AGAAGCAAGCTAGCTC GTGG	ATTGGAGCACATTAG GCTT	59.9	815	INTERGENIC	--	--	--
scaffold470_P3_370786	scaffold470	370786	TAAAAAA/TAAAAA	CATGCCAGTTGCTACAT GCT	GCTTGGACTCAGTGCC TAGG	59.9	949	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold475_P3_163126	scaffold475	163126	AC/ACCTAATC	TTCAGGCAATCCAATCT TCC	TGGGTCCAAAGGACAG GTAG	60.0	503	INTERGENIC	--	--	--
scaffold475_P3_174713	scaffold475	174713	GTTTTTTT/GTTTTTTTTT	AAGGTTGACTGCATAA CGAAGA	CAACACCATTGACAA CACCA	58.9	730	INTERGENIC	--	--	--
scaffold475_P3_20307	scaffold475	20307	GTTATTAT/GTTATTATTAT	TCACCGTTTTATAGTTC TACGTCA	ATCTTCGTTATGCAGT CAAACCTT	58.0	417	INTERGENIC	--	--	--
scaffold476_P3_4613	scaffold476	4613	TGGG/TGG	GATGAAATCGAGGACC AGGA	GCGTAACCCGAAACAC AGTT	60.0	722	INTERGENIC	--	--	--
scaffold4769_P3_4939	scaffold4769	4939	TAAAA/TAAAAA	ACAACCTCTCATGCTCG CAA	GGGAAATCATGTTTA TCACAATC	59.6	327	INTERGENIC	--	--	--
scaffold477_P3_10236	scaffold477	10236	CAAAAAAA/CAAAAAAA	TTGGAAAAGCCACCT ACAC	TGCAGTGCAATGTCCA TTTT	60.0	208	INTERGENIC	--	--	--
scaffold477_P3_11283	scaffold477	11283	C/CA	TGTCATCTTGTTGCCT TGG	TGATGAACTCTGAAC TCGTGG	59.7	114	INTERGENIC	--	--	--
scaffold477_P3_20714	scaffold477	20714	TA/TGA	CCCCCTAATGCTCAATT TCA	TGCAACAAGAGGCAAA ACAC	59.9	288	INTERGENIC	--	--	--
scaffold477_P3_28410	scaffold477	28410	TAAAA/TAAA	GTAGGAGGATCTCAAG GGGC	CCAAATTAGGAAGCA CCCA	60.0	567	INTERGENIC	--	--	--
scaffold477_P3_46653	scaffold477	46653	GAAAAA/GAAAAAA	ATGCAACTGTCGTTTTA GCA	TTAGAGCGCCTTCTGA TGGT	57.0	405	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 (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
scaffold4773_P3_16361	scaffold4773	16361	G/GA	TGAAAGCTGCAAAACA GGTG	ATTGATTGCAACCAG GAGG	60.0	236	INTERGENIC	--	--	--
scaffold4773_P3_16885	scaffold4773	16885	TNNNNNNNNN/TNNNNNNNNN	TGCGGCTATTCATAACA TGG	GCATATCTGAGGCTGC CAAT	59.5	600	INTERGENIC	--	--	--
scaffold4773_P3_24919	scaffold4773	24919	CAAAAAAAAA/CAAAAAAAAA	GACCACTACGCCAAA ATGG	ACAACATAGACTGCGG GTCC	60.4	303	INTERGENIC	--	--	--
scaffold4773_P3_27669	scaffold4773	27669	TAAAAA/TAAAAA	CCTCCCTTGCTTGCTT TTT	TTTCAGGAGGTGTTA ACCG	60.7	500	INTERGENIC	--	--	--
scaffold4773_P3_33231	scaffold4773	33231	TA/T	TGGACCTCAATTGTTAA GGG	TCCTTTCAACGTTTTC ATACA	59.8	554	INTERGENIC	--	--	--
scaffold4777_P3_118728	scaffold4777	118728	CTTTTTT/CTTTTTTTTT	AACGGTTTGGTTTGATC TGC	ACGTCGTCAAACAGAT GCAC	60.0	231	INTRON	Ca_26711	R	--
scaffold4777_P3_29741	scaffold4777	29741	CAAAAAAAAA/CAAAAAAAAA	TGGCTTGTTTCTCTC CCT	TGTTGTTCTACATGCG CTGA	59.8	663	INTERGENIC	--	--	--
scaffold4782_P3_1490	scaffold4782	1490	T/TCCATTTCATGTTCCC	TCCGGCTCTCAGATT CACT	ACCAGAGAGTGGCAG CCTAA	60.0	224	INTERGENIC	--	--	--
scaffold4784_P3_684	scaffold4784	684	TG/TGATGGCTAG	TCCTGGTCTCGATTTC ATC	GGGCCGAGAGACCCT TATAG	60.0	339	INTERGENIC	--	--	--
scaffold479_P3_109349	scaffold479	109349	ACC/AC	ATGGTTTCAAAATCCA CGG	GGTAAGGGCTCCTTCC AAAC	59.7	357	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
scaffold479_P3_125417	scaffold479	125417	CTTTT/CTTTT	ACAAACCAATCGATTTC CCA	CGGAGGACGAAAATGA CCTA	60.2	180	INTERGENIC	--	--	--
scaffold479_P3_16760	scaffold479	16760	ATTTTTTTTTTTTT/ATTTTTTTTTT	TGTTTCATTGTAACACCC CGA	TTAAGCCAATGCCACA AACA	59.8	533	INTERGENIC	--	--	--
scaffold479_P3_7594	scaffold479	7594	TTA/TTAGGCATA	TGTGTTTGTGGCATTG GATT	AGGGAGGACGAAAATG ACCT	59.8	329	INTERGENIC	--	--	--
scaffold48_P3_11811	scaffold48	11811	AAATAATAATAATAATAATA/AAATA ATAATAATAATAATAATA	GCTAACTGACTTGCATT GCG	ATTCATCAGTTGCGCA AAAA	59.6	758	INTERGENIC	--	--	--
scaffold48_P3_15048	scaffold48	15048	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAA/AAATAATAATAATAA TAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAA	TCGGTTCATCATGTTG GAAAT	TCTTTTGATGTGGGT AGTGAGAA	60.2	677	INTERGENIC	--	--	--
scaffold48_P3_152622	scaffold48	152622	AGTCTTGT/AGT	CTCGACTTTTGCCGGA GTAG	AGCGATGCAGAGAAAC CATT	60.0	340	INTERGENIC	--	--	--
scaffold48_P3_250364	scaffold48	250364	GATATATATATATATATATATATATA TATATATATATAT/GATATATATATAT ATATATATATATATATATATATATAT	CTGGTAATCACGGTCG TCCT	TGAAATTCAATTCGACT TACGC	60.0	640	INTERGENIC	--	--	--
scaffold48_P3_341373	scaffold48	341373	CTATATATATATATATATATATAT/CT ATATATATATATATATATATATATAT	CGTTGAAAGAAAGAATA CATTGGA	GAAGAGAAATTGAAAG CGAGGA	59.6	625	INTERGENIC	--	--	--
scaffold480_P3_43150	scaffold480	43150	TCCC/TCCCC	AACGTACTGCCTATCAC GGG	TGTTTCATCGTATTTGG CGTG	60.0	836	INTERGENIC	--	--	--
scaffold480_P3_69498	scaffold480	69498	TTTTATTATTATTATT/TTTTATTAT TTTATTATTATT	AGAGGTGCGCACTATG GACT	CTGGAAGTGGCAGTGA ATGA	59.9	695	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 (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
scaffold4804_P3_1921	scaffold4804	1921	TAAG/TAAGCCAAG	TTGGATGCACAACATTG GTT	AGGTCATTTTCGTCCT CCCT	59.8	561	INTERGENIC	--	--	--
scaffold4804_P3_2000	scaffold4804	2000	CT/CTT	TTGGATGCACAACATTG GTT	AGGTCATTTTCGTCCT CCCT	59.8	561	INTERGENIC	--	--	--
scaffold4804_P3_8867	scaffold4804	8867	CTT/CT	TGGATGCACCAGATTG GTTA	AGGTCATTTTCGTCCT CCCT	59.9	570	INTERGENIC	--	--	--
scaffold4804_P3_9853	scaffold4804	9853	CAAAAA/CAAAA	AAGCCTGAGGATGACG AAAA	TGCATCCAACAGGTGT GTTT	59.8	571	INTERGENIC	--	--	--
scaffold4822_P3_847	scaffold4822	847	A/AGAATACT	CAGCGGATCCCCAGAT ATAC	AGGTCATTTTCGTCCT CCCT	59.4	545	INTERGENIC	--	--	--
scaffold4829_P3_1089	scaffold4829	1089	AGG/A	ATATGGACCGCAAATG GATG	GCGTCGTAGGTTTCGAC TAGG	60.6	561	INTERGENIC	--	--	--
scaffold4829_P3_6279	scaffold4829	6279	TCCC/TCCCC	GACCCGCATTTTCCTCA TTA	GGAGAACGTTAAGGCA GCAG	59.9	507	INTERGENIC	--	--	--
scaffold4829_P3_6512	scaffold4829	6512	AGGGG/AGGG	CTGCTGCCTTAACGTT CTCC	CCAAAAATCAGCCCGA TCTA	60.0	262	INTERGENIC	--	--	--
scaffold4829_P3_8205	scaffold4829	8205	TAAAA/TAAA	CAATAGCATGCAGTTG GAGG	GGAGACTCCCATACAT TGCC	59.3	500	INTERGENIC	--	--	--
scaffold4833_P3_3774	scaffold4833	3774	T/TA	CCAAGCCAGTCAAACA CAAA	GGGCTCGCTATGTACA GCA	59.7	839	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 (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
scaffold4833_P3_740	scaffold4833	740	TTTTTTGTTTT/TTTTTT	TGGGAATGTAGTGGAT GAACC	TCCCGAACACCTATGC TTTT	59.7	529	INTERGENIC	--	--	--
scaffold4836_P3_5359	scaffold4836	5359	ATTTTTTTTT/ATTTTTT	TCAGAACATCCGATTCT CCC	TTGGTCGACAAGCAAC TGAG	60.0	508	DRR	Ca_28200	--	--
scaffold484_P3_136302	scaffold484	136302	TCCCC/TCCC	ACCGAGGTGCCACTTA TCAC	ATAGTGGTGACTGGAT GGGC	60.0	229	INTERGENIC	--	--	--
scaffold484_P3_159108	scaffold484	159108	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATA/AAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATAATA	AGAGCATCCATACAG AGCA	TGATGTTCAATCCCAA AGCA	59.4	938	INTERGENIC	--	--	--
scaffold484_P3_186609	scaffold484	186609	ATTAT/A	GGCATTAGTGGATGTG GAGG	GTTGGAACCGCAGGTA AAAA	60.3	845	DRR	Ca_21175	--	--
scaffold484_P3_275765	scaffold484	275765	ATTTTTTTTTTT/ATTTTTTTTTT	TGTTTCAAAACCCAAAT CCA	CAGGAGCTCAACAGGT ATCG	58.8	463	INTERGENIC	--	--	--
scaffold484_P3_319973	scaffold484	319973	ATTTTTTTTTTT/ATTTTTTTTTT	TTGCACTCACGGAACG AATA	TCGCCATTTAAATGA GGTG	60.3	452	INTERGENIC	--	--	--
scaffold484_P3_394839	scaffold484	394839	GAAAA/GAAAAA	AAGATGAAGCCTTTGA GGCA	ATCCTCTTGAAGCTG CTGA	60.0	683	INTERGENIC	--	--	--
scaffold484_P3_485232	scaffold484	485232	ATT/ATTT	TCGAGAATTGAAACCC AAGG	TCCACCACTCAAACAC AACAA	60.0	356	INTERGENIC	--	--	--
scaffold484_P3_523392	scaffold484	523392	ATTTTT/ATTTT	GCTCGTCGATCTTTTC AGG	TCATCAGTATCGTGGG TGGA	60.0	602	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 (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
scaffold484_P3_587343	scaffold484	587343	GTTT/GTTTT	ACGTTCTGAGGGAAT TGTG	GAATCTGGGCTGAA TCAA	60.0	569	INTERGENIC	--	--	--
scaffold484_P3_656687	scaffold484	656687	AC/A	TATCACCTATCAGAGC GGGG	TGATTCCGGGGAAGTA CAAC	60.1	472	INTERGENIC	--	--	--
scaffold485_P3_151121	scaffold485	151121	CNNNNNNNNNN/CNN	TTCACATCACAACCTGCG TCA	GGATGCAACAATTTTC ATCATTT	59.9	166	INTERGENIC	--	--	--
scaffold485_P3_170975	scaffold485	170975	CTTT/CTT	AAAAACAGGTTGTGCG GAAG	AATGGCCACGAATCTG AAAG	60.1	450	INTERGENIC	--	--	--
scaffold485_P3_47382	scaffold485	47382	AATATATATATATATATAT/AATATAT ATATATATATATATATAT	TTGTTTCAGCACTCAC AAAA	CATCCATCAAAATTAATT CTTCAACC	59.4	227	INTERGENIC	--	--	--
scaffold4851_P3_3486	scaffold4851	3486	GTT/GT	CTATAAGGGTCTCTCG GCCC	CCGATGCTAAAAATGG CAGT	60.1	733	INTERGENIC	--	--	--
scaffold4851_P3_3617	scaffold4851	3617	TAAAAAAA/TAAAAAAA	CGCGGAACCTGAAACA CTAT	CCGATGCTAAAAATGG CAGT	60.1	616	INTERGENIC	--	--	--
scaffold4851_P3_4115	scaffold4851	4115	AT/A	CCGTTTCGACGCAACTA TTTT	GAAAAAGCGCTGTAAA AGGC	60.1	488	INTERGENIC	--	--	--
scaffold486_P3_38993	scaffold486	38993	CAAAAAA/CAAAAAA	CTCCCCCTTTTGTCA TAA	TGACCAGCTGAAGCAC AATC	59.9	415	INTERGENIC	--	--	--
scaffold486_P3_39329	scaffold486	39329	G/GC	CAGCAAGTGTCTCCTC ACCA	ATCAGTGAAAGGCAT ACGG	60.0	724	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 (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
scaffold4865_P3_1149	scaffold4865	1149	C/CA	ATTATGCCAAAAAGGG GGAG	CGATTGTGTTTGTAC AGGG	60.1	330	INTERGENIC	--	--	--
scaffold487_P3_3721	scaffold487	3721	T/TG	AAGTGCATAAGTCCCA ACGG	TGCCTAAGAACCAAAG TGGG	60.0	533	INTERGENIC	--	--	--
scaffold487_P3_61340	scaffold487	61340	ATTT/ATT	CCCCCTTTTGCATAAG TGA	GAGAAGACACCTGCTG AGGG	59.9	525	DRR	Ca_28215	--	--
scaffold487_P3_87751	scaffold487	87751	T/TC	ACATTGAGGTCATTTTC GCC	AGCCTAGGGAGGATG CAAAT	59.9	229	INTERGENIC	--	--	--
scaffold4872_P3_661	scaffold4872	661	G/GTCTATCA	TGGGCACATGCTTCTC AGTA	TACTGGAACGGACCAC ACAA	60.4	498	INTERGENIC	--	--	--
scaffold4874_P3_5731	scaffold4874	5731	TAAAAAAAAA/TAAAAAAAAA	TGAGGACTGGACGTAG CCTT	TGGAGTCTGTGCCAAG TACG	59.9	653	INTERGENIC	--	--	--
scaffold4902_P3_39096	scaffold4902	39096	TAAAAA/TAAAAA	AAGCCGCTGCTTACGA AATA	AGTTAGTGGCTGGGG GAGAT	60.0	494	DRR	Ca_26348	TU	--
scaffold4902_P3_8464	scaffold4902	8464	CG/C	CGTCTAGTCGAATGGA TCTGC	AAAAATGGGTTTAACG TTATGCTT	59.9	321	INTERGENIC	--	--	--
scaffold4902_P3_8477	scaffold4902	8477	TAAAAA/TAAAAA	CGTCTAGTCGAATGGA TCTGC	AAAAATGGGTTTAACG TTATGCTT	59.9	321	INTERGENIC	--	--	--
scaffold491_P3_20046	scaffold491	20046	CTTGAGTTT/CTTGAGTTTGTAGTTT	CCCGAAAAGTCCAGAT GAAA	TGACGTGGAACACGAA TCAT	60.0	411	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 (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
scaffold491_P3_20917	scaffold491	20917	TAAAAA/TAAAA	GATGAAATCGAGGACC AGGA	TTTCGGGTGAGTTTCG TACC	60.0	389	INTERGENIC	--	--	--
scaffold4920_P3_19062	scaffold4920	19062	CA/C	CAGAAAAATCGATTGCC CAGT	AGTCCAACTAGCAAAT GCCG	60.1	497	INTERGENIC	--	--	--
scaffold4923_P3_9445	scaffold4923	9445	AATATATATATATATATATATATAT/A ATATATATATATATATATATAT	TGAAAAACATGAAACCTG GCT	TCACACATATTGCAAC AACAAAA	58.2	677	INTERGENIC	--	--	--
scaffold493_P3_124059	scaffold493	124059	ACTCTC/ACTC	TCTTTGGTTTTACGGT GCT	TGAAATCGGGTCACTT GTCA	59.9	759	INTERGENIC	--	--	--
scaffold493_P3_127463	scaffold493	127463	GAAAAAAAA/GAAAAAAAAA	ATAGGTCTCATAGCCC CGGT	TCACTCTCTCCAAAGT GTGGTT	59.8	380	INTERGENIC	--	--	--
scaffold493_P3_297018	scaffold493	297018	AATATATATAT/AATATATATATAT	ATGTTTTGGATTTTGGC TCG	AAATTGGTCCACTAGC ACCG	59.9	643	INTERGENIC	--	--	--
scaffold493_P3_47949	scaffold493	47949	TGGG/TGG	TGACTGTAACCGGTG GTGA	GCCAGTCTCAGCTGA ACTT	60.0	246	INTERGENIC	--	--	--
scaffold4943_P3_1324	scaffold4943	1324	A/AC	GAAGTCGGGTGGTACG AAAA	CGCGGAACCAAAAACA TAGT	60.0	731	INTERGENIC	--	--	--
scaffold495_P3_111241	scaffold495	111241	TTTTGAAATAACCCCTT/TTT	GGTTTGCCCTTGGTGT CTGT	GTGCTTTCATGGAAC AAGA	60.0	534	INTERGENIC	--	--	--
scaffold495_P3_113091	scaffold495	113091	TACACA/TA	CAGATGCATGCTCCCC TAAT	ATTCCCCCTTCATCTT GGAC	60.1	336	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
scaffold495_P3_126369	scaffold495	126369	GAAAAAAAAA/GAAAAAAAAA	TACATTCGCGGTCCCT TAAC	AGCCAAATTTAGGGA GGCA	60.0	859	INTERGENIC	--	--	--
scaffold495_P3_140616	scaffold495	140616	TTATATATATATATATATATATATATATATATAT T/TTATATATATATATATATATATATATATATATATATATAT TATATAT	TTGAAACCTTTTCCCA GTG	AATCGACTTTAGCCGA GTGG	59.9	638	INTERGENIC	--	--	--
scaffold495_P3_21017	scaffold495	21017	ATTTTTTT/ATTTTTTT	TAGGCCCAACATCACA CAAA	GATGCTTCTCCATTGG CTTC	60.0	571	INTERGENIC	--	--	--
scaffold495_P3_9657	scaffold495	9657	TTAAAAATA/TTAAAAATAAAAAATA	ACACCGAGTTAACGGT GAGG	TGCTTCAAGTTTGATCT GCTTC	60.0	504	INTERGENIC	--	--	--
scaffold496_P3_121429	scaffold496	121429	CT/C	TCCTGGTCCTCGATTT ATC	AATCGCCTGAAAAGAC GAGA	60.0	379	INTERGENIC	--	--	--
scaffold496_P3_124471	scaffold496	124471	CC/CCTC	ATTTATCTGGTGCGAA ACC	GTTCCATTTATGTCGG GTGG	59.9	364	INTERGENIC	--	--	--
scaffold496_P3_129321	scaffold496	129321	AGGG/AGGGG	TCCGTGTCGGATTACA AACA	CTTTTCGGGCGATTT GATA	60.0	578	INTERGENIC	--	--	--
scaffold497_P3_69995	scaffold497	69995	GTTTTTTTTTTTT/GTTTTTTTTTT	TGGTGCTTTTGAAAAA GTG	ATTGGTTTGTTGCA TTCG	58.8	446	INTERGENIC	--	--	--
scaffold497_P3_84132	scaffold497	84132	TA/TAA	CACACATCACCATCATT CCA	CTGCCTCAGGCTTGAC TACC	58.7	783	INTERGENIC	--	--	--
scaffold497_P3_93843	scaffold497	93843	GTT/GTTTT	GGGTTGTGATGGCTCT TCAT	GCGTTTTATGTTGTC TGGT	59.9	502	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 (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
scaffold4978_P3_24879	scaffold4978	24879	ATTTTTTTTTT/ATTTTTTTTTT	CAATTGGGAGGGACAA GAGA	ATTCAAAGGCAGATCC GTCA	60.0	441	INTERGENIC	--	--	--
scaffold4978_P3_25616	scaffold4978	25616	C/CGTAATCG	GTCTTCCCTTGTCAAA CCA	AATGAGTCGCCACCAA TTTT	59.9	275	INTERGENIC	--	--	--
scaffold4978_P3_915	scaffold4978	915	AG/AGG	GTAGTGTGGTTTGTG GGGG	CTTTGGATTCCGATG CACT	60.1	775	INTERGENIC	--	--	--
scaffold498_P3_186506	scaffold498	186506	CATTATTATTATTATTATTATTATTA TTATTATTA/CATTATTATTATTATTATT ATTATTATTATTATTA	TTGTCTTAGGCTGCCA CAAA	AAACATAAGCGCCACA TTCC	59.5	659	INTERGENIC	--	--	--
scaffold498_P3_206145	scaffold498	206145	GTTTTTTTT/GTTTTTTTT	CACCGCCTCTGTGCCA TATT	GAGATTAGAACCATC AAATTGTCA	60.0	829	INTERGENIC	--	--	--
scaffold498_P3_206241	scaffold498	206241	GATTTATTAAATTTATTTAA/GATTAT TTAAATTTATTAAATTTATTAA	GCCAGCCTGGTATGGT GTAT	CAACTGTGTCTTAAC AACTCCAA	59.8	798	INTERGENIC	--	--	--
scaffold498_P3_214216	scaffold498	214216	AA/AAAAGTCA	TTTCATGGTCATGTTTT GGC	GAAAGGCCAATGTCCA GAAA	59.4	781	INTERGENIC	--	--	--
scaffold498_P3_214228	scaffold498	214228	CATAATAAACTAATAATAAACTAATA AT/CATAATAAACTAATAATAAACTAA TAATAAACTAATAAT	TTTCATGGTCATGTTTT GGC	GAAAGGCCAATGTCCA GAAA	59.4	781	INTERGENIC	--	--	--
scaffold498_P3_214273	scaffold498	214273	TACACACACACAC/TACACACACAC AC	TTTCATGGTCATGTTTT GGC	GAAAGGCCAATGTCCA GAAA	59.4	781	INTERGENIC	--	--	--
scaffold498_P3_214558	scaffold498	214558	CTTTTT/CTTTTTT	CACACACACGTAAGAA GGCTG	TTGGACAGAATCAAGG CTCC	59.4	544	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
scaffold498_P3_45313	scaffold498	45313	CTTTTTTTTT/CTTTTTTTTT	CAGGAAAAGCGTTGT GTTT	CCTCAATTTTATCCGA CCAA	60.1	348	INTERGENIC	--	--	--
scaffold4983_P3_27196	scaffold4983	27196	AAT/AATAT	AAGGTGGTACGAAAT CCCC	GCACGTGGGAAAATGA GATT	60.1	893	INTERGENIC	--	--	--
scaffold4983_P3_27256	scaffold4983	27256	C/CT	AAGGTGGTACGAAAT CCCC	GCACGTGGGAAAATGA GATT	60.1	893	INTERGENIC	--	--	--
scaffold4983_P3_27276	scaffold4983	27276	ATTT/ATT	AAGGTGGTACGAAAT CCCC	GCACGTGGGAAAATGA GATT	60.1	893	INTERGENIC	--	--	--
scaffold5_P3_1535	scaffold5	1535	CTT/CTTT	CGATTGTGTTGTCACA GGG	GAAGCAAATCGATTGG GAAA	60.0	316	INTERGENIC	--	--	--
scaffold50_P3_113243	scaffold50	113243	CATAATAATAATAATAATAATAATA A/CATAATAATAATAATAATAATAAT AATAATAA	TCTAGTAGGAGGTCGC TGCC	TTTTATTACTTATTTCA ATCACACGAA	59.6	548	INTERGENIC	--	--	--
scaffold50_P3_165794	scaffold50	165794	GATATATATATATATATATATAT/GAT ATATATATATATATATATAT	GCGACTTGGAACCTGG AGAG	GCACCGTGAGTAAATT CGGT	60.0	846	INTERGENIC	--	--	--
scaffold50_P3_192238	scaffold50	192238	A/AGTGATAGAAATT	CTGCCATTAGCCCTT CATA	CTGAATGCAAGAGAGA GGGG	60.1	291	INTERGENIC	--	--	--
scaffold50_P3_196038	scaffold50	196038	A/ACTG	CTGCCATTAGCCCTT CATA	AGGAAGGAGTGATGC GAAGA	60.1	477	INTERGENIC	--	--	--
scaffold50_P3_202472	scaffold50	202472	TAA/TAACTAACGGGAAGCAA	CCTTTCCTAGCTCTTGC CCT	AAGCCATGGTTTTTGG ACAG	60.0	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 (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
scaffold5005_P3_2097	scaffold5005	2097	CA/CAA	GCATCCAAATGGTGTG TTTG	AGGGAGGACGAAAATG ACCT	59.8	255	INTERGENIC	--	--	--
scaffold501_P3_101954	scaffold501	101954	A/AGGTG	TTTTGGACTCCCTTGG CTTA	AGGGAGGACGAAAATG ACCT	59.7	113	INTERGENIC	--	--	--
scaffold501_P3_33930	scaffold501	33930	CAAA/CAA	GGTGTGTTTATGGCAT TGGA	GCCTATGGAGGACGAA AGTG	59.3	950	INTERGENIC	--	--	--
scaffold501_P3_87430	scaffold501	87430	CATATATATATATATAT/CATATATATAT ATATATAT	TGGGTGTCCTATATA CACGTAA	TTCTTTGCCACACACC ATGT	59.3	519	INTERGENIC	--	--	--
scaffold5023_P3_8220	scaffold5023	8220	CAAAA/CAAAA	CTCCCCCTTTTGGCAT AAT	TCAGCCTCAACCTGTC ACTG	60.1	884	DRR	Ca_28136	--	--
scaffold5030_P3_11801	scaffold5030	11801	GCTT/GCTTGTA	AATGACATTTAACAGCG CCC	TGGCCGCACAGTATGT AGAG	60.0	459	INTERGENIC	--	--	--
scaffold5030_P3_906	scaffold5030	906	AAATAATAAT/AAATAAT	TGGGGATACGTAGGAG CAAG	TGTTGGTCCATTTTG ACGA	60.1	432	INTERGENIC	--	--	--
scaffold506_P3_18975	scaffold506	18975	TA/TAA	TCTCGATACCATCGTG GACA	TCCCATTTGATTGCTG AACA	60.1	489	INTERGENIC	--	--	--
scaffold506_P3_25300	scaffold506	25300	ACTC/ACTCTC	CCACTCTCAATATGGC GGTT	GTGGGTTTGCTTCCAT CACT	60.0	469	INTERGENIC	--	--	--
scaffold506_P3_33758	scaffold506	33758	TTCT/TT	TGACCAACTCTTTTGTG CCA	AGCCAACCTCTGTCTC ATGG	60.3	667	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	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
scaffold506_P3_39278	scaffold506	39278	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATATA TATATATATATATATATATATAT	TTTGAAAAGTTGGCATTCG	TTGC GACTT CACACTT GGTT	58.8	361	INTERGENIC	--	--	--
scaffold506_P3_39512	scaffold506	39512	GAA/GA	A AACCTTTGAGAAATGCCCA	AATGGAGTTCGGAGATTGGA	59.5	563	INTERGENIC	--	--	--
scaffold5083_P3_2034	scaffold5083	2034	AG/A	A ACCCAAACGCTAAAC CCT	TCCGTCCAATAAGAGCAAATG	59.9	559	INTERGENIC	--	--	--
scaffold5083_P3_5234	scaffold5083	5234	CCCTAA AACCT AAAACCT AA ACCTAA A/CCCTAA AACCT AAAACCT AAAA	CCCTAA ACCCGAAACC CTAA	TT CGGTTCT AGTCCAT TT TGG	60.2	552	INTERGENIC	--	--	--
scaffold5089_P3_3720	scaffold5089	3720	TAAAA/TAAAAA	AGCCTAGGGAGGACGAAAA	AAACAATCGTGTGCAT CCAA	60.2	541	INTERGENIC	--	--	--
scaffold509_P3_219222	scaffold509	219222	A/AT	AGGTCACGTTCTTCTCCCT	TTTGCTCCAATCAGAGGCT	60.1	383	INTERGENIC	--	--	--
scaffold509_P3_247650	scaffold509	247650	AAGAGAGAGAGAGAGAGAGAGAGA GAGA/AAGAGAGAGAGAGAGAGAGAGA	GGATGATGGGAAAGAGAGCA	ATTTCTCCTCGTTGGGCTTT	60.0	410	INTERGENIC	--	--	--
scaffold509_P3_46543	scaffold509	46543	T/TC	AACCAATCATGTGCATCAA	C AAAGCTTGCACTCAAGAA	59.8	749	INTERGENIC	--	--	--
scaffold5094_P3_2305	scaffold5094	2305	TAA/TA	TGGCACATGAATAGTTCACA	GCCACCTCATTCAAATTGTC	60.0	669	INTERGENIC	--	--	--
scaffold510_P3_13129	scaffold510	13129	CATATATATATATATATATATATA/CATATATATATATATATATATATATA	TGGGTGCTATTTGCAATCAA	CCTTCATGAACCGCAATACA	60.1	406	DRR	Ca_26546	--	--

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 (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
scaffold510_P3_85609	scaffold510	85609	TAACA/TA	TTGTCAAATAAGTAAC AACAAAACG	TTGCAACAATTGTACC CGAA	58.7	995	INTERGENIC	--	--	--
scaffold511_P3_147574	scaffold511	147574	TG/T	AATTGCGCGAGTGCT ATTG	CGATTGAATTAAGCCC AGGA	60.1	804	INTERGENIC	--	--	--
scaffold511_P3_193038	scaffold511	193038	AATATATATATATATATATATA/AATATA TATATATATATATATATATA	TTTCAGGTTATCGACTG GGG	AACAAGAAAGCGCAAG CAAT	59.9	729	INTERGENIC	--	--	--
scaffold511_P3_194526	scaffold511	194526	TAAAAAAAA/TAAAAAAAAAAAAA	AATCTGCTCCGTTAGC TGC	TGCACAATAAACCTGC TTGC	59.6	667	INTERGENIC	--	--	--
scaffold511_P3_194615	scaffold511	194615	AT/ATATT	AGGCCTGGGAAGTAGG AACA	TGCACAATAAACCTGC TTGC	61.0	557	INTERGENIC	--	--	--
scaffold511_P3_2112	scaffold511	2112	GTCT/GT	ATCGATTGAATTGAGCC CAG	TCCGACCACGTTAACA CGTA	60.0	929	INTERGENIC	--	--	--
scaffold511_P3_49933	scaffold511	49933	TGGGGG/TGGGGGG	GAGTGTGTGGAGGTCA CCCT	GGATCAGCAGACACTT GCAC	60.0	241	DRR	Ca_26653	--	--
scaffold5115_P3_16853	scaffold5115	16853	GAA/GAAA	AATGGCCACGAATCTG AAAG	GAAGTACGCCTAAGAG GGGG	60.1	538	INTERGENIC	--	--	--
scaffold5120_P3_13346	scaffold5120	13346	TTAATAATAATAATAATAATAA/TTA ATAATAATAATAATAATAATAA	TTTGAAGCAAATTGCGA GTG	GGTGTGTGTGGTGC AAGTA	60.0	382	INTERGENIC	--	--	--
scaffold5120_P3_14840	scaffold5120	14840	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATATA T	TATCGTGCCGTGTTGAG AACG	CTAATTAGCGTCGGAG TCGG	59.9	527	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 (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
scaffold5120_P3_15547	scaffold5120	15547	TAGAGTACGAGA/TAGA	CCGAAGTAATAGTGGG GCAA	GGACCAGGTTCTGCAT CAAT	60.0	214	INTERGENIC	--	--	--
scaffold515_P3_12197	scaffold515	12197	TC/T	CGCCTTAAAAGTCCCA ATGA	CCCATTGACGATAATG GACC	60.1	314	INTERGENIC	--	--	--
scaffold515_P3_152331	scaffold515	152331	CAA/CAAA	ATTTGGCCACAAGCTG AAAG	AAATCGATTGGGCAAG TCAC	60.2	341	INTERGENIC	--	--	--
scaffold515_P3_216518	scaffold515	216518	ATTTTTTTTTT/ATTTTTTTTTT	TAATAAAATGAGGCGG TGCC	TTAGCATCGTCATTTTC TTCAA	59.9	902	INTERGENIC	--	--	--
scaffold515_P3_28282	scaffold515	28282	TA/T	CGCACGAAAAGTCTTG ATGA	CGGTCGATTTTCGTAC CACT	60.0	169	INTERGENIC	--	--	--
scaffold515_P3_42183	scaffold515	42183	CG/C	CATCTGGAATTTTCGG GAGA	TCCAGATGAAATCGAG GACC	60.0	334	INTERGENIC	--	--	--
scaffold515_P3_42759	scaffold515	42759	C/CT	GGTCCTCGATTCATCT GGA	TTTCATCTGGACTTTTC GGG	60.0	652	INTERGENIC	--	--	--
scaffold515_P3_43016	scaffold515	43016	GAAAAA/GAAAA	CAAGAGTCTCCTGGTC CTCG	CTCCCGAAAAGTCCAA ATGA	60.0	912	INTERGENIC	--	--	--
scaffold515_P3_43464	scaffold515	43464	GTA/GTATA	CCCCAAAAGTCCAGAT GAAA	TTTGTGAGGGGTACG AAAC	60.0	615	INTERGENIC	--	--	--
scaffold515_P3_61810	scaffold515	61810	TCTC/T	CTCGAAACCCGAAACA CAAT	GCGTCGTTTGAAACAA AAAT	60.0	560	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
scaffold5155_P3_1850	scaffold5155	1850	GCCCC/GCCCC	TCACTCAAAGGGCTAC TGCC	CTCCTTCACCGTAAGT CCGA	60.4	384	INTERGENIC	--	--	--
scaffold5158_P3_17065	scaffold5158	17065	TAAAAAAAA/TAAAAAAAAA	GGCCATCACGTTTCATC TTCT	GATACTATGTCACCGC GCAA	60.1	832	INTERGENIC	--	--	--
scaffold5158_P3_19116	scaffold5158	19116	ATTTTTTTTT/ATTTTTTTTTT	AGAAATTCTGCGTCCG AAAA	TCCAACATGTCAGGG ACAA	59.8	333	INTERGENIC	--	--	--
scaffold5158_P3_6559	scaffold5158	6559	TAT/TATCATTATCAT	CCAACAAATCTATTCC CCATC	CGGCTTATGTTGTTTG ACCA	59.6	618	INTERGENIC	--	--	--
scaffold5158_P3_6576	scaffold5158	6576	TT/TTAT	CCAACAAATCTATTCC CCATC	CGGCTTATGTTGTTTG ACCA	59.6	618	INTERGENIC	--	--	--
scaffold5186_P3_8653	scaffold5186	8653	GA/G	GAGTGTGGGGTCGTT GAAT	CCTAGGGAGGCTAAAA TGGC	59.8	270	INTERGENIC	--	--	--
scaffold5195_P3_4588	scaffold5195	4588	TA/TCGCTATGTGCA	AATAACATGTGCAGGG AGCC	GGTTTGGAAACGGAACC CTAT	60.0	766	INTERGENIC	--	--	--
scaffold520_P3_154978	scaffold520	154978	CAAAAA/CAAAA	TTCATTTTGTAGTTGTA GTCAATAACG	AACATATAACAAAATTG AGTTGTCAAA	58.0	361	INTERGENIC	--	--	--
scaffold520_P3_93053	scaffold520	93053	AT/ATTT	CCAATGGCTTCGACATT TCT	GGTCTGTCCAATCAGA CCGT	60.1	274	INTERGENIC	--	--	--
scaffold5211_P3_3755	scaffold5211	3755	TAAAAAAAA/TAAAAAAAAA	GTTCTCGAAGCAGAAA ACGG	CTTTGGTCAAGTCTGG CACA	60.0	702	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
scaffold5234_P3_584	scaffold5234	584	ATTTTTTTTT/ATTTTTT	ATGACGAAGCTGCTGG AGTT	AATCTCCCTGAGTT TTGG	60.0	664	INTERGENIC	--	--	--
scaffold5234_P3_996	scaffold5234	996	G/GTT	ATTCCAAACTCAGGG GGAG	TTGGTTGATTCCTTGA GTTGC	60.3	246	INTERGENIC	--	--	--
scaffold5235_P3_1115	scaffold5235	1115	CTAT/CTATTATTAGTTATAT	CGGAAATTTACACGC AGGT	AGCCTTTTGTGTTCCA TGTG	60.0	640	INTERGENIC	--	--	--
scaffold5251_P3_1190	scaffold5251	1190	CTCTTCTT/CTCTT	TGGCCACCATTAGCATT ACA	AGCGCAGTGGTGAAAA GAAT	60.0	383	INTERGENIC	--	--	--
scaffold526_P3_51766	scaffold526	51766	GTTTTT/GTTTT	TTCTTGCCAATTGGG GTTT	TTTGGGAGGACGAAGA TGAC	59.3	594	INTERGENIC	--	--	--
scaffold526_P3_70260	scaffold526	70260	AT/ATT	CATTTTCGTCTTCGCTA GGC	TTCGTCGAATGGAACA AACA	60.0	461	INTERGENIC	--	--	--
scaffold526_P3_72192	scaffold526	72192	GTCTTCC/G	ACCATCCTTGTCATCC AAT	AGGGAGGACGAAAATG ACCT	60.2	170	INTERGENIC	--	--	--
scaffold527_P3_108544	scaffold527	108544	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTAT/AT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTAT	GGTGGAGTATTCTGCC GAGA	ATGGGTGTTTGTGGTG GATT	60.2	578	INTERGENIC	--	--	--
scaffold527_P3_2067	scaffold527	2067	CG/C	CCAGTCCATGTTTGTG CAAG	TTTGGCTCATTGTGCT TCAG	60.2	677	INTERGENIC	--	--	--
scaffold527_P3_3195	scaffold527	3195	ATTTTTTTTT/ATTTTTTTTT	AAATGGCCAAACCTCT GATG	AAGGGGCTGAGGATTC TGAT	59.9	703	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 (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
scaffold527_P3_4805	scaffold527	4805	AT/ATTACTT	TCGTTGGTGCATTATT CCA	TTGCAAGAAGGGGTTT TGAC	59.9	437	INTERGENIC	--	--	--
scaffold527_P3_52781	scaffold527	52781	TTATATATATATATAT/TTATATATATAT ATATAT	CTTAATGCCCTCCTTG GACA	AGGAAGAGTGGAGTTG CGAA	60.1	605	INTERGENIC	--	--	--
scaffold527_P3_807	scaffold527	807	CAA/CAAA	TGCAGCCACATATTCA GCTT	GCGTTGAGTTTGAAAC CAGG	59.4	507	INTERGENIC	--	--	--
scaffold527_P3_81215	scaffold527	81215	AC/ACACC	CAATGGGAGAGGAGTT CCAA	TGGTGCATAGAAGAAA TTGGG	60.0	687	INTERGENIC	--	--	--
scaffold5279_P3_2704	scaffold5279	2704	AAATATAAT/AAAT	CCTGGTGATACACCA ATGGA	AGCATCTCAACCACT CGCT	60.6	942	INTERGENIC	--	--	--
scaffold5279_P3_516	scaffold5279	516	TA/T	TAGATTCGTGGAGGTG GAGG	CATAAGCCAGATCACC CCAT	60.1	791	INTERGENIC	--	--	--
scaffold528_P3_17354	scaffold528	17354	CTTTTTTTTT/CTTTTTTTTTT	TGGTGTAATGTTTGA GGCA	AGGACATGCGCACAAG TAGA	60.0	532	INTERGENIC	--	--	--
scaffold528_P3_183983	scaffold528	183983	CAAAAA/CAAAA	TGAACTCAAAATTCGAT TTGTCT	TGAAAAACATTTGCCT GAACA	57.9	651	INTERGENIC	--	--	--
scaffold528_P3_238823	scaffold528	238823	AATATATATATATATATATATATATAT ATATATATATATATATATATATA/AATAT ATATATATATATATATATATATATATA TATATATATATATATATA	TGAAATGAGATGGATG GAAGG	TATTGTCCCCCAGTTT TGG	59.9	746	INTERGENIC	--	--	--
scaffold528_P3_285024	scaffold528	285024	GTTTTTTTTT/GTTTTTTTTTTT	CTCCTTGAGTTTGGAG CACGA	TCGAATTTAATGGAGT CGCC	59.5	559	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_P3_286008	scaffold528	286008	TAA/TA	TCAGGATTTTGGGGA ATCA	CCCATTCACTGCCAAG AGAT	60.2	208	INTERGENIC	--	--	--
scaffold528_P3_311198	scaffold528	311198	TTATATATATAT/TTATATATATATAT ATATAT	GTCCTGCAATGTGCA GCTA	TGTGTTATCACCGCTC AGAGA	60.0	251	INTERGENIC	--	--	--
scaffold528_P3_53140	scaffold528	53140	GATATATATATATATATATATA/GATA TATATATATATATATATATATATA	TCTCCTTTGGCATGGT TTC	GAATGCGTGTAGGGCT TAGAG	60.1	666	INTERGENIC	--	--	--
scaffold528_P3_69096	scaffold528	69096	AG/A	TGGATGCTTTCTATGAT GTGC	TATCGATCACTGGTGC CAAA	58.7	868	INTERGENIC	--	--	--
scaffold5291_P3_5244	scaffold5291	5244	TAA/TAAA	CATGTGCGTCCATTAA GTGC	CCAAGGAGAACGAAA ATGA	60.1	165	INTERGENIC	--	--	--
scaffold53_P3_110806	scaffold53	110806	GTATATATATATATATATATATATAT ATATAT/GTATATATATATATATATAT ATATATAT	GCACCGTGAGTAAATT CGGT	TATTTTGGATTTTGGCT CGG	60.0	727	INTERGENIC	--	--	--
scaffold53_P3_125242	scaffold53	125242	GTTTTTTTTTTT/GTTTTTTTTT	GCCCTCAGATGAGAGT CAGG	TTCAAGCAGCGGAAA AAGT	59.9	283	INTERGENIC	--	--	--
scaffold53_P3_137170	scaffold53	137170	CTT/CTTTT	GGA CTGGTGGCTCAAA GGTA	TCGACCGGAGTTTTG ATTA	60.1	671	INTERGENIC	--	--	--
scaffold53_P3_2123	scaffold53	2123	ACCC/ACC	TCCTGGGCTTAATTCAA TCG	CGTGGTAATCGCGTAG GAAT	60.0	464	INTERGENIC	--	--	--
scaffold53_P3_86530	scaffold53	86530	TTTATTATTATTATTATTATTATTAT TATTATTATTATT/TTTATTATTATTATTA TTATTATTATTATTATTATTATTATT	CCCTTTTGTCTTTTGT GGC	CGAAGCCGAGAAAATG ACTC	59.6	812	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_P3_10667	scaffold530	10667	CG/C	ACCAAATTTGTCGAACC AGC	TTGAGTGTGAGTGTC AGGG	60.0	342	INTRON	Ca_27188	J	--
scaffold5307_P3_5156	scaffold5307	5156	TA/TAA	TCCTGGTCCTCGATTTC ATC	AATTGTGTTTCGGGTT CTGC	60.0	271	INTERGENIC	--	--	--
scaffold531_P3_11911	scaffold531	11911	A/AT	ATTCCATTTGGCATGCT TTC	TTTGGGTACAAAATCA GAAAATTG	59.9	892	INTRON	Ca_22388	--	--
scaffold531_P3_12542	scaffold531	12542	CAAAAAAAAA/CAAAAAA	AAACAATTTTCTGATT TGTAACCA	GTTATGTCAACGAGGC CCAT	60.0	344	INTRON	Ca_22388	--	--
scaffold531_P3_13635	scaffold531	13635	GTTTTT/GTTTTTTT	TGGTGCCTTAGATTG GTCC	TTTCATCTTCCCTGTA CCCA	59.9	234	CDS (FRAME SHIFT)	Ca_22388	--	--
scaffold531_P3_198423	scaffold531	198423	TAAAAAA/TAAAAA	TTTCCCGACTTGGTCCT TTA	TCGCGGTGTGTGTAGA ACAT	59.5	607	DRR	Ca_22406	--	NAC
scaffold531_P3_83930	scaffold531	83930	TCCGG/TCCGGCCGG	GAGAACGCAAGCTAAC GGAC	ACCTTGTGGATGGCAG TTTC	60.0	180	DRR	Ca_22395	--	--
scaffold5312_P3_781	scaffold5312	781	A/AC	CAAACACACCTGTTGG ATGC	CATTTTCGTATCCCTA GGCT	60.0	210	INTERGENIC	--	--	--
scaffold535_P3_94648	scaffold535	94648	GATATATATAT/GATATATATAT	AATGGAGGAGAAGGGA GGAA	TGAAAAGGGGTAGGCA ACAC	60.0	563	INTERGENIC	--	--	--
scaffold537_P3_178610	scaffold537	178610	ATTTTTTTTT/ATTTTTTTTT	GCCCAGAATGACTCCA TGAT	CGTCTCAGGGGATTTC AAGA	59.9	923	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 (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
scaffold544_P3_131065	scaffold544	131065	TAAAAAA/TAAAAA	AAACCCGAATTGGAC AAGA	AGGTCATTTTCGTCCT CCCT	59.4	419	INTERGENIC	--	--	--
scaffold544_P3_143082	scaffold544	143082	G/GA	TTGGATGCCAAGATT GGTT	AGGTCATTTTCGTCCT CCCT	60.3	488	INTERGENIC	--	--	--
scaffold544_P3_146396	scaffold544	146396	CTTTTT/CTTT	TTCCTATTGCTCACCC TTG	GAAAAACAAGACCCG GATA	60.1	520	DRR	Ca_26540	--	--
scaffold544_P3_147706	scaffold544	147706	CAAAA/CAAAA	CCCCCTTTTGCATAAG TGA	GAGGAGACATCTGCTG AGGG	59.9	582	DRR	Ca_26540	--	--
scaffold544_P3_192787	scaffold544	192787	AG/A	TGGTTCAAAGCCCTTAT TGG	AGGTCATTTTCGTCCT CCCT	59.9	554	INTERGENIC	--	--	--
scaffold544_P3_221561	scaffold544	221561	GA/G	ACACACCTATGGGATG CACA	AGGTCATTTTCGTCCT CCCT	59.8	478	INTERGENIC	--	--	--
scaffold544_P3_239543	scaffold544	239543	TG/T	TTCGATGCACGAGATT GTT	AGGTCATTTTCGTCCT CCCT	59.3	469	INTERGENIC	--	--	--
scaffold544_P3_259242	scaffold544	259242	TAAAAAAAA/TAAAAAAAA	TTTTTGTTGTCATTGA CTGA	CGGCTGCTACAACTCC TTTC	57.8	611	INTERGENIC	--	--	--
scaffold544_P3_265737	scaffold544	265737	CAAAAA/CAAAAA	TTGGTTGAAGAGTGCT TGACA	AGAACGGTTTTCTGAC CGTG	59.5	555	INTERGENIC	--	--	--
scaffold544_P3_267766	scaffold544	267766	ATTTTTTTT/ATTTTTTTTT	GGAAGCATGTTTGGGC TAGA	GGAGTTTCAAAGATG GCAA	60.2	860	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 (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
scaffold544_P3_269437	scaffold544	269437	CTTTTTTTTT/CTTTTTTTTT	ACGAGCGAGGACGAAG TAA	GCTACGTGGGAAGACT CTGG	60.0	916	INTERGENIC	--	--	--
scaffold544_P3_296448	scaffold544	296448	ATTTT/ATTT	ACGATTGTTGTGAATG GGGT	ATTCCAAACCAAAACC CTCC	60.1	417	INTERGENIC	--	--	--
scaffold544_P3_343923	scaffold544	343923	CAAAAAAAAA/CAAAAAAAAA	GTGAAAATAAGGGGA AGGG	TTTTCTTCCTTTCTC GCG	59.6	323	INTERGENIC	--	--	--
scaffold544_P3_35611	scaffold544	35611	GAAAAAAAAA/GAAAAAAAAA	TCGCGGCCTAAACTA AGAA	CGTAAATCGACTCTC GGAA	60.0	154	INTERGENIC	--	--	--
scaffold544_P3_85733	scaffold544	85733	GAAAAAAAAA/GAAAAAAAAA	TTTATCTGGCTCTTC CCA	TTTAAGTTGGAACATG GTGGA	59.6	520	INTERGENIC	--	--	--
scaffold545_P3_116816	scaffold545	116816	ATATTATTATTATTATTATTATT ATTATTATTATT/ATATTATTATTATT TATTATTATTATTATTATTATTAT TT	TTGCGGCCTACATTCT AGG	TCACATTCATTTCCAA GCG	60.2	775	INTERGENIC	--	--	--
scaffold545_P3_12890	scaffold545	12890	TCAATCGATT/TCAATCGATTGCCAAT CGATT	GTTTCAAGCTGGCTTTC TCG	GGGCAATCGACTGACA AAAT	60.1	885	INTERGENIC	--	--	--
scaffold545_P3_174447	scaffold545	174447	ATTTTTT/ATTTTTT	ATTGAAACGACTTATCT CAAATCA	AAAAGCGCTGTAAAT GCGT	57.1	514	DRR	Ca_23925	--	--
scaffold545_P3_193109	scaffold545	193109	CAAAA/CAAAA	AATCTCCCCCTGAGTT TGG	ATCTTTGGACACCGTC GTTC	60.3	643	INTERGENIC	--	--	--
scaffold545_P3_34032	scaffold545	34032	ATTTTTT/ATTTTTT	TTGTTCCACTCCGAGT TCC	ATCCAATACTGCAAT CGCC	60.1	509	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 (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
scaffold546_P3_67935	scaffold546	67935	AG/A	TTTGACCAATTTTGTG GCT	TGCAAAAACCACTTTC AAGG	60.3	652	INTERGENIC	--	--	--
scaffold546_P3_8601	scaffold546	8601	ATTT/ATT	GAGCAATCTTGTGCAT CCAA	AGGCCTAGGGAGGAC AAAAA	59.8	778	INTERGENIC	--	--	--
scaffold546_P3_86146	scaffold546	86146	GTTTTTTT/GTTTTTTT	TTTCTTGATGTTTGAT TAAAGTGTGC	TCTCCAAGTACGGCTG CTCT	59.9	552	INTERGENIC	--	--	--
scaffold547_P3_155914	scaffold547	155914	ATCAAA/ATCAAAGTTCAAA	TCGATCTGTACGAACAT TGACC	CGGAACCCGAAACACT TTTA	60.0	295	INTERGENIC	--	--	--
scaffold547_P3_156143	scaffold547	156143	CAAA/CAAAA	TTCGGTCTATTTTGTG GGG	CGGAACCCGAAACACT TTTA	59.9	219	INTERGENIC	--	--	--
scaffold547_P3_96713	scaffold547	96713	TT/TTGAT	CGGAACCCGAAACACT TTTA	TTCAAGCACTAGCCAT CGTG	60.0	152	INTERGENIC	--	--	--
scaffold547_P3_96984	scaffold547	96984	CAAAA/CAAAA	CACGATGGCTAGTGCT TGAA	CGATCGGTATGAACAT TGACC	60.0	276	INTERGENIC	--	--	--
scaffold548_P3_114800	scaffold548	114800	ACCCC/ACCCCC	AATCGACATTCGACCC ACTC	CCCCGCTCTGATAGGT GATA	59.9	384	INTERGENIC	--	--	--
scaffold548_P3_17521	scaffold548	17521	GCTGCTCCT/GCTGCTCCTGCTCCT	AAGGCAGCAGACCTCA AAAA	GCACACGACCTTCTCG TACA	60.0	452	CDS (large-effect mutations)	Ca_21478	--	NAC
scaffold548_P3_212010	scaffold548	212010	G/GA	GGAACACTTCGGTGTG GACT	CATGTCCCGAAAAGAG CAAT	60.0	563	DRR	Ca_21489	--	--

[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 (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
scaffold553_P3_2745	scaffold553	2745	TAAAAAA/TAAAAAA	TTGGTTCACTCCCTGG ATTC	AACATCAGTCAAGCGC ACAA	59.9	484	INTERGENIC	--	--	--
scaffold553_P3_320114	scaffold553	320114	TTATATATATATATATATATAT/TTAT ATATATATATATATATAT	CCTCTCCCAACCAATAA CCA	GATCCGTGTTACGATC CCAC	59.8	581	INTRON	Ca_19934	L	--
scaffold553_P3_325514	scaffold553	325514	CT/CTAT	ATCGGAAGTTGGACAG GTTG	TGGCAATCAGCAGAG ACAC	60.0	317	INTRON	Ca_19934	L	--
scaffold553_P3_386721	scaffold553	386721	TTTATTATTATTATTATTATTATTAT TATTATTATTATT/TTTATTATTATTATTA TTATTATTATTATTATTATTATTATT	AGAGGCAACAAGAAC CGAA	TGTTGACACCTAATTTT GTACGATT	59.9	176	INTERGENIC	--	--	--
scaffold553_P3_432191	scaffold553	432191	AATATATATATATATATATATAT/AA TATATATATATATATATAT	GCAATTATGTGCGTCAA GGA	GTCCCTTTCAACACTG CCTC	59.7	596	INTRON	Ca_19938	--	S1Fa-like
scaffold553_P3_527326	scaffold553	527326	AGG/AG	CATTTCAGTTGGGGC AGTT	TCGTCTTCGGGTTGGT TATC	60.0	837	INTERGENIC	--	--	--
scaffold553_P3_611921	scaffold553	611921	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATAT	TCTCTTCAACAACCTGG TCAACA	AGAAGAGAAGAACAC GCCA	59.8	669	INTERGENIC	--	--	--
scaffold553_P3_779169	scaffold553	779169	GA/GAA	CATCCTCAATATAACGC ATTTCA	TTTTCCGAGGAGAGTG TGCT	59.0	536	INTRON	Ca_19954	K	MIKC
scaffold553_P3_800299	scaffold553	800299	ATTTTTTT/ATTTTTTTT	CAAATCGGGGATAGG GTTT	CGGGGTCAATTCTCTTC ACAT	60.0	570	INTERGENIC	--	--	--
scaffold553_P3_835242	scaffold553	835242	CATATATATATATATATATATATAT ATATATA/CATATATATATATATATAT ATA	GCACCTTTAGAGATGA GCCG	TGGCTTTGAAGAACCA GAGG	60.0	584	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 (°C)	Expected 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_P3_13569	scaffold5598	13569	ATTTTTTTTTTTT/ATTTTTTTTTTT	CGGCATTGGATCATGG TTAG	TTTCGACTGCCTAGCG ATT	61.2	549	INTERGENIC	--	--	--
scaffold5598_P3_9627	scaffold5598	9627	TAAAAAAAAAAAAA/TAAAAAAAAAAAA AAAA	TTTCCAACAAGTGAGG GGTC	AAAAACCCCATCCAAC AACA	59.9	472	INTERGENIC	--	--	--
scaffold560_P3_134002	scaffold560	134002	TTAAAGAAT/TT	TGGCACGATATCATCAT CATT	ATGAAGTTGACGTATG GGGG	58.8	918	INTERGENIC	--	--	--
scaffold560_P3_160364	scaffold560	160364	TTATATATATATATATA/TTATATATATA TATATATA	TCACCATGCACAATCA GTTTC	TCATGAAACGCACAAC AACTT	59.6	744	INTERGENIC	--	--	--
scaffold560_P3_160741	scaffold560	160741	ATT/AT	TGTTTCATCATGAGGAG AGGG	TGGTCCAAATGAATGA GTCTTG	58.6	360	INTERGENIC	--	--	--
scaffold560_P3_17057	scaffold560	17057	GATATATATATATATATAT/GATATAT ATATATATATATAT	TTTTTAGCAATGGCACA ACATT	CGGCAATAACGAATCC AAAT	59.5	479	INTERGENIC	--	--	--
scaffold560_P3_73611	scaffold560	73611	GATATATATATATATATATA/GATATA TATATATATATATA	TTTTTAGCAATGGCACA ACATT	AAGGCTCAACCTTACG TGCT	59.5	556	INTERGENIC	--	--	--
scaffold5600_P3_533	scaffold5600	533	TAAAAAAAAAAAAA/TAAAAAAAAAAAA	TATAGGCCGGTCTGTG AAGC	TAACCTTCCGAGGATA TGCG	60.2	470	INTERGENIC	--	--	--
scaffold5602_P3_4886	scaffold5602	4886	TG/TGG	ACAAAGGAATGAGTGG CACC	TCAAGTCTGCACAAC AACC	60.0	347	INTERGENIC	--	--	--
scaffold561_P3_25431	scaffold561	25431	CTCTTCT/CTCT	TTGATTCATCAAAACACC GGA	AAATTGGGTTCTGCCA ATCA	59.9	399	DRR	Ca_26215	--	MYB_related

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 (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
scaffold561_P3_66066	scaffold561	66066	TTATATATATATATAT/TTATATATAT ATATATATAT	TGGCAACACCCCTAA AATA	TTGACATCCCAAGTCA AACATC	60.2	713	INTERGENIC	--	--	--
scaffold561_P3_84146	scaffold561	84146	AT/ATT	ATTGCACTAGTGGTGG TGCC	AGGCCGCCACAAAATA TTAC	60.0	669	INTERGENIC	--	--	--
scaffold561_P3_90737	scaffold561	90737	ATT/ATTTATTGTT	TTTGCCACATTACCAAT CACAT	CCTCGCACTAAGGTTT TGATTT	60.1	991	INTERGENIC	--	--	--
scaffold562_P3_223200	scaffold562	223200	GATTTTGGAT/GATTTTGGATCAAAATA ATTTTGGAT	ATGGGAAATAGCTTGC TGCT	TGGATCTGCATTTTAC AGCG	59.0	497	INTRON	Ca_23135	A	--
scaffold562_P3_257063	scaffold562	257063	C/CTCTCCAGTT	ATCTTTGGCATCCTTCA ACG	GCATGATGCATGTTGA GCTT	60.1	289	CDS (large-effect mutations)	Ca_23136	--	Trihelix
scaffold562_P3_299510	scaffold562	299510	CTTTT/CTTT	GGCAACCTGTTTTTCAG GCTA	TGTTAATGGTGTGCCA ATCG	60.2	312	INTERGENIC	--	--	--
scaffold562_P3_334801	scaffold562	334801	ATTT/ATT	CCGTCAAACACAAACCT CCT	CACGATCCACACCAAA ACAC	60.0	500	INTERGENIC	--	--	--
scaffold564_P3_12224	scaffold564	12224	A/AC	GGTATTGGGCTCCCTT CCTA	CTCGTGAGGAGCAACA ACAA	60.3	552	INTERGENIC	--	--	--
scaffold564_P3_13897	scaffold564	13897	T/TG	GAGCACATTGGAGGAC ACTG	CGGAGATAAAAAACAAT TGCA	59.3	659	INTERGENIC	--	--	--
scaffold564_P3_14245	scaffold564	14245	T/TTTAA	TGCCAATTGTTTTATC TCCG	CCACCAAATTACCATTT AAGACA	60.0	403	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold564_P3_15227	scaffold564	15227	ATATCTATTATCTATTAT/ATATCTATTAT	TGGAGAAATGCTAAATCCG	AGATGGCAGGTAAAAGCGAA	60.0	600	INTERGENIC	--	--	--
scaffold564_P3_26112	scaffold564	26112	A/AG	GTAATCTGAGCCTCTGC CAGC	AATTGGTGTGTCTGCG TCAA	60.1	555	INTERGENIC	--	--	--
scaffold564_P3_5212	scaffold564	5212	G/GAAC	TGGGATGCAACAATTCTCA	TTGTCAATTGGGAGTGCAA	60.0	560	INTERGENIC	--	--	--
scaffold564_P3_8317	scaffold564	8317	TAAAAA/TAAAAAA	CAACATCCAATTTTGT TATAGAGC	CGACATGCATGCCTTA TTTG	58.3	143	INTERGENIC	--	--	--
scaffold5653_P3_3159	scaffold5653	3159	TTATATATATATATATATATATATATA T/TTATATATATATATATATATATATA TATATATATATATATAT	GGGTGAAGCCACAAG ACAT	TTTTGGGCCTAATAAT CCGA	60.0	374	INTERGENIC	--	--	--
scaffold571_P3_11860	scaffold571	11860	A/AACTGGACGC	CCAATTTGTTGTGTGCC AAG	TTTGCCGAGTTTGTGT GAAG	60.0	383	INTERGENIC	--	--	--
scaffold571_P3_12281	scaffold571	12281	ATGACATTGACA/ATGACA	CTTCACACAACTCGC CAAA	TTCAATTTGCCAATCCT TCC	59.9	524	INTERGENIC	--	--	--
scaffold571_P3_18167	scaffold571	18167	TTACATCTCAT/TTA	CCTCACGGTTTCAATTG CTT	CTTAATGCACAGCCTA CCCC	60.1	670	INTRON	Ca_27520	T	NAC
scaffold571_P3_31115	scaffold571	31115	GAA/GA	TTTTCTATCTGGCCAC AGG	TTCTTTGGATGCAGCA ACAC	60.1	350	URR	Ca_27521	--	--
scaffold571_P3_79289	scaffold571	79289	GTT/GT	AATAAGCCTAGGGAAG CCGA	CCTAGGAATATTCGCG TCCA	60.2	312	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 (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
scaffold571_P3_95651	scaffold571	95651	TG/TGCAATCGATTAG	TCCCTGTGACTTTCCCA ATC	ATTAGGCAATCGACTG GCAC	59.9	134	INTERGENIC	--	--	--
scaffold5730_P3_653	scaffold5730	653	ATTT/ATTTT	ACAAAGGCAACCTTTTG TGG	CTGCCACCGTTGTTA TTCT	60.0	866	INTERGENIC	--	--	--
scaffold575_P3_103253	scaffold575	103253	AGGGG/AGGGGG	AAACAACGAGTATGGG CGAC	AGCTTGCTTTGAAAGG GACA	60.0	113	INTERGENIC	--	--	--
scaffold575_P3_103640	scaffold575	103640	ACCCCC/ACCCC	AAACAACGAGTATGGG CGAC	CGCAATTAGCCTCTTT CGTC	60.0	707	INTERGENIC	--	--	--
scaffold575_P3_103819	scaffold575	103819	AT/ATGCCTTATT	TCTTCTCGCTGACTTG GGAT	CGCAATTAGCCTCTTT CGTC	60.0	205	INTERGENIC	--	--	--
scaffold575_P3_110510	scaffold575	110510	GT/GGTACACT	CTTTCTGGTCAAGGCC TCAG	CTAGACCTGCGGAAGA CAGG	60.0	446	INTERGENIC	--	--	--
scaffold575_P3_112281	scaffold575	112281	GAAAAAAAAA/GAAAAAAAAA	TCCGATCATCACCAGAT TGA	GCGAGGAGCAAAGTGT AAGG	60.0	479	INTERGENIC	--	--	--
scaffold575_P3_112885	scaffold575	112885	GCCTGACCT/GCCT	CCTTACACTTTGCTCCT CGC	GGCTTGAGCCTAGCCT TTTT	60.0	419	INTERGENIC	--	--	--
scaffold575_P3_113273	scaffold575	113273	ATT/AT	TTTCGGCAACATTCCGTA TTT	GCCTGACCTATGGCCT ATCA	60.3	283	INTERGENIC	--	--	--
scaffold575_P3_113322	scaffold575	113322	ATTTTAAATAGGCTT/ATTTTAAATAGG CTTTTAAATAGGCTT	TTTCGGCAACATTCCGTA TTT	TCCAGTCTCTGGTCA ATCC	60.3	652	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
scaffold575_P3_113457	scaffold575	113457	CTGGC/CTGGCATGGC	TGATAGGCCATAGGTC AGGC	GCTAAGTGGTCTTTCC GCTG	60.1	440	INTERGENIC	--	--	--
scaffold575_P3_113710	scaffold575	113710	GAAAAAA/GAAAAAAA	TGATAGGCCATAGGTC AGGC	GCTAAGTGGTCTTTCC GCTG	60.1	440	INTERGENIC	--	--	--
scaffold575_P3_114035	scaffold575	114035	TA/TACCA	AAAGACCACTTAGCGC AGGA	TCAACTTGCTTGCTTTC CCT	60.0	591	INTERGENIC	--	--	--
scaffold575_P3_114736	scaffold575	114736	A/ATG	GGGAAAGCAAGCAAGT TGAG	AACACAAGTCCTCCCA CCAG	60.0	808	INTERGENIC	--	--	--
scaffold575_P3_118468	scaffold575	118468	GAAAAAAA/GAAAAAAA	TCGTGAAAGAAGCACAC CTGG	TTGAAGTGGAGCATAG TGCG	60.0	339	INTERGENIC	--	--	--
scaffold575_P3_126321	scaffold575	126321	AT/ACTAGT	CCGACATGTTGTTGAC TTGG	GAGCAAATCCCTGCAC TCTC	60.0	762	INTERGENIC	--	--	--
scaffold575_P3_65125	scaffold575	65125	G/GT	TTGAAGTTAAGGGGTG CTGC	TCCATCCAACCTTGTC GATT	60.2	531	DRR	Ca_27003	--	--
scaffold575_P3_66804	scaffold575	66804	CTTTTTTT/CTTTTTTT	AACCGGATGTTGGGAT GTAA	CCCATTCACTCCCACT CTGT	60.1	348	INTERGENIC	--	--	--
scaffold575_P3_67025	scaffold575	67025	ATTTAGGGTA/ATTTAGGGTATGGTTTA GGGTA	ACAGAGTGGGAGTGAA TGGG	CCTAAGCCTGACCCTA CCCT	60.0	397	INTERGENIC	--	--	--
scaffold575_P3_67830	scaffold575	67830	TGGTTTAGGGTTTAGGGTT/TGGTTTA GGGTT	GGGTTAGGGTAGGGTC AGGA	AGGCTGGAATCGGTAA GTGA	60.2	357	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 (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
scaffold575_P3_69717	scaffold575	69717	T/TA	TGCCCAATCGATTTCCT TTA	TGACAAAGGGGGAGAA TTTG	60.4	676	INTERGENIC	--	--	--
scaffold575_P3_82265	scaffold575	82265	AGGGTTAGGGTTAGGGTTAGGGTT/AG GGTTAGGGTTAGGGTTAGGGTTAGGG TT	TGCTTGATTGCTTGAGA TCC	CCCTAACTCCCTAAAC CCCA	59.0	518	INTERGENIC	--	--	--
scaffold575_P3_82798	scaffold575	82798	GTT/GTTT	GCAATAACGAAATGGC TGTG	TAACCCCAAACCTAA ACCC	59.2	542	INTERGENIC	--	--	--
scaffold575_P3_82811	scaffold575	82811	GTT/GTTT	GCAATAACGAAATGGC TGTG	TAACCCCAAACCTAA ACCC	59.2	542	INTERGENIC	--	--	--
scaffold575_P3_82882	scaffold575	82882	TTTTAGGGTTTAGGGTT/TTTTAGGGTT TAGGGTTTAGGGTT	GCAATAACGAAATGGC TGTG	TAACCCCAAACCTAA ACCC	59.2	542	INTERGENIC	--	--	--
scaffold575_P3_82915	scaffold575	82915	GTT/GTTT	GCAATAACGAAATGGC TGTG	TAACCCCAAACCTAA ACCC	59.2	542	INTERGENIC	--	--	--
scaffold575_P3_83114	scaffold575	83114	GTTAGGGTT/GTTAGGGTTTAGGGTT	GGGTAGGGTCAGGGTT ATGG	TCCTAACCCCAAACCT TAAAA	60.4	519	INTERGENIC	--	--	--
scaffold575_P3_83913	scaffold575	83913	TAGGGTTAGGGTTA/TAGGGTTAGGGT TAAGGGTTAGGGTTA	GGTTTACGAATTGGGT ATAGGC	AACCCTAACCCCTAAC CCCT	58.8	504	INTERGENIC	--	--	--
scaffold575_P3_84179	scaffold575	84179	TTTAGGGTTAGGGTTAGGGTTAGGGT TA/TTTAGGGTTAGGGTTAGGGTTAGG GTTAGGGTTA	AGGGTTTTGGGTTTAA GGGT	CCCTAACCCCTATCCC TTATCT	58.7	352	INTERGENIC	--	--	--
scaffold575_P3_89948	scaffold575	89948	TAAAAAA/TAAAAAAA	GGATTGGCCCCAAATA GAAT	CCCTTGTCATTGCTGC TGTA	60.0	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 (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
scaffold575_P3_90216	scaffold575	90216	G/GA	CCCAAATTGCAATAACC AGG	TACCGTTTCCCACT CACA	60.2	637	INTERGENIC	--	--	--
scaffold575_P3_90829	scaffold575	90829	ATTTTTTTT/ATTTTTTT	TGTGAGTGTGGGAAAC GGTA	GGCAATGTGCATAAAC AAAAA	60.0	426	INTERGENIC	--	--	--
scaffold575_P3_91034	scaffold575	91034	AATATATATATATATATATAT/AA TATATATATATATATATAT	TGTGAGTGTGGGAAAC GGTA	GGCAATGTGCATAAAC AAAAA	60.0	426	INTERGENIC	--	--	--
scaffold575_P3_91358	scaffold575	91358	TC/T	TTTTTGTATGCACAT TGCC	TTCAAGACACCGTAA CACCA	58.6	690	INTERGENIC	--	--	--
scaffold575_P3_92874	scaffold575	92874	A/AT	GCCCTTGAAATTGACAA AGC	TTCTGACCGTGCAAT ACAT	59.7	577	INTERGENIC	--	--	--
scaffold575_P3_98810	scaffold575	98810	TC/T	TAAGCCAGGGCTTTCT TTCA	CCTCCACTCCAAACCT ACCA	60.0	404	INTERGENIC	--	--	--
scaffold575_P3_99188	scaffold575	99188	CT/CTGT	TGGTAGGTTTGGAGTG GAGG	GGCTAAGTCTGAAAGT GGCG	60.0	263	INTERGENIC	--	--	--
scaffold575_P3_99548	scaffold575	99548	CGG/CGGG	CGCCACTTTCAGACTTA GCC	AGGAAGCAAGGGGA TTCTA	60.0	690	INTERGENIC	--	--	--
scaffold5761_P3_1101	scaffold5761	1101	C/CG	TCCTGGTCCTCGATTTC ATC	AACGCCTTAAAAGCCC AAAT	60.0	362	INTERGENIC	--	--	--
scaffold5761_P3_842	scaffold5761	842	CTTTT/CTTTTT	GGTCCTCGATTTCATCT GGA	AACGCCTTAAAAGCCC AAAT	60.0	684	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 (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
scaffold577_P3_16520	scaffold577	16520	CGG/CGGG	TACCAAAATTGCCCGAA AAG	GGTCCTCGATTTCATC TGGA	59.9	528	INTERGENIC	--	--	--
scaffold577_P3_40910	scaffold577	40910	GTT/GT	GAGTTCCGTTTCGGAT TTCA	GGTCCTCGATTTCATC TGGA	60.1	443	INTERGENIC	--	--	--
scaffold577_P3_65412	scaffold577	65412	TC/TCC	GATTTTCGTACCCCTC GACA	GATGAAATCGAGGACC AGGA	59.9	643	INTERGENIC	--	--	--
scaffold577_P3_85024	scaffold577	85024	A/AG	TTGGCAAATGAAATAA TAAGAACA	AAAGGGTTTGACTACA TAACGAAGA	59.0	677	INTERGENIC	--	--	--
scaffold577_P3_16517	scaffold577	16517	CTT/CTTT	TTGCAATTGGCACACAA AAT	TGAGTTGCTTCAAAGT GATGTG	60.0	742	INTERGENIC	--	--	--
scaffold577_P3_16606	scaffold577	16606	ACTT/ACTTTCTT	TTGCAATTGGCACACAA AAT	TGAGTTGCTTCAAAGT GATGTG	60.0	742	INTERGENIC	--	--	--
scaffold578_P3_11617	scaffold578	11617	CTTTTTTT/CTTTTTT	TTCATTGATCTTTTCG GGG	CCTCGAGAAAAATGGA CCAA	59.9	513	INTERGENIC	--	--	--
scaffold5780_P3_1131	scaffold5780	1131	GGAATAATGA/GGA	ACTGCGAGAAATTGTG GCTT	GAAAATTATCGCAACA AAATACG	59.9	586	INTERGENIC	--	--	--
scaffold5780_P3_2877	scaffold5780	2877	AC/A	GGAATCCGGTTTCTTTC CAT	GACCATTATTCACACG GTGG	60.1	765	INTERGENIC	--	--	--
scaffold5780_P3_5394	scaffold5780	5394	CAAAAAA/CAAAAAA	CGTGTTCCTCCCGTGT ATTT	ATGTGACACCCTAAAC CCCA	59.9	488	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
scaffold5780_P3_5464	scaffold5780	5464	ATT/AT	CGTGTTCCTCCCGTGT ATTT	ATGTGACACCCTAAAC CCCA	59.9	488	INTERGENIC	--	--	--
scaffold5780_P3_5895	scaffold5780	5895	ATT/ATTT	TGGGGTTTAGGGTGT ACAT	AGGCTTTTCAGGCCCT ATCT	60.1	659	INTERGENIC	--	--	--
scaffold5780_P3_8742	scaffold5780	8742	CTTTT/CTTTT	AAGTTCGCTTAGGC CTTT	GTTGGGTCAAGGCTA TGGA	60.1	444	INTERGENIC	--	--	--
scaffold5780_P3_9297	scaffold5780	9297	GAAAC/GAAACGTCAATAAAAC	TCCATAGCCTTGACCC AAAC	CCCACTGCTTGCAATA ATGA	59.9	404	INTERGENIC	--	--	--
scaffold5781_P3_12542	scaffold5781	12542	A/AT	CAAGGCTGTTTCAGCA TTCA	TTGTCCGTGAGAGACT GCAC	60.0	574	INTERGENIC	--	--	--
scaffold5792_P3_38349	scaffold5792	38349	CAAAAAAAAA/CAAAAAAAAAA	AGAGATTCGAAGGGG AGAT	TGTATATTTGGAGAGG CCCG	59.1	664	INTERGENIC	--	--	--
scaffold5801_P3_854	scaffold5801	854	GATT/GATTATT	AGACGCATTACACACC ACCA	AAGGCGCATACAAA CAAC	60.0	582	INTERGENIC	--	--	--
scaffold5812_P3_30560	scaffold5812	30560	G/GC	GTGCTCCATGTTTTCC AGT	CCGGATCCTTAGGGT ATGT	60.0	515	INTRON	Ca_27755	--	--
scaffold5812_P3_4416	scaffold5812	4416	TAAAA/TAAAAA	TGCAAACCTAAATGTG GCAA	CGAGCACCATTGCA TCAC	60.1	716	INTERGENIC	--	--	--
scaffold583_P3_106896	scaffold583	106896	ATTT/ATTTT	CGAACGGAGATTTATC GGA	TTTCCACGAAACATCC ATCA	60.0	233	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfI)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	Tfs
scaffold583_P3_129627	scaffold583	129627	TAAAAA/TAAAA	GCTTACGGTGAAGGAG AACG	CAACACATATTTAAAC ACATGCCAA	59.9	770	INTERGENIC	--	--	--
scaffold583_P3_4145	scaffold583	4145	CTTTTTTT/CTTTTTT	TGAATGAAACCAATGC CAAA	TGATTGCCAAATAGCAC CCAA	59.9	152	INTERGENIC	--	--	--
scaffold583_P3_80370	scaffold583	80370	TTATATATATATATATATATATATA TATATATAT/TTATATATATATATATA TATATATATATATATATATATAT	GTTTTGGCGTTGGTTT CACT	TTGCGCTTGACTGATG TTAA	60.0	785	INTERGENIC	--	--	--
scaffold583_P3_89302	scaffold583	89302	AATATATATATATATATATATATAT AT/AATATATATATATATATATATATA T	TCGAGTCCGTGTGTT GGTA	TCITTAGTAGCCCCGCC AAGA	60.2	542	INTERGENIC	--	--	--
scaffold584_P3_124955	scaffold584	124955	AATTATTATTATTATTATTATTATTA TTATTATTATTATT/AATTATTATTATTA TTATTATTATTATTATTATTATTATT ATT	TAGGTTATGGATGCGG TGGT	GGAGGAAAATGTGTTT TATGGAA	60.2	287	INTERGENIC	--	--	--
scaffold584_P3_132565	scaffold584	132565	TGGAAGAAGGAGGAAGAAGG/TGGAA GAAGGAGGAAGAAGGAGGAAGAAGG	TTCTTTCCCACACAACC ACA	TTGGTATTGAACTCGG AGGC	60.0	777	INTERGENIC	--	--	--
scaffold584_P3_233927	scaffold584	233927	AGCCGAGG/AG	ATTGGATGCATACGGT TGGT	AGGTCATTTTCGTCT CCCT	60.1	271	INTERGENIC	--	--	--
scaffold584_P3_29046	scaffold584	29046	ATT/AT	CAATCCGAGACAGTCC CCTA	TTTGCGACGCTTGATC ATTA	60.1	524	INTERGENIC	--	--	--
scaffold584_P3_74749	scaffold584	74749	TTATATATATATATATATATATATATA /TTATATATATATATATATATATATATA	CATGTGGCAGTTGAAT GAGG	TAGTTTGAATTCGGG GACG	60.1	710	INTERGENIC	--	--	--
scaffold586_P3_8356	scaffold586	8356	AATATATATATATATATATATATAT ATA/AATATATATATATATATATATAT ATATATATA	GCGCGCCAAAAATAGT GTAT	GGTGCTTGTTAAGTTG TGCCCT	60.1	492	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 (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
scaffold5869_P3_1633	scaffold5869	1633	TTTATTATTATTATTATTATTATTAT TATT/TTTATTATTATTATTATTATTAT TTATT	GGGTAGGAAAAGCATC ACGA	TGATTGATTGTGGGA CCGA	60.1	387	INTERGENIC	--	--	--
scaffold5869_P3_17040	scaffold5869	17040	TTGAT/TTGATGAT	TCCAAACCTTTGTGGG TCTC	GGAGCAACCAATGAAA GGAA	59.9	797	INTERGENIC	--	--	--
scaffold5869_P3_18300	scaffold5869	18300	GAAAAAAAAA/GAAAAAAAAA	TTCCAAATATGCTTGGG ACAC	TGAACCTTTTACACG GTTCTCA	59.8	601	INTERGENIC	--	--	--
scaffold5869_P3_5473	scaffold5869	5473	CG/C	TTGAAGCGCAAATTCCT CCT	TAGAACCAGAGGATC GCAT	60.0	946	INTERGENIC	--	--	--
scaffold587_P3_17163	scaffold587	17163	AC/A	GGAAAATCCATGAGGC AAGA	AGGCCCAAGAAGAG TGAT	60.0	496	CDS (FRAME SHIFT)	Ca_27621	--	--
scaffold587_P3_18087	scaffold587	18087	T/TCA	GTCCTTGCCTTATGC TTGT	TGCTTGATTGCTTGAG ATCC	60.4	347	DRR	Ca_27621	--	--
scaffold587_P3_23045	scaffold587	23045	AC/A	CCCGAAAAGTCCAGAT GAAA	GCGATTTCCGTACCAC CTAA	60.0	329	INTERGENIC	--	--	--
scaffold587_P3_35297	scaffold587	35297	C/CA	TTCAAACGTTCTCTCAC CCC	AAAAATGGGAATTGGA AGGG	60.1	530	INTERGENIC	--	--	--
scaffold587_P3_50853	scaffold587	50853	TAAAA/TAAAAA	AGGGGAATTTTCGTAC CACC	ATCGAAGACCAGGAGA CCCT	60.1	638	INTERGENIC	--	--	--
scaffold587_P3_51041	scaffold587	51041	CAAAAAAAAA/CAAAAAAAAA	AGGGGAATTTTCGTAC CACC	ATCGAAGACCAGGAGA CCCT	60.1	638	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_P3_53018	scaffold587	53018	CAAAAA/CAAAA	TACACGAAACCCGAAACACA	CGAGGACCAGGAGACCATTA	60.0	749	INTERGENIC	--	--	--
scaffold587_P3_5399	scaffold587	5399	T/TA	TAAGGAGGCCTTTTAGAGCG	AGGGTTCCCAAAGGAAAGAGA	58.7	352	INTERGENIC	--	--	--
scaffold587_P3_54888	scaffold587	54888	AATATATATATATATATA/AATATATATATATATATATA	CAAGACATGCGAAAGTCGAA	TCCAGCTTCCTCAAAGCCTA	60.0	484	INTERGENIC	--	--	--
scaffold587_P3_56115	scaffold587	56115	GAA/GAAA	AACTGCCAAAGAGATGTGGG	TGCAGTTCATCTCATGCTC	60.1	338	INTERGENIC	--	--	--
scaffold587_P3_70502	scaffold587	70502	CAAA/CAAAA	GATGAAATCCAGGACCGAGA	TTCGAACGATTTTCGTACCC	60.0	732	INTERGENIC	--	--	--
scaffold589_P3_128544	scaffold589	128544	TTTTTATTTT/TTCTTTTATTTT	GCATCACGCTACCATAGGCT	TTGGACGTTTGAGCCTTTCT	60.3	555	INTERGENIC	--	--	--
scaffold589_P3_238753	scaffold589	238753	CAAAA/CAAAA	CTCGCCTATTGCAGTGACA	GCTTGACAGGGAAGGACTTG	60.0	908	INTERGENIC	--	--	--
scaffold589_P3_24575	scaffold589	24575	GCGACGGTT/GCGACGGTTGGAACGACGGTT	CTGAGTCCAACCACTACCT	GGTTGGGGAAAAATCACAA	60.0	724	DRR	Ca_26788	--	--
scaffold590_P3_19258	scaffold590	19258	TT/TTACCATAGT	TCCTAAGAAAGCTACCCACC	TGGCAAAGCACAAAGACACTC	59.6	398	INTERGENIC	--	--	--
scaffold590_P3_19474	scaffold590	19474	AG/AGG	CTATCCATGCATGTGCAACAC	TGGCAAAGCACAAAGACACTC	60.0	175	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_P3_206259	scaffold590	206259	TGG/TG	ACCTCCCTTCCAAGTTG CTT	TGTGGAGGAAATGGAA CACA	60.1	253	INTERGENIC	--	--	--
scaffold590_P3_3079	scaffold590	3079	AT/ATT	AATAAAAGACCAAATCG GAAAAA	TGACAACCATTTATATT TGCCAC	58.2	393	INTERGENIC	--	--	--
scaffold590_P3_31103	scaffold590	31103	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATT/GTTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATT	ACTGGTCCATATAGCC ACGC	GCAGCAGCGGTTTTAT CTTC	60.0	851	INTRON	Ca_25554	G	NAC
scaffold590_P3_46710	scaffold590	46710	AATATATATATATATATAT/AATATATAT ATATATAT	GAGAAGGCTGGGTGAA ACAA	CGTAGCGTGGTAGTGA GCAA	60.2	874	INTERGENIC	--	--	--
scaffold590_P3_6490	scaffold590	6490	A/ATTATTTTTT	ATGTTTGCTGGAATGG GAAG	GGTGTACATGGTCGT TGAG	59.9	661	INTERGENIC	--	--	--
scaffold5904_P3_22420	scaffold5904	22420	ATTTT/ATTTT	TCAGTGTCAACGGTGT CGAT	CCCCCTTTTCTTAAAT TCG	60.2	636	INTERGENIC	--	--	--
scaffold5916_P3_1178	scaffold5916	1178	CAAAA/CAAAA	TGACACCATTCTCTAGG CCC	AGGGAGGACGAAAATG ACCT	60.1	310	INTERGENIC	--	--	--
scaffold5916_P3_851	scaffold5916	851	GAAA/GAA	TCATTTTCGTCTTCCT TGG	TGGGCCTAGAGAATGG TGTC	60.0	749	INTERGENIC	--	--	--
scaffold592_P3_18365	scaffold592	18365	GTTTTTTT/GTTTTTTT	TAACCAATCTTGTGCGT CCA	AGGGAGGACGAAAATG ACCT	60.1	873	INTERGENIC	--	--	--
scaffold5920_P3_6292	scaffold5920	6292	AC/ACCC	TTTCATCCACATCAGCC AAA	GCATTTATGTCGATATT TAGGAGTGA	60.0	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 (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
scaffold5928_P3_4085	scaffold5928	4085	CTATATATATATA/CTATATATATATA TATA	AGCAAAAGGAAGCAAC GAAA	ACACACCTATCGGATG CACA	60.0	598	INTERGENIC	--	--	--
scaffold593_P3_209230	scaffold593	209230	CAAAAA/CAAAAAA	GGGTGAAATTTAGGG GTGAA	GGAATAAAATATGCAT CCGAGC	60.0	734	DRR	Ca_26412	--	C2H2
scaffold593_P3_209468	scaffold593	209468	TC/T	GCAAACCTTTGCAAAA GAAA	GGAATAAAATATGCAT CCGAGC	59.4	153	DRR	Ca_26412	--	C2H2
scaffold593_P3_209698	scaffold593	209698	CT/CTTT	GCAAACCTTTGCAAAA GAAA	GGAATGGAAATAATTG AAAAGTTTG	59.4	847	DRR	Ca_26412	--	C2H2
scaffold593_P3_210090	scaffold593	210090	TT/TTATTTAAT	GAGCACAGTTTCAATTA ACAGCA	GTCTCTGCTCAACCAG GAGG	59.5	862	DRR	Ca_26412	--	C2H2
scaffold593_P3_54720	scaffold593	54720	TAATAAATAAATAAATAAATAAAT AAATAAATAAATAA/TAATAAATAAATAA ATAAATAAATAAATAAATAAATAA ATAA	TTGGGCACATCTTGATT CAG	AATGGCAAGATGCCAG AAAG	59.6	537	INTERGENIC	--	--	--
scaffold593_P3_6803	scaffold593	6803	TAAAAAAAAA/TAAAAAAAAA	CGTGTTTGGTGGGACT TTCT	AATGAGCCACTTTGGC AATC	60.0	925	INTERGENIC	--	--	--
scaffold593_P3_95845	scaffold593	95845	AATATATATATATATATA/AATATATA TATATATATA	GATGATCCAATCGGTC TTGC	TTGTTGGAAGAAAAAC AAAGTCA	60.4	392	INTERGENIC	--	--	--
scaffold5934_P3_22130	scaffold5934	22130	AATATATATATATATATAT/AATATAT ATATATATATATATATAT	GGGGTTGTGATTGGA TGTC	TTGGAAGGAGCCCTTA CCTT	60.0	908	INTERGENIC	--	--	--
scaffold5954_P3_1414	scaffold5954	1414	A/AG	TGGATGCACAAGGTTG GTTA	AGGTCATTTTCGCCT CCCT	60.0	367	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 (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
scaffold5954_P3_716	scaffold5954	716	GTT/GT	TGGATGCACAAGGTTG GTTA	TTCTTTTCGTCCTCCC TTG	60.0	767	INTERGENIC	--	--	--
scaffold5955_P3_643	scaffold5955	643	C/CTCGGGGAATCTGAGA	AGGCCCCCATATCCTTT ATG	TGTTGCGCTTTCTTC TTTT	60.0	515	INTERGENIC	--	--	--
scaffold598_P3_103669	scaffold598	103669	ATTTTTTTTT/ATTTTTTTTT	AAATTCCACGGTGCTC AAAC	GTGTAGCCAACTCAC CCGT	60.0	419	INTERGENIC	--	--	--
scaffold598_P3_111324	scaffold598	111324	TAAAAAAAAAAAA/TAAAAAAAAAAAA	AATTTACAGAATTGGCC CCC	ATTGGCAAAATCGGCA TTAG	60.0	448	INTERGENIC	--	--	--
scaffold598_P3_120264	scaffold598	120264	TAAAAAAAAAAAA/TAAAAAAAAAAAA	TTAAGGAACAAATGGG GCTG	TTGCACCTGTTATGA GGTC	59.9	690	INTERGENIC	--	--	--
scaffold598_P3_123528	scaffold598	123528	GATATATATATATAT/GATATATATATAT ATAT	TCACCGTTTATGTTTCC TTGAA	GTGATAAGGCAGGGTC TGGA	59.5	404	INTERGENIC	--	--	--
scaffold598_P3_131012	scaffold598	131012	GA/GAA	GAGGCTCCTCTCTAT CGGT	TCCTTAATGACACCCC CAAA	59.8	727	INTERGENIC	--	--	--
scaffold598_P3_165238	scaffold598	165238	ATTTTTTTTT/ATTTTTTTTT	TGAAGGAGGAGGATCC TGAA	TGAGAGGGGTTCAAGA GGTG	59.7	696	DRR	Ca_21754	--	--
scaffold598_P3_212963	scaffold598	212963	AT/ATT	AATCCACCATTTTCAAC CCA	TGTTAGGAGGATCTCA CGGG	60.0	824	INTERGENIC	--	--	--
scaffold598_P3_299439	scaffold598	299439	A/AATT	ATTTTAACGGATGTCGC AGG	AATTCAATTGAGTCGC CACC	60.0	164	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_P3_312094	scaffold598	312094	CAAAAAAAAAAAAA/CAAAAAAAAAA A	TGGTGAAAAGCACACA ATGAA	CTACAAGCCTCAACGA CGGT	60.1	740	INTERGENIC	--	--	--
scaffold598_P3_374642	scaffold598	374642	ATTTTT/ATTTTTTT	TTTGGGACGAATTGA GACC	TGCATATGTGAGGGGT GAAA	59.9	470	DRR	Ca_21763	J	--
scaffold598_P3_413659	scaffold598	413659	GAT/GATGATCGTCAT	CCAGGTGCACCTTAAC CAAT	TCACCTTCCACAACAA CCAA	59.9	744	INTERGENIC	--	--	--
scaffold598_P3_420243	scaffold598	420243	GATATATATATATAT/GATATATATAT ATAT	GCCGAATAAAACCCCT ACAA	GACATCTCATTCCCC TTCA	59.9	683	INTERGENIC	--	--	--
scaffold598_P3_420346	scaffold598	420346	CATATATATATATATATAT/CATATAT ATATATATATATATATAT	CAAATGCATGCTCCCC TAAT	GACATCTCATTCCCC TTCA	59.9	360	INTERGENIC	--	--	--
scaffold598_P3_455300	scaffold598	455300	T/TTGTC	CTTGGTATGAGAAGCT CGGC	ACAGCTCCCAGCTGCT ATGT	60.0	488	INTERGENIC	--	--	--
scaffold598_P3_45845	scaffold598	45845	TAAAAAAAA/TAAAAAAAA	TTGCATTACCTCCCAT GAA	TTCGGGCAATTCAATC TTTC	59.0	642	INTERGENIC	--	--	--
scaffold598_P3_478255	scaffold598	478255	AATATATATATATATATA/AATATATATA TATATA	GTTGGTCCCTAGCAC CGTA	TTTGGCATGAAGTGGA AACA	60.0	753	INTERGENIC	--	--	--
scaffold598_P3_486318	scaffold598	486318	ACC/ACCC	TGTATCCGTCAAATTG GCA	TTCTCCCCGTAATAC ATGC	59.9	480	INTERGENIC	--	--	--
scaffold598_P3_549726	scaffold598	549726	ATTTTTTTTT/ATTTTTTTTTT	TATCCCCAACGTCATT GTT	GTGGAGATCACCCGAG TTGT	60.1	671	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_P3_568507	scaffold598	568507	CTCAAAATCAAAATCAAAATCAAAATCA AAATC/CTCAAAATCAAAATCAAAATCA AAATCAAAATCAAAATC	CAGCCACTACATTGGC CTTT	AGGATTCTCCAAGTTG GCCT	60.1	499	INTERGENIC	--	--	--
scaffold598_P3_94510	scaffold598	94510	CTT/CTTT	CCCCAATGCTACACCA AAAG	TCTTCGCAAATCGACA CAAG	60.4	193	INTERGENIC	--	--	--
scaffold598_P3_97465	scaffold598	97465	CATATATATATATATATA/CATATATATA TATATATATATATATATATA	TTCGAATTTATTCATTA ACGAAGGT	ATGCGGGTCTACATGC CTAC	59.4	380	INTERGENIC	--	--	--
scaffold598_P3_99722	scaffold598	99722	ATTTTTTT/ATTTTTT	CATCGCCTGAATGGCT TAAT	TGACATGTACGGTGAT GCCT	60.1	795	DRR	Ca_21751	R	--
scaffold599_P3_115923	scaffold599	115923	GA/GAA	TGGCATAGTATCAGGC CTCC	AAATGAGGGGAACACA CGAG	60.1	199	INTERGENIC	--	--	--
scaffold599_P3_123496	scaffold599	123496	GAAAAAA/GAAAAAAA	AACTCGCCAAGCGAAA ATAA	CTCGCAAGTCACAGTC GAAA	59.9	952	INTERGENIC	--	--	--
scaffold599_P3_139122	scaffold599	139122	ATTTTTTT/ATTTTTT	TCTTGGTTTTGGGCGA GTAG	TCTACCCCTCACTCA ATGG	60.2	352	INTERGENIC	--	--	--
scaffold599_P3_139352	scaffold599	139352	CTT/C	TCTTGGTTTTGGGCGA GTAG	TCTACCCCTCACTCA ATGG	60.2	352	INTERGENIC	--	--	--
scaffold599_P3_152779	scaffold599	152779	C/CT	CACCAACTTCGCGCAC TAAT	CCAAGCAGTGATCGGA GAAT	60.0	525	INTERGENIC	--	--	--
scaffold599_P3_152920	scaffold599	152920	TTTTATTTATTTATTTATTTATTT/TT TTTATTTATTTATTTATTTATTTATTTAT TT	TTCTTTTGCTTTTCCA TCG	TTGAACCAAACTGAGC TGGA	60.2	812	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 (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
scaffold599_P3_169676	scaffold599	169676	A/ATTTCTGAT	CCCTGAGACTCACGAA GAGG	AAATCCAACAATCTCC CCC	60.0	573	INTERGENIC	--	--	--
scaffold599_P3_180279	scaffold599	180279	GTTATTGAATTCCTTTATTGAATTCCTT TATTGAATT/GTTATTGAATTCCTTTATT GAATT	TAAAGGACCAAATCGG GAAA	CGATTGATTTTGAAA CGGA	59.4	436	INTERGENIC	--	--	--
scaffold599_P3_248937	scaffold599	248937	CTTTTTTTTT/CTTTTTTTTTTT	CTTTGATCGATGGCCA TTTT	ACTTGTCACGACCCGA AAAC	59.9	336	INTERGENIC	--	--	--
scaffold599_P3_253738	scaffold599	253738	ATTTT/ATTTT	TTGTTTCTCCCAGTTT TGG	CCACGGGTGCTATTTA GCTT	59.9	455	INTERGENIC	--	--	--
scaffold599_P3_281909	scaffold599	281909	TAAAAAAAA/TAAAAAAAA	GATCTGTAAACGGGCG GATA	TCACTGCAAACTGCC TTTTA	59.9	428	INTERGENIC	--	--	--
scaffold599_P3_307088	scaffold599	307088	CTTATTATTATTATTATTATTATTAT T/CTTATTATTATTATTATTATTATT ATTATTATTATTATT	TCTTCCCATTCCTGTG TGG	GGCGTAGCCCAATAT TCAA	60.0	120	INTERGENIC	--	--	--
scaffold599_P3_307530	scaffold599	307530	AATATATATATATATATATATATATAT ATAT/AATATATATATATATATATATA TATATAT	TCTTCCCATTCCTGTG TGG	TGTGTGCTTCCTATGA TGTTCT	60.0	855	INTERGENIC	--	--	--
scaffold599_P3_307709	scaffold599	307709	TAAAAAAAA/TAAAAAAAAAAAA	TCCTCCAACACCATCT AATTTT	CAACATTAAGAAGACG GCGA	58.9	949	INTERGENIC	--	--	--
scaffold599_P3_307947	scaffold599	307947	AT/A	AGAACATCATAGGAAG CACACA	CAACATTAAGAAGACG GCGA	57.4	317	INTERGENIC	--	--	--
scaffold599_P3_312899	scaffold599	312899	CTTTTTTTTT/CTTTTTTTTTTTTT	CGTTGTCGTCGGTAGG ATTT	TTCAAAAGTTATTCGGT GGAAA	60.0	521	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 (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
scaffold599_P3_346427	scaffold599	346427	TAAAAAAAA/TAAAAAAAAA	CATGGCAATGAACCTG AAGA	GGTTCGTAATGGATGG GATG	59.6	674	INTERGENIC	--	--	--
scaffold599_P3_347393	scaffold599	347393	CTTTTTTT/CTTTTTT	CCTCTTTTCTTCGATT TCG	AACAACAGCCCCAATG TAGC	60.0	504	INTERGENIC	--	--	--
scaffold599_P3_351148	scaffold599	351148	ATAAAAGC/ATAAAAGCTAAAAGC	CTGTTGGGCAAGGGAT CTAA	CACGCTTGTTTTGCAC ATT	60.1	641	DRR	Ca_25346	--	--
scaffold599_P3_352330	scaffold599	352330	TAAAA/TAAA	AAAAATACGGCAAAGC AAAA	TCAATGGACATGAGTC TTCACA	57.5	887	DRR	Ca_25346	--	--
scaffold599_P3_364148	scaffold599	364148	CTATATATATATATATATAT/CTAT ATATATATATATATATAT	GCAAGCACCGTTGTGA GTAA	TCTTTAGTAGCCCGCC AAGA	59.9	784	INTERGENIC	--	--	--
scaffold599_P3_366068	scaffold599	366068	ATTTTTTTTT/ATTTTTTTTTT	AGAGCGCAATCATTTCA GGT	CTTTTGAAAGAAGCC CTCC	59.8	613	INTERGENIC	--	--	--
scaffold599_P3_369580	scaffold599	369580	T/TCA	AGGGCACTTTGGA AAA CCTT	TCATTTAAAGGCCTCA ATACGAT	60.0	492	INTERGENIC	--	--	--
scaffold599_P3_371527	scaffold599	371527	TAAAAAA/TAAAAA	CAGCGTTGTTGTTGTT GTTTTT	TTTCGAATGAACATGG ATGA	60.1	531	INTERGENIC	--	--	--
scaffold599_P3_373801	scaffold599	373801	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA A	CCCCCTAAGTTCATTCC ACA	GGCTTGTCGTCGGTA AATA	59.8	567	DRR	Ca_25347	--	--
scaffold599_P3_388008	scaffold599	388008	CTTTTTTTTT/CTTTTTTTTTT	GTGTTGATTGCGAAGG GTTT	TACGGA AAATTACCCA CGGA	60.0	452	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_P3_392616	scaffold599	392616	GAAAAA/GAAAAA	AAAAAGATATGGCAAG GCAAAA	TGAGTTGAGAGTCCT TTCCAT	60.0	689	INTERGENIC	--	--	--
scaffold599_P3_396362	scaffold599	396362	G/GGT	TGGAAGCATGATCCTC AACA	TCCTTTTGAAAGAAG CCCT	60.2	371	INTERGENIC	--	--	--
scaffold599_P3_410067	scaffold599	410067	GTTT/GTTT	ATCGATTCCCAATCGG TTA	TATACCCTATAGCCAC GGCG	59.2	609	INTERGENIC	--	--	--
scaffold599_P3_50817	scaffold599	50817	AT/A	CCTGGGCTTATTCTGT CCA	AGGGAGAACGGAATG ACCT	60.1	599	INTERGENIC	--	--	--
scaffold599_P3_95405	scaffold599	95405	GT/GTT	CGTGCTCTTTTGTT TCA	CAAATTTGCCACCACC TTTT	59.0	732	INTERGENIC	--	--	--
scaffold599_P3_96808	scaffold599	96808	ATTTT/ATTTT	CCCCAATTTTCAACAT CCTT	GGTCATTTTCGTCTTC CCAA	60.0	351	INTERGENIC	--	--	--
scaffold5992_P3_1551	scaffold5992	1551	G/GA	CGAGGTAAGGGTGAG ATGA	TCCCGAATCACTAGG TTTG	60.1	544	INTERGENIC	--	--	--
scaffold5993_P3_18562	scaffold5993	18562	GTTTTTT/GTTTTTT	TTGATGTACGAAAAGT TTAGCAAG	GGGGGCACTTATTAT CACTT	59.0	267	INTERGENIC	--	--	--
scaffold5993_P3_18598	scaffold5993	18598	CTTATATTTTATATTTTATATTTT/CT TATATTTTATATTTT	TTGATGTACGAAAAGT TTAGCAAG	GGGGGCACTTATTAT CACTT	59.0	267	INTERGENIC	--	--	--
scaffold601_P3_143190	scaffold601	143190	TA/TAAA	TTCGTAGAGATTCATCG GGG	CAGAGCGGACTTCTTC CAAC	60.0	747	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
scaffold601_P3_49572	scaffold601	49572	CTTTTTTT/CTTTTTTT	GGGGACATTCGAGAG TCAA	TCACAAGGGAGGCTCT ATGG	60.1	519	INTERGENIC	--	--	--
scaffold604_P3_14590	scaffold604	14590	TAATAAATAAATAAATAAATAA/TA ATAAATAAATAAATAAATAA	TGGGCTTCAACTTTTTG GAC	CGATTTTGGATTGCAT GCTT	60.1	536	INTERGENIC	--	--	--
scaffold604_P3_40273	scaffold604	40273	CTTTTTTT/CTTTTTTTT	CCAACTCGCTGAGTAG GAGG	ACCGAATTGGATTGGT GAAA	60.0	575	DRR	Ca_27531	--	--
scaffold604_P3_70429	scaffold604	70429	CTTTTTTT/CTTTTTTTT	ACGCATTATTGGATGC ACA	TGAAACGTTTGGAGAG TGGA	60.0	776	INTERGENIC	--	--	--
scaffold605_P3_25215	scaffold605	25215	TC/TCGGAGGGGGAC	CAGGCCAGGTAATCT TTGA	CATGCCAGGAGCACAC ATAC	60.1	784	INTERGENIC	--	--	--
scaffold6055_P3_11780	scaffold6055	11780	CATATATATATATATATATAT/CATAT ATATATATATATATATAT	TATTTTGGATTTTGGCT CGG	CCGATAAAATCTCTGC TCGC	59.9	704	INTERGENIC	--	--	--
scaffold6095_P3_2471	scaffold6095	2471	GACACACACACAC/GACACACACAC AC	AGGGAGGACGAAATG ACCT	TTAGCCAATCTTGTGC ATCG	59.9	574	INTERGENIC	--	--	--
scaffold611_P3_6639	scaffold611	6639	AGGTG/AG	GGGGGTTTCATCTTCCT GATT	TACCAAGCCCTACCC AAGA	60.1	525	INTERGENIC	--	--	--
scaffold6113_P3_1438	scaffold6113	1438	GAAAA/GAAAAA	ACAAGCCTATCGTTTG GCAC	GATGCAACATTGGAGC ATGA	60.1	589	INTERGENIC	--	--	--
scaffold612_P3_18012	scaffold612	18012	TAAAAAAAAA/TAAAAAAAAA	TGATGGATTTTGTGTG TGTTTG	TATGTGGCATGGTGAT CGAG	59.8	778	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
scaffold612_P3_28576	scaffold612	28576	GAAAAA/GAAAAAA	AAAAAGGGAGGGTCAC ATGAT	TCACCAATATCTTAACC ACCAAAA	59.7	701	INTERGENIC	--	--	--
scaffold6120_P3_1380	scaffold6120	1380	ACTCTCTCT/ACTCTCT	CCAAATGCTTCATTCT GCAA	CCACCAGACCGACTTT GATT	61.1	493	INTERGENIC	--	--	--
scaffold6120_P3_3322	scaffold6120	3322	CA/CATTACTA	TCTGAAAGCCGTGAA GACC	TCATTTGCTCCAAGA CATCA	60.4	292	INTERGENIC	--	--	--
scaffold6125_P3_1553	scaffold6125	1553	TAAAGA/TA	ATGCGATCCTCTCGGT TCTA	GAGACCGAAGAGTATT GGGAGA	59.8	838	INTERGENIC	--	--	--
scaffold613_P3_79372	scaffold613	79372	AAC/AACTAC	AAAATTCACCAGATGGT CGC	TTGATCTTGCTGCATT GTCC	59.9	246	INTERGENIC	--	--	--
scaffold6131_P3_10308	scaffold6131	10308	TAAAA/TAAAAA	TGGATGGACAAGATTG GTGA	AGGTCATTTTCGTCCT CCCT	59.9	466	INTERGENIC	--	--	--
scaffold6154_P3_548	scaffold6154	548	CCGCCTCA/CCGCCTCAGGCGCCTCA	AACCGCTCCAATGGTG TTAG	GAAGATGATGTGCGCT TGAA	60.0	221	INTERGENIC	--	--	--
scaffold6154_P3_586	scaffold6154	586	AT/ATCT	AACCGCTCCAATGGTG TTAG	GAAGATGATGTGCGCT TGAA	60.0	221	INTERGENIC	--	--	--
scaffold617_P3_1553	scaffold617	1553	GAAAAAAAA/GAAAAAAAAA	GGACAAAACGAAACCA ATCAA	TTGGGGTTTAGGGTTT AGGG	59.8	659	INTERGENIC	--	--	--
scaffold617_P3_8886	scaffold617	8886	A/AAC	CCAAATGGACGAGAA TAGACC	TGGTTTAGGGTTTAGG CCAAT	59.8	408	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 (°C)	Expected 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_P3_150220	scaffold62	150220	TAAAAA/TAAAAAA	AACATTTAAGAAAATTG AGTTGTCAAA	GTGTGTTGGGCTGTT AGGG	58.7	405	INTERGENIC	--	--	--
scaffold62_P3_150253	scaffold62	150253	AGTTGTCCAAT/A	AACATTTAAGAAAATTG AGTTGTCAAA	GTGTGTTGGGCTGTT AGGG	58.7	405	INTERGENIC	--	--	--
scaffold62_P3_150949	scaffold62	150949	CA/CAACTCTA	CAGCCCAACACACTAA ACCC	CAACACAATTGAGCTG TCAAA	60.4	572	INTERGENIC	--	--	--
scaffold62_P3_338714	scaffold62	338714	ATT/ATTT	CCATCGTCAAGTCCGA AAAT	CCAAAACGAAACCC AAAA	59.9	565	INTERGENIC	--	--	--
scaffold622_P3_10235	scaffold622	10235	TAAAAA/TAAAAAA	ATAGGCCTAGGGAGGA CGAA	TTAGCCAAC TTGTC ATCG	60.1	381	INTERGENIC	--	--	--
scaffold622_P3_10833	scaffold622	10833	GTT/GT	AGCCTGGGAAGGACAA AAAT	CGTCTCCCTAGGCCT ATCC	59.9	635	INTERGENIC	--	--	--
scaffold622_P3_30884	scaffold622	30884	A/AC	TGGGTGCACAAGATTG GT TA	AGGGGTGTTTGAGTCA TTGG	60.0	832	INTERGENIC	--	--	--
scaffold622_P3_46025	scaffold622	46025	A/AC	CACTCCTATGGGATGC ACAA	AGGTCATTTTCGTCCT CCCT	59.5	373	INTERGENIC	--	--	--
scaffold622_P3_48194	scaffold622	48194	AC/A	TCCGATGACACAAACA CACC	TTTGGTCATTTTCGTC CTCC	60.4	194	INTERGENIC	--	--	--
scaffold622_P3_61725	scaffold622	61725	GACACACACACAC/GACACACACAC	CAAAACCCACCTATTGG ATGC	GGTCATTTTCGTCCTC GCTA	60.2	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 (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
scaffold622_P3_79107	scaffold622	79107	GC/GCC	AGGGAGGACGAAAATG ACCT	TAACCAATCTTGTGCA CCCA	59.9	271	INTERGENIC	--	--	--
scaffold622_P3_81568	scaffold622	81568	CAAAAAAAAA/CAAAAAAAAA	GCGGACGAAAATGACC TAAA	TATTTTGTGTCGCCCTT GGC	60.1	491	INTERGENIC	--	--	--
scaffold624_P3_307933	scaffold624	307933	ATGT/AT	AGCAACGAAAATGGAA ATGG	AGACACAATCCAACCG AAGG	59.9	550	DRR	Ca_24752	--	--
scaffold626_P3_172594	scaffold626	172594	A/AACAATTTTGG	AGATTTTGGCCCTTG GTTT	GTTGTTGAGTTGTTGG GGCT	59.8	960	INTERGENIC	--	--	--
scaffold626_P3_172733	scaffold626	172733	C/CAATTA	GTGAGCAAAATGCTGG GAAT	GTTGTTGAGTTGTTGG GGCT	60.1	393	INTERGENIC	--	--	--
scaffold626_P3_219233	scaffold626	219233	CAAA/CAAAA	GGATTTAGGGTTTTGG CCTT	GATGAAATCGAGGACT GGGA	59.3	654	INTERGENIC	--	--	--
scaffold626_P3_222814	scaffold626	222814	TGAAGAAGAAGAAGAAGAAGAAG/ TGAAGAAGAAGAAGAAGAAG	TTTGGAGACCAATGGT GACA	GTCGAACGTTCTCGGT TTGT	59.9	779	INTERGENIC	--	--	--
scaffold626_P3_225194	scaffold626	225194	T/TG	TACAGATGTTCCAGCC CTCC	GAACCTGTACCTCCAG CCAA	60.1	501	INTERGENIC	--	--	--
scaffold626_P3_236880	scaffold626	236880	AGGG/AGG	CCCATCCACAAAATAT GCC	GATGAAATCGAGGACC AGGA	60.0	302	INTERGENIC	--	--	--
scaffold626_P3_239950	scaffold626	239950	GTTATTATTAT/GTTATTAT	TCTTCCTTTTAAAGTTT GACTGCAT	TGTTATTGTTATCTTCG TTTCGTAAT	59.7	535	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 (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
scaffold626_P3_242102	scaffold626	242102	CAAAA/CAAAAA	GGCAGTCATCATCAAC ATGG	ACCAATCCGAAGACGA TCAC	59.9	484	INTERGENIC	--	--	--
scaffold626_P3_351769	scaffold626	351769	GT/GTACT	GACTAAGGAAGAGCAT GGCG	TGGCCTTCCAGGATG ATAG	60.0	719	INTERGENIC	--	--	--
scaffold626_P3_355982	scaffold626	355982	TATATATATA/TATATATATAAATATATA TA	TTCACGTGTCTCAACT CGC	CCGTGCTAATCTCTGC TTCC	60.0	662	INTERGENIC	--	--	--
scaffold626_P3_450259	scaffold626	450259	GAAA/GAA	GGTCCTCGATTTCATCT GGA	GTTTCGGGTTCCGTGT AAGA	60.0	440	INTERGENIC	--	--	--
scaffold626_P3_452023	scaffold626	452023	A/AC	TAACTCGGAACCCGAA ACAC	TCCAGATGAAATCGAG GACC	60.0	842	INTERGENIC	--	--	--
scaffold626_P3_452605	scaffold626	452605	AG/A	GGTCCTCGATTTCATCT GGA	AACTGTGTTTCGGGTT TTGC	60.0	672	INTERGENIC	--	--	--
scaffold626_P3_452939	scaffold626	452939	TAAAA/TAAAAA	TCGGGCGATTTTAGTA CCAC	AACTGTGTTTCGGGTT TTGC	60.0	104	INTERGENIC	--	--	--
scaffold626_P3_464649	scaffold626	464649	GT/G	CAGTGTTTCGGATTCT GGGT	TTCAACTGGACGTTTA GGGC	60.0	769	INTERGENIC	--	--	--
scaffold626_P3_482945	scaffold626	482945	GAA/GAAA	TACATTGGACTTTTCG GGC	AATTGTGTTTCAGGTT CCGC	59.9	855	INTERGENIC	--	--	--
scaffold626_P3_485600	scaffold626	485600	TAAA/TAA	ACGGTATTTTCGTACAAG CCG	GATGAAATCGAGGACC AGGA	60.0	694	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 (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
scaffold626_P3_504911	scaffold626	504911	AG/A	CTATGTTTTTGGTCCG CGT	GTTTCGTACCCCTCGA CAAA	60.0	930	INTERGENIC	--	--	--
scaffold626_P3_512589	scaffold626	512589	ATTTA/ATTTAGGGTTTA	CCCGACAAAACGGAC TAAA	ATAACCCGAACCTCAA ACCC	60.0	359	INTERGENIC	--	--	--
scaffold626_P3_522371	scaffold626	522371	CTTT/CTT	TTTGTGAGGGGTACG AAAC	GGTCCTCGATTCATC TGGA	60.0	691	INTERGENIC	--	--	--
scaffold626_P3_524724	scaffold626	524724	ATTTTTTTTTT/ATTTTTTTT	AAATCCCCCGAAAATAC CAG	TCCAGATCAAATCGAG GACC	60.0	670	INTERGENIC	--	--	--
scaffold626_P3_527539	scaffold626	527539	A/AC	CTCGACGAAATCTAA AGCG	GATGAAATCGAGGACT GGGA	60.0	683	INTERGENIC	--	--	--
scaffold626_P3_55533	scaffold626	55533	CTATT/CT	TGAACTCCTTTGTCCTT TGGA	TCATTGCTCCCCGTA ATAG	59.7	320	DRR	Ca_25170	--	--
scaffold63_P3_5151	scaffold63	5151	GAAAAAAAA/GAAAAAAAAA	CTGCATGCTGGGAGTA AACA	TCTATTCATCGTCTTG CCG	59.9	233	INTERGENIC	--	--	--
scaffold63_P3_59319	scaffold63	59319	TAA/TAATAAA	CGAGGTAAGGGGTGAG ATGA	AGGTTTGTGACACCCT CCCT	60.1	481	INTERGENIC	--	--	--
scaffold63_P3_64455	scaffold63	64455	ATT/ATTTTTTTT	ATTGAATCCGGAAGGT GTTG	GCCACAAAATTGTTCC AAAA	59.8	507	INTERGENIC	--	--	--
scaffold631_P3_53707	scaffold631	53707	GC/GCC	AAGCACACCTATTGGAT GCC	TCATTTTCGTCTCCCT TTG	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold631_P3_62636	scaffold631	62636	A/AAG	CAAATGACACAAACAC GCCT	AGGTCATTTTCGTCCT CCCT	59.6	486	INTERGENIC	--	--	--
scaffold637_P3_107635	scaffold637	107635	ATT/ATTT	GCCTTGAGGAATCGGT ATCA	GTGTGAATGCAACCTT CCCT	60.0	313	INTERGENIC	--	--	--
scaffold637_P3_142086	scaffold637	142086	TATTAT/TATTATCATTAT	TCCAACTTGCAATTGTGA TCC	TTTGGCACAGTGCTT CATT	59.5	748	INTERGENIC	--	--	--
scaffold637_P3_188092	scaffold637	188092	AACA/AA	TGCGTTGAGAATTTTGC ACT	GGATTTGGGATTTGGG ATTT	59.5	559	INTERGENIC	--	--	--
scaffold637_P3_65300	scaffold637	65300	AAT/AATCGTGACAT	AGGTTTGATTTTGTGCC TGG	GGCCAAACAGGACACA TCTC	60.0	557	INTERGENIC	--	--	--
scaffold6382_P3_1419	scaffold6382	1419	CTCCCTATGCTT/CT	AGGTCATTTTCGTCCTC CCT	CAAACACAGCTTTTGG ATGC	59.9	181	INTERGENIC	--	--	--
scaffold639_P3_11141	scaffold639	11141	ATAGAAAGCGTAGAAAGCG/ATAGAAA GCG	TGGTGCAATTTACTTTC TCGG	TAGTCGGCCACAAGAA GACA	60.1	425	INTERGENIC	--	--	--
scaffold639_P3_11325	scaffold639	11325	T/TC	TGGTGCAATTTACTTTC TCGG	TTCGGTTCTTGTTTGC CTTT	60.1	783	INTERGENIC	--	--	--
scaffold639_P3_160230	scaffold639	160230	GACCCCTTAACCCTTAACCCTTAACC/G ACCCTTAACCCTTAACCCTTAACCCTT AACC	TGGGTTTAGGGTGTGT TTTGA	TTTGGGTTTCAGGTT TAAGG	60.2	392	INTERGENIC	--	--	--
scaffold639_P3_54009	scaffold639	54009	CATATATATATATATATATATATATAT ATATATATATATATATATATATATAT/ CATATATATATATATATATATATATAT ATATATATATATATATATAT	AGGCAGTGAGAGGAAG GACA	TGAGCTGCGACGAGA GTAGA	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
scaffold641_P3_18357	scaffold641	18357	TAAAAAAAA/TAAAAAAAAA	ATGTTCAATCCAATGGCA CAA	AGGTCATTTTCGCTCT CCCT	59.8	200	INTERGENIC	--	--	--
scaffold642_P3_171116	scaffold642	171116	CC/CCGCTCTTCCAAGTTTTC	GGCTCTGTTGGTCAGC TTTC	AAAATTGGGCTCGCTA GGTT	60.0	157	INTERGENIC	--	--	--
scaffold642_P3_17365	scaffold642	17365	TAAAAAAAA/TAAAAAAAAA	GTTTGGCGTTGGTT CACT	TTTTGAATGCGAGAGT TTCAA	60.0	317	INTERGENIC	--	--	--
scaffold642_P3_255270	scaffold642	255270	AT/AGGCTCTGTGATAGACT	TGATTTAAGGTGTTGG CACG	GGCAAAGCCTAATTTC CACA	59.6	730	INTERGENIC	--	--	--
scaffold642_P3_27247	scaffold642	27247	TGATTGGTTTGTGAGATTGGTTTGT TTG/TGATTGGTTTGTGAGATTGGTT TGTTTGAGATTGGTTTGTGTTG	GAGAAGCGAAAGCGAA GAGA	GGAAGGGTAGAACGTA GGGC	60.0	451	INTERGENIC	--	--	--
scaffold642_P3_27311	scaffold642	27311	T/TAAGATTGTT	GAGAAGCGAAAGCGAA GAGA	GGAAGGGTAGAACGTA GGGC	60.0	451	INTERGENIC	--	--	--
scaffold642_P3_285620	scaffold642	285620	CTTTTTTT/CTTTTTTTT	TCATGCATACATGGGC CTTA	GGCGTTTAGTTTTTGG GTCA	59.9	670	INTERGENIC	--	--	--
scaffold642_P3_314115	scaffold642	314115	GTTTTTTTT/GTTTTTTTTT	CTCCAGGTGAGATGGT GGAT	TCGAGCATGATTGGAA CAAA	59.9	693	INTERGENIC	--	--	--
scaffold642_P3_533552	scaffold642	533552	TAA/TAAA	CAATTCCACACAATCA CCA	GTGGCACCTCGGTAA CAGT	60.2	301	INTERGENIC	--	--	--
scaffold642_P3_535102	scaffold642	535102	AATATATATATATATATATATAT/A ATATATATATATATATATATATAT	AAATGGAGGAGAAGGA GGGA	ATTTTGGTTCGGAGGC TTTT	60.0	421	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 (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
scaffold642_P3_573297	scaffold642	573297	ATTTTTTTTTTT/ATTTTTTTTTT	AGGCCTCATCACAAATC AACC	GCGCATTTTCTAGGCT TGTC	59.9	899	INTERGENIC	--	--	--
scaffold642_P3_598298	scaffold642	598298	AAATAATAATAATAATAATAATAAT AATAATAA/AAATAATAATAATAATA ATAATAATAATAA	AAGCGATTTCACGAA CTGAA	CGGTATGAGGTGTCAT GGCT	59.9	443	INTERGENIC	--	--	--
scaffold642_P3_60062	scaffold642	60062	AATATATATATATATATATATATATA/ AATATATATATATATATATA	TATTTTGGGATCTTGGC TCG	CGTAGCGTGGTAGTGA GCAA	60.0	619	INTERGENIC	--	--	--
scaffold642_P3_612481	scaffold642	612481	ANNNNNNNNNN/ANNNNNNNNN	AATGCCCAACCATTGTT GTTC	TGCAGGAGAACACGAT CAAG	60.6	308	INTERGENIC	--	--	--
scaffold642_P3_68334	scaffold642	68334	ATTT/ATT	GGACCAAAATTCGGTTT GAA	TTTTGCATGCGTTCAT CATT	59.8	754	INTERGENIC	--	--	--
scaffold642_P3_72377	scaffold642	72377	GAAAAAAAA/GAAAAAAAA	AGGCTCAATTTGTCTCC ACC	TTCCGGAGTGTTTTGG TGTT	59.1	583	INTERGENIC	--	--	--
scaffold642_P3_79362	scaffold642	79362	CGTC/CGTCGTGTAGGTC	TTGGTGTGGTTTTGTG GAA	CACATATCACGGGTCA GCAC	59.8	375	INTERGENIC	--	--	--
scaffold6429_P3_4894	scaffold6429	4894	CCTA/C	GGGTGGACGAAATGA GCTA	TGTGTCATTGGATTG CATT	60.1	537	INTERGENIC	--	--	--
scaffold643_P3_56303	scaffold643	56303	TAAAA/TAAA	AGTGTGGATGGCAGGA AATC	TCCGATTGGATTTCA GGAC	59.9	689	INTERGENIC	--	--	--
scaffold643_P3_71253	scaffold643	71253	G/GC	CCACATTCTTAACGCCC AGT	CATTGCGAACGGAGAT TTTT	60.0	446	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 (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
scaffold645_P3_192988	scaffold645	192988	G/GTGGC	CCTCAAACGATTTTCTG GGA	GGTGCCACTCTCTGG TTAG	60.0	514	INTERGENIC	--	--	--
scaffold645_P3_224616	scaffold645	224616	AAATAATAATAATAATAATAATAAT AATAA/AAATAATAATAATAATAATA ATAA	AGGGTTTGAGGAGCG TAAT	CATCCTTCCTCCCTC TTTC	60.0	143	INTERGENIC	--	--	--
scaffold645_P3_287773	scaffold645	287773	TAAAA/TAAAA	AGGGAGGACGAAATG ACCT	GCGTGTTTGTGTCATT GGAC	59.9	348	INTERGENIC	--	--	--
scaffold645_P3_288041	scaffold645	288041	AC/A	GTCCAATGACACAAACA CGC	TTGGTATTTTCGCTCG CCC	60.0	692	INTERGENIC	--	--	--
scaffold645_P3_62567	scaffold645	62567	CTTT/CTTTT	TACTCAGACGCCAA AAGC	CTTGCTTCGGTCTACA AGGG	60.4	609	INTERGENIC	--	--	--
scaffold645_P3_6773	scaffold645	6773	AATATATATATATATATATATAT/AAT ATATATATATATATATATATATAT	AGGGGATGCTACTTGG GAGT	CTTGATTCCCCCATTTT GAC	60.0	841	INTERGENIC	--	--	--
scaffold645_P3_87205	scaffold645	87205	AAATGCAATGCAATGCAATGCA/AAAT GCAATGCAATGCAATGCAATGCAATGC A	ACTGCAATTCACAAAC GCA	GAGGACAAGGCCAATT TGAA	60.3	416	INTERGENIC	--	--	--
scaffold647_P3_200535	scaffold647	200535	A/AT	CAAGCTGTCGGTTGAA GACA	AACAATCTCCCCCTTTT TGG	60.0	603	DRR	Ca_27495	--	--
scaffold648_P3_3114	scaffold648	3114	T/TG	GTGCGTTTGTGTCATT GGAT	CGGAGGACGAAAATGA CCTA	59.4	605	INTERGENIC	--	--	--
scaffold6480_P3_530	scaffold6480	530	ATTTT/ATTT	TAATCGATCATCCCAGA CCC	TACAATTGGGCTCCTT CACC	59.7	900	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 (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
scaffold6480_P3_672	scaffold6480	672	CTTTTTTTTTTT/CTTTTTTTT	AGAAACATTGACGG TCCT	TACAATTGGGCTCCT CACC	59.6	612	INTERGENIC	--	--	--
scaffold649_P3_685	scaffold649	685	TAAAA/TAAAA	AGGGAGGACGAAATG ACCT	CTTATCCATCCGGGT TTTT	59.9	490	INTERGENIC	--	--	--
scaffold651_P3_30345	scaffold651	30345	CCAATCTTGATATTCAAT/CCAATCTT GTATATTCAATCTTGATATTCAAT	TTTTCGTCCTCCCTAGG CTT	TTGGATGCACAAGATT GGTT	60.2	162	INTERGENIC	--	--	--
scaffold653_P3_136487	scaffold653	136487	TT/TTATTATTATTATTAT	TCGATTTCTTTCCGTC CAA	AAATGAAAACAGTCAC CCGC	60.6	496	INTERGENIC	--	--	--
scaffold653_P3_171379	scaffold653	171379	CAAAAAAAAA/CAAAAAAAAAAAAA	GGCTATATCTTGCCCG CTTT	ATGTCACCCGTGGATC CTTA	60.6	368	INTERGENIC	--	--	--
scaffold653_P3_177729	scaffold653	177729	CCCTC/CCCTCTCCTC	GGTCTGTTTGGGAGGA GGAT	GCAGAGAAAACTCGG CAAC	60.3	379	INTRON	Ca_24312	A	--
scaffold653_P3_61589	scaffold653	61589	G/GCCCCCAATCTT	AGACATGTGTTACCGT GCCA	GCTCGGGTTTATGGA ATGA	60.0	635	DRR	Ca_24302	P	bHLH
scaffold6568_P3_856	scaffold6568	856	CAAAAAAAAA/CAAAAAAAAAAAAA	GCCAAAACGGATGAAG TTGT	TTGATGTTGCTGCGTC AAGT	60.0	438	INTERGENIC	--	--	--
scaffold661_P3_200997	scaffold661	200997	GTTTTTT/GTTTTTTTT	TACCCTGTGGATGGGA ATGT	AAGACCATCTGTGTG GAGC	60.1	460	INTERGENIC	--	--	--
scaffold661_P3_208026	scaffold661	208026	TTATATATATATATATATATATAT/TT ATATATATATATATATATATATATAT	GCGCCAACTCCTAC TCTT	TTTGTTTTGGCAGCTT GTTG	59.5	473	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CDC Frontier/PfII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (°C)	Expected 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_P3_293036	scaffold661	293036	TTATATATATATATATATATATATATA TATAT/TTATATATATATATATATATA TATATATATATATATATATATATAT	TGGCAAGGATCTGA ATAG	TGCATTTTACAGCGCT TTTG	60.0	620	DRR	Ca_23950	--	--
scaffold661_P3_474773	scaffold661	474773	GTATATATATATATATATATAT/GTAT ATATATATATATATATATATAT	CGTAGCGTGGTAGTA GCCAA	GTTTTGGATTTTGGCT TGGA	60.1	668	INTERGENIC	--	--	--
scaffold661_P3_527567	scaffold661	527567	GTATATATATATATATATATATATAT AT/GTATATATATATATATATATATAT	CAAGTCCGGTGGATGA GAGT	TTCGCACGTTTCGAGC TTAT	60.1	609	INTERGENIC	--	--	--
scaffold661_P3_71166	scaffold661	71166	GTAATAATAATAATAATAATAATAA TAATAATAATAATAATAAT/GTAATA ATAATAATAATAATAATAATAATAA TAATAATAATAAT	TGGAATCCAACCCAAG GTAG	ACACCCATACAATGT GCGA	59.8	760	INTERGENIC	--	--	--
scaffold661_P3_754358	scaffold661	754358	AT/A	TACGCTACTCCACAAC CCAA	CCTCCATCGAATGCTT GAAT	60.0	419	INTERGENIC	--	--	--
scaffold662_P3_3614	scaffold662	3614	ATTTTTTTT/ATTTTTTTTT	TGCAAAGAATGCTGCA TGA	TTTGTGATCGTCGTC TTTG	60.1	592	INTERGENIC	--	--	--
scaffold662_P3_50819	scaffold662	50819	GAAAAA/GAAAAA	TGGGAAATCGATTGGG TAAG	TCATGTTAATCGGAGT GCCA	59.8	252	INTERGENIC	--	--	--
scaffold665_P3_16345	scaffold665	16345	TA/T	GGTCTCGATTTCATCT GGA	CCAGGTTCCGTGTCAG ATT	60.0	607	INTERGENIC	--	--	--
scaffold6694_P3_1671	scaffold6694	1671	TAAAAAAAA/TAAAAAAAAA	CCCACACTACGACCAC GTТА	CGTAACTCGAATGAAC GGAAA	59.5	671	INTERGENIC	--	--	--
scaffold670_P3_186357	scaffold670	186357	AATATATA/AATA	AAAGTTTGACTGCATAA CGAAGA	GAACATTGAGTTGTCA AATAAAGATG	58.1	524	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 (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
scaffold670_P3_197831	scaffold670	197831	T/TG	TGGCCAATGATCCAAG AGAT	CCGACAAAATGGACC AAAA	60.4	823	INTERGENIC	--	--	--
scaffold670_P3_197970	scaffold670	197970	AAAT/AAATAAT	TGGCCAATGATCCAAG AGAT	CCGACAAAATGGACC AAAA	60.4	823	INTERGENIC	--	--	--
scaffold6719_P3_505	scaffold6719	505	GTTTGT/TTT/GTTT	TGTTGGTTCATTTTGT GGTT	GCTTTGCTGTTTCTTT GCAT	60.1	532	INTERGENIC	--	--	--
scaffold672_P3_202249	scaffold672	202249	ATT/ATTT	CGATTGTGTTTGTCACA GGG	TCATTTTCGTCTCTCTT TGG	60.0	653	INTERGENIC	--	--	--
scaffold672_P3_22852	scaffold672	22852	AGGGGGGG/AGGGGGG	CAACGTAAATGAGAAG CGCA	GTCATCAACCACCGAG ACCT	60.0	401	INTERGENIC	--	--	--
scaffold6720_P3_5246	scaffold6720	5246	CA/CAA	TTTTCGTCTCCCTAGG CTT	CAACTATTGGATGCGC AAGA	60.2	470	INTERGENIC	--	--	--
scaffold6720_P3_536	scaffold6720	536	TAAAAAAAAA/TAAATAAAAAAAAAA	CGATACTCACCCCTCG TTGT	ATGTGACACCCTAAAC CCCA	60.0	338	INTERGENIC	--	--	--
scaffold674_P3_100789	scaffold674	100789	TAAAAAAAAA/TAAAAAAAAA	CCGTCTTATTCGTCTCG GTC	CACACTTGTTAATGCG TTCTTCA	59.7	622	INTERGENIC	--	--	--
scaffold674_P3_112942	scaffold674	112942	TAAAA/TAAA	ATTTTCGGATGGCATT CAG	TGGATCATCACGATGG ATTG	59.9	633	INTERGENIC	--	--	--
scaffold674_P3_149842	scaffold674	149842	TAGAAGA/TA	AGAATGAGAAGGGAAT GGACA	TCAAACCAATATGAA GGGG	58.6	293	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
scaffold674_P3_150228	scaffold674	150228	TAAAAAAAAAAAAA/TAAAAAAAAA	CATGACCCCTTCATATT GGG	CTCGTTGTGGTTGTTG GTTG	60.0	294	INTERGENIC	--	--	--
scaffold674_P3_151831	scaffold674	151831	TGGGGG/TGGGGGGG	CTGAAACCTTCGAAAC CCAA	TTTACTTGGCCCATTTCTG	60.1	537	INTERGENIC	--	--	--
scaffold674_P3_156406	scaffold674	156406	CTTTTTTTTTTT/CTTTTTTTTTT	AATGTACCCGCGAATTT TTG	AAAAACGACAATTATTT TGGAACAA	59.8	762	DRR	Ca_20156	R	--
scaffold674_P3_174887	scaffold674	174887	TG/TGG	TGAAGCAGTCCATGGT GAAG	AGCAGAACCAGAACCA AACC	59.8	968	INTERGENIC	--	--	--
scaffold674_P3_221593	scaffold674	221593	TAAAAAAA/TAAAAAA	AGCGTCACAGCCTATC CATC	AGCACAATCGGTTGAC GAAT	60.2	743	INTERGENIC	--	--	--
scaffold674_P3_237594	scaffold674	237594	GATATATATATATATATATATATATA TATA/GATATATATATATATATATATA TATATA	AGAATCATACGCCAAC GAGG	AAACCCGAACCAACCA TTCT	60.1	911	INTERGENIC	--	--	--
scaffold674_P3_237869	scaffold674	237869	TAAAAAAAAAAAAAAAAA/TAAAAAA AAAAAA	GTTTACCTCGATTGTCG CGT	ATCAAAATCACAAACC AGCC	60.1	858	INTERGENIC	--	--	--
scaffold674_P3_24300	scaffold674	24300	GAAAAAAAAA/GAAAAAAAAA	GAAGATGAAAGGTTTG GGCA	GCACAAGGGGATTGTA GGTA	60.1	537	INTERGENIC	--	--	--
scaffold674_P3_243419	scaffold674	243419	CAAAAAA/CAAAAAA	AGTTCAAAAGCCGCCA ACTA	CACGAGCATTGTGAAA CTGG	59.9	388	INTERGENIC	--	--	--
scaffold674_P3_248531	scaffold674	248531	GAT/GATAT	ACTTTTATGTGCGTTTG ACTGA	TCCAACCTCCCTTCCT TTTT	57.5	534	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
scaffold674_P3_253414	scaffold674	253414	CTTTTT/CTTTTT	TGGCAAAATCAATACAC CTCA	TTGGTTTCGGCTAGAA ATGG	59.0	426	INTERGENIC	--	--	--
scaffold674_P3_352857	scaffold674	352857	ATTTTT/AT	TCTCACGGTTACGACA CCAA	AGTAGCAGGCACGACC TCAT	60.2	455	INTERGENIC	--	--	--
scaffold674_P3_394555	scaffold674	394555	A/AT	CGGCTACGTCACCTCT TCAT	TGCAAAATTCATAC GGTG	60.3	410	INTERGENIC	--	--	--
scaffold674_P3_401296	scaffold674	401296	A/ATTCGAACG	GAGATGGAGTACGGGC TTGA	ATATCCTGAGCGTCGA TTGG	60.2	310	INTERGENIC	--	--	--
scaffold674_P3_401473	scaffold674	401473	TAAAA/TAAA	TGCATTAGTCGATGTC CCAA	AATCGATTCGCGTTT GTTC	60.1	134	INTERGENIC	--	--	--
scaffold674_P3_406179	scaffold674	406179	ATTTTTTTTT/ATTTTTTTTT	CGAAAGCATTTGTACCA GCA	TGCGAGTCGATTATGC GTAG	59.9	807	INTERGENIC	--	--	--
scaffold674_P3_406214	scaffold674	406214	ATTTTTTTTT/ATTTTTTTTT	GCATTTGTACCAGCATA ACCA	TGTTGAAATGCGGAT GTGT	58.6	538	INTERGENIC	--	--	--
scaffold674_P3_413787	scaffold674	413787	TAAAAAAAAA/TAAAAAAAAA	CAAAACCAACAAATAT TGCTTCA	CAGTGCGATGGAGAAA TCAA	60.3	470	INTERGENIC	--	--	--
scaffold674_P3_42963	scaffold674	42963	T/TG	ATGCTTCCCACTAC GGC	TGCTTGAGTTGAATG AACG	60.0	694	INTERGENIC	--	--	--
scaffold674_P3_431883	scaffold674	431883	CTTTTT/CTTTTT	AACTCCCTTTTGCTG AAT	TCGTTTTGTTGGACCC TTTC	59.9	802	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 (°C)	Expected 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_P3_437989	scaffold674	437989	TAACAACAACAACAACAA/TAACAA CAACAACAAACAACAA	GCATAAATCGTGCTCG ACAA	CAGATTCAACCAAAGC AGCA	59.8	333	INTERGENIC	--	--	--
scaffold674_P3_441706	scaffold674	441706	GATATATATATATATATA/GATATATA TATATATATATATA	ATGTGAATCCCACCAG GAAA	GAAAGAGCGCTGCAAA AGAC	60.2	533	INTERGENIC	--	--	--
scaffold674_P3_455858	scaffold674	455858	ATTTTTTTTTTT/ATTTTTTTTTT	ATTGTGGTTCATGGT CGAT	TAGTTGCAGTTTTGGT CCCC	60.1	476	INTERGENIC	--	--	--
scaffold674_P3_476011	scaffold674	476011	GTATATATATATATATATATATATAT/ GTATATATATATATATATATATAT ATATATAT	TGAATTTGTGCTCTTGG TGG	AGTTTGGGAGGAAAGG GAAA	59.7	806	INTERGENIC	--	--	--
scaffold674_P3_476249	scaffold674	476249	GTTTTTTT/GTTTTTTT	TCGACATTGTGCCCTT TGA	CGAGTTGGGTTGTGGA AGTT	60.1	543	INTERGENIC	--	--	--
scaffold674_P3_524575	scaffold674	524575	CTTTTTTTTTTT/CTTTTTTTTTTT	TGCACTTATTGGGAGA ATCACA	TCCGGGTAAATAACTG TGGG	60.5	763	INTERGENIC	--	--	--
scaffold674_P3_529799	scaffold674	529799	A/AC	CACCTAAGTTGGCGGG TTAC	CGCCTCGTGTGACCTA AGTT	59.5	290	INTERGENIC	--	--	--
scaffold674_P3_531873	scaffold674	531873	GAAAAAAA/GAAAAAA	CTCGTTTCACGGGTCA TTTT	TTTTCCATCCCAAATT CCA	60.0	572	INTERGENIC	--	--	--
scaffold674_P3_579395	scaffold674	579395	ACCAAAT/ACCAAATACATATTTAAATC CAAAT	AATGTGTCTTTGGTCCC TGC	TGGTTCTGAAGCACAT GGAG	60.0	841	INTERGENIC	--	--	--
scaffold674_P3_617218	scaffold674	617218	C/CTCATTTGTTTT	GACAGCTCAACCCITT CCAA	CACCCAATCCAAGCTA CGTT	60.2	534	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 (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
scaffold674_P3_619278	scaffold674	619278	AAAGACTTGTAA/AAA	TCAATGATGGCTACATG GGA	CCCTTCTTAAGCTTC CTGG	59.9	753	INTERGENIC	--	--	--
scaffold674_P3_624095	scaffold674	624095	TAA/TA	CCTCGGATCTGGATTCT TCA	GGTCAAGCTTAAGCC ACTCA	60.2	271	INTERGENIC	--	--	--
scaffold674_P3_630014	scaffold674	630014	CATATATATATATATAT/CATATATATAT ATATATAT	GCGAGGATTGGTATCG TCAT	GCAAAACACATTCAAA ATCCAA	59.9	263	DRR	Ca_20173	BD	--
scaffold674_P3_648615	scaffold674	648615	GCC/G	TCGTGCCTCAAACTCA AGA	CATGGGCGTTTACATC ACAC	59.6	496	INTERGENIC	--	--	--
scaffold674_P3_65243	scaffold674	65243	TAAAAAAA/TAAAAAAA	CGCAGTTTTTGATGC AGTA	AGGTCGTTTTGGTCCT CCTT	59.9	414	INTERGENIC	--	--	--
scaffold674_P3_758115	scaffold674	758115	AGG/AG	CTCTCATCTGAGGGCA AAGC	TCGATTGGCTTAAAC CTGG	60.1	465	INTERGENIC	--	--	--
scaffold674_P3_773745	scaffold674	773745	TAAAAAAA/TAAAAAAA	CTCCAACGCCCACTAA CATT	CAATACTCATCTTCCC CATCA	60.0	243	INTERGENIC	--	--	--
scaffold674_P3_777820	scaffold674	777820	CTT/C	TGCTATTCCAAATGGAA GCC	ATTGCATTAGGGTGTT TGGC	60.0	842	INTERGENIC	--	--	--
scaffold674_P3_804279	scaffold674	804279	TAAAAAAA/TAAAAAAA	ACCCACGTGAACACTAC AACC	CTTCACGGGAAAGAAA TGGA	59.7	639	INTERGENIC	--	--	--
scaffold674_P3_98071	scaffold674	98071	CTTTTTTTTT/CTTTTTTTTT	GAAGGATGGCACGTGT TTTT	TGACGTGTATTTGCGT AGTGC	60.0	405	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
scaffold675_P3_15473	scaffold675	15473	TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA/ TATAATAATAATAATAATAATAATA ATAATAATAATAATAATAATAATAA TAATAATAA	TGGCATGCTTGTGTAC GAAT	TTGAGTTATCTCCCCA ACCG	60.1	584	INTERGENIC	--	--	--
scaffold675_P3_81863	scaffold675	81863	CTTTTT/CTTTTT	TATCAGAGTTCTCCCA CCG	AAACATGACGAGGGCA TTTA	60.1	895	INTERGENIC	--	--	--
scaffold675_P3_82372	scaffold675	82372	T/TC	TAAATGCCCTCGTCATG TTT	CCCCTTCCACGGCTA TTAT	58.1	444	INTERGENIC	--	--	--
scaffold675_P3_89761	scaffold675	89761	A/AT	AGATGCGCTTGCTTTT CAT	GCTAAATCACCGCAA GAGG	60.0	400	INTERGENIC	--	--	--
scaffold676_P3_104639	scaffold676	104639	ACC/ACCC	GGTCCTCGATTTCATCT GGA	GACACTCGCTCGAAAA GTCC	60.0	686	INTERGENIC	--	--	--
scaffold676_P3_121385	scaffold676	121385	G/GTT	GGTCCTCGATTTCATCT GGA	ATAACCGAACCTCAA ACCC	60.0	610	INTERGENIC	--	--	--
scaffold676_P3_146521	scaffold676	146521	CGG/CGGG	TCCTGATCAAATCGAG GACC	CGGACCAAATGATGGC TAGT	60.0	489	INTERGENIC	--	--	--
scaffold676_P3_14755	scaffold676	14755	TC/TCTCC	TCCAGATGAAATCGAG GACC	CTTTTCGGCAATTTT CGTA	60.0	450	INTERGENIC	--	--	--
scaffold676_P3_152112	scaffold676	152112	TCC/TC	TAAGGTTGTCTGGGA GGTG	CCGTGCTAATCTCTGC TTCC	60.0	532	INTERGENIC	--	--	--
scaffold676_P3_51294	scaffold676	51294	TCC/TC	GCGGAACCTGAAACAC AGTT	GATGAAATCGAGGACC AGGA	60.2	476	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 (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
scaffold676_P3_57777	scaffold676	57777	TCC/TC	GATGAAATCGAGGACC AGGA	TTCATCTGGACTTTTG GGC	60.0	380	INTERGENIC	--	--	--
scaffold676_P3_72988	scaffold676	72988	TAA/TAAA	CTTTTCGGCGATTTTT GTA	TCCTGATGAAATCGAG GACC	60.1	162	INTERGENIC	--	--	--
scaffold676_P3_84534	scaffold676	84534	GCAC/GCACAAACAC	TTTTCGGATTAGACGAT GGC	GATGAAATCGAGGACC AGGA	60.0	796	INTERGENIC	--	--	--
scaffold6760_P3_1141	scaffold6760	1141	ATTTTTT/ATTTTT	AAATGTGTCCATCTCAG CCC	TCAAAACTCAAGGGG CAAT	59.9	545	INTERGENIC	--	--	--
scaffold6760_P3_618	scaffold6760	618	TC/T	TGTTTTCAAAGGGGG TCAG	GGGCTGAGATGGACA CATTT	59.9	621	INTERGENIC	--	--	--
scaffold6760_P3_671	scaffold6760	671	T/TCTG	TGTTTTCAAAGGGGG TCAG	GGGCTGAGATGGACA CATTT	59.9	621	INTERGENIC	--	--	--
scaffold6760_P3_806	scaffold6760	806	AGCCAAGCTCGCCAAGC/AGCCAAGC	TGTTTTCAAAGGGGG TCAG	GGGCTGAGATGGACA CATTT	59.9	621	INTERGENIC	--	--	--
scaffold6760_P3_908	scaffold6760	908	CTTCATTTT/CTT	TGTTTTCAAAGGGGG TCAG	GGGCTGAGATGGACA CATTT	59.9	621	INTERGENIC	--	--	--
scaffold678_P3_12833	scaffold678	12833	TTAT/TT	CGCCGCCCAATAAAGT ATTA	TTTGGTGAGAATTCC AAGG	59.9	276	INTERGENIC	--	--	--
scaffold678_P3_39763	scaffold678	39763	TAGTTATTAAGTTATT/TAGTTATT	AGGAGTTTGAGCATCG CATT	ATCCACCCCTAAAAC CAAG	59.8	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 (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
scaffold678_P3_42464	scaffold678	42464	TAAAAA/TAAAAAAA	GCGCACAATAGATGGG TTTA	TTTCCAACGAGTCCA CCTC	58.7	816	INTERGENIC	--	--	--
scaffold678_P3_71231	scaffold678	71231	CTTTTT/CTTTTT	TTTGTGTGCGTTTGAC TGA	CCCTTCAACTCTCTT CCCT	58.9	585	INTERGENIC	--	--	--
scaffold678_P3_8137	scaffold678	8137	TTAA/T	TTAGGTGCGCTTGACT GATG	GTTTTGGCGTTGGTTT CACT	60.0	775	INTERGENIC	--	--	--
scaffold678_P3_81722	scaffold678	81722	TAAAAAA/TAAAAAA	AGGAAGCCCAAGTTCC AAAT	AGAAAGTGTTGACGGG TTGG	59.9	458	INTERGENIC	--	--	--
scaffold6782_P3_1068	scaffold6782	1068	GA/GAGAAA	GACGTTCTTTGCGGTA CCAT	CAATGTCAACCACAC ATTTTG	60.0	428	INTERGENIC	--	--	--
scaffold6782_P3_1165	scaffold6782	1165	C/CA	GACGTTCTTTGCGGTA CCAT	TTTAAATTGCTGCTAAG ATTGGT	60.0	469	INTERGENIC	--	--	--
scaffold6782_P3_544	scaffold6782	544	AC/A	ACTCACCCACATCCAA CAT	ATGGTACCGCAAAGAA CGTC	60.1	337	INTERGENIC	--	--	--
scaffold6782_P3_758	scaffold6782	758	ATTTTTTT/ATTTTTTTTT	GACGTTCTTTGCGGTA CCAT	TCAAACGCTCACACAC ACAA	60.0	292	INTERGENIC	--	--	--
scaffold6790_P3_1414	scaffold6790	1414	C/CA	TCCTTGACCCCAATTG TAG	TTTTGGGGTTTAGGGT GTCA	59.9	356	INTERGENIC	--	--	--
scaffold6790_P3_2258	scaffold6790	2258	ACC/ACCC	TTCAAATTGGCCTTGTC CTC	CATAGACCAACGAGGG GAGA	60.1	317	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
scaffold6790_P3_704	scaffold6790	704	ACATCATC/ACATCATCATC	TAGTTATGCTGAGGG ACGG	CTACGAATTGGGGTCA AGGA	60.1	630	INTERGENIC	--	--	--
scaffold6791_P3_26853	scaffold6791	26853	AC/A	CAGCAGCAGGAAAACA ACAA	TGGGTATCAAAAATGG GGAA	60.0	875	INTERGENIC	--	--	--
scaffold681_P3_25420	scaffold681	25420	TTTATTATTATTATTA/TTTATTATTATTA TTATTATTA	ACGTTAAGGCATGAGT TGGG	CATAGTTGTGTGGTGC GTCC	60.0	537	INTERGENIC	--	--	--
scaffold682_P3_16975	scaffold682	16975	G/GA	AATCGATTGACGTTTTT GCC	TTGATCCTTGCACTCA CTCG	59.9	789	DRR	Ca_23181	--	--
scaffold682_P3_239210	scaffold682	239210	ACC/AC	TCCAAAGCATCACGTAT CCA	TGCGTGACAGGAACAA GAAG	60.1	667	DRR	Ca_23188	R	ERF
scaffold682_P3_239323	scaffold682	239323	AGATGATG/AGATG	CAACTCCCCCTGCAAA CTTA	TGCGTGACAGGAACAA GAAG	60.1	417	DRR	Ca_23188	R	ERF
scaffold682_P3_252987	scaffold682	252987	AATATATATATATATATATATATATATATATAT ATATATATATAAATATATATATATAT/AA TATATATATATATATATATATATATATATATAT ATATATAAATATATATATATATAT	TATTCAGATCCCTTGCC CAG	TGGGTGCTATTTGCAA TCAA	60.0	626	INTRON	Ca_23190	--	--
scaffold682_P3_302365	scaffold682	302365	A/AGAGAGAT	GCTGCAAAAGTCAACG TCAA	CACCTTGAACTTTGG AGGA	60.0	177	INTERGENIC	--	--	--
scaffold682_P3_502352	scaffold682	502352	TCAATCGATTGGGCAATCGATTGGGC AATC/TGGGCAATCGATTGGGCAATCG ATTGGGCAATC	CTCTCATCTGAGGGCA AAGC	CTCGTGTTCGTTCTGTG AGAA	60.1	959	INTERGENIC	--	--	--
scaffold682_P3_506392	scaffold682	506392	GATATATATATATATATATATATATATATATAT TATATAT/GATATATATATATATATATATATAT ATATATATATATATATATATAT	AGGGAGGTTTGTGTTT GACG	TTTAATGTGTTGCGGG TGAA	60.0	408	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
scaffold682_P3_526695	scaffold682	526695	AAACAAAACAACAAAACA/AAACAAAAC AACAAAACAACAAAACA	CAACAATCTCCCGTTT TTG	TGGTCGACAAGCAACT GAAG	60.3	688	DRR	Ca_23195	--	--
scaffold682_P3_539867	scaffold682	539867	CT/CTTT	TCGCCATTGTA CTGCT CTG	CCATGCCTCCAATCAA AAGT	60.0	886	INTERGENIC	--	--	--
scaffold682_P3_540419	scaffold682	540419	TGAG/TGAGAG	ACTTTTGATTGGAGGC ATGG	TAATATGGGAGAGGG GAGG	59.9	665	INTERGENIC	--	--	--
scaffold682_P3_540592	scaffold682	540592	GTTTTTTTTT/GTTTTTTT	ACTTTTGATTGGAGGC ATGG	TAATATGGGAGAGGG GAGG	59.9	665	INTERGENIC	--	--	--
scaffold682_P3_540642	scaffold682	540642	T/TC	ACTTTTGATTGGAGGC ATGG	GAAGCAAACAGGGA ATGA	59.9	886	INTERGENIC	--	--	--
scaffold682_P3_540845	scaffold682	540845	A/AT	AAGGACTGGTTCACCA GCAG	GAAGCAAACAGGGA ATGA	60.3	437	INTERGENIC	--	--	--
scaffold682_P3_540957	scaffold682	540957	GAAA/GAAAA	CCTCCCCTCTCCCAT ATTA	GAAGCAAACAGGGA ATGA	60.1	241	INTERGENIC	--	--	--
scaffold682_P3_64525	scaffold682	64525	TATTTA/T	TCCCCTTTGTCTCTTG TGG	AATTACGCCAATTCA CACC	60.1	688	INTERGENIC	--	--	--
scaffold682_P3_88286	scaffold682	88286	CAATAATAATAATAA/CAATAATAAT AATAATAATAA	AGCCGAGTGAATATCA AAATGA	GTGAATGGAAGACGTC GGTT	58.7	555	INTERGENIC	--	--	--
scaffold683_P3_20681	scaffold683	20681	TAA/TAAA	GAAGGATGAAAATGGG GGTT	TTGGAAAGGCTGAAAT CTGG	60.0	670	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 (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
scaffold684_P3_40548	scaffold684	40548	CATATATATATATATATATA/CATATATA TATATATATATATA	AGGAAGAGTGGAGTTG CGAA	TTAATTTAAGGCGTTTC GGG	60.0	375	INTERGENIC	--	--	--
scaffold6846_P3_522	scaffold6846	522	T/TC	TGCATTGGTATATGGG GGTT	CGATCGACAGGAAGAG GAAG	59.9	538	INTERGENIC	--	--	--
scaffold686_P3_108734	scaffold686	108734	ACC/ACCC	CCGCGAGTAAATCCGA TAAA	CCATTCTTCTCCTTCT CCC	60.1	306	INTERGENIC	--	--	--
scaffold686_P3_108971	scaffold686	108971	GATATATATATATATATATATA/GATA TATATATATATATATATATA	GGGAGAAGGAGGAAGA ATGG	CTTGGGAAGTGGAGAG CAAG	60.0	564	INTERGENIC	--	--	--
scaffold686_P3_140001	scaffold686	140001	ATTTTTTTTT/ATTTTTTTTTTTT	AGGCTTATGATCCCCA ACA	TCGACCAACCATGTCT TTCA	59.4	262	INTERGENIC	--	--	--
scaffold686_P3_154070	scaffold686	154070	ATTTTTTTTT/ATTTTTTTTTTTT	CGAGATCGCATTCTTG TGAA	GTAACCCGTGTTGGGT GAAC	59.9	673	INTERGENIC	--	--	--
scaffold686_P3_162921	scaffold686	162921	TA/TAA	TAATTCTGGCCTGAGG ATGG	AGTCCGAGGATCACAT CTGG	60.0	417	INTERGENIC	--	--	--
scaffold686_P3_169973	scaffold686	169973	AGGGGGGGG/AGGGGGGGGGG	TCACGTATTCATACGG TTGAA	CGGGTTGAGGATTGAT CTGT	60.2	591	INTERGENIC	--	--	--
scaffold686_P3_180622	scaffold686	180622	GATATATATATATATATATATGTATA TATATATATATATATATATATACATAT ATATATATATA/GATATATATATATATAT ATATATATGTATATATATATATATATAT ATATATACATATATATATATATA	AATTTTACCGTGCAACT CGC	TCATCACAATGCAAAAT CGAC	60.1	574	INTERGENIC	--	--	--
scaffold686_P3_182712	scaffold686	182712	CTA/CTAATA	ATGGGGTTCAAACCAT GCTA	GCAAGACTTTTGCTT TTGC	60.2	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 (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
scaffold686_P3_183469	scaffold686	183469	AT/ATT	TGGATTAAATCATTCCC CCA	ATCCCTGTTGATTGTC TTCG	60.0	617	INTERGENIC	--	--	--
scaffold686_P3_183725	scaffold686	183725	TACAAAGAACTAGAAAACAAAGAACTA GAAAACAA/TACAAAGAACTAGAAAACA A	TTACGAAGCAAATCAAC AGGG	GTGGCATAGTATCGTG GCCT	60.1	332	INTERGENIC	--	--	--
scaffold686_P3_234737	scaffold686	234737	CAAAAAAAAA/CAAAAAAAAA	CATAAGGAAAGTGTGG CGGT	CATCTCACATGGTTGC ATTCT	60.0	675	INTERGENIC	--	--	--
scaffold686_P3_85531	scaffold686	85531	T/TG	TCTTGCCATTGTGTGC CAT	GGGTTTTGAGGAGTT GTCA	60.0	172	INTERGENIC	--	--	--
scaffold6878_P3_1840	scaffold6878	1840	TC/T	TGGACACGACGGTGAA ATAA	GTTTGAAATCTGACCC GGAA	60.0	704	URR	Ca_27881	--	--
scaffold688_P3_2385	scaffold688	2385	GAATT/GATT	AGGTCATTTCCGTCCTT CCT	GACACGAACACACCTC ATGG	59.9	388	INTERGENIC	--	--	--
scaffold6903_P3_17324	scaffold6903	17324	CT/CTTCGATGT	CCCACATTATAAATCGC CTCA	TCCGATATGCATCACT CTGC	59.8	470	CDS (FRAME SHIFT)	Ca_28223	--	--
scaffold6903_P3_5314	scaffold6903	5314	A/AT	GCACACCACAACAAAT GGA	GCATCCTCTGATTGTT TGCG	60.4	458	INTRON	Ca_28223	--	--
scaffold6931_P3_592	scaffold6931	592	TAAA/TAAAA	AGGGAGGACGAAATG ACCT	TGTGCATCCGATAGGT GTGT	59.9	661	INTERGENIC	--	--	--
scaffold695_P3_775	scaffold695	775	C/CTAATCAACC	CACGCCATAAAGTTTGT CCA	GGAATAGAAAGTGGAG GGTGC	59.6	674	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
scaffold6951_P3_6505	scaffold6951	6505	AT/A	GATGAAATCGAGGACC AGGA	CGGAACCCGAAACAAA GTTA	60.0	524	INTERGENIC	--	--	--
scaffold696_P3_11415	scaffold696	11415	CAAAAAAAAA/CAAAAAAAAA	GATGTGGCATCACAAA ATGC	TTGCCACTATTGGATT GGAG	59.9	224	INTERGENIC	--	--	--
scaffold696_P3_13895	scaffold696	13895	TAAAAA/TAAAAA	TGCCACCTATCACAGG TCAA	CCGCTACGGAGCTAGT GAAC	60.1	806	INTERGENIC	--	--	--
scaffold696_P3_196380	scaffold696	196380	CATATATATATATATATATATAT/CAT ATATATATATATATATATATAT	AAATGGAGGAAGGAGG GAGA	TATTTTGGATTTTGGCT CGG	60.0	437	INTERGENIC	--	--	--
scaffold696_P3_25880	scaffold696	25880	ATTTTTT/ATTTT	TTGGAATTGGAATTGG AAGG	TTCAATTGAGTTGCGA CGAC	59.7	559	INTERGENIC	--	--	--
scaffold6980_P3_65117	scaffold6980	65117	TAAAAAAA/TAAAAAAA	TCACCCCTCCATCTTAGG TGC	ATCAATGAGATGAGGT CGCC	60.1	280	INTERGENIC	--	--	--
scaffold7_P3_215103	scaffold7	215103	A/AC	TTGATCCTTGCAGTCAC TCG	TGGCACTCCGATTAAC ATGA	60.0	805	INTERGENIC	--	--	--
scaffold7_P3_254894	scaffold7	254894	CTA/CTACCCTTGTA	TTGCCATTGTTCAACAC AAAA	ACAGCAGAATGGGGTA GTGG	60.0	207	INTERGENIC	--	--	--
scaffold702_P3_153999	scaffold702	153999	A/AG	TGCTACAACCTTGGCAC CAG	TCCGCATTTTCTACC CAAG	59.9	563	INTERGENIC	--	--	--
scaffold702_P3_154693	scaffold702	154693	ATTTTTTTTT/ATTTTTTTTT	TCTTGGGTAGAAAAATG CGG	AATGAATGGGGTTGTT TTGC	60.1	639	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
scaffold702_P3_185014	scaffold702	185014	TAAAAA/TAAAAA	TAGGGTTTGCATGGT TGGT	GATGGTGAAAGAGAGA GCGG	60.2	764	INTERGENIC	--	--	--
scaffold702_P3_216004	scaffold702	216004	GA/G	CTGTTTGGGCGTCGAA TTAT	TATTTTCTCCCCTCGTT GGT	60.0	630	INTERGENIC	--	--	--
scaffold702_P3_224668	scaffold702	224668	TAAAAAAA/TAAAAAAA	GAGCGAATACTAATCC GGGC	CAGTGACCACCGTTAC ATCG	60.9	592	INTERGENIC	--	--	--
scaffold702_P3_272113	scaffold702	272113	TAAAAAAA/TAAAAAAA	GGATGCGCAAGATTGG TTAT	GGGTCATTTTTGTCTC CCCT	59.9	668	INTERGENIC	--	--	--
scaffold702_P3_281005	scaffold702	281005	GT/GTT	ATGTTAATCCAATGGCC CAA	TCAATTCGCCCTCCT TATG	60.0	783	INTERGENIC	--	--	--
scaffold702_P3_49940	scaffold702	49940	ATATTATTA/ATATTA	GTTTTCGAATCAACGAG GGA	TTTGGCTCGAAGGCTT TTTA	60.1	452	INTERGENIC	--	--	--
scaffold702_P3_55997	scaffold702	55997	CTACATACATACATACGTACATA CATAC/CTACATACATACATACAT ACATACGTACATACATAC	GGGGTCCATCACATTT GTTC	CCATGTTAGGTTTGAA CCAGG	60.0	114	INTERGENIC	--	--	--
scaffold702_P3_58687	scaffold702	58687	ACCCCCCCC/ACCCCCCCCC	TGCATGAAATGCTTGA AGG	GGTGAGGTGCTTCTGC TAGG	59.8	704	INTERGENIC	--	--	--
scaffold702_P3_99680	scaffold702	99680	ATTTTGCATAGTTTTTGCATAGT/ATT TGCATAGT	CGCTCGATAACCCCAA AATA	ATTACCGACATTGCAG AGGG	59.9	577	INTERGENIC	--	--	--
scaffold702_P3_99810	scaffold702	99810	T/TTGAAATTG	CGCTCGATAACCCCAA AATA	ATTACCGACATTGCAG AGGG	59.9	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
scaffold705_P3_13087	scaffold705	13087	AAAACCTTAAA/AAAACCTTAAACCTTA AA	CCCTATATACTATAACC CGAACCTCA	TAGGCGATTTTCGTAC CACC	59.9	374	INTERGENIC	--	--	--
scaffold705_P3_25800	scaffold705	25800	GT/GTT	TCCAGATGAAATCGAG GACC	TCCAGATGAAATCGAG GACC	60.0	416	INTERGENIC	--	--	--
scaffold705_P3_30569	scaffold705	30569	CAAAAAAAAA/CAAAAAAAAA	GGTCCTCGATTTCATCT GGA	AGGGGTACGAAAATAT CCCG	60.0	619	INTERGENIC	--	--	--
scaffold705_P3_32855	scaffold705	32855	CAAAAA/CAAAAA	CATGGAACCCGAAAGA CAGT	TCAACTAGCCGTCG TCTG	60.0	481	INTERGENIC	--	--	--
scaffold705_P3_34777	scaffold705	34777	A/ATATTGTTATT	GGTTTGACTGCATAAC CAAGA	GTAATTCATAACGAAG ACAAATTAACA	57.7	608	INTERGENIC	--	--	--
scaffold705_P3_45256	scaffold705	45256	AGGG/AGGGG	TTTCATCTGGTCTTTTC GGG	CGATCCATTTTGTGCG TGTG	60.0	215	INTERGENIC	--	--	--
scaffold705_P3_45291	scaffold705	45291	CGGG/CGG	TTTCATCTGGTCTTTTC GGG	CGATCCATTTTGTGCG TGTG	60.0	215	INTERGENIC	--	--	--
scaffold7081_P3_2451	scaffold7081	2451	A/AC	TTAATGAGGGGCTGAA TTGG	AAGCGTACCTGTGGGA ATTG	59.9	259	INTERGENIC	--	--	--
scaffold7081_P3_2734	scaffold7081	2734	ATTTT/ATTTT	CAATTCCACAGGTAC GCTT	TGGGGGTAAAGGGAT TAGG	60.0	465	INTERGENIC	--	--	--
scaffold709_P3_4016	scaffold709	4016	CT/CTTT	ACTCAAATGATGTTGGC GCT	CATGAGGAAACAATTG TGCAG	60.7	788	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 (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
scaffold709_P3_7460	scaffold709	7460	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TCGTGGAATGAATAATC CTCA	TGAATTGATGATTGAG AACCG	58.0	223	INTERGENIC	--	--	--
scaffold71_P3_21076	scaffold71	21076	C/CT	ATCGACGATGGGATGA AGAG	CACAATTAATCAACAC GGCG	60.0	507	INTERGENIC	--	--	--
scaffold71_P3_37235	scaffold71	37235	ATTT/ATTTT	CCCTCATATTCAAACA ATCCC	GGCCATTCTCAGGAAT TTCA	59.6	488	INTERGENIC	--	--	--
scaffold7107_P3_12174	scaffold7107	12174	AGCTTTTTGGC/AGC	TTCTTACGACATTCCGC CTC	GGTGCAACAATTGTCC TTGA	60.2	892	INTERGENIC	--	--	--
scaffold7107_P3_12825	scaffold7107	12825	AA/AAAGA	GGGGACTAAAATTGGG GAGA	TGCAGGCAATCAATGA AAGA	60.1	459	INTERGENIC	--	--	--
scaffold7107_P3_13331	scaffold7107	13331	TAAAAA/TAAAAA	GACTCATTCAATGCACC CAA	TGCGATTGTTGTGGTT GTTT	59.5	627	INTERGENIC	--	--	--
scaffold7107_P3_13380	scaffold7107	13380	TTTTTGAAAATTTTGAA/TTTTTGAA	GACTCATTCAATGCACC CAA	TGCGATTGTTGTGGTT GTTT	59.5	627	INTERGENIC	--	--	--
scaffold7107_P3_14328	scaffold7107	14328	GTAT/GT	ATGCATTGTGAGGGGA AAAT	CGGGATGCGACCTTCT ATTA	59.2	365	INTERGENIC	--	--	--
scaffold7107_P3_14640	scaffold7107	14640	AA/AATTA	TAATAGAAGGTCGCAT CCCG	TGTGTCAAACGAAATG ATGTG	60.1	368	INTERGENIC	--	--	--
scaffold7107_P3_16042	scaffold7107	16042	GTTTTTTTT/GTTTTTTTTTT	TTCACTCGGTTGCATCA CAT	TGCAAAATGTTTCAAA AGCC	60.1	905	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 (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
scaffold7107_P3_16409	scaffold7107	16409	CTATATATATATATATA/CTATATATA TATATATATATATATATA	GGGGCTAGAACCTCCT ACAA	CCATTTGCATGATTCC ACAC	58.3	946	INTERGENIC	--	--	--
scaffold7107_P3_16449	scaffold7107	16449	TTTCAT/TTTCATCTTCAT	TCCAATGCTTACAATCC TCTCTC	CCATTTGCATGATTCC ACAC	59.7	508	INTERGENIC	--	--	--
scaffold711_P3_146188	scaffold711	146188	G/GT	GTTCCCTTTACAGCGCT TGC	CGCAAACGCTATATGA CCCT	60.0	116	INTERGENIC	--	--	--
scaffold711_P3_198349	scaffold711	198349	AATATATATATATATATATA/AATATA TATATATATATATA	CAAAAGATGGGTCGTG TCTTG	TTGATCTGACATGTGA CACAACCT	60.5	711	INTERGENIC	--	--	--
scaffold711_P3_204653	scaffold711	204653	GATATATATATATATATA/GATATATATA TATATA	AATGTGAATCCCACCA GGAA	TTTACAGCGCTTGCC TCAA	60.2	796	INTERGENIC	--	--	--
scaffold711_P3_39328	scaffold711	39328	TAAAAAAAAA/TAAAAAAAAA	CGTTAAACACGCAACC AGAA	GGAGGTGAGGAGGAT GATGA	59.8	447	INTERGENIC	--	--	--
scaffold711_P3_61878	scaffold711	61878	ATATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATT/ATATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATT	AAGCGAATGAAGTGAT GCCT	CAATTGTATGGAGGTT GTGTTGA	59.8	304	INTERGENIC	--	--	--
scaffold716_P3_117351	scaffold716	117351	CATATATATATATATATATATATATAT /CATATATATATATATATATATATATATA TAT	AGGAGGTTTGTGTTTG ACGG	GCTGTTAGCCAGTTT TTGG	60.0	612	INTERGENIC	--	--	--
scaffold716_P3_135403	scaffold716	135403	AATTATTATTATTATTATTATTATTATTA TTATTATTATTATTATTAT/AATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTAT	TGATCATATAAAACAA ATGCTCACA	TGTGCAAGATTCTGT TCCA	59.8	410	INTRON	Ca_24965	--	bHLH
scaffold716_P3_177155	scaffold716	177155	TG/T	CCAAGAATACCGCAGG GATA	ATGTCTCGTCATTCGG GAAG	59.9	904	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 (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
scaffold720_P3_264856	scaffold720	264856	ATTTTTTTTTTTT/ATTTTTTTTTTTT	TTCGTCGGAAATGACT TGA	TGGGATGATTGACCC CTTA	59.2	430	INTERGENIC	--	--	--
scaffold720_P3_297961	scaffold720	297961	TAAAAAA/TAAAAA	GAGGAACCGATGCAT TAGT	TTGCAATAATCTGCC ATCA	59.0	802	INTERGENIC	--	--	--
scaffold720_P3_329945	scaffold720	329945	AATATATATATATATATATATAT/A ATATATATATATATATATATATAT	TCCACCAAATTTTCAG CTC	AGCAACTTTTCCTTCT GCCA	60.1	729	INTERGENIC	--	--	--
scaffold720_P3_330056	scaffold720	330056	ATC/ATCATTTCTTC	GGTTTGAGAGCGATG TGAT	AGCAACTTTTCCTTCT GCCA	60.1	329	INTERGENIC	--	--	--
scaffold720_P3_333511	scaffold720	333511	CA/CATA	CGCTGTTAAATCGG GTGT	CTCATTTGATGCCTGC TTGA	60.0	709	INTERGENIC	--	--	--
scaffold720_P3_370256	scaffold720	370256	GTT/GTTT	TTGCCTTAACGGAAATC CAC	GGTGGGTGTAGGGAG TGAGA	59.9	336	INTERGENIC	--	--	--
scaffold720_P3_370691	scaffold720	370691	ATTGATTTTGATTTTGATTTT/ATTGATT TTGATTTT	TCTCACTCCCTACACCC ACC	CAATTCACAATTGCAC CGTC	60.0	625	INTERGENIC	--	--	--
scaffold720_P3_372071	scaffold720	372071	T/TTA	ACCAACATTTCAGGCTC ACC	TAGAGCGCCAAACCT AATG	60.0	486	INTERGENIC	--	--	--
scaffold720_P3_68127	scaffold720	68127	CAAAAAA/CAAAAA	TCACAACGGAGCTTTTC TCA	TTGGACCAATTTGTG GCTT	59.6	421	INTERGENIC	--	--	--
scaffold721_P3_50867	scaffold721	50867	TAAAAAA/TAAAAA	AGGGAGGACGAAAATG ACCT	CCAATCTTGTCATCC AATG	59.9	399	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_P3_7073	scaffold7210	7073	GA/G	TTTTCGTCTCCCTAGG CTT	TTGGATGCACATGATT GGTT	60.2	364	INTERGENIC	--	--	--
scaffold724_P3_100088	scaffold724	100088	ATTTTTTTTT/ATTTTTTTTTT	ACAGGAGGGTGATCGA GAGA	TGCATACTTGTGTGGC ATTTT	59.8	727	DRR	Ca_25051	Q	NAC
scaffold724_P3_100193	scaffold724	100193	TAAAAAAA/TAAAAAA	CTGTAAGCGGAGAAAA TTGG	TTGCATACTTGTGTGG CATTT	57.5	319	DRR	Ca_25051	Q	NAC
scaffold724_P3_100328	scaffold724	100328	TAAAAAAA/TAAAAAA	CTGTAAGCGGAGAAAA TTGG	AATGGTAGTCCCTCTG GCCT	57.5	690	DRR	Ca_25051	Q	NAC
scaffold724_P3_100591	scaffold724	100591	AATTTAACATAT/A	AAATGCCACACAAGTAT GCAA	AATGGTAGTCCCTCTG GCCT	59.1	392	DRR	Ca_25051	Q	NAC
scaffold724_P3_101383	scaffold724	101383	TTATATATATATATATATA/TTATATATA TATATATATATA	ATCTTGCCCAATGTTGA TGA	TTAAACAGGCCTCAGT TGCC	58.9	576	INTRON	Ca_25051	Q	NAC
scaffold724_P3_108519	scaffold724	108519	ATATTATTATTATTATTAT/ATATTA TTATTATTATTATTAT	GCGGTACTGGCATTTA GCAT	TTGAAAGGCCTGAGCC TAGA	60.1	792	INTERGENIC	--	--	--
scaffold724_P3_126741	scaffold724	126741	CTTTTT/CTTTT	TCGCACTTCAATATGCT TCG	AAAGGCCATGCAAGAA GAGA	60.0	851	URR	Ca_25052	Q	NAC
scaffold724_P3_15756	scaffold724	15756	CTTTT/CTGCTGACCTTTTCCTTTTT	CTGGTGGTGGTGAGAA AAGT	GTGACCACTGGTATTC GGCT	60.0	563	INTERGENIC	--	--	--
scaffold724_P3_21848	scaffold724	21848	TATAAAAAATAAAATAAAATAAAATA AAAAATAAAATAAA/TATAAAATAAA ATAAAATAAAATAAAATAAAATAA AAATAAAATAAAATAAA	CAGAACAAACACGAGA GCCA	ATCAGAGCACATCATC GCAT	60.0	620	INTRON	Ca_25043	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold7279_P3_556	scaffold7279	556	ACAA/ACAAAGGGTGTGGTCAA	GGAATCGAGAGCTCCA AGTG	TCTCAAGCCCAGTTA GCTT	60.0	523	INTERGENIC	--	--	--
scaffold728_P3_32793	scaffold728	32793	TC/T	ATGGAGACGAGTGAAT TCGG	TGAAGAAGAGTTGGGA AACGA	60.1	502	INTERGENIC	--	--	--
scaffold7280_P3_1708	scaffold7280	1708	AC/ACC	GTTTCGTACCCCTCGA CAAA	TCCAGATGAAATCGAG GACC	60.0	311	INTERGENIC	--	--	--
scaffold7293_P3_13126	scaffold7293	13126	AATA/AA	TGCCTCTGGATTGGTT GAAT	AATCTATCCACCCGGA AACC	60.5	471	INTERGENIC	--	--	--
scaffold7293_P3_13170	scaffold7293	13170	AG/A	TGCCTCTGGATTGGTT GAAT	AATCTATCCACCCGGA AACC	60.5	471	INTERGENIC	--	--	--
scaffold7293_P3_15472	scaffold7293	15472	TT/TTAGAAAAGTGATAGT	TTCATGCCAGCAACTCT TTG	TGCTTTGCTATGCACC AGTC	60.0	626	INTERGENIC	--	--	--
scaffold7293_P3_19624	scaffold7293	19624	CA/C	ACGATGACACAAGCCC CTAT	AAAACAGGAGAAGGCA GCAA	59.4	450	INTERGENIC	--	--	--
scaffold7293_P3_20198	scaffold7293	20198	TC/T	TTGCTGCCTTCTCCTGT TTT	ATGATGCACTTTGGGC CTAC	60.0	661	INTERGENIC	--	--	--
scaffold7299_P3_551	scaffold7299	551	AATATATATATATATAAATATATATAT A/AATATATATATATATATATAAATAT ATATATA	CACCAAAACTTAATTC CCCTTT	TGATTCTATGCATCG TATTTTG	59.7	459	INTERGENIC	--	--	--
scaffold731_P3_123495	scaffold731	123495	ANNNNNNNNNN/ANNNNNNNNN	ACTGGCACCCACTAAC CATC	CAATCTTTTCGCACTG AGCA	59.9	875	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
scaffold731_P3_148662	scaffold731	148662	AAC/AACCAGTAC	ACCAAAACCCTCCTCAA AGG	TTGGTGTGGTTTTGT GGAA	60.3	564	INTERGENIC	--	--	--
scaffold731_P3_239951	scaffold731	239951	TATA/T	AAACCGTTGATTTCATCG AAA	TCAAAATTTTAGGCC CCTT	58.1	637	INTERGENIC	--	--	--
scaffold731_P3_313013	scaffold731	313013	AA/ATTGATAAAGAAGGA	TCAAAATTTTCCGCTG CTT	AACTGTCTCAACTCTC GGGC	59.8	192	INTERGENIC	--	--	--
scaffold731_P3_315325	scaffold731	315325	C/CAAAAAAATTG	TGCGATTGGAACAGTA GTCG	AAAGCATGGCACTTCG AGTT	60.0	382	DRR	Ca_23814	J	--
scaffold731_P3_315903	scaffold731	315903	GATGA/GATGAATGA	AACTCGAAGTGCCATG CTTT	CAATACGCAATGGTGG TGAG	59.9	660	DRR	Ca_23814	J	--
scaffold731_P3_322781	scaffold731	322781	T/TCAAATTCATTAAAA	ATCCCCGATTCTCTCA AGT	AATTCCTACTGGATGC ACGC	59.9	479	INTERGENIC	--	--	--
scaffold731_P3_323181	scaffold731	323181	GATAAATCAATAT/GATAAATCAATATA AATCAATAT	GCAGGAATCCTCGTAC CTCA	CTGCGAATTGCGTGAA AGTA	60.2	296	INTERGENIC	--	--	--
scaffold731_P3_323712	scaffold731	323712	T/TCTTCCGA	TACTTTCACGCAATTG CAG	TTATTTTCCGATTGCC TCG	60.0	584	INTERGENIC	--	--	--
scaffold731_P3_324476	scaffold731	324476	CA/CAAAA	TGTGATATGTTGCGA AGGA	CAACCATCCGTTTGG TATC	60.1	650	INTERGENIC	--	--	--
scaffold731_P3_324510	scaffold731	324510	T/TCATAGGTCGAG	TGTTTGAAGACCGAA AACC	CAACCATCCGTTTGG TATC	59.9	257	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 (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
scaffold731_P3_324642	scaffold731	324642	T/TA	TGTTTGAAGACCGAA AACC	CAACCATCCCGTTTGG TATC	59.9	257	INTERGENIC	--	--	--
scaffold731_P3_335005	scaffold731	335005	A/AGTGGA	CTATCAATAACCCAGCC GGA	TGGATCAGATCGAGTT GGAA	59.9	857	INTERGENIC	--	--	--
scaffold731_P3_339474	scaffold731	339474	GT/GTTTCTCTT	TGTGCAAACGTCATTG GATT	CCTCAGATGAGAGGCA GGAC	60.0	544	INTERGENIC	--	--	--
scaffold731_P3_342154	scaffold731	342154	CAAAAAA/CAAAAA	AAATGGAGGAGAAGGA GGGA	ACCCAATTACTGGAGA TGCG	60.0	574	INTERGENIC	--	--	--
scaffold731_P3_354972	scaffold731	354972	T/TATAATCATAC	ATAACCTTAGCGCATTC CCA	CCTCCCCTAAGATCCA ACAA	59.6	308	INTERGENIC	--	--	--
scaffold731_P3_361613	scaffold731	361613	TGG/TGGG	TGTGCTATTGCTCAAA CCG	AGCAGTCGTTTCCAGC TGTT	59.8	640	DRR	Ca_23818	--	--
scaffold731_P3_366076	scaffold731	366076	GAA/GAAA	TCTCGCGGATTTTCATA ACC	CCATCCATTTCGTATT GCT	60.0	100	INTERGENIC	--	--	--
scaffold731_P3_367487	scaffold731	367487	C/CAAGCT	ATAATCCACCGCCAATT TGA	GCAGTTGCAATGGCTT CTTT	60.2	422	DRR	Ca_23819	EI	C3H
scaffold731_P3_371953	scaffold731	371953	T/TCACTTCCGC	CATCAGTTACTTCAGCG CCA	GTTTGCTAGAAGCAG CCAC	60.0	641	INTRON	Ca_23820	--	--
scaffold731_P3_374028	scaffold731	374028	AA/AAGGGAGATAGTGCA	TCCTTGGGGTGATCTC GTAG	ATGGACGGTAGTTGGA GTCG	60.1	222	INTRON	Ca_23820	--	--

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 (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
scaffold731_P3_390482	scaffold731	390482	C/CAA	TATCATAGGCCGTAGG CCAG	TTATTCGTCCAATTCCC TCG	60.1	482	INTRON	Ca_23820	--	--
scaffold731_P3_392660	scaffold731	392660	TT/TTTTTGCTAATCTAAT	GAACGACGGAACCTGT GAAT	AGGAAGCCCAAGTTCC AAAT	60.0	665	INTRON	Ca_23820	--	--
scaffold731_P3_428824	scaffold731	428824	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTA/GTTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTA	GCTGCGTCGAATGAAA TACA	TGACAAGGGAAAAACC TTGC	59.8	456	INTERGENIC	--	--	--
scaffold731_P3_91528	scaffold731	91528	TAAAAAAAA/TAAAAAAAAA	GCAGCTGACTGCAGTT CTCA	TCATTTTCTCATTTCTC CCCA	60.5	535	INTERGENIC	--	--	--
scaffold731_P3_94332	scaffold731	94332	ATTTTTTTTT/ATTTTTTTT	GAGCGCTGTAAAAGAC CTCC	TGAAGATGGTTTGCAA TGGA	59.1	188	DRR	Ca_23810	--	B3
scaffold7330_P3_2275	scaffold7330	2275	AG/A	TTGGTCGACAAGCAAC TGAG	AAAACCAACAATCTCC CCC	60.0	699	DRR	Ca_28207	--	--
scaffold735_P3_44750	scaffold735	44750	ATATCATT/ATATCATTATCATT	ATAGACCGCCACGATC AGAC	AAAACCGTATTTCCCA ACGA	60.1	721	INTERGENIC	--	--	--
scaffold735_P3_57041	scaffold735	57041	GTATATATATATATATATATATAT ATATATATATATATAT/GTATATATATAT ATATATATATATATATATATATATA TATATATAT	GTTGGTTCCTAGCAC CGTA	TATTTTGGATTTGCCT CGG	60.0	659	INTERGENIC	--	--	--
scaffold7353_P3_585	scaffold7353	585	AT/ATTTTCATCCT	CGTCCACCCAAGGCTT ATT	GCCTATGGAGGACGAA AATG	59.9	198	INTERGENIC	--	--	--
scaffold7355_P3_10548	scaffold7355	10548	ATGT/AT	AGTGTTGCGAGGGAGC AGTA	CCACCATAGTGTGGGT GTCA	59.9	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 (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
scaffold7355_P3_18466	scaffold7355	18466	T/TATA	ATTTTGGCTAGGGGAG AGGA	GAGTGGGCTGATGCAA AAAT	60.0	439	INTERGENIC	--	--	--
scaffold7355_P3_18760	scaffold7355	18760	A/ATC	ATTTTGGCTAGGGGAG AGGA	GAGTGGGCTGATGCAA AAAT	60.0	439	INTERGENIC	--	--	--
scaffold7355_P3_21838	scaffold7355	21838	GAAA/GAA	GATTTGGATCTTTGCAA GCC	TCCCTCCAAAACGCTA AAAA	59.7	461	INTERGENIC	--	--	--
scaffold7355_P3_23745	scaffold7355	23745	TAAA/TAAAA	TCTTTGTTAGTTCACCAA ACACTTGA	CTCAACCATCTTCGCA ATCA	60.1	508	INTERGENIC	--	--	--
scaffold7355_P3_24072	scaffold7355	24072	TAAAAA/TAAAAAA	TTGCATGACACCCAAAT AGTG	CTCAACCATCTTCGCA ATCA	59.5	419	INTERGENIC	--	--	--
scaffold7355_P3_5128	scaffold7355	5128	AAGAGAGAGAGAGAG/AAGAGAGAGA GAGAGAGAGAG	GCAGTTCAAAGGGGCA TAGA	TCAAACACCACCCTCA CAAA	60.2	358	URR	Ca_28031	--	NF-YB
scaffold7355_P3_8871	scaffold7355	8871	AA/AATTCA	CAATTTAGCACAAAACG GCA	AAAAGGGAATAGGGTG GGTG	59.7	598	INTERGENIC	--	--	--
scaffold7364_P3_2154	scaffold7364	2154	CAT/C	TCAATTTGGGTTTAGG GTGC	TGTAGTGGCATGTTTG GCAT	59.8	497	INTERGENIC	--	--	--
scaffold7364_P3_2278	scaffold7364	2278	GTTTTTTTTTTT/GTTTTTTTTT	ATGCCAAACATGCCAC TACA	TGCCACCTTGACTAAT GCAC	60.0	378	INTERGENIC	--	--	--
scaffold7377_P3_545	scaffold7377	545	CT/CTT	TTTCTTCCCAACCTTCA TCG	GCCGTTGGAACCTTCAT CATT	60.0	816	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 (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
scaffold738_P3_2137	scaffold738	2137	T/TC	TGAATATCGCCCGAAA AGTC	TTTCATAGCAGACGAG GGCT	60.0	292	INTERGENIC	--	--	--
scaffold738_P3_5098	scaffold738	5098	ATTTTTT/ATTTTT	TCGGGTGGTACTTAAA TCGC	ATCTGACGTGGAAC GAAC	60.0	274	INTERGENIC	--	--	--
scaffold74_P3_19648	scaffold74	19648	GTTT/GTTTT	AACGAATCTTGTGCATC CAA	AGGGAGGACGAAAATG ACCT	59.1	169	INTERGENIC	--	--	--
scaffold74_P3_70704	scaffold74	70704	ACATTT/ACATTTAGGTCATTT	TCCTCCCAGGCTTATT CTT	TGCGCAACATTGGTTA AAAA	60.0	690	INTERGENIC	--	--	--
scaffold74_P3_71060	scaffold74	71060	ATT/AT	CAATGTTGCGCATCCA ATAG	AGGGAGGACGAAAATG ACCT	60.1	364	INTERGENIC	--	--	--
scaffold741_P3_6784	scaffold741	6784	AATATATATATATATATATATATATAT AT/AATATATATATATATATATATATA TATATAT	TTGGGATGGTGATTCT CACA	TTTACCACTTGGAGTT GGGC	59.9	215	DRR	Ca_28074	--	B3
scaffold7427_P3_5387	scaffold7427	5387	TAAAAAAAAA/TAAAAAAAAA	TTGCCCATGAATGTTTT CAA	ATGGTTGGAGTGGGA GAGTG	60.1	640	DRR	Ca_27576	--	bHLH
scaffold7427_P3_7985	scaffold7427	7985	CATATATATAT/CATATATAT	CACCCGTTACCTTGGC TAAA	TGTTGCCTCCGTCTCT TTCT	60.0	750	INTERGENIC	--	--	--
scaffold743_P3_14244	scaffold743	14244	AACACACA/AACACA	TGCTTGATTGCTTGAGT TCC	GTACCCTGATTGCCCT CTGA	59.0	321	INTERGENIC	--	--	--
scaffold7448_P3_21480	scaffold7448	21480	GAAA/GAAAA	AGGATCTCCCATTCT CGAT	TTCCGGGTGAGATTTC AAAC	60.0	287	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 (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
scaffold7470_P3_1854	scaffold7470	1854	A/AG	TGTGTCATTGGATTAAC GGC	ACACACCTATCGGATG CACA	59.4	673	INTERGENIC	--	--	--
scaffold7470_P3_2428	scaffold7470	2428	TCCC/TCC	TGTGCATCCGATAGGT GTGT	GGGAGAATGAAAATGA CCGA	60.0	760	INTERGENIC	--	--	--
scaffold7477_P3_2293	scaffold7477	2293	TAAA/TAA	TTGGTGGATTGAGAC CACA	ACTTCCCTTTGCACATT TGG	59.9	652	INTERGENIC	--	--	--
scaffold7477_P3_6564	scaffold7477	6564	TTTG/TTTGTG	CCTGCAGAAAGCAAAA CACA	ACCTTGGGAAGGAGGA GAAA	60.0	590	INTERGENIC	--	--	--
scaffold7489_P3_558	scaffold7489	558	TAAAA/TA	AACCACAACAATGCCAA CAA	TTTTGCTTTTTGTCCA ACC	59.9	539	INTERGENIC	--	--	--
scaffold7489_P3_828	scaffold7489	828	GTATATATATATATATA/GTATATATA TATATATA	GGTTGGACCAAAAAGC AAAA	TCACCTTCTCATCAAA CAGC	60.0	602	INTERGENIC	--	--	--
scaffold749_P3_1624	scaffold749	1624	CTATATATATATATATATATATATAT/ CTATATATATATATATATATATAT	CTTGGGAAGTGGAGAG CAAG	GAGGAGGGAGGGATT TTGAG	60.0	536	INTERGENIC	--	--	--
scaffold749_P3_1789	scaffold749	1789	ATTTTT/ATTTT	CTTGGGAAGTGGAGAG CAAG	GAGGAGGGAGGGATT TTGAG	60.0	536	INTERGENIC	--	--	--
scaffold750_P3_257088	scaffold750	257088	A/AC	ACCCATTGGTCCCTTA TTT	ACATCAATGTTGAATG CCGA	59.4	978	INTERGENIC	--	--	--
scaffold750_P3_31851	scaffold750	31851	GAAAAAAAA/GAAAAAA	TGAGTTTCTATGCAAG GGCA	TTCATGAAGACACCGG AACA	59.4	273	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
scaffold750_P3_360259	scaffold750	360259	GA/G	TGTTTGCTTGCTGCTT TGC	AAATCCAACAATCTCC CCC	60.2	626	DRR	Ca_25944	--	--
scaffold750_P3_38979	scaffold750	38979	AT/A	CACTGATAACGCGACT AATTTGA	ACCGCCACAAATGATA AAGC	59.3	748	INTERGENIC	--	--	--
scaffold750_P3_59023	scaffold750	59023	ATTGTTGTTGTT/ATTGTTGTTGTT	CGTAGCATCAGCAACC TTCA	TCCCTCTTTGTTTTTC CCA	60.0	989	INTERGENIC	--	--	--
scaffold750_P3_60432	scaffold750	60432	CTTTT/CTTTT	AGGCAAATCAGCCTTC AAGA	GCAACGTTTGACCTT TGTT	60.0	319	INTERGENIC	--	--	--
scaffold7502_P3_560	scaffold7502	560	TTATATATATATATATATATATATAT T/TTATATATATATATATATATAT	GTTGGTCCCTAGCAC CGTA	TATCCAATCTTGTCG TCCA	60.0	806	INTERGENIC	--	--	--
scaffold7509_P3_4913	scaffold7509	4913	A/AT	AGGTGTCGACGAAAT GACC	GCATCCGTTACGTGTG TTTG	60.0	459	INTERGENIC	--	--	--
scaffold752_P3_201029	scaffold752	201029	AATATATATATATATATATATATATAT ATATATAT/AAATATATATATATATATA TATATATATATAT	CAAGAGTTATGGCAGC AGCA	CTAGTGCATCAGCAAG GCAA	60.2	449	INTERGENIC	--	--	--
scaffold752_P3_237882	scaffold752	237882	T/TG	CAACAATTCATTCGGG GTTC	GACTGCCACGATCAGA CTCA	60.2	571	INTERGENIC	--	--	--
scaffold752_P3_269557	scaffold752	269557	A/AC	AACGACACAATTTTACT CATCGT	TAAGGTTGTCTGGGA GGTG	57.8	368	INTERGENIC	--	--	--
scaffold752_P3_340408	scaffold752	340408	AATATATATATATATATATATATAT/A ATATATATATATATATATATATATA T	TTTGGTATTGACTCAGG GGC	AATCCGGTAAATCTC CGCT	59.9	691	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 (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
scaffold752_P3_445308	scaffold752	445308	GTTATTATTATTATTATTATTAT/GT TATTATTATTATTATTATTATTAT	CGACGCTTGATCGTTA ATTG	TTGGTGAAATTCGGG GTTA	59.3	419	INTERGENIC	--	--	--
scaffold752_P3_468907	scaffold752	468907	GAAAAAAAAAAAAAAAAA/GAAAAAAAA AAAAAAAAAAAAA	TTGTTTCCCAACTTGG TCC	TGAATTGTTGGATCAT CGAAAT	59.8	474	INTERGENIC	--	--	--
scaffold752_P3_505163	scaffold752	505163	TTTTTTTTTTTATTTTAT/TTTTTTTT ATTTATTTTATTTATTTAT	AGCCATTGCAGTCTTC GTCT	TCGTGTCTCAAAACTC AAGGAA	60.0	854	INTERGENIC	--	--	--
scaffold752_P3_99088	scaffold752	99088	TTATATATATATATATATATATATATA /TTATATATATATATATATATATATA	TTGGGCATGTATGAGG AACA	TGCATTTTACCAACAC CGA	59.9	499	INTERGENIC	--	--	--
scaffold753_P3_32678	scaffold753	32678	GTATA/GTATATATA	ATTGTCAGAAACGTGC ACCA	TCTTGCATCACCCGTT CATA	60.2	733	DRR	Ca_25930	S	--
scaffold753_P3_32701	scaffold753	32701	TATA/TATACATA	ATTGTCAGAAACGTGC ACCA	TCTTGCATCACCCGTT CATA	60.2	733	DRR	Ca_25930	S	--
scaffold7569_P3_558	scaffold7569	558	GAA/GA	ACTACCCATTCTGCTG TGG	AGATGAAAAATGGCTT TGCC	60.0	489	INTERGENIC	--	--	--
scaffold7576_P3_841	scaffold7576	841	CTTACTTATGTA/CTTACTTATGTAATT ACTTATGTA	TCTTGTGGAAGGAAGC TCGT	GCATTGGTTCCAAAG CAAT	60.0	688	INTERGENIC	--	--	--
scaffold758_P3_13400	scaffold758	13400	AATATATATATATATATATATA/AATA TATATATATATATATA	CTCGTCCAATCCCCTT TTT	CGATTTTACGTGAATAT ACGAACAC	60.3	603	INTERGENIC	--	--	--
scaffold758_P3_3569	scaffold758	3569	CTATATATATATATATATATATATA /CTATATATATATATATATATATATA ATA	CATGATCCTCCTACTCC CGA	CAACAAGGTTGGTGT GCTG	60.0	348	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
scaffold759_P3_143208	scaffold759	143208	GAAAAAAAAA/GAAAAAAAAA	TGTTTCGTTCTTGTT GCCT	CTTTGCTTCGTGTGG CAGA	59.8	389	INTERGENIC	--	--	--
scaffold759_P3_143350	scaffold759	143350	CAAAAAAAAA/CAAAAAAAAA	TGTTTCGTTCTTGTT GCCT	CTTTGCTTCGTGTGG CAGA	59.8	389	INTERGENIC	--	--	--
scaffold7650_P3_9735	scaffold7650	9735	T/TG	TATGGCATTGTGGTC ACTT	GGATTAATAATGGAAT TGTTCAAGA	60.0	482	URR	Ca_27809	O	--
scaffold7650_P3_9922	scaffold7650	9922	CA/CATA	CCGCAATTATATCTGCG ACA	AGTTCAAAAATACGCG GGTG	59.7	857	URR	Ca_27809	O	--
scaffold7657_P3_660	scaffold7657	660	CACAACAA/CACAA	AGGGAGGACGAAATG ACCT	GGTGTGTTTGTGTCGT TGGA	59.9	412	INTERGENIC	--	--	--
scaffold766_P3_179582	scaffold766	179582	GTTTTTT/GTTTTT	TGGGTGGATTTTCTG AAGC	TTTTATGGGGCCAACA ACTC	60.1	426	DRR	Ca_24688	--	--
scaffold766_P3_184237	scaffold766	184237	ATC/ATCTCGACTTTC	CCCTTGGGTATTCTCG ACAG	GCGGACAAAATTAGGT GTCAA	59.5	130	INTERGENIC	--	--	--
scaffold766_P3_223365	scaffold766	223365	ATTTTTTTTT/ATTTTTTTTT	GCATGTATACACGTAAA ATCGCA	TTCACTACAAATTTGCA TGACGA	59.9	334	INTERGENIC	--	--	--
scaffold766_P3_231807	scaffold766	231807	ATAATATTAATATTAATA/ATAATATTAA TATTAATATTAATA	GTTTAATTGCCGCCT TGA	GTGCAATTCTTGATG CCCA	59.9	528	DRR	Ca_24692	R	NAC
scaffold766_P3_243668	scaffold766	243668	GTTA/GTTAATTA	CTCAACATGCATGCAAA ACC	TCCCAACCCAAATAAA CCAA	60.1	537	URR	Ca_24693	--	--

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 (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
scaffold766_P3_79569	scaffold766	79569	AGG/AG	CAGCGAGTTCATCCTC TTCC	CCTCAGATGAGAAACC CCAA	60.0	612	INTERGENIC	--	--	--
scaffold768_P3_560	scaffold768	560	T/TG	CCATGAGAGTCGAAAT CGGT	TCCACAGATCCACAT TCAA	60.1	188	INTERGENIC	--	--	--
scaffold769_P3_1084	scaffold769	1084	TTT/TAAC TT	AAATGAACCAATTTAAT GAGCTACC	CCCTCCCAAAACACCC TTAT	59.0	479	INTERGENIC	--	--	--
scaffold769_P3_27694	scaffold769	27694	T/TAA	CTGGGCAAGGGATCTG AATA	TCACAATCAGTGCACA CAACA	60.0	311	INTERGENIC	--	--	--
scaffold769_P3_2786	scaffold769	2786	TGGCAGCAG/TG	ACGTACAGTCAGCGT TTTG	CCCAATTCTCAATCCC ACTT	59.8	147	INTERGENIC	--	--	--
scaffold769_P3_29353	scaffold769	29353	AGC/AGCCCACTAATATGC	GCACTCTCATTATCCC ACA	CCACATGTCAATTAAC CCTGC	59.6	370	INTERGENIC	--	--	--
scaffold769_P3_3493	scaffold769	3493	CTAA/CTAATAA	TCCAAGAAAACAGTTTC CGA	TGAATGGTTTTATTGA GCTGGA	58.3	588	INTERGENIC	--	--	--
scaffold769_P3_5414	scaffold769	5414	AATATATATATATATATATATATATATATATAT/ATATATATATATATATATATATATATATAT T	TCACTCGCGTTAATTTT GATG	GCGAGTGAATACATGT GCCA	58.8	518	INTERGENIC	--	--	--
scaffold7697_P3_589	scaffold7697	589	G/GA	CTAGCCCTCGTCTGTT CCAG	AATCCGTATTTTCGCA CCAG	60.0	521	INTERGENIC	--	--	--
scaffold7698_P3_1050	scaffold7698	1050	G/GC	CCGGTGGATATGATGA GCTT	GGCTTTTGAATCACCG AAAA	59.9	650	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
scaffold771_P3_50419	scaffold771	50419	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATAT	GCTTCGACACTGTAGC ACCTC	TTGTTGTAGGGCACAT TGGA	60.1	266	INTRON	Ca_27145	--	--
scaffold772_P3_11892	scaffold772	11892	TAAATA	GGCACACTCCCGTAAA ATTC	TTTTTCGCACACCAAT GAGA	59.4	539	INTERGENIC	--	--	--
scaffold772_P3_152481	scaffold772	152481	GTT/GT	GGAGGATCTATGGTGC TGGA	GTGTTCTGCCGCTTTT TCTC	60.0	170	CDS (FRAME SHIFT)	Ca_26416	--	--
scaffold772_P3_160597	scaffold772	160597	TTA/TTATTACTA	TGAAATGGAGAAGGA TGCG	GCCCCGTGTCCTTAT AAAT	59.9	215	INTERGENIC	--	--	--
scaffold772_P3_187472	scaffold772	187472	ATATTATTATTATTATTATTATTAT ATTATTATTATTATTATTATTATTAT /ATATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTAT	CGTTAGTGGCATTGT GTCG	GGATTCGGGAGTTGAT TAGC	60.2	583	INTERGENIC	--	--	--
scaffold772_P3_211515	scaffold772	211515	TCT/TCTTACAACCTCCCT	AATGGAGGAAGGAGGG AGAA	ACGTTTCCAAGTTCTG GTGG	60.0	452	INTERGENIC	--	--	--
scaffold772_P3_213642	scaffold772	213642	AGG/AGGG	ACTTGAGGGCGAAGAA CAAA	TTGGATGACCTACGAC TCCC	59.9	573	INTERGENIC	--	--	--
scaffold772_P3_23600	scaffold772	23600	G/GAGAGACATGTGTT	GGAAACAATGCCTCCA AGAA	GGAGGATGGTAACGAC GAAA	60.1	191	CDS (FRAME SHIFT)	Ca_26413	--	--
scaffold775_P3_110824	scaffold775	110824	TAAA/TAA	GCCGAATCGATTTTGT CAGT	GGAGGGTTTTGGTTG GAAT	60.1	521	INTERGENIC	--	--	--
scaffold775_P3_142405	scaffold775	142405	GTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATT/GTTATTATTATTATTATTAT TATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATT	CAACAAAAATCTCATGT GGCA	CATGACAGTGGTGTGC GATA	59.6	448	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 (°C)	Expected amplified product size (bp)	Structural annotation		Functional annotation	
								Sequence components of <i>kabuli</i> genome	<i>Kabuli</i> gene accession IDs	NCBI-KOG	TFs
scaffold779_P3_1531	scaffold779	1531	ATATTATTATTATTATTATTATT /ATATTATTATTATTATTATTATT	CCTTATTTGACGCTTT TGC	TGTGATACGTTGCTAG TCTTGTC A	59.9	476	INTERGENIC	--	--	--
scaffold781_P3_30435	scaffold781	30435	AATATATATATATATATATATATAT ATATA/AATATATATATATATATATAT ATATATATA	AATCGATTGGCTGAAAT CCA	GACATTTAACAGCGCC CATT	60.4	692	INTERGENIC	--	--	--
scaffold783_P3_120194	scaffold783	120194	CTATATATATATATATATATATATATA T/CTATATATATATATATATATATATA TATATAT	TTGGATTTTGGTTGAGA GGC	ACCGTAGTTTGGTGTG GAGC	60.1	662	INTERGENIC	--	--	--
scaffold783_P3_265447	scaffold783	265447	ANNNNNNNNNN/ANNNN	TGCAGTTAGCATGGCT TCAC	TGAGACTTGTGATTCA TGGCA	60.0	545	INTERGENIC	--	--	--
scaffold783_P3_57978	scaffold783	57978	AATATATATATATATATATATATA/AA TATATATATATATATATATATATATA	TTGAATGACCACTAAA TCTGTTCA	AGCCGAGTAACATC ACAAAA	59.9	325	INTERGENIC	--	--	--
scaffold7837_P3_1254	scaffold7837	1254	A/AG	CAATGTTGCGCATCCA ATAG	CCAAGGAAGGACGAAA ATGA	60.1	548	INTERGENIC	--	--	--
scaffold7842_P3_19051	scaffold7842	19051	T/TG	AAGGCAATGCCATACA CTGA	GCACAAGTGGTTGATG TACGA	59.2	434	INTERGENIC	--	--	--
scaffold787_P3_129918	scaffold787	129918	AAATAATAATAATAATAATAATAAT AATA/AAATAATAATAATAATAATAA TA	AGAATCCACAACGCAA CACA	AAGGCACGACATCATC ATCA	60.2	461	INTERGENIC	--	--	--
scaffold787_P3_130658	scaffold787	130658	AAAA/T	AGTAGCCGCCTCTACC AACA	CCCATGATCGAAAGAA ATGA	59.9	438	INTERGENIC	--	--	--
scaffold787_P3_131894	scaffold787	131894	AATTTATTTATTTATTTTAA/AATTTA TTTATTTATTTA	CGTTATATTTATCCGT TTTTAATCC	GGAATTTTCGTATTCC CGTT	59.6	600	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 (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
scaffold787_P3_147925	scaffold787	147925	TTAAAGTAA/TTAAAGTAACTAAAGTAA	TGGGGTGTACACACG ACAC	TCCTATGGCACGGTGA TTTT	60.3	650	INTERGENIC	--	--	--
scaffold787_P3_149556	scaffold787	149556	ATTTTT/ATTTT	CGGGATGGTGGCATAA TATC	AGCAGGGTTTCTCCCA AACT	60.0	343	INTERGENIC	--	--	--
scaffold787_P3_22684	scaffold787	22684	G/GAAC	GCGCATCAGCAATCAT AAAA	GAAGACACCGGGACCA CTAA	59.8	546	INTERGENIC	--	--	--
scaffold787_P3_270953	scaffold787	270953	TATAAAAATAAAAATAAAAATAAAAATA AAA/TATAAAAATAAAAATAAAA	AAACTGTTGCGGCAT CTTT	TGAACCCCTAGAGTGG TTGTTTC	59.8	777	INTERGENIC	--	--	--
scaffold787_P3_286790	scaffold787	286790	TA/TAAAAAA	GAGTGTGAGTCGTGC TGGA	GATATTTAACAGCGCG GGTG	60.0	373	INTERGENIC	--	--	--
scaffold787_P3_294211	scaffold787	294211	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	TGGGGAGAAACAAAT GGAG	ACAGCTCTTCCCACTG GCTA	59.9	717	INTERGENIC	--	--	--
scaffold787_P3_334329	scaffold787	334329	ATTTTTTTTT/ATTTTTTTTTT	CTTCCTCTGTGCCACAT CCT	TTCATTCTGTCTGCT TTGG	60.3	598	INTERGENIC	--	--	--
scaffold787_P3_337497	scaffold787	337497	TTAAATTTAAATAAAT/TTAAATTTAAAT ATAAATTTAAATAAAT	GCACCTACGATCCCTT AATCTT	CCTCAAGCAGATCAAG CTCC	58.7	939	INTERGENIC	--	--	--
scaffold787_P3_342092	scaffold787	342092	GAAAAAAAA/GAAAAAAAA	TGAGGGGAATTGATGT AGCC	AGGGCATTTTTGTCTT GTGG	59.9	488	DRR	Ca_25846	P	--
scaffold787_P3_353218	scaffold787	353218	A/AT	CCCCCTCTAGGCGTA CTTC	TACCTCCCGTCACCAA AAAC	60.1	529	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CD Frontier/PII)	Forward primers (5'-3')	Reverse primers (5'-3')	Annealing temperature (OC)	Expected 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_P3_397200	scaffold787	397200	TAAAAAAAAA/TAAAAAAAAA	AAAATTGGGGAGCGTC GT	GATCTCCACCTCTCT TTTT	60.5	812	INTERGENIC	--	--	--
scaffold787_P3_437826	scaffold787	437826	TTATATATATATATATATATAT/TTAT ATATATATATATATATATATATATA T	TGGAGTGACCATTTTC GTGA	AAAAACATTCCATGGT AAGGGA	60.1	411	INTERGENIC	--	--	--
scaffold787_P3_460684	scaffold787	460684	CAT/CATAT	TATGGGAAGGAAATGT GGGA	TCACTCGCAACGAGAA GTTG	60.1	601	INTERGENIC	--	--	--
scaffold787_P3_462837	scaffold787	462837	GGTGGCCATTCCCTAGTG/GGTGGCC ATTCCCTAGTGGCCATTCCCTAGTG	ACCACCCTTTAACGTTT TGC	GTTACTCCCACGTGAC ACCC	59.0	282	INTERGENIC	--	--	--
scaffold787_P3_469394	scaffold787	469394	CAGG/C	GCGCGTTGCTAAAGTA GTGC	ACGATCTTTCTCCAG ATGC	59.9	331	INTERGENIC	--	--	--
scaffold787_P3_470833	scaffold787	470833	TAAAAAAAAA/TAAAAAAAAA	GATGCGACACGAACAA TGTC	AACGTGAGAACGTGCA GAAG	60.1	395	INTERGENIC	--	--	--
scaffold787_P3_65669	scaffold787	65669	ATTTTTTT/ATTTTTTTTT	ACTTTCGGGTTTAAATG GGG	TTGGTCGTTTGAGCCT TTCT	60.0	471	INTERGENIC	--	--	--
scaffold789_P3_8987	scaffold789	8987	T/TCA	AACCAATGTTGTGCATC CAA	AGGGAGGACGAAAATG ACCT	59.8	271	INTERGENIC	--	--	--
scaffold7890_P3_680	scaffold7890	680	TG/TGG	TTTCTCCCTTTCTTTC CGT	GAAGGGACTGCGGCA TAATA	60.0	162	INTERGENIC	--	--	--
scaffold7891_P3_3768	scaffold7891	3768	CAAA/CAAAA	TCTGGACTTTTCGAGC GATT	AGTGCAATTTAGTCGG GTGG	60.0	379	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 (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
scaffold794_P3_35718	scaffold794	35718	AAATAATAATAATAATAATAAT/AAA TAATAATAATAATAATAATAATAAT	GGGGATGCGACCATCT ACTA	TCCTCCTATTTGTTTTG GCA	59.9	464	INTERGENIC	--	--	--
scaffold794_P3_36007	scaffold794	36007	AAAGAAGAAG/AAAGAAGAAGAAG	GGGGATGCGACCATCT ACTA	TCCTCCTATTTGTTTTG GCA	59.9	464	INTERGENIC	--	--	--
scaffold796_P3_26479	scaffold796	26479	GTT/GTTT	TCATTTTCGTCCTCTT TGG	GCCTATTGGATGCACA GGAT	60.0	470	INTERGENIC	--	--	--
scaffold797_P3_15287	scaffold797	15287	CAAAAA/CAAAAAAA	GGTGATTTTTATGATGT GCTAGTTTT	CCCTTCAATTCCCGT TTTT	59.0	689	INTERGENIC	--	--	--
scaffold798_P3_1261	scaffold798	1261	A/AT	ACAGCGAAGAGTTTC TCCA	GATTGGCAACACAGG GACT	60.0	706	INTERGENIC	--	--	--
scaffold798_P3_16927	scaffold798	16927	T/TC	ATGCAATGCGTATATGC CAA	TAAATCGTGTGACCC GTGA	59.9	233	INTERGENIC	--	--	--
scaffold799_P3_13711	scaffold799	13711	ATTTTTTTTT/ATTTTTTTTT	GGGGCACTTCTCTCTA TCCC	TTGTTTTGGCCCTTTT CAC	60.0	729	INTERGENIC	--	--	--
scaffold799_P3_7440	scaffold799	7440	AATATATATATATATATATATAT/A ATATATATATATATATATATATATA TAT	AGGAAGAGTGGAGTTG CGAA	TGACGCGACTAACATT CAGC	60.0	560	INTERGENIC	--	--	--
scaffold80_P3_251177	scaffold80	251177	AATATATATATATATATATATATAT ATATATATATATATATA/AATATATAT ATATATATATATATATATATATATA TATATATATATATA	CGAAATTGAGGCAAT GGT	AGGACAAATACAAGG CAGC	59.9	492	INTRON	Ca_26293	--	--
scaffold80_P3_264906	scaffold80	264906	ATTTTT/ATTTTTT	GTTGCTGGGGATTGTC ATCT	CCATGTGGTGATGCTA CCAG	59.9	671	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 (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
scaffold80_P3_273178	scaffold80	273178	T/TC	CTCTCATCTGAGGGCA AAGC	TCGATTGGCTTAAAC CTGG	60.1	409	INTERGENIC	--	--	--
scaffold80_P3_354427	scaffold80	354427	GTTTT/GTTTTT	CGCACTCAAATTCCTCC TTC	TTGGAAGGAGCCCTTA CCTT	59.8	360	INTERGENIC	--	--	--
scaffold80_P3_43435	scaffold80	43435	TAAAAA/TAAAAA	CACGTGAGTGACAGAGG AAGA	TTCTCGGGCTAAAATC ATGG	60.2	708	INTERGENIC	--	--	--
scaffold80_P3_43513	scaffold80	43513	AGGG/AGG	CCGAGCCAAATCCAA AATA	TTCTCGGGCTAAAATC ATGG	59.9	352	INTERGENIC	--	--	--
scaffold80_P3_56806	scaffold80	56806	GCC/GC	ATGCCTCCTTCTTCTCC CTT	GGAAATCATGTTTC ACGA	59.3	544	INTERGENIC	--	--	--
scaffold801_P3_10173	scaffold801	10173	CTTTTTTTTT/CTTTTTTTTTT	GGAAAATTAGCCACGG ATCA	GGGTATGAAGGGGTTA GGGA	59.9	421	INTERGENIC	--	--	--
scaffold801_P3_118356	scaffold801	118356	TG/TGAGTCGTGTAG	ATGGGCCACCGTGTTA GTAG	CAATTCTGCACGACT CAAA	59.9	507	INTERGENIC	--	--	--
scaffold801_P3_189547	scaffold801	189547	CTAAATTGATA/CTAAATTGATAAATTG ATA	CAGGAAAAAGAAGGAA CCGA	TGCAAACTTTCCAAT GTCA	59.3	637	INTERGENIC	--	--	--
scaffold801_P3_207271	scaffold801	207271	CAAAAAAA/CAAAAAAA	TCACAACTTGCTTATTT GCCA	TCACCTCATTCTGCA CTCCT	59.4	519	INTERGENIC	--	--	--
scaffold801_P3_221247	scaffold801	221247	CAAAAAAATAAAAAAATA/CAAAAAA AATA	AGCACTATGCTAGGCT CCCA	GATGCAAAGGAAAAAG CAGC	60.0	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 (°C)	Expected 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_P3_229528	scaffold801	229528	GGATGATGATGATGATGAT/GGATGAT GATGATGAT	TCTGCATGAATTGATAT GGAGAA	TCAACAAATGCACTTG GCTC	59.6	431	INTERGENIC	--	--	--
scaffold801_P3_260922	scaffold801	260922	GTATATATATATATATAT/GTATATATAT ATATATATATATAT	TCGTCCGTAAAAGATAC CGC	GGACCAAAATTTGAGC AACAA	60.1	658	INTERGENIC	--	--	--
scaffold801_P3_260992	scaffold801	260992	CATAT/CAT	TCGTCCGTAAAAGATAC CGC	GGAGGACCAAAATTTG AGCA	60.1	661	INTERGENIC	--	--	--
scaffold801_P3_43318	scaffold801	43318	TT/TTTTTAT	CTTCCAAGATTGCTCTT GCC	CAAGCTTGGGAGGAAT GAGA	60.0	329	INTERGENIC	--	--	--
scaffold801_P3_46754	scaffold801	46754	TAAAAAAAAA/TAAAAAAAAA	AGGCGTGAAAAAGTTG ATGA	GATCAAGCCCAAAAG TCAA	58.4	350	INTERGENIC	--	--	--
scaffold801_P3_54091	scaffold801	54091	GAAAAAAAAA/GAAAAAAAAA	CCTCAGATGAGAGCCA GGAC	CCAATGTAACACCCCG TTTT	59.9	461	INTERGENIC	--	--	--
scaffold801_P3_72301	scaffold801	72301	CTTTTTTTTTTT/CTTTTTTTTTTTT	TGTTAGCGTAACAAATG GGG	TGTGTTTTATGGATTG CGGA	58.6	557	DRR	Ca_26176	OE	WRKY
scaffold801_P3_74924	scaffold801	74924	ATTTTTTTTTTT/ATTTTTTTTTTTT	GCCACTTCCAACCTGG TAAA	GGAATGGAATGCAATG GAAG	60.0	651	INTERGENIC	--	--	--
scaffold801_P3_75364	scaffold801	75364	GTTATTATTATTATTAT/GTTATTATTAT TAT	TGCATTCCATTCCCCTT TTA	ACTAAAACCTATTCGG GGCG	60.3	397	INTERGENIC	--	--	--
scaffold801_P3_79233	scaffold801	79233	ATTTTTTTTTTT/ATTTTTTTTTTT	CTCGACACATTTCAAAG GCA	TTGACTGCTGTTGCGT TAGG	59.8	671	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 (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
scaffold801_P3_83817	scaffold801	83817	GAAAAA/GAAAAA	TTTCATTCCGTGTTGGC ATA	CCTCTTGCAACTGATG AGGA	59.9	482	INTERGENIC	--	--	--
scaffold803_P3_38995	scaffold803	38995	GC/G	TGAAAAAGCGCTGTAA ATGG	TTAGGTGGTACGGAAA TCGC	59.0	500	INTERGENIC	--	--	--
scaffold8054_P3_1926	scaffold8054	1926	AT/A	TGTTAATCCAATGCCGA TGA	GAATTTGGGATTTCAA CCGA	59.9	447	INTERGENIC	--	--	--
scaffold806_P3_11367	scaffold806	11367	GAAAA/GAAAAA	TTCGCAACTCCTCTCT CCT	TCAAGTATGGACACGC CAAA	60.0	489	INTERGENIC	--	--	--
scaffold8087_P3_931	scaffold8087	931	TTCT/TT	CCTACTCGGCTAGCCC TCTT	TGGAGAACTCTTCGG CTGT	60.0	372	INTERGENIC	--	--	--
scaffold809_P3_127745	scaffold809	127745	TATAATAATAATAATAATAATAATA ATAAT/TATAATAATAATAATAATAAA TAATAAT	TTGCCACATTACCAATC ACC	CTATTCCCATCTCTGG GGGT	59.3	353	INTERGENIC	--	--	--
scaffold809_P3_156393	scaffold809	156393	TAAAAAAAAA/TAAAAAAAAA	GAATCGGCAGATATGA AGGG	CTCCCCAGTTTGGTA GCCT	59.5	392	INTERGENIC	--	--	--
scaffold81_P3_30744	scaffold81	30744	CAAAAA/CAAAA	CCATTATGTTCTCCCG ATT	GAGGAATGGAGCTGTG TGGT	58.7	654	INTERGENIC	--	--	--
scaffold81_P3_91419	scaffold81	91419	A/AC	TGAGGAGAAACAAAT GGGG	ATGGAAGGGTCGTGA CATT	59.9	458	INTERGENIC	--	--	--
scaffold811_P3_125062	scaffold811	125062	AATATATATATATATATATATA/AATA TATATATATATATATATATATATATA	TTGGTATTGAACTCGG AGGC	GGTTTTGCATGCATGT TGAG	60.1	628	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
scaffold811_P3_142299	scaffold811	142299	TA/TTAA	AAATGGAGTCACGATC AGCC	CAAAATGGATCGAAA TCCG	60.1	990	INTERGENIC	--	--	--
scaffold811_P3_159571	scaffold811	159571	TTATATATATATATATATATATATAT/TTATATATATATATATATATATATAT	TTGCAACATGCTATTTCC CCA	TGGGTGCTATTTGCAA TCAA	60.1	613	INTRON	Ca_27462	--	--
scaffold811_P3_202727	scaffold811	202727	TTATATTTGTTATTATATATTTGTT/TTATATTTGTT	CAAAATTGAGTTGTCAA ATAAAAATG	TCCAATTGAAATCGAG GAGC	58.3	513	INTERGENIC	--	--	--
scaffold811_P3_2791	scaffold811	2791	ATTTTTTT/ATTTTTT	CACACACACAAAAACAA AAACAAA	TCTGTTTGCTGATGCC AGTC	59.9	416	INTERGENIC	--	--	--
scaffold811_P3_56559	scaffold811	56559	GATATATATATATATATATATATAT/GATATATATATATATATATATATATAT	TTTAACGTGTCGCTCT TTG	GAATAAAATGCACCGG CACT	59.9	748	INTERGENIC	--	--	--
scaffold812_P3_202003	scaffold812	202003	TAAAAAAA/TAAAAAAA	AAATAGGGGGACCAAT TTCG	GCTTACCCAACAAAAC GGAA	60.0	462	INTERGENIC	--	--	--
scaffold812_P3_206693	scaffold812	206693	TAAAAAAAAA/TAAAAAAAAA	GCTGGACTCAATTCTT TAATTCC	GCTTACACATTTCTCC CCGA	59.5	401	INTERGENIC	--	--	--
scaffold812_P3_213139	scaffold812	213139	TTTTTATTTA/TTTTTATTTTATTTTA	GCGCACAAAGTCAAGA ATGA	TAGGTTGGACGTCTTG TCCC	60.0	224	INTERGENIC	--	--	--
scaffold812_P3_215247	scaffold812	215247	TGG/TG	AGAAGGAACAACGAGA ACGC	TGTCCTTCTCATTGGG AACC	59.5	178	INTERGENIC	--	--	--
scaffold812_P3_215880	scaffold812	215880	TAAA/TAAAA	GAGCGCTGTAAAAGAC CACC	TTGTCCCATGCAAGGT TAGG	59.9	760	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
scaffold812_P3_219120	scaffold812	219120	ATTTTTTTT/ATTTTTTT	GGGAGATAAGTACCGC CTCC	CGCACACGAAATATC ACCA	59.9	832	INTERGENIC	--	--	--
scaffold812_P3_219294	scaffold812	219294	TCATA/TGCTACATA	GAATGCCACGACATG TTTA	CGCACACGAAATATC ACCA	59.4	486	INTERGENIC	--	--	--
scaffold812_P3_231477	scaffold812	231477	TAA/TAAA	CCACAACGACCGACTC TTTT	CCATCTCATTTTCTCCC ACC	60.1	535	INTERGENIC	--	--	--
scaffold812_P3_240537	scaffold812	240537	TAAAAAAAA/TAAAAAAAA	CTGATGCTCACTTTTTG CCA	TCCATTCACATTAATGC ACGA	60.0	409	INTERGENIC	--	--	--
scaffold812_P3_245558	scaffold812	245558	GAAAAAAAA/GAAAAAAAA	CAAAGTCTTCACACAC GACA	TGTTGACTCCAGTCAC CGAG	59.8	736	INTERGENIC	--	--	--
scaffold812_P3_283446	scaffold812	283446	TAAAAAAAA/TAAAAAAAA	TTCACGATGTGGAATC GAA	AGCCTCTCGAAGCACT TGAC	60.0	663	INTERGENIC	--	--	--
scaffold812_P3_315428	scaffold812	315428	CCTG/CCTGAAGTCTTTAGAGGTGCTG	GACATCAATGGTGCAC TTGG	GGGCTCCTCAATTCTT TTCC	60.0	786	INTERGENIC	--	--	--
scaffold812_P3_320576	scaffold812	320576	ATTTTTTTTTTT/ATTTTTTTTTTTTTTT	AAAACGTTGGAGCATT TGC	AGGGAAATGGAACCTCA ACCC	60.1	442	INTERGENIC	--	--	--
scaffold812_P3_323994	scaffold812	323994	CAAAAAAAAA/CAAAAAAAAA	TTGCATGCATTCTTGT GTT	TACAAGACCAGAGGGG AACG	60.1	357	INTERGENIC	--	--	--
scaffold812_P3_336180	scaffold812	336180	ATTTTTTTTTTT/ATTTTTTTTTTT	CGGAAAGATTTTCACT TTGG	CATTCTTTGTTCAATGG GCA	58.7	815	DRR	Ca_23375	E	B3

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 (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
scaffold812_P3_340460	scaffold812	340460	GTAATAATAATAATAATAATAAT/GT AATAATAATAATAATAATAAT	AGGAGGACACCAAAAT GCAC	TTTCCCGTTAAGACAG TGCC	60.0	402	CDS (large-effect mutations)	Ca_23376	--	C2H2
scaffold812_P3_354262	scaffold812	354262	TTTCTTCTTCTTCTTCTTCTTCTTCT T/TTTCTTCTTCTTCTTCTTCTTCTT CTTCTTCT	GCTACGGCTAGTGCCT TCAC	GTCAAAGCAACGATC AGCA	60.0	514	INTERGENIC	--	--	--
scaffold812_P3_375658	scaffold812	375658	CTTTTTTTTTT/CTTTTTTTTTT	TGCTGGATGAAAATGC CATA	CCTTCGAAAAATGCGC TACT	60.0	324	DRR	Ca_23377	--	--
scaffold812_P3_427723	scaffold812	427723	ATTTTTTTTTT/ATTTTTTTTTT	AACCAAAATCTGTTTG CGG	GCCCTCAGATGAGAGT CAGG	60.0	746	INTERGENIC	--	--	--
scaffold812_P3_449748	scaffold812	449748	TAAAAAAA/TAAAAAAA	TCCCGTTTGAAAAGTAT GGC	TGCAATGCAATGTCCA TTTT	59.9	391	DRR	Ca_23379	--	--
scaffold812_P3_471428	scaffold812	471428	AT/ATT	TCTGATGCGTTTCTTGA TGC	TTGGTGTGTCGAGTTG GGTA	60.0	580	INTERGENIC	--	--	--
scaffold812_P3_491337	scaffold812	491337	AGGGGGG/AGGGGGG	TATTCGACCGACCCGT TAAG	CAATCCTCGAGTTTCC ATCC	60.0	170	INTERGENIC	--	--	--
scaffold812_P3_523681	scaffold812	523681	AAACTCAAACCAATAACTCAAACCAAT AACTCAAACCAATAAC/AAACTCAAACC AATAACTCAAACCAATAAC	CCTTATAACATGTTGGG CCG	GGAATGGGAAGGGTC ATTTT	60.2	565	INTERGENIC	--	--	--
scaffold812_P3_525957	scaffold812	525957	AT/A	TCGACTTGTCAATCGCT TTG	CACTCCAGTGCTGAGG GAAT	60.0	215	INTERGENIC	--	--	--
scaffold812_P3_526031	scaffold812	526031	TGG/TG	TCGACTTGTCAATCGCT TTG	CACTCCAGTGCTGAGG GAAT	60.0	215	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_P3_540816	scaffold812	540816	TTATATATATATATAT/TTATATATAT ATATATATATAT	GTAAATGAAGCGCTT CGC	TTGCAATCTCATCAACT CGG	60.0	916	INTERGENIC	--	--	--
scaffold812_P3_66299	scaffold812	66299	CTTTTT/CTTTTTT	AGGGCTTTGCAGACTT GTGT	TTGTGGAGAGGGAACG AATC	59.9	258	INTRON	Ca_23368	A	--
scaffold814_P3_6781	scaffold814	6781	AATATATATATATATATATATATAT ATATAT/AATATATATATATATATATA TATATATATATATAT	ACCCTATGAAAAGGGG TTGG	AATCCGGTAAAATCTC CGCT	60.0	894	INTERGENIC	--	--	--
scaffold820_P3_15078	scaffold820	15078	A/AG	TCATCATGGGCTTACG ACCT	GGCCAAACCCATTAAA ACCT	60.5	343	INTERGENIC	--	--	--
scaffold820_P3_25400	scaffold820	25400	T/TTCA	GCTTGTCCAATGGGTA TGGT	GGTACCCGAAGACACA AGGA	59.7	841	INTERGENIC	--	--	--
scaffold820_P3_40822	scaffold820	40822	TC/TCC	GACACCAGGAGGCATG TTTT	GGAAGGCTTGTCGACT TGAG	60.0	391	DRR	Ca_27425	--	B3
scaffold8200_P3_526	scaffold8200	526	T/TTC	CCAATCATGCACCCC TAGT	TTCGATTTTGATGTGG GACA	60.0	388	INTERGENIC	--	--	--
scaffold8210_P3_907	scaffold8210	907	G/GA	GATGATGAGCAAGGCA ATCA	AACTCAGCCTCCCCTT TTGT	59.8	171	INTERGENIC	--	--	--
scaffold822_P3_22570	scaffold822	22570	ACC/AC	AGCCAAGGGAGGACAA AAAT	TGTGCATCCAAGAGGT GTGT	59.9	667	INTERGENIC	--	--	--
scaffold8226_P3_1577	scaffold8226	1577	TAAAAA/TAAAAA	TGATGAGATGGAAGAC CGAA	TTCGGGCATAGTAAAA TAAATGG	59.2	529	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 (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
scaffold823_P3_27983	scaffold823	27983	AT/A	GATGAAATCGAGGACC AGGA	CTGACGCAGAACTCCA AACA	60.0	404	INTERGENIC	--	--	--
scaffold824_P3_11902	scaffold824	11902	TAT/TATTATGTTGTTTGAT	TGGTCGACAAGCAACT GAAG	CTCCCCCTTTTGGCA TAAT	60.0	518	INTERGENIC	--	--	--
scaffold824_P3_4509	scaffold824	4509	T/TG	GAGGACGAAAATGACC CAAA	ATTTCCATCCTTCCTTG GCT	59.9	112	INTERGENIC	--	--	--
scaffold824_P3_6128	scaffold824	6128	CA/C	CACCCAGTTTTGAGG GTAA	CGATTGTGTTGTAC AGGG	59.8	191	INTERGENIC	--	--	--
scaffold829_P3_10973	scaffold829	10973	T/TA	TTTATTTGACAACTCGT TTTTGTT	GAGCGAATTGAGAAAC GAGG	57.1	799	INTERGENIC	--	--	--
scaffold829_P3_8235	scaffold829	8235	CTTTT/CTTTTT	TGTTTGAAATATGACGC GGA	TTTCGGTCCATTTAGT CGG	60.1	583	INTERGENIC	--	--	--
scaffold8301_P3_5942	scaffold8301	5942	T/TA	ATGTCGCGTCTTCATCA ACC	ACAATTATCCGTGTC GCGT	61.1	546	INTERGENIC	--	--	--
scaffold8314_P3_1258	scaffold8314	1258	CTTTTTTTT/CTTTTTTTT	AATTTAGCTCATTGCTG CCG	TACCTCCTTTGGAAGC ATGG	60.4	353	INTERGENIC	--	--	--
scaffold8314_P3_868	scaffold8314	868	CAAAAAAAAA/CAAAAAAAAA	TGAATGTTGCATGGT TATCA	GTGGGAAGTGGTAGA GTGCG	59.8	415	INTERGENIC	--	--	--
scaffold8315_P3_17783	scaffold8315	17783	GTATATATATATATATAT/GTATATAT ATATATATATATATATAT	AGGGTCTCCAAGTCCT CGAT	TTTTAGGGCTAGTTGT ACACATGAA	60.1	377	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> reference genome-CD 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
scaffold8315_P3_18988	scaffold8315	18988	TAAAA/TTTTAAAAA	AAAAATTTATATTGCGT CAATTTGG	GTGCTGGCCATAGGAA ATGT	59.6	565	INTERGENIC	--	--	--
scaffold8315_P3_20462	scaffold8315	20462	GTTT/GTT	AAAAGGATATTCAACTC TCCAAAAA	CGATTTTGCTACACAA AATTTCC	58.7	759	INTERGENIC	--	--	--
scaffold8328_P3_1338	scaffold8328	1338	AC/A	AAGCCTAGGGAGGACG AAAA	TTGTGCACCCGATAAG TTCA	60.2	660	INTERGENIC	--	--	--
scaffold8378_P3_1988	scaffold8378	1988	C/CG	AGCAACCACTCGCTTC AAAT	CAATATTGCTAGGCGC AACA	59.9	458	INTERGENIC	--	--	--
scaffold8412_P3_961	scaffold8412	961	TAAAAAAA/TAAAAAAA	TTTTCACATTTCAAAG CATGA	TCACATCTTCCTTATG CCGC	58.3	342	INTERGENIC	--	--	--
scaffold842_P3_20647	scaffold842	20647	TA/TAA	TGATTCTGTGAACACC CAA	AACCAAAACACACAAG AAATATGA	58.8	332	INTERGENIC	--	--	--
scaffold843_P3_1852	scaffold843	1852	GCC/G	TTTCGGTCCATTTTGC TTC	TCCTGGTCTCGATT CATC	60.1	283	INTERGENIC	--	--	--
scaffold8442_P3_1501	scaffold8442	1501	CA/C	AACCAAACTGGTGCAT CACA	AGCCTAGGGTGGACG AAAAT	60.0	676	INTERGENIC	--	--	--
scaffold8445_P3_5721	scaffold8445	5721	TAA/TA	CATCTACGCGTGTGT CGTAA	TGCATAAAATACCAT GCCA	59.8	206	INTERGENIC	--	--	--
scaffold845_P3_116005	scaffold845	116005	TAAAAAAAAA/TAAAAAAAAA	GGGATCATGCTCATTG CTTT	TTTTGACCAAAAAGTT GCTG	60.0	691	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 (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
scaffold845_P3_11900	scaffold845	11900	TATATTTAAA/TATATTTAAATAATAA TTTAAA	GCTTCTTGAGATACC GTGCC	TGTGAACACGACCTCT CCCT	61.1	535	INTERGENIC	--	--	--
scaffold845_P3_119057	scaffold845	119057	CAA/CAA	TAGTTCTCATACCCGCA CCC	CACGTGCATATTTAAG GTGTTGA	60.0	456	INTERGENIC	--	--	--
scaffold845_P3_121959	scaffold845	121959	TG/TGG	ACATTTGAATGGACGAA GGG	GAAAGCGATTGGGAAA ATCA	59.8	531	INTERGENIC	--	--	--
scaffold845_P3_132751	scaffold845	132751	CAAAATAAT/CAAAATAATAAT	AGTGTGTTTGGGTTG GGAG	TCGATTGACATTTGC GTGT	59.9	526	INTERGENIC	--	--	--
scaffold845_P3_133191	scaffold845	133191	CAAA/CAA	CCACCAAAAACCAACCA ACT	GGCCTAACCTGGAAGC CTAT	59.7	730	INTERGENIC	--	--	--
scaffold845_P3_135045	scaffold845	135045	GTAATAAATAAATAAATAA/GTAATAA AATAAATAA	ACATCTTGCACTCCCAA TGA	CGGGAGCTGAGAGTTA AAGG	59.1	811	DRR	Ca_22417	U	--
scaffold845_P3_149396	scaffold845	149396	CAAAAAAAAA/CAAAAAAAAA	TCAAACGGTGGTGTC AAAA	TCGCATAGAGTTGT TGGG	60.0	777	INTERGENIC	--	--	--
scaffold845_P3_151479	scaffold845	151479	ATTTTT/ATTTTTCAATTACTTTTT	ACCCGTTATCCACCCC TAAC	TTGCAAAATCTTCTT TAATGATGT	59.9	556	INTERGENIC	--	--	--
scaffold845_P3_151708	scaffold845	151708	ATAATTATA/ATAATTATATGTAATTATA	AGCACGATAAGTCATC AAGCAC	TAAATGCCTCGTGCTA ACCG	59.4	851	INTERGENIC	--	--	--
scaffold845_P3_151765	scaffold845	151765	CA/CAA	TGAAAGATTTTGTATTG AAAGTCCA	TAAATGCCTCGTGCTA ACCG	59.1	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
scaffold845_P3_152531	scaffold845	152531	GTACTTAC/GTACTTACTTAC	CACGTGCAAGTAAAAG CCAA	TGCTGCACCATAATTC CAAA	59.9	537	INTERGENIC	--	--	--
scaffold845_P3_170397	scaffold845	170397	GATATAATATATAATATATA/GATATAAT ATATA	ATTTGGTGCGCATGAT AAGA	TTTACAAGGGTATTTT GTGATTAC	59.1	469	INTERGENIC	--	--	--
scaffold845_P3_170625	scaffold845	170625	ATTT/ATTTT	ATTTGGTGCGCATGAT AAGA	AAAAATGAGGTGGGT AGAAATTA	59.1	777	INTERGENIC	--	--	--
scaffold845_P3_172781	scaffold845	172781	TG/T	CATGCTTGCTCATTCTT GGA	TGTGGCACAGTTGGAA AGTG	59.9	593	INTERGENIC	--	--	--
scaffold845_P3_175162	scaffold845	175162	AA/AATTA	AAAGGGCTCCTGCAGG TAAT	TGATTAATTTTGAACG GCA	60.1	435	INTERGENIC	--	--	--
scaffold845_P3_175358	scaffold845	175358	AACATTACT/A	TGCCGTTGCAAAATTA TCA	TGGGTGGTGTGTGTGT GTGA	60.1	404	INTERGENIC	--	--	--
scaffold845_P3_1775	scaffold845	1775	GA/GACCCAA	CAACATTTTGGGTGCAT TTG	TTCTTATGCAATTG GTCC	59.8	132	INTERGENIC	--	--	--
scaffold845_P3_17826	scaffold845	17826	G/GT	AGTGCCACTTTCGCAC TTTT	CACTTGGCTTTTGGT TTGG	59.9	719	INTERGENIC	--	--	--
scaffold845_P3_18044	scaffold845	18044	GAAGTTATAGTCTAAA/GAA	AGTGCCACTTTCGCAC TTTT	TGGGGGACCGCAATAT AGTA	59.9	784	INTERGENIC	--	--	--
scaffold845_P3_187915	scaffold845	187915	TAAAAAAAAA/TAAAAAAAAA	TTTGACCGGACCACCT TTAC	GAAAATAAAGGGAGGG GCAG	59.8	260	DRR	Ca_22421	--	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 (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
scaffold845_P3_18879	scaffold845	18879	TTAC/T	AATCACGATTGGTGTT GTCCT	CGCACGAAAAGTGCA TATTG	59.3	823	INTERGENIC	--	--	--
scaffold845_P3_2125	scaffold845	2125	CTAATTAA/CTAA	CAACATTTTGGGTGCAT TTG	TGGTTATTTTGCATGTA GCGA	59.8	657	INTERGENIC	--	--	--
scaffold845_P3_2172	scaffold845	2172	TT/TTCTTTAGT	CAACATTTTGGGTGCAT TTG	TGGTTATTTTGCATGTA GCGA	59.8	657	INTERGENIC	--	--	--
scaffold845_P3_22034	scaffold845	22034	G/GT	CCCTGAAATGCACAAC AAGA	TTGTTGGTGGCTAAAA GCCT	59.7	651	INTERGENIC	--	--	--
scaffold845_P3_22084	scaffold845	22084	TG/TGG	CCCTGAAATGCACAAC AAGA	TTGTTGGTGGCTAAAA GCCT	59.7	651	INTERGENIC	--	--	--
scaffold845_P3_226049	scaffold845	226049	AAATAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATA/AAATAATAATAATAATAATAAT AATAATAATAATAATAATAATAATA ATAATAATAATA	CAGAGTTAATGAACCC ACACTCA	GGGTCCATTGGTTTTA CACG	59.2	591	INTERGENIC	--	--	--
scaffold845_P3_228072	scaffold845	228072	GAAAAAAAA/GAAAAAAAA	GAGTAATATGGTGCAG CGAG	TAGTCGCCACAGAA GACA	60.6	540	INTERGENIC	--	--	--
scaffold845_P3_2505	scaffold845	2505	ATTTTT/ATTTTTTT	TCGCTACATGCAAAATA ACCA	TCACGTCACTTTTTCAA ATGG	59.2	388	INTERGENIC	--	--	--
scaffold845_P3_26646	scaffold845	26646	ATTTT/ATTTTT	ACCCTGGCAGTGGTAT CAAG	GTTTCATTTACGCGGT CGAT	60.0	514	DRR	Ca_22410	--	bHLH
scaffold845_P3_27864	scaffold845	27864	AT/ATT	CTCAAGGCCAAAAAGG ATCA	TGAAATGAAGGCTGGG GTTA	60.2	804	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 (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
scaffold845_P3_281210	scaffold845	281210	TCCCC/TCCC	TGCAAAGATCAATCTTG GGTT	GTGGGTACGTCCAGT CCTC	59.6	806	INTERGENIC	--	--	--
scaffold845_P3_298387	scaffold845	298387	ACCTAAAGCCTAAAGCCTAAA/ACCTAA AGCCTAAAGCCTAAAGCCTAAA	GCAGTGCTATTGGAAG CACA	ATGGTTGACGGTTGTT TGGT	60.0	453	INTERGENIC	--	--	--
scaffold845_P3_326344	scaffold845	326344	TAAGAA/TAA	TTCCCTCTCGTAGCTTG TCTT	CAAAAATGTTGCAGTG GGTG	58.2	283	INTERGENIC	--	--	--
scaffold845_P3_331956	scaffold845	331956	TG/TGG	TTGCTTGGAAGGAAA ATCG	GGGGCCAAATAATGTT GCTA	60.2	802	INTERGENIC	--	--	--
scaffold845_P3_38901	scaffold845	38901	CAAAATAAAATAAAAT/CAAAATAAAATA AAATAAAATAAAAT	GGTGCAATGAGAAGC ACAA	AAAAGCATGCTGTCAA CCG	59.8	584	INTERGENIC	--	--	--
scaffold845_P3_40124	scaffold845	40124	ATTTTTTTTTT/ATTTTTTTTTT	GATTCCCTGCGATAA CAA	TGCAAGATGTTGATTG TGCC	59.9	737	INTERGENIC	--	--	--
scaffold845_P3_41535	scaffold845	41535	TAAAA/TAAAA	GCATTGCAACTTTGTG TGC	ACTTGGTGGGTCATGG AAAA	60.3	397	INTERGENIC	--	--	--
scaffold845_P3_47867	scaffold845	47867	GAAAA/GAAAA	AAGGGAAAAGGGTGTG TGTG	AATGCGACGTTTGATT TATCG	59.9	999	INTERGENIC	--	--	--
scaffold845_P3_48050	scaffold845	48050	ATT/A	TTGATAGGGATTGGAA TAAACAA	TTTGTGTTGGTGCGA CATT	57.6	427	INTERGENIC	--	--	--
scaffold845_P3_51448	scaffold845	51448	TAAAAAAA/TAAAAAAA	CACTTTTCTGGTGG CAT	GAAGGTTGTTGCACAC TTGC	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
scaffold845_P3_51778	scaffold845	51778	TAAAAAA/TAAAAAA	GTGCTCGCATTGTCT GTTG	TTCTCCACCGAGTCAT TTCC	60.5	753	DRR	Ca_22412	--	--
scaffold845_P3_51917	scaffold845	51917	TAAAAAA/TAAAAAA	GCAAGTGTGCAACAAC CTTC	TTCTCCACCGAGTCAT TTCC	59.3	296	DRR	Ca_22412	--	--
scaffold845_P3_52531	scaffold845	52531	TAAAAAA/TAAAAAA	GGAAATGACTCGGTGG AGAA	AGCTTCTGCTTTGCT TCGG	60.1	868	DRR	Ca_22412	--	--
scaffold845_P3_54498	scaffold845	54498	TTCTC/TTC	GGGATGGTAAGCAAGC CATA	TCCGATTTAAGACGG TACATT	59.9	547	INTERGENIC	--	--	--
scaffold845_P3_64302	scaffold845	64302	CT/CTGT	TGGATTCGTCCATCT GAA	ACAATTGCGCAAATTC CTCT	60.0	610	INTERGENIC	--	--	--
scaffold845_P3_69320	scaffold845	69320	TAAAAA/TAAAA	TGAGTGTGAGTCCGAA TGGA	GAACCCCAACCTGAAA ACAA	60.2	493	DRR	Ca_22414	R	--
scaffold845_P3_72603	scaffold845	72603	TGAGAGAGAGAGAG/TGAGAGAGAG GAGAGAG	GCAAACGAGAGAGGAC GAAC	AAAGACTGACCCATTC GGTG	60.0	230	INTERGENIC	--	--	--
scaffold845_P3_85471	scaffold845	85471	GTTTTTTTTT/GTTTTTTTTT	TGTTTTCAAATTTGTG CGCT	CCGAGGTAGCCTGGTC ATAG	60.6	623	INTERGENIC	--	--	--
scaffold845_P3_87178	scaffold845	87178	TCCCC/TCCCC	CATGACATTTGGAGTG CGAC	TGTTCAATGTTGGGCA TTTG	60.1	651	INTERGENIC	--	--	--
scaffold847_P3_117106	scaffold847	117106	TCAATCGATTGGGCAATCGATTG/TCA ATCGATTG	CCCGTGAGATCCTCCT AACA	CTCGTGTTCGTTCTGTG AGAA	60.1	642	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
scaffold847_P3_236694	scaffold847	236694	TAATAA/TAATAAAATAA	TCGTTTCGCAATGACTT CTG	CGACGCTTGATCGTTA ATTG	60.0	358	INTERGENIC	--	--	--
scaffold847_P3_346878	scaffold847	346878	AAATATTAATATTAATATTAATA/AAATA TTAATATTAATA	GACCAAAGTGTTTGTG TCCCT	AATGGGCGCTGTAA TGTC	59.0	366	INTERGENIC	--	--	--
scaffold8479_P3_1012	scaffold8479	1012	TG/T	GGGGCATGTTTGGTTT AGTTT	CCCTCCGAACATATC ATCA	60.1	815	INTERGENIC	--	--	--
scaffold848_P3_234472	scaffold848	234472	TTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC CTC/TTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC	TTGATGTCAAGTCGGT GGAG	GCGGAATCATTAAAGG ACGA	59.7	550	INTERGENIC	--	--	--
scaffold848_P3_23907	scaffold848	23907	T/TG	CAAACGAAAATGCAAG CTCA	TGCGTTTTACCACTCA CACG	60.0	360	INTERGENIC	--	--	--
scaffold8483_P3_24136	scaffold8483	24136	TAAAAAAAAA/TAAAAAAAAA	GAAGATGCACCTCCAAT CGGT	GCCGAAGTTTCCGATA AACA	60.1	350	INTERGENIC	--	--	--
scaffold8483_P3_35890	scaffold8483	35890	CAAAAAAAAA/CAAAAAAAAA	CAAGTGAAACCGAAGA CGTAGA	ACTGGCCTTGGTGATC TAGC	59.4	523	INTERGENIC	--	--	--
scaffold8493_P3_18046	scaffold8493	18046	ATTTT/ATTT	TGCACAGTCAATAGGC TTCG	TGCGGGAGACATTGAT GATA	60.0	547	INTERGENIC	--	--	--
scaffold8493_P3_8828	scaffold8493	8828	CAAAAA/CAAAAA	TCCGAACCTTTTATTA TGCAG	GAATGCTAGCTTCGCC TCTG	58.3	646	INTERGENIC	--	--	--
scaffold8493_P3_9496	scaffold8493	9496	A/AT	CGACCATGATTTAACGA CCA	GTTTTCAAGAGGTGGC CTTG	59.4	360	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
scaffold8493_P3_9950	scaffold8493	9950	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	CAAGGCCACCTCTTGA AAAC	GCCCATTCAGACAAGT CCAT	59.7	412	INTERGENIC	--	--	--
scaffold855_P3_30812	scaffold855	30812	TTATATATATATATATATATATA/TTATA TATATATATATATATATATA	AGGCCGTGATGTTTT GAAC	GCATCATATGTGTGGG CAAG	60.0	268	INTERGENIC	--	--	--
scaffold855_P3_30893	scaffold855	30893	ATT/ATT	AGGCCGTGATGTTTT GAAC	GCATCATATGTGTGGG CAAG	60.0	268	INTERGENIC	--	--	--
scaffold855_P3_31194	scaffold855	31194	ACCC/ACC	CTCGTACGCTTTTGGT GTGA	GTAGGGGGTAGAAAAC CCCA	59.9	556	INTERGENIC	--	--	--
scaffold855_P3_31470	scaffold855	31470	TTAATATCC/T	AATTGGATACCCCTTTT GGC	GTAGGGGGTAGAAAAC CCCA	60.0	384	INTERGENIC	--	--	--
scaffold855_P3_31510	scaffold855	31510	TTAT/TTATATAT	AATTGGATACCCCTTTT GGC	GTAGGGGGTAGAAAAC CCCA	60.0	384	INTERGENIC	--	--	--
scaffold855_P3_31739	scaffold855	31739	AC/A	AATTGGATACCCCTTTT GGC	TGATTGAAACATTAAAC TCCCA	60.0	561	INTERGENIC	--	--	--
scaffold8565_P3_6875	scaffold8565	6875	GTTTTTTTT/GTTTTTTTTTT	TGACCAAAATCCATCCC TTC	TTACAGCGCTTGTTCCAA	59.7	517	INTERGENIC	--	--	--
scaffold857_P3_17924	scaffold857	17924	CT/C	CCCCCTTTTGCATAAG TGA	ACGTTGAGGAGACACC TGCT	59.9	576	INTERGENIC	--	--	--
scaffold857_P3_26616	scaffold857	26616	T/TC	GACGAGAATGGAGATG GGAA	TAACCAAGGTTCAACA GCC	60.0	392	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 (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
scaffold859_P3_19948	scaffold859	19948	A/ATAATTATAT	TTTAAGTAGACTGCCTT ATCGTGTTT	AACTGGAAGTCAACAG GTATGGA	59.0	589	INTERGENIC	--	--	--
scaffold859_P3_27190	scaffold859	27190	CTGT/CTATTGT	TGGAGGTTAAACTCAA GCCG	ACTTTGCATCCTCTGC ATCC	60.2	579	INTERGENIC	--	--	--
scaffold859_P3_63579	scaffold859	63579	TAAA/TAAAA	TTGGCCAAGTCCCTGT TTAC	TAAATCGTGTGACCC GTGA	60.0	533	INTERGENIC	--	--	--
scaffold862_P3_56608	scaffold862	56608	TTGAAC/T	TAATTTTCGTGCCCTT GAC	CCGTGGGTACAAAAT CGCT	59.9	344	INTERGENIC	--	--	--
scaffold864_P3_138142	scaffold864	138142	GTATATATATATATATATATAT/GTAT ATATATATATATATATATATAT	GCTCTCACACACAAAA GGC	TTGACAGTGAAACGAA AGCG	59.5	342	INTERGENIC	--	--	--
scaffold864_P3_221220	scaffold864	221220	GGAGAGAGAGAGAGAGAGAGAGAGA GAGA/GGAGAGAGAGAGAGAGAGAGA GAGAGAGAGA	TAACCCAAAAATCCCAA CCA	GGGTACAGTCCTTGTC TACC	60.0	377	INTERGENIC	--	--	--
scaffold864_P3_236210	scaffold864	236210	AAGAGAGAGAGAGAGAGAGAGAGA/A AGAGAGAGAGAGAGAGAGAGAGAGA	CTAGCAGGAGTCAACC AGCC	TTTTGCCTCAACAATCT CCC	60.0	570	INTERGENIC	--	--	--
scaffold864_P3_247808	scaffold864	247808	TGGGG/TGGGGG	TTCTGCCCTCATGGATT TTC	CATGGCTCGAGTGAAA CAGA	60.0	349	CDS (FRAME SHIFT)	Ca_24213	--	--
scaffold864_P3_294304	scaffold864	294304	GAAAA/GAAAAA	CCGTTGGTCTGTCATA TCTT	GTACAGCACGCAAGGA GTGA	59.8	520	CDS (FRAME SHIFT)	Ca_24215	--	Trihelix
scaffold864_P3_51789	scaffold864	51789	GTTTTTTTTTTTT/GTTTTTTTTTTTT	AATCCACGCTGAA CAAC	GAGCAGTAGATGGACG CACA	60.0	552	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 (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
scaffold8646_P3_2560	scaffold8646	2560	TATT/TATTTTAAATT	CTTCCTCACAATGATG CGA	ATTCGTAATAGGAGGC CGCT	59.8	621	INTERGENIC	--	--	--
scaffold8646_P3_2642	scaffold8646	2642	TTTTAATTTA/TTTTA	AGTCTACGACGAAGCG TTCC	ATTCGTAATAGGAGGC CGCT	59.5	481	INTERGENIC	--	--	--
scaffold8646_P3_2745	scaffold8646	2745	TAAAAA/TAAAAAA	AGTCTACGACGAAGCG TTCC	TCCATAGGAGGTCGAT GGTC	59.5	532	INTERGENIC	--	--	--
scaffold866_P3_142556	scaffold866	142556	TAAAA/TAAAA	GCAGCGGTTCCAAAT AGAG	GGTGGCATAGTATCAC GCCT	59.8	571	INTERGENIC	--	--	--
scaffold866_P3_142956	scaffold866	142956	CTT/CT	GGATCCCCAATCGATA ACCT	CTGTTGAGCCTTAGGG CAAG	60.0	450	INTERGENIC	--	--	--
scaffold866_P3_36146	scaffold866	36146	CA/CAGA	GAACAACAAGTGGGAT GCCT	TGTGAAAAATGAACAC CCCA	60.0	360	INTERGENIC	--	--	--
scaffold866_P3_36277	scaffold866	36277	ACCC/ACC	GAACAACAAGTGGGAT GCCT	TGTGAAAAATGAACAC CCCA	60.0	360	INTERGENIC	--	--	--
scaffold866_P3_64123	scaffold866	64123	GTT/GTTT	TCGCGAAGAGATAAAG GGAA	AAGTGCCAATTACCGA GGTG	59.9	631	INTERGENIC	--	--	--
scaffold868_P3_30710	scaffold868	30710	TGG/TG	AGGGAGGACGAAAATG ACCT	AGGGTTTTTGCCCAAT CTTT	59.9	180	INTERGENIC	--	--	--
scaffold868_P3_31662	scaffold868	31662	GAAAA/GAAAAA	TTGGACCAGAATAAGC CCAG	TTATGTCAATTTTCGGC CTCC	60.1	836	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 (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
scaffold869_P3_111690	scaffold869	111690	TTGTCAATCGATTAGCCTGTCAATCGA TT/TTGTCAATCGATTAGCCTGTCAATC GATTAGCCTGTCAATCGATT	TCCCAATCGATGTGTT CAA	GCTGATGCCATGAAGG AAAT	59.9	372	INTERGENIC	--	--	--
scaffold869_P3_25311	scaffold869	25311	CAG/CAGAG	AATGAAGGAATGGGT TCCC	GAATTGTTGCAAGGC ATTT	60.0	627	INTERGENIC	--	--	--
scaffold869_P3_26934	scaffold869	26934	CAAAAA/CAAAAAA	GCACTGCCCAAGAAT TTTA	GTGGAGATCACTCGG TTGT	60.1	209	INTERGENIC	--	--	--
scaffold869_P3_39678	scaffold869	39678	TTATATATATATATAT/TTATATATAT ATATAT	GTAAATGAAGCGCTT CGC	GCATTCTCACTGCAA ACTCA	60.0	658	INTERGENIC	--	--	--
scaffold869_P3_39714	scaffold869	39714	TTATATATATATATATATATATATA T/TTATATATATATATATATATAT	GTAATGAAGCGCTT CGC	GCATTCTCACTGCAA ACTCA	60.0	658	INTERGENIC	--	--	--
scaffold87_P3_370040	scaffold87	370040	CTATGAGATTA/CTATGAGATTATGAGA TTA	TTGGGGTTCCTCCATT GTC	AAGATTGGGCTCTGCA AAAA	59.8	658	INTERGENIC	--	--	--
scaffold87_P3_418061	scaffold87	418061	TTATATATATATATATA/TTATATATA TATATATATATA	TGTGGAAATTGTGGG TGAA	CACTAGCATCGTAGCG TGGA	59.8	449	INTERGENIC	--	--	--
scaffold87_P3_489671	scaffold87	489671	ATTTTTTTTT/ATTTTTTTTTT	CAAATCCACATAAAGT GCG	GCTTGGGCTAAGTGGT GTTT	60.0	310	INTERGENIC	--	--	--
scaffold87_P3_521197	scaffold87	521197	TAAAAAAAAA/TAAAAAAAAA	TCTTGTGCATGAATCCC AAA	CATACGTCGTGGGACT GTTG	60.0	528	INTERGENIC	--	--	--
scaffold870_P3_32135	scaffold870	32135	CTTTTTTT/CTTTTTTTTTTTT	CATGAGGCCACCAACT TTTT	TCGTGGTTTTCTGGG AGAC	60.0	407	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
scaffold870_P3_39934	scaffold870	39934	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTAT/TTTATTATTAT TATTATTATTATTATTATTATTATTATTA TTATTATTAT	AGAGGCAAACAAGAAC CGAA	GGTGAGCCACCTTCAT TTGT	59.9	517	INTERGENIC	--	--	--
scaffold870_P3_55448	scaffold870	55448	ATTTTT/ATTT	TTGGAAGGAGCCCTTA CCTT	ATCTGCCATTGAATT ACGG	60.1	527	INTERGENIC	--	--	--
scaffold870_P3_82445	scaffold870	82445	GT/GTT	TGGTGGTGCAATTCAC ATCT	TTTACCAGTCATGCTTT TTG	60.0	540	INTERGENIC	--	--	--
scaffold873_P3_18275	scaffold873	18275	GATATATATATATATATAT/GATATAT ATATATATATATATAT	TGTTGGGTCCACAAAG AGAG	TGTTGTTCTCCTCTGA CACAATG	58.7	402	INTERGENIC	--	--	--
scaffold873_P3_18311	scaffold873	18311	GAAAAAA/GAAAAAA	TGTTGGGTCCACAAAG AGAG	TGTTGTTCTCCTCTGA CACAATG	58.7	402	INTERGENIC	--	--	--
scaffold873_P3_19316	scaffold873	19316	GAAAAAAAAA/GAAAAAAAAA	CACAAGGGTGGGAAGA GAAA	TTGAGCAGATATGCCA AATAAA	60.1	361	INTERGENIC	--	--	--
scaffold873_P3_242601	scaffold873	242601	CTTT/CTTTT	AGCCGACAGGGTATCA GTTG	GAGGAGATTGTTACGC CTGC	60.1	598	INTERGENIC	--	--	--
scaffold873_P3_242750	scaffold873	242750	AG/AGG	AGCCGACAGGGTATCA GTTG	GAGGAGATTGTTACGC CTGC	60.1	598	INTERGENIC	--	--	--
scaffold873_P3_312052	scaffold873	312052	A/AAAT	GCCTGTGTGGCTGGTT TAAT	TGCACATTTTCTGTAA GCC	60.0	844	INTERGENIC	--	--	--
scaffold8734_P3_1079	scaffold8734	1079	TAAA/TAAAA	CTGTGACACCCTAAATC CCA	GATCTATGAGGACAGG GCCA	58.4	798	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
scaffold8734_P3_801	scaffold8734	801	TAA/TAAA	TTGGGCGAAAATGGAT AAAG	CCCCGCTCTGATAGT GATA	59.9	802	INTERGENIC	--	--	--
scaffold875_P3_108015	scaffold875	108015	TA/T	TGGACTGCTGGAAGAC ATTG	AGCCTCATATGGTGCC ATTC	59.8	729	INTERGENIC	--	--	--
scaffold875_P3_42116	scaffold875	42116	ATTTTT/ATTTTTT	TCCTCGTACAATCCTTG TTGG	TTTCCAAACAAACCC CCTT	60.0	539	INTERGENIC	--	--	--
scaffold876_P3_246323	scaffold876	246323	ATTT/ATTTTTTT	TCACATTGTAACCCCC AAA	AAAATTCTGTTGGGG GACC	57.3	604	INTERGENIC	--	--	--
scaffold876_P3_309079	scaffold876	309079	GAATAAATAAATAAATAAATAAAT AAATAAATAAATAAATAAATAAATA AATAAATAAATAAATAAATAAATA AATAAA	CATCACCACTGTAACA CCG	AAATTAGGGGTGTG GTAGC	59.9	308	INTERGENIC	--	--	--
scaffold876_P3_369643	scaffold876	369643	A/AC	AACGTACTGCCTATCAC GGG	GGTAAGGGCTCCTCC AAAC	60.0	836	INTERGENIC	--	--	--
scaffold876_P3_370087	scaffold876	370087	CAA/CAAA	CAACGAACACAAATCAA CGC	GCTACTCGCGACCACT TTTC	60.2	595	INTERGENIC	--	--	--
scaffold876_P3_4050	scaffold876	4050	TACGACGACG/TACGACG	AAATCCAACATTGCTCT GCC	CTATTGCACCTGGGA TACG	60.1	388	INTERGENIC	--	--	--
scaffold876_P3_436361	scaffold876	436361	TA/TAA	AAGATTCCCATGAAAT CCC	TTGGTATGAACCTCGG AGGC	60.0	514	INTERGENIC	--	--	--
scaffold876_P3_5429	scaffold876	5429	TTTATTATTATTATTATTATTATTAT TATT/TTTATTATTATTATTATTATTA TTATTATTATT	AGAGGCAACAAGAAC CGAA	TACGGCATAACAATTG CAGC	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 (°C)	Expected 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_P3_559069	scaffold876	559069	ATTTTTTTT/ATTTTTT	CTGGCCTGGCCTGTTT AATA	TCCTCTCAAACTC GGAA	60.1	381	INTERGENIC	--	--	--
scaffold876_P3_565718	scaffold876	565718	CATATATATATATATATATATAT/CAT ATATATATATATATATATATATAT	TTGGAAGGAGCCCTTA CCTT	TTGGTATTGAACTCGG AGGC	60.1	720	INTERGENIC	--	--	--
scaffold876_P3_622726	scaffold876	622726	TAA/TAAA	TCAGGAACAACAATCCA ATCC	TTACCCTCAAACTGG GGTG	59.8	331	INTERGENIC	--	--	--
scaffold876_P3_66026	scaffold876	66026	AATATATATATATATATATATA/AATA TATATATATATATATATA	GCACAAATTTATGGCC GTTT	AATGATGGATGAGGTG GAGC	59.8	418	INTERGENIC	--	--	--
scaffold877_P3_10844	scaffold877	10844	TAAAA/TAAAA	GCAGCAGTTGCAGCAG TTTA	TGATTAGCGTCGGTG TCAG	60.3	601	DRR	Ca_28083	F	--
scaffold877_P3_11191	scaffold877	11191	CTTTTTTTTTTTTT/CTTTTTTTT	CTGACACCGACGCTAA ATCA	AGTGCATAAGACCCGT TTGC	59.9	210	DRR	Ca_28083	F	--
scaffold877_P3_16327	scaffold877	16327	TA/TAA	GCAGACGGGTCTTATG CACT	CAAAATTCCTTGGACC ATGC	60.3	320	INTERGENIC	--	--	--
scaffold878_P3_43190	scaffold878	43190	AATATATATA/AATATATATATA	TTTGCAATTGGATTTT TCA	GGTTTAGCCATGTGTT TGGG	59.0	695	INTERGENIC	--	--	--
scaffold878_P3_43697	scaffold878	43697	AC/A	AACTGCGATTCCCAAA CAC	ATTGGGAGCTACCATG CAAC	60.0	489	INTERGENIC	--	--	--
scaffold8789_P3_619	scaffold8789	619	TGTTGTCTTTTTAGTTGT/TGTTGT	AGGGTTTAGGGTTTCT GGTTT	GATTGATGCACTAATT CGACG	58.1	417	INTERGENIC	--	--	--

INDEL marker IDs	Chromosomes/ unanchored scaffolds	Physical positions (bp)	InDels (<i>Kabuli</i> Frontier/PfII)	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
scaffold88_P3_198058	scaffold88	198058	GAA/GA	CCTTCGAGACCTCTTG TTGC	CAATGGCCAGTCCCTA AGAA	60.0	655	INTERGENIC	--	--	--
scaffold88_P3_20403	scaffold88	20403	ATTTTTTTTTTT/ATTTTTTTTTTT	AATGGATTGCTCTGTT GGC	TCCCTCTATGCTTTGT CCCT	60.1	728	INTERGENIC	--	--	--
scaffold88_P3_63256	scaffold88	63256	TAAAAAAAA/TAAAAAAAAA	AAATCCTTTTGGGGTG AAGC	TTTTTGAAAACGCCA GGTG	60.3	655	INTERGENIC	--	--	--
scaffold88_P3_86970	scaffold88	86970	TTATATATATATATATATATATATA TAT/TTATATATATATATATATATATA TATAT	AGGAAGAGTGGAGTTG CGAA	TATTTGGATTTGGCT CGG	60.0	373	INTERGENIC	--	--	--
scaffold882_P3_436721	scaffold882	436721	GAAAA/GAAA	CGTACCAAAGGCAAT GAAT	GCTCTGCATCCCATCA AAAT	59.8	323	INTERGENIC	--	--	--
scaffold882_P3_446893	scaffold882	446893	GTTT/GTTTT	TGGTTGGTTTTGTGGT GAA	TCACGGGCAACACAA TTTA	59.8	644	INTERGENIC	--	--	--
scaffold882_P3_51080	scaffold882	51080	ATTTTTTTTTTT/ATTTTTTTTTTT	ATATAGTTCGGTTTG GCCG	ATAGTTTGGCCGACCT GTTG	59.8	384	INTERGENIC	--	--	--
scaffold882_P3_513030	scaffold882	513030	AATATATATATATATATATATATAT A/AATATATATATATATATATATA	ATTCTTGATTCGCCTCC CTT	CACCGTAGTGTGGTGG TGAG	60.0	680	URR	Ca_23986	--	--
scaffold882_P3_540960	scaffold882	540960	CT/CTAT	GCAATCGTACTCTTGC CGTT	CTCTCTGGGAGCAAAG TTGG	60.3	630	INTERGENIC	--	--	--
scaffold882_P3_619022	scaffold882	619022	AT/ATT	CGCGAGAATAAAATAG CAAAAA	TTTTGCTAAGCCCCTTT TGA	58.6	621	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
scaffold882_P3_70530	scaffold882	70530	CAAAAA/CAAAAA	CACATCAACAGCAGCC TTGT	TGATGTTGCCTCTGTT TTGC	59.9	385	INTERGENIC	--	--	--
scaffold8825_P3_968	scaffold8825	968	TAAAAA/TAAAAA	AATCGATTGGCATCAAC ACA	CCAGTCAAGCATTCCC ATCT	59.9	475	INTERGENIC	--	--	--
scaffold8836_P3_981	scaffold8836	981	GAAATAAAAA/GAAA	CAACACAACAAGAAGC AGCAA	TCCAAGTAGGCTGCC CAAT	59.9	288	INTERGENIC	--	--	--
scaffold886_P3_151276	scaffold886	151276	AG/AGCTG	AGGGATGCTTGTAGTG GTTGA	TTTGACGTGCATCCAA TGTT	59.6	162	DRR	Ca_26671	--	--
scaffold886_P3_151576	scaffold886	151576	TAAGCAA/TAA	GACAACATTGGATGCA CGTC	TGGCTTTAGGAGTTTC TTTTGTTT	60.0	767	DRR	Ca_26671	--	--
scaffold886_P3_151694	scaffold886	151694	GTAATAATA/GTAATA	GACAACATTGGATGCA CGTC	TGGCTTTAGGAGTTTC TTTTGTTT	60.0	767	DRR	Ca_26671	--	--
scaffold886_P3_164957	scaffold886	164957	AGG/AG	GCTAATTGGCGGCACT TCTA	CGAGTTAGTGAATCAT CCCCTC	60.4	614	INTERGENIC	--	--	--
scaffold8866_P3_2403	scaffold8866	2403	CTAAAT/CTAAATTAAAT	GCTGTAAAAATCGGG GTGT	AGGGCAAAAGTCTCAA AGGA	59.0	496	INTERGENIC	--	--	--
scaffold89_P3_143564	scaffold89	143564	AATATATATATATATATATATA/AA TATATATATATATATATATATATA	CAGAAAGAGACCGTGG AAGC	TTTTTAGGCCACGTAG CACC	60.0	873	INTERGENIC	--	--	--
scaffold89_P3_212189	scaffold89	212189	ATTTTTTTT/ATTTTTTT	CAACCCAGCAGCCAAA TAAT	GCATAGGTGCACATGA AAGG	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 (°C)	Expected 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_P3_221953	scaffold89	221953	GTTGA/GCGATTTCCTTTCTTGA	CCCTCTGCAATGTCGG TAAT	GGTCAAACTGGGTGG AAGA	60.0	432	INTERGENIC	--	--	--
scaffold89_P3_23867	scaffold89	23867	ACAT/ACATCAT	CATGGTAGCTCCCGAC ATTT	ATTCCAAACGATTCAT CCG	60.0	712	INTERGENIC	--	--	--
scaffold89_P3_244702	scaffold89	244702	CTTTTTTTTT/CTTTTTTTTT	TGTTGGCATTCTGCA GTAGTTA	TGGTTGTGTGCAAGCT TTTT	59.8	697	INTERGENIC	--	--	--
scaffold89_P3_30029	scaffold89	30029	AATATATATATATATATATA/AATATA TATATATATATATA	GGATTGAACCTCCTAT GCGA	TTCCGAGTTGTTTGAG AGGA	60.0	716	INTERGENIC	--	--	--
scaffold89_P3_33161	scaffold89	33161	GAAAAAAAA/GAAAAAAAA	ACTTGTCCTCTTGTG CCA	TTGTCACAAATGCAAT TAAAAA	58.0	564	INTERGENIC	--	--	--
scaffold89_P3_99535	scaffold89	99535	GATATATATATAT/GATATATATAT	CCAGTGTGCTTGAAGA AGGA	TCATAAATGGGTGAT GTGGC	59.0	754	INTERGENIC	--	--	--
scaffold8913_P3_2200	scaffold8913	2200	GAAA/GA	TCCTGGAATCCCATCTT GAG	AGCGACAGTGAACGAT GTTG	60.0	568	INTERGENIC	--	--	--
scaffold8913_P3_2269	scaffold8913	2269	TG/T	CAATGGATGGGGTAGG ATTG	AGCGACAGTGAACGAT GTTG	60.0	366	INTERGENIC	--	--	--
scaffold892_P3_26717	scaffold892	26717	ATT/ATTT	TCAAGCTTCTCTCCAC ACA	AATTAATATCCACGCA CGC	59.5	255	INTERGENIC	--	--	--
scaffold892_P3_27737	scaffold892	27737	ATTATTTA/ATTATTTAATTTATTTA	TGCATGTTGATATGTAC CAAAAATAA	TCGAAATCGTGAAATC CTACC	59.6	785	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 (°C)	Expected 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_P3_49139	scaffold892	49139	CTTTTTTTTTTTTTTT/CTTTTTTTTT TTTT	CATGCCTAACGCACGA ATTA	AAACAGACTCCACTGC CACC	59.7	215	INTERGENIC	--	--	--
scaffold8920_P3_817	scaffold8920	817	A/AAT	CATCAGGGTGCTCTGG TCCT	GGTACGAAAATCGCCT GAAA	60.0	699	INTERGENIC	--	--	--
scaffold893_P3_6971	scaffold893	6971	CATATATATATATATATAT/CATATATAT ATATATAT	CTTTAACATGCGTTTCC GGT	TCAAGTCGACAAGCCT TCCT	60.0	819	DRR	Ca_27923	--	B3
scaffold895_P3_114547	scaffold895	114547	CAA/CAAAA	TCCTTTTACGGAACCTC GAA	TTGCATCAGATCCATG CTTT	59.7	368	DRR	Ca_24253	R	B3
scaffold895_P3_93605	scaffold895	93605	GTTATTATTATTATTATTATTATTAT TATTATT/GTTATTATTATTATTATTAT ATTATTATTATT	AGAGGCAAAACAAGAAC CGAA	GAAGCCGAGAAAACGA CTTG	59.9	399	INTERGENIC	--	--	--
scaffold896_P3_47144	scaffold896	47144	TAAA/TAAAA	AGGGAGGACGAAAATG ACCT	TGTGCATCAAATAGGC GTGT	59.9	259	INTERGENIC	--	--	--
scaffold9_P3_34748	scaffold9	34748	CACAACAA/CACAA	GGACAAACTACCCCTC CTTTTC	TCTTCCCCATAAACCC AACA	60.2	317	INTRON	Ca_27384	--	WOX
scaffold9006_P3_1300	scaffold9006	1300	AATTATTATTATTATTATTATTATTA TT/AATTATTATTATTATTATTATTAT TT	TTGTTTCCGATTACAAA ATCACC	GCTATTAACAGCAATC ACCACA	60.1	461	INTERGENIC	--	--	--
scaffold901_P3_211321	scaffold901	211321	AATATATATATATATATATATATATAT ATA/AATATATATATATATATATATAT ATA	ATATTGGCTCGGAGGC TTTT	AGTTGGTTCCTAGCA CCCT	60.1	643	INTERGENIC	--	--	--
scaffold901_P3_229595	scaffold901	229595	TTATATATATATATA/TTATATATATA TATATATA	CCATTTGAGCCGTTGAT TTT	ACCTTGCTCCCTTACC CACT	59.9	703	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
scaffold901_P3_65162	scaffold901	65162	ACC/ACCC	TCAGACGCAGTTGAAC GAAC	TGAACACTAACATGCA AATTCAAA	60.0	706	INTERGENIC	--	--	--
scaffold9059_P3_539	scaffold9059	539	ATT/ATTT	TTAGGGCTCATACGATT CGG	GGAAATTAGCCACGG ATCA	60.1	443	INTERGENIC	--	--	--
scaffold909_P3_26588	scaffold909	26588	TC/T	TGGCACTTTCAACAGCT GAG	TGGCACAGTTCCAAGA TCAA	60.2	113	INTERGENIC	--	--	--
scaffold909_P3_40711	scaffold909	40711	TCC/TCCC	GCATTCTTTGGTTGCC AAG	CGGTTGAATGAGTCAG AGCA	60.6	797	INTERGENIC	--	--	--
scaffold909_P3_6745	scaffold909	6745	TA/TAAA	TTTCATCTGAACTTTC GGG	TAGGGTGGTACGAAAA TCGC	60.0	365	INTERGENIC	--	--	--
scaffold9125_P3_1545	scaffold9125	1545	C/CG	TATCCGACAACGTACG AGCA	TGGTTTGACAAGGGGA AGAC	60.3	370	INTERGENIC	--	--	--
scaffold9125_P3_721	scaffold9125	721	GAAAAAAAA/GAAAAAAAAA	AAGGACCCACATGTTG AAGC	TCCCCCTTTGTCTTCTT GTG	60.0	656	INTERGENIC	--	--	--
scaffold913_P3_140774	scaffold913	140774	CAT/CATAT	TTGAGTTATGGCTAATG AAGGTCA	AGCGAGCCGCTCAATT AGTA	60.0	269	INTERGENIC	--	--	--
scaffold913_P3_216659	scaffold913	216659	CTATATATATATA/CTATATATATATA	TCAGTTCTACCGGATA CGC	AAATTGCAGGGATGTG AACC	61.2	328	INTERGENIC	--	--	--
scaffold913_P3_231058	scaffold913	231058	TTAA/TTAATAA	TCTTTGAGTTGTTAGGA TACAAGTGG	TTGCTCCTACGTATCT CCCG	60.0	388	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 (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
scaffold913_P3_252273	scaffold913	252273	TATAATA/TATAATAATA	CATGGGCAGAGCTATG TTGA	ATGTGCAAAGAAGAGG GGTG	59.8	755	INTERGENIC	--	--	--
scaffold913_P3_282492	scaffold913	282492	ATTTT/ATT	TTGGATTTCATACCCAC ACATC	AAAATCCGTTGGAAAT TTTGG	59.6	466	INTERGENIC	--	--	--
scaffold914_P3_152172	scaffold914	152172	TATATTAATAT/TATAT	GCCGTCTAAAATAATAT GGAGCC	TGGTTGAACATTTTAAT CCAAAGA	60.2	300	INTERGENIC	--	--	--
scaffold916_P3_117897	scaffold916	117897	AT/ATT	AATCCAAACCATGTATC GCC	CACAATTGCCACCAAC ACTC	59.7	453	DRR	Ca_21038	R	ERF
scaffold916_P3_134889	scaffold916	134889	TTT/TTATT	AAATGTGGTCTCGTTT TGC	TTGTTTTGTGAGTTTGA ATGATGTT	60.0	770	INTERGENIC	--	--	--
scaffold916_P3_3252	scaffold916	3252	AATATA/AATA	AAAGCGCTGTAAAATG GGTG	TATAGGGTCAAAACGC CCAC	60.1	726	DRR	Ca_21034	G	E2F/DP
scaffold916_P3_3317	scaffold916	3317	TTTAATT/TTT	ACATCTCATGCCATTGT GGA	GAGACAGTCAGAAGGC CACC	59.9	520	DRR	Ca_21034	G	E2F/DP
scaffold916_P3_3519	scaffold916	3519	AATATATATATATATATATAT/AATATAT ATATATATATAT	ACATCTCATGCCATTGT GGA	GAGACAGTCAGAAGGC CACC	59.9	520	DRR	Ca_21034	G	E2F/DP
scaffold916_P3_363659	scaffold916	363659	TAAAATTAAAAATTAAAAATTAAAA/TA AAATTAAAAATTAAAAATTAAAAATTAA AAA	CCACCTCTACCATGC AACT	TGTTTTCCATGTGTGC CACT	60.0	569	INTERGENIC	--	--	--
scaffold916_P3_4294	scaffold916	4294	GAAAAAAAA/GAAAAAAAAA	TGTTGACGAATGTCCAT GAAA	CCTCCAAAACCAACT ACCA	60.0	181	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
scaffold916_P3_4344	scaffold916	4344	GAAAAA/GAAAAAAA	TGTTGACGAATGTCCAT GAAA	CCTCCAAAACCCAAC ACCA	60.0	181	INTERGENIC	--	--	--
scaffold916_P3_470919	scaffold916	470919	TTTATTATTATTATTATTATTATTAT T/TTTATTATTATTATTATTATTATT	TGATTACACCATGCC GTGT	TTACAAGCAGGGAAAA TGCC	59.8	564	INTERGENIC	--	--	--
scaffold916_P3_4805	scaffold916	4805	T/TACAATA	TGGTAGTTGGGTTTTG GAGG	TTCATGACATGCATCC ATCC	59.8	907	INTERGENIC	--	--	--
scaffold916_P3_4868	scaffold916	4868	GTTTTTTTT/GTTTTTTTTT	TGGTAGTTGGGTTTTG GAGG	TTCATGACATGCATCC ATCC	59.8	907	INTERGENIC	--	--	--
scaffold916_P3_499308	scaffold916	499308	ATAAAT/ATAAATTATCTAAAT	CCGTACGTAGTAAGCC CCAA	ACGAACCCATTGTTGC ATTT	60.0	855	INTERGENIC	--	--	--
scaffold916_P3_5303	scaffold916	5303	A/AT	TGTCTCTTTTACGCCGC AAT	CTAGGCATTGCAACAG GGAT	60.8	738	INTERGENIC	--	--	--
scaffold916_P3_560896	scaffold916	560896	ACCCCCCCCC/ACCCCCCCCC	TTGTGTTTCTGCCACA CTT	GAAGGTCTTGGGGCAA CTTA	59.2	355	INTERGENIC	--	--	--
scaffold916_P3_7870	scaffold916	7870	TTGAAAAATGAAAA/TTGAAAA	TGTCCTTCTGTTCAATC AAATACC	TGGTGGTGCATAGTTG GTGT	59.4	636	INTERGENIC	--	--	--
scaffold916_P3_80639	scaffold916	80639	TCCTATTCCAATAGGGCCC/TC	TCGAGTACCATTGTT GCCA	CCCCAAGAACGAAAA CGTA	60.3	717	INTERGENIC	--	--	--
scaffold916_P3_8185	scaffold916	8185	TT/TTCGATTAAT	ACACCAACTATGCACCA CCA	ATAGGCCCAATTAAC CCAC	59.9	376	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
scaffold916_P3_8308	scaffold916	8308	ATT/AT	ACACCAACTATGCACCA CCA	ATAGGCCCAATTAAC CCAC	59.9	376	INTERGENIC	--	--	--
scaffold916_P3_89304	scaffold916	89304	GCC/GC	CCACGAGATGATTCCA TGTG	ATTCCAAACCAAAACC CTCC	59.9	243	INTERGENIC	--	--	--
scaffold916_P3_9278	scaffold916	9278	CTTT/CTTTT	TCACATAGGGATTGCC AACA	TCCCACCACATTCAAT CCTT	59.9	769	INTERGENIC	--	--	--
scaffold916_P3_9496	scaffold916	9496	TACTA/T	CCCATATGGTTTGGGA ATCA	TCCCACCACATTCAAT CCTT	60.4	257	INTERGENIC	--	--	--
scaffold916_P3_9949	scaffold916	9949	AAG/A	AGGATTGAATGTGTG GGAA	GCAGAAAAATAAGGC GATG	60.2	354	INTERGENIC	--	--	--
scaffold918_P3_49291	scaffold918	49291	CAAA/CAAAA	TAGCGAGGACGAAAT GACC	CGTCTCCCTGGGTTT ATTC	60.2	820	INTERGENIC	--	--	--
scaffold919_P3_183431	scaffold919	183431	ATGTTGTT/ATGTT	TGGCAATACCGATTCA CAA	TGCTTCCATCCTTTATT GGC	59.9	559	INTERGENIC	--	--	--
scaffold919_P3_355745	scaffold919	355745	AAATATTAATTAATTAATTAAT/AAATAT TAATATTAATTAATTAATTAAT	TTTTCCAATCCTTTGTT CCG	GAGGTTTGGTGGTGG CTAGA	59.9	721	INTERGENIC	--	--	--
scaffold919_P3_478487	scaffold919	478487	TAA/TA	CTCTTTGGTTTACGGC TGC	GGTGCCTTGAGTGAT GTTA	59.9	597	INTERGENIC	--	--	--
scaffold919_P3_491184	scaffold919	491184	A/AG	GATTATCCTGGGCTT ACGA	TCTCTGGCAACCGTTC TCTT	60.0	444	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 (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
scaffold919_P3_516977	scaffold919	516977	AA/AAATA	CATACCCATGGTCCCA CAA	CAACCCAAATTCTCATA TTCAAA	60.0	894	INTERGENIC	--	--	--
scaffold919_P3_525180	scaffold919	525180	AT/ATT	CAATGGGAGAATTGTA ACACCC	TCAAACACAATATTGCT ACGATCTC	60.5	486	INTERGENIC	--	--	--
scaffold919_P3_611227	scaffold919	611227	TTATTTATATAT/TTAT	TCGTTGAGCTCGAAA CCTT	TGCACGGCAATTACAA CAAT	60.0	193	INTERGENIC	--	--	--
scaffold919_P3_635178	scaffold919	635178	ACT/ACTTACCT	GGAGTTGTACCCCGT CTAA	CAACTAATCGTTGTCT GCCG	60.0	526	INTERGENIC	--	--	--
scaffold919_P3_661294	scaffold919	661294	CTATATATATATATATATATATATA TA/CTATATATATATATATATATATAT ATATATA	GAAGCCTTTTACAGCG GTTG	ATGTGAATCCCACCAG GAAA	59.9	741	INTERGENIC	--	--	--
scaffold919_P3_724282	scaffold919	724282	GCCC/GCC	CCAAAAAGTGCAGAAA GGGA	TGGGATGCAGTTGAAA ATGA	60.2	491	INTERGENIC	--	--	--
scaffold919_P3_83832	scaffold919	83832	AAAAAAAAATAAAAAA/AAAAAAAAATAA AAAAATAAAAAA	GTTTGAAGTTGTCCGC GTCT	GACACTTGCGCCCTA TAAA	60.3	479	INTERGENIC	--	--	--
scaffold92_P3_32733	scaffold92	32733	AT/A	TGGCATTATTATCTTCG TTTTATAGTT	TCACCGTTTTATAGTTC TACACCA	58.0	494	INTERGENIC	--	--	--
scaffold92_P3_45246	scaffold92	45246	ATATTATTATTATTATT/ATATTATT ATTATTATTATTATTATT	TGCAATAAAACCATAAT ACGAAGA	TGTTTGACTGCATAAC GAAGA	57.9	438	INTERGENIC	--	--	--
scaffold92_P3_99564	scaffold92	99564	CCCGACC/CCC	GGTCCTCGATTTTCATCT GGA	TTCAAAAATTGCCCGA AAAG	60.0	208	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 (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
scaffold920_P3_645	scaffold920	645	ACC/ACCC	AGGGAGGACGAAATG ACCT	GGGTTTGTGTCATTGG ATGAA	59.9	538	INTERGENIC	--	--	--
scaffold922_P3_180784	scaffold922	180784	TTTATTATTATTATTATTATTATTAT TATTATTATTATTATTATTA/TTTATTAT ATTATTATTATTATTATTATTATTAT TATTATTATTATTATTA	CCCGGATGTGCAAGTA GATT	TTTCAACACCGAGATG GACA	60.0	548	DRR	Ca_27327	--	--
scaffold922_P3_36501	scaffold922	36501	CATA/CA	TGCGATTTTGTAGTTGC TTG	GCGAGGATTTGAAAC GGTA	60.0	223	INTERGENIC	--	--	--
scaffold9236_P3_1447	scaffold9236	1447	ACCC/ACC	GGAGGACGAAATGAC CAAA	TCCCTTGGCTTAATCG TGTC	59.9	307	INTERGENIC	--	--	--
scaffold924_P3_123156	scaffold924	123156	CAAA/CAA	TCACTTATGCAAAAAGG GGG	GTGCCAGTCGATTGCC TAAT	59.9	297	INTERGENIC	--	--	--
scaffold924_P3_202228	scaffold924	202228	TTATATATATATAT/TTATATATATAT AT	AGGAAGAGTGGAGTTG CGAA	CAGGTTTGATGCAACC ATTG	60.0	689	INTERGENIC	--	--	--
scaffold924_P3_265937	scaffold924	265937	AT/ATT	AGGGAGTGAATCAACA ACGG	GGGGCTGAGTAAATGT GGTG	60.0	639	INTERGENIC	--	--	--
scaffold924_P3_56478	scaffold924	56478	GATATATATATATATATATATAT/GAT ATATATATATATATATATATATATA TATATAT	TCCTAGAACATGCATCA CGC	TACCCCTTGCTAGCCC CTTT	59.8	558	INTERGENIC	--	--	--
scaffold924_P3_74286	scaffold924	74286	AATATATATATATATATATATATAT/A ATATATATATATATATATATATAT	TCTTTCCCCGGACTTTT CTT	TTTTAAACCGCCAAG TCGT	60.0	407	INTERGENIC	--	--	--
scaffold9258_P3_783	scaffold9258	783	ATTTTTTT/ATTTTTTTT	TTACAACCGCACACCAA CAT	CACCTTATGAGTCCGCG TGAA	59.9	413	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 (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
scaffold9281_P3_4465	scaffold9281	4465	CAAAA/CAAAA	TGATCAAAGCAACAAAG CTCA	ATGTGCAGTCTGAGCT ACCG	59.6	316	INTERGENIC	--	--	--
scaffold929_P3_16918	scaffold929	16918	CTTTTTTT/CTTTTTTTTT	GCAGGAGCAACAACAG ATGA	TAATTGCACTTTTGGTC CCC	60.0	439	INTERGENIC	--	--	--
scaffold93_P3_116733	scaffold93	116733	CATATATATATATATAT/CATATATATAT ATATATAT	AGGAAGAGTGGAGTTG CGAA	TTATGATTTTGGCTCG GAGG	60.0	505	INTERGENIC	--	--	--
scaffold93_P3_141155	scaffold93	141155	CAA/CAA	TCGATTGGCTTAAACG AGG	AGAATTACGAGCAGC GGAA	60.1	617	INTERGENIC	--	--	--
scaffold93_P3_152308	scaffold93	152308	TCCTA/T	TGGATTGGTTTGCCTG TAGA	CCAACAACATTCCAAA CCA	60.1	823	INTERGENIC	--	--	--
scaffold93_P3_218514	scaffold93	218514	AT/A	TTGATTCCCTCCCTCCT TCT	AGGAAGAGTGGAGTTG CGAA	60.0	678	INTERGENIC	--	--	--
scaffold93_P3_223946	scaffold93	223946	CAA/CAA	AGGGAAGCTTTGGGTG AGTT	TAGAATGCACCATCCC CTTC	60.1	336	INTERGENIC	--	--	--
scaffold93_P3_252245	scaffold93	252245	AA/ATAAATA	GACGATCAAATTGTGT GTCTCAA	TGGATTTTAAGGTCTTT GGTCC	60.0	475	DRR	Ca_23070	--	GRAS
scaffold93_P3_28766	scaffold93	28766	ATT/AT	GCGATTACGGTACCAC GAGT	TTGAGTTGCAACGAGA GTGG	60.0	555	INTERGENIC	--	--	--
scaffold93_P3_316717	scaffold93	316717	TTTTATTATTATTATTATTATTATTA TTTATTATTAT/TTTTATTATTATTATTT ATTATTATTATTATTATTATTATTTA T	AAAAGGATTTGCACCA CTCAA	TTCAAAGTTACTAACAC CGCCTC	59.6	565	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 (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
scaffold93_P3_338023	scaffold93	338023	TCCCC/TCCC	AAACTTGCAAGCCATTG CAG	TTTGAGAAATATGCTG GGGC	60.2	876	INTRON	Ca_23073	L	GRAS
scaffold93_P3_338093	scaffold93	338093	CTTT/CT	GTGAGAGGCCCCACAG TCTA	ATGGTGGGAAGGTTAC TCCC	60.3	806	INTRON	Ca_23073	L	GRAS
scaffold93_P3_383099	scaffold93	383099	GAAAAAAAA/GAAAAAAAAA	TGGGGTTGCAGATGAT GTTA	CTTCCTTCTTCCTCT GCGT	59.9	643	INTERGENIC	--	--	--
scaffold93_P3_504052	scaffold93	504052	CTATATATATAT/CTATATAT	TTGGTTTATTTGGGTTG GGA	AAATGTGAATCCCACC AGGA	60.0	520	INTERGENIC	--	--	--
scaffold93_P3_573293	scaffold93	573293	AATAT/AAT	AATTTAGCCCATTGTTG CCT	CCTAAACGGGCTAGAG GTCC	59.9	711	INTRON	Ca_23083	--	--
scaffold93_P3_662816	scaffold93	662816	TC/T	AACGAGTGGAAGAAAA GAGCA	GCGCTGTAAATGTGC AAAA	59.1	695	INTERGENIC	--	--	--
scaffold9303_P3_1186	scaffold9303	1186	CT/CTT	AAGACCACATCATTGTG TCACC	TGTTTGTCGCGTCTT AATTTT	59.8	439	INTERGENIC	--	--	--
scaffold931_P3_100930	scaffold931	100930	A/AC	TTTGAGCCCCCTTCAAT ATG	GATTCTCCTTGGGGAT GGAT	59.9	616	INTERGENIC	--	--	--
scaffold931_P3_102850	scaffold931	102850	ATTTTTTTTTT/ATTTTTTTTTTT	TTCAAAATGCGATTTC CCA	TCGAAAGTTGTGTTCA TCCG	60.1	519	INTERGENIC	--	--	--
scaffold931_P3_115727	scaffold931	115727	TTTCTTCTTCTTCTTCT/TTTCTTCTTCT TCT	AGTCCTGACAGCCTGG AGAA	GGAAGGAAATTGCAA CTGA	60.0	440	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
scaffold931_P3_116282	scaffold931	116282	GTTTTTTTTTTTTT/GTTTTTTTTTTT	TCAGTTGCAATTCCTT CCC	TAAACCGATTGGGA GTCG	60.1	519	INTERGENIC	--	--	--
scaffold931_P3_116416	scaffold931	116416	ATTT/ATTTCCCTAGATGCTCTTT	CGACTCCCAAATCGGT TTTA	TTGGGCTGATGCAATA AACA	59.9	260	INTERGENIC	--	--	--
scaffold931_P3_116537	scaffold931	116537	ATT/ATTT	CGACTCCCAAATCGGT TTTA	TTGGGCTGATGCAATA AACA	59.9	260	INTERGENIC	--	--	--
scaffold931_P3_117076	scaffold931	117076	CAAA/CAA	TGCCACAACCAATCTTC ATC	AGACAGTGGGTGTCC AAGC	59.5	391	INTERGENIC	--	--	--
scaffold931_P3_118275	scaffold931	118275	GAAAA/GAAAAA	TGCTCTGACTCATTCAA CCG	CACCAACAATTGGCAT CAAG	60.0	725	INTERGENIC	--	--	--
scaffold931_P3_123085	scaffold931	123085	AATATATATATATATATTTATATATAT ATATAAATATATATATATATATATTT ATATATATATATA	GGCATGACAGAATTGA CACG	TTGGGAAGCTCCCAT AAGA	60.1	502	INTERGENIC	--	--	--
scaffold931_P3_178534	scaffold931	178534	AATATATATATATATATAT/AATATAT ATATATATATATATAT	ATATTCGCACGAAAAAT GGC	TGTCTCATGAGGAAAT TGATGA	59.9	721	INTERGENIC	--	--	--
scaffold931_P3_180349	scaffold931	180349	GATATATATATATATA/GATATATATA TATATA	TCGTCCCATGTAATTG TCA	TGGATACCAAAAACC ATTCA	59.8	281	INTERGENIC	--	--	--
scaffold931_P3_180540	scaffold931	180540	T/TG	TCGTCCCATGTAATTG TCA	CACTCATTGCTTGTA GAGTGCT	59.8	486	INTERGENIC	--	--	--
scaffold931_P3_181299	scaffold931	181299	G/GTT	GTAGAGTGCCAACGAC ACCA	TGAACATTGATTGGA TCGTGC	59.8	665	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 (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
scaffold9367_P3_707	scaffold9367	707	T/TCCAATAGGCGTGGTTGTG	ATCCTCTATCAGAGCG GGGT	AGGGAGGACGAAAATG ACCT	60.1	267	INTERGENIC	--	--	--
scaffold937_P3_116550	scaffold937	116550	CATATATATATATATATATATATATAT ATATATAT/CATATATATATATATATATA TATATATAT	CGCAGGGAGAGGAAGA AGAT	ATGTTTTGGATTTTGG CTCG	60.9	419	INTERGENIC	--	--	--
scaffold937_P3_165784	scaffold937	165784	TAGAAAGA/TAGAGAAAGA	ATGACCCTCCTTCAGC AATG	CAGCACCAAGCAAAG ATCA	60.1	740	INTERGENIC	--	--	--
scaffold937_P3_192590	scaffold937	192590	ATTTTTTTTT/ATTTTTTTTT	ATGCAGATACCTAATGC GGG	CGAGCAAACCATCTCA ATCA	59.9	460	INTERGENIC	--	--	--
scaffold937_P3_201818	scaffold937	201818	TAAAAA/TAAAAA	TCTTGAAACAACGCAC TCG	AAAAGGTCAGGCTCAG GCTT	60.0	666	INTRON	Ca_25990	A	--
scaffold937_P3_202095	scaffold937	202095	TTATAAAATATAAGGTA/TTA	TCCATACCTACCCGTAC CGA	ACCGTGATTTTGTGA AGGC	60.2	718	INTRON	Ca_25990	A	--
scaffold937_P3_202234	scaffold937	202234	CTATATATATATATATATATATATAT/C TATATATATATATATATATATATATA	TCCATACCTACCCGTAC CGA	ACCGTGATTTTGTGA AGGC	60.2	718	INTRON	Ca_25990	A	--
scaffold937_P3_79126	scaffold937	79126	AATATATATATATATATATATATATAT ATATATCTATATATATATATATAT/AA TATATATATATATATATATATATATAT ATATATATATATATCTATATATATATA TATATAT	ATGTTTTGGATTTTGGC TCG	GATTCGCCATTCTTAA CGCC	59.9	482	INTERGENIC	--	--	--
scaffold9371_P3_631	scaffold9371	631	TTTTT/TTTTTGTTTT	GCGGCTGAAAGAGAGA GAGA	AAAGATTCCGGTACA CACCA	60.0	687	INTERGENIC	--	--	--
scaffold939_P3_1093	scaffold939	1093	ATTT/ATT	GTGACGTTGGGGAGT TAAA	TCGAGCCTTATGGCAA GATT	59.8	317	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 (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
scaffold9411_P3_2892	scaffold9411	2892	TTAACT/TT	GGATATGTCAGAAAAG GAACGG	GAAGCATCTCCAACAG CTCA	59.8	393	INTERGENIC	--	--	--
scaffold9411_P3_3721	scaffold9411	3721	TAAAAA/TAAAA	TGAAGTGTGCTCTTC GCAC	TTTTTCCATTTCGGTC TATTT	60.2	536	INTERGENIC	--	--	--
scaffold9411_P3_3911	scaffold9411	3911	AATA/AATATATA	TGAAGTGTGCTCTTC GCAC	GAAAGCCATTTTACC CCAT	60.2	840	INTERGENIC	--	--	--
scaffold9411_P3_5309	scaffold9411	5309	CTATTATTATTATTATTATTATTATT ATTATTATTATTATTATTATTATTATT TATTATT/CTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATTATTATTATTATT	TCCACATGAGAAAAGT CCCC	GTGATTGTCCAGCACC TTGA	59.9	503	INTRON	Ca_28176	O	--
scaffold943_P3_16332	scaffold943	16332	AC/A	GACGCAATCGATTAGG CAAT	CCCTTAATCCTTGCA GTCA	60.1	845	INTERGENIC	--	--	--
scaffold943_P3_267616	scaffold943	267616	T/TTACC	CAAACTCAAAATGGG CAAA	GCTTTCCACAAACCGT GATT	59.6	151	INTERGENIC	--	--	--
scaffold943_P3_267949	scaffold943	267949	CAC/CACGGAATGAATTAATGAAC	AATCACGTTTGTGGA AAGC	CGTCAGTCCCGAAAT TAAA	60.0	544	INTERGENIC	--	--	--
scaffold944_P3_2389	scaffold944	2389	CAAAAAA/CAAAAAA	GAACGGGAAATATTCA CGTCAT	TCGGACCACACTCCTA ATCC	60.1	495	INTERGENIC	--	--	--
scaffold944_P3_2557	scaffold944	2557	TG/T	GGATTAGGAGTGTGGT CCGA	CAACTGGGTACCACTA AGCCA	59.9	450	INTERGENIC	--	--	--
scaffold944_P3_3122	scaffold944	3122	GAAAAAAAA/GAAAAAAAA	TGGCTTAGTGGTACCC AGTTG	TGGCGCTTATATTCAA AGCA	60.0	643	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
scaffold944_P3_3226	scaffold944	3226	GTTTTTTT/GTTTTTTT	TGGCTTAGTGGTACCC AGTTG	TGGCGCTTATATTCAA AGCA	60.0	643	INTERGENIC	--	--	--
scaffold944_P3_672	scaffold944	672	ATTTT/ATTT	TTGTAAGTTGAGTTGC GACGA	TGTGGTCGCAGGTTTT ATGA	59.5	308	INTERGENIC	--	--	--
scaffold9444_P3_3467	scaffold9444	3467	AG/A	TCCACAACGCAACCA ATTA	AGCAGGTCTGTCCAAT CAGG	60.0	228	INTERGENIC	--	--	--
scaffold945_P3_2482	scaffold945	2482	CATATTCTGTAATAAGTAATATT/CATA TT	AAATCCGTTTGGATTTG CAG	TCCAGAAAAATCGTTT GAGG	59.9	428	INTERGENIC	--	--	--
scaffold948_P3_132653	scaffold948	132653	ATTTTTTT/ATTTTTTT	CCATTTCAAGAGGATG ACCC	AGCCTTTTCCAACAAC AACG	59.3	482	INTERGENIC	--	--	--
scaffold948_P3_37763	scaffold948	37763	CTTTTTTTTTTT/CTTTTTTTTTTT	TCATGTGACAATTTCTT TGATGC	TTTGTGTTGGCAAGA ATGG	60.0	290	INTERGENIC	--	--	--
scaffold948_P3_57310	scaffold948	57310	AGGGG/AGGG	TGAGTCATCCATGTA GCCA	GCCAACCCAAAAATCT TGAA	60.1	424	INTERGENIC	--	--	--
scaffold949_P3_3822	scaffold949	3822	CAAAAA/CAAAAA	AAGAGGGGCGTGAAC TTTT	GCTTCCATACCTGTTTT GGG	60.1	646	CDS (FRAME SHIFT)	Ca_25481	--	--
scaffold950_P3_3787	scaffold950	3787	TG/T	AGGGAGGACGAAATG ACCT	TCCTCTCGAAGCCTAT CCAA	59.9	707	INTERGENIC	--	--	--
scaffold952_P3_593	scaffold952	593	GAAAAAAA/GAAAAAAA	CATGAGCATCATCAATT GCC	AAATCGAGCACCAAA ACCG	60.0	485	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
scaffold953_P3_11716	scaffold953	11716	ACTT/ACTTCTT	ACATGAGGGGTTATC GGAA	TTTTGTGCGACTCCAA CCCT	59.2	548	INTERGENIC	--	--	--
scaffold953_P3_12194	scaffold953	12194	TTTA/T	GGGTTGGAGTCGACAA AAAG	CACGTTTTCCACGCCT AGTT	59.6	206	INTERGENIC	--	--	--
scaffold953_P3_123729	scaffold953	123729	TA/TAAATTGAGGAACCAAA	GAGCCACCGACTTGAA GAAG	TTGTGTAGGTGGGCTT TTCC	60.0	542	INTERGENIC	--	--	--
scaffold953_P3_124277	scaffold953	124277	TAAAAAAAAAAAAA/TAAAAAAAAAAAAA	GGAAAGCCACCTAC ACAA	ATATATGCATGCGGAC ACGA	60.0	476	INTERGENIC	--	--	--
scaffold953_P3_141896	scaffold953	141896	ATTTTTTTTT/ATTTTTTTTT	TCGTTTTGCCATGTGT GTTT	GCGTGGGAAAAGGGA ACTTA	60.0	594	INTERGENIC	--	--	--
scaffold953_P3_141960	scaffold953	141960	GATATATATAT/GATATATATATATAT	TCGTTTTGCCATGTGT GTTT	GCGTGGGAAAAGGGA ACTTA	60.0	594	INTERGENIC	--	--	--
scaffold953_P3_153247	scaffold953	153247	T/TC	TTGCTTCGCAGTTGTAT TCG	CTACATACATGTGCAG CCGA	60.0	236	INTERGENIC	--	--	--
scaffold953_P3_17853	scaffold953	17853	T/TG	AAGGATAGGTACGGGT TGGG	AAATTGAAATACATGC GCCC	60.1	381	INTERGENIC	--	--	--
scaffold953_P3_29528	scaffold953	29528	ATGATT/AT	GCCCAATGAAATGGA AGAA	CACCACTCCTCATTTG GCTT	59.9	801	INTERGENIC	--	--	--
scaffold953_P3_41347	scaffold953	41347	AC/ACC	TTTCATACGCCAATCAA ACG	TTGAGTATTCGCACAC GACA	59.6	781	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 (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
scaffold953_P3_45249	scaffold953	45249	ATTTTTTTTT/ATTTTTTTTT	AAAACATGTCAAGATCC GCC	TGTATGTGCGAAGCCA AAAA	59.9	255	INTERGENIC	--	--	--
scaffold953_P3_48079	scaffold953	48079	TAAAAAAAAA/TAAAAAAAAA	TTCATCTTCATCCTCCA CCC	ATCGTTCTCATCCGCT TCAG	59.9	602	INTERGENIC	--	--	--
scaffold953_P3_69667	scaffold953	69667	GA/GATA	TGGATAAGGTTTCCCA CGAG	TCGTTGAGAGCGTGT TGTC	59.9	650	INTERGENIC	--	--	--
scaffold953_P3_69680	scaffold953	69680	AA/AAGA	TGGATAAGGTTTCCCA CGAG	TCGTTGAGAGCGTGT TGTC	59.9	650	INTERGENIC	--	--	--
scaffold953_P3_7421	scaffold953	7421	A/AG	TTCTCGGTTTAATTT GGG	GCTGAAACCAGATGCA AACA	58.9	955	INTERGENIC	--	--	--
scaffold953_P3_79145	scaffold953	79145	TGTN/T	CAGCACGATTTACCAA GCA	GAATTTAATGCGTTGC GGAT	59.9	531	INTERGENIC	--	--	--
scaffold953_P3_87230	scaffold953	87230	ATTTTTTTTT/ATTTTTTTTT	CTCCCGAACTGTAACC CAA	GAGTTGCAAGATGCAG GTGA	60.0	598	INTERGENIC	--	--	--
scaffold953_P3_97541	scaffold953	97541	A/AC	TCCTAGAACATGCATCA CGC	GCATTCATAGTTGTGT GGCG	59.8	800	INTERGENIC	--	--	--
scaffold954_P3_45266	scaffold954	45266	GA/G	GGAGGACGAAAATGAC CAA	GCGTCCTCCCTAGGCT TATT	59.9	311	INTERGENIC	--	--	--
scaffold956_P3_19709	scaffold956	19709	G/GCTTCTT	TCCAGATGAAATCGAG GACC	GGATTAGCCTTTCGAG TCCC	60.0	381	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 (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
scaffold960_P3_20793	scaffold960	20793	ATTTT/ATTT	TACGGTGCTAGGGAAC CAAC	CAAGGCTGTTTCAGCA TTCA	60.0	845	INTERGENIC	--	--	--
scaffold962_P3_126373	scaffold962	126373	CAGCGCT/CAGCGCTTTGTGTGAAAAG CGCT	CTCAACATGCATGCAAA ACC	TCCCAACCCAAATAAA CCAA	60.1	510	INTERGENIC	--	--	--
scaffold962_P3_231201	scaffold962	231201	AATATATATATATATATATATAT/AAT ATATATATATATATATATATATAT	ATGCGTTATGGGTGAA ATGG	GTTGGTTCCTAGCAC CGTA	60.6	477	INTERGENIC	--	--	--
scaffold962_P3_24282	scaffold962	24282	TTATTATTATT/TTATTATTATTAATAT TATTATT	CTTGAAGTTCGGGGAT GAAA	GAATAGGCCAGGTCAG GACA	60.0	850	INTERGENIC	--	--	--
scaffold962_P3_36020	scaffold962	36020	AATATATATATATTTATATATATAT/A ATATATATATATATATATATTTATA TATATAT	TGCACGCTTTGAGCAA AAAC	GTGCAGTCTCTCACGG ACAA	60.0	859	INTRON	Ca_26498	--	Trihelix
scaffold963_P3_17319	scaffold963	17319	AATATATATATATATATATATATATAT ATATATATATAT/AATATATATATATA TATATATATATAT	CCGGGGATAATGGCTT AAAT	GGGGTATGCATTTGTT GGAC	60.0	429	INTERGENIC	--	--	--
scaffold963_P3_5869	scaffold963	5869	CTTTT/CTTTT	AGCTTCGAGGGAAAGT AGCC	AACTCGAGGCAATTAA GCCA	60.0	579	INTERGENIC	--	--	--
scaffold963_P3_6111	scaffold963	6111	TAAA/TAA	GCGGGGAAGAACATTC ATAA	GCAATTTTGTCAACGC ACTG	59.9	400	INTERGENIC	--	--	--
scaffold964_P3_27592	scaffold964	27592	TA/TAA	TGCCTAAGAACCAAAAT GGC	AGAAAGTCTCTAGGGT GGGA	60.1	781	INTERGENIC	--	--	--
scaffold964_P3_61704	scaffold964	61704	CAAAA/CAAA	CTCTCATCTGAGGCA AAGC	TCGGGCTGATTTATCC AAAG	60.1	865	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
scaffold972_P3_18681	scaffold972	18681	GTTTTT/GTTTTTT	CCTGAAGCCTGCACAC ATAA	ACCCGGGTACGTCTA GTCC	59.9	695	INTERGENIC	--	--	--
scaffold973_P3_24720	scaffold973	24720	A/AC	TTATAAATCCCCGGTC CTC	ATAACCGAACCTCAA ACCC	60.0	547	INTERGENIC	--	--	--
scaffold9740_P3_598	scaffold9740	598	TTATGATCTATGATCT/TTATGATCT	GGAGACACCTGTGGAG GGTA	TTTCCAGTCGTTTGG TTTC	60.0	704	INTERGENIC	--	--	--
scaffold9757_P3_838	scaffold9757	838	TAAAA/TAAAAA	TGTTAATCCAACGGCA CAAA	TCCCCTGGCTTATTGT TGTC	60.0	279	INTERGENIC	--	--	--
scaffold9784_P3_548	scaffold9784	548	A/AATTAG	CCGGTGCATCCAATTA GTTC	CACCCGTTGACACAAA TGAA	60.3	632	INTERGENIC	--	--	--
scaffold98_P3_107680	scaffold98	107680	TTATATATATATATATATATATATAT/ TTATATATATATATATATATATATATA T	GAGAACACGCAAGCAA TCAA	TTCATTGGGGCTTAC TACG	60.0	569	INTERGENIC	--	--	--
scaffold98_P3_163664	scaffold98	163664	AATTATTATTATTATTATTATTATTA TTATTATTATTATTATTATTATTATT ATTATT/AATTATTATTATTATTATT ATTATTATTATTATTATTATTATTAT TATTATT	GGCAACAACCTTTTCA CCA	TGACAAACATTTCCGA ACCA	61.1	420	INTERGENIC	--	--	--
scaffold98_P3_168374	scaffold98	168374	CAAAAAAAAA/CAAAAAAAAA	CGTCAAAAGAGGATTG ATACCAC	CGTCTTGTTATGCCAT TGTTG	59.9	436	INTERGENIC	--	--	--
scaffold98_P3_214232	scaffold98	214232	AATTAT/AAT	TTGCTCCTACGTATCCC CAG	TTATTTACCGTCGTG TCCA	60.1	302	INTERGENIC	--	--	--
scaffold98_P3_317054	scaffold98	317054	GATATATATATATATATATA/GATATA TATATATATATA	CATGAATCCCCATTCT CTCA	GCAAGCGCTATGTGAC CTTT	59.9	693	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
scaffold98_P3_352933	scaffold98	352933	TC/T	TTTAAGCCGTCATTCA TATAAACAT	TTCCATCCCCAACAA CATC	59.3	521	INTERGENIC	--	--	--
scaffold98_P3_409141	scaffold98	409141	ATTTTATCTTTTATCTTTTATCTTTTATC TTTTATCTTTTATCTTTTATCTTTTATCT TTTATCTTTTATCTTTTAA/ATTTTATCTT TTATCTTTTATCTTTTATCTTTTATCTTT TATCTTTTATCTTTTATCTTTTATCTTTT ATCTTTTATCTTTTAA	TGTGTGTCGTTTCGTTA GGAGA	TTCCAAAGCATGCAAG AAGA	59.4	742	INTRON	Ca_21389	S	--
scaffold98_P3_524280	scaffold98	524280	TG/TTCGGTTACG	TATTCCTTACC GCCAC TTC	AAATCCACCTACGGA ACCC	60.1	817	DRR	Ca_21396	--	--
scaffold98_P3_632610	scaffold98	632610	CAT/CATATGAT	TCAGCTGAATTGAAAGA TGCC	GTGTGCATGATTGCTT GCTT	60.3	432	INTERGENIC	--	--	--
scaffold98_P3_674988	scaffold98	674988	ATTTTTTTTT/ATTTTTTTTT	CAATCCACACACGCA ATAA	TATGCCACCGACTGTA CCAA	60.4	738	INTERGENIC	--	--	--
scaffold981_P3_49507	scaffold981	49507	AT/A	CCGGAACGCTTAATCT GAAA	GGTTTAGGGTTTGGG CTTC	60.2	463	INTERGENIC	--	--	--
scaffold981_P3_6691	scaffold981	6691	ATAAACCTAAACCCTAAACCCTAAAC CCTAAACC/ATAAACCTAAACCCTAAAC CCCTAAACC	CCCGAAACGATTAAAC TGAA	TTTAGGGTGTGGGAT TCAA	59.9	567	INTERGENIC	--	--	--
scaffold981_P3_78250	scaffold981	78250	TGAAACC/TGAAACCGGAAACC	CCCTCAACCCTAACC CTAA	AGGTTTTTCGCTTTTCG GATT	60.2	548	INTERGENIC	--	--	--
scaffold981_P3_78342	scaffold981	78342	TAAACCCAAACC/TAAACC	CAAAATCCGAAAAGCG AAAA	GGGTTTTCGGGTTAAG TGTT	60.2	157	INTERGENIC	--	--	--
scaffold981_P3_84325	scaffold981	84325	AATATATATATA/AATATATATA	GAAGCAGTCCCATGTG GTTT	TCACCTTTCACCATTC CCA	60.0	981	INTRON	Ca_27591	U	--

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 (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
scaffold981_P3_9701	scaffold981	9701	GAAA/GAAATCCTAAA	TCCCAAATCACTTAACCGT	TGGGGTTTAGGGTTTCAAA	59.3	555	INTERGENIC	--	--	--
scaffold9813_P3_1199	scaffold9813	1199	GAAA/GAAAA	AAAATCGCGCGAAAAGTCTA	TCCTGGTCCTCGATTTCATC	60.0	772	INTERGENIC	--	--	--
scaffold982_P3_1441	scaffold982	1441	ATTTTTTTTTTT/ATTTTTTTTTTT	TCTTCATCTTCAACCCCAAGTT	TTTCCGACTTGGTCCTTTA	60.0	585	INTERGENIC	--	--	--
scaffold982_P3_15418	scaffold982	15418	AGTGTG/AGTG	ACTTCCATCCAACATCATCGC	TGGCAGTAACTTCATGTGTGC	60.1	496	URR	Ca_28025	--	G2-like
scaffold982_P3_1609	scaffold982	1609	A/AAT	TAAAGGACCAAGTCGGGAAA	TTCACTTTTGAGAGGTATCTTTGG	59.5	108	INTERGENIC	--	--	--
scaffold982_P3_5778	scaffold982	5778	AT/A	GCAAAGCATTCAAATGCAGA	TTCACTCTCCTCCAATCAAAAA	60.0	755	INTERGENIC	--	--	--
scaffold982_P3_766	scaffold982	766	GTTTTT/GTTTTTTT	TCCTTGTCATTTTCCTGCAA	TATTGTGGCACTCCATCCAA	59.2	416	INTERGENIC	--	--	--
scaffold982_P3_874	scaffold982	874	ATT/ATT	TTGGATGGAGTGCCACAATA	AACTTGGGGTTGAAGATGAAGA	59.9	164	INTERGENIC	--	--	--
scaffold983_P3_141925	scaffold983	141925	T/TCATAAAGG	AGGTGTGACAACAAGATGCCT	CGTGACAATTACATGGGACT	59.6	851	INTERGENIC	--	--	--
scaffold983_P3_142002	scaffold983	142002	A/ACATAAAG	GGTTGTTACAAAGCCATTGAA	ACGGGTCTGCACGATTACT	59.0	905	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 (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
scaffold983_P3_88622	scaffold983	88622	A/ATTGTTG	TTGGTCCTACCAGACC AAGG	TCCGACAATTGTGCA CTTC	60.0	458	INTERGENIC	--	--	--
scaffold984_P3_1161	scaffold984	1161	A/ATGTTTTTTTTTTTT	CACGCCTAAAAGAGTC GTGG	CGGATTTCAAATGGAA GGAA	60.8	364	DRR	Ca_27722	--	--
scaffold984_P3_130900	scaffold984	130900	ATTTTTTTTT/ATTTTTTTT	CCCTAAACACAAAACCC AAAA	ATTTTCGGACTTGACG ATGG	58.9	375	INTERGENIC	--	--	--
scaffold984_P3_131555	scaffold984	131555	ATTT/ATTTT	ACTAACCATCGTCTGGT CCG	TTTCATCTGGACTTTTC GGG	60.0	248	INTERGENIC	--	--	--
scaffold984_P3_2696	scaffold984	2696	AAA/AAATTAA	AAGCTCTTCTGCGTTG CTC	TTTGACAACCTCAATTT GTTATATGTT	59.9	492	INTERGENIC	--	--	--
scaffold9892_P3_515	scaffold9892	515	TGAATATAAGAATATAA/TGAATATAA	TGGCATCATTATGGCT TGA	TGGTGGAATCTCCGGA TTTA	60.0	857	INTERGENIC	--	--	--
scaffold99_P3_58334	scaffold99	58334	CA/C	GATAACGTAGATGGCC GCAC	GACATTTAACAGCGCC CATT	60.5	471	INTERGENIC	--	--	--
scaffold99_P3_81654	scaffold99	81654	ATTTT/ATTT	CAGGGGCTGAGATATG CTGT	CTCTCATCTGAGGGCA AAGC	60.2	395	INTERGENIC	--	--	--
scaffold99_P3_92962	scaffold99	92962	G/GTGTAGGGTA	TCGATCCAACCTTTGTG TCA	TGTTGCAAGTGGCTGA ACTC	60.1	602	INTERGENIC	--	--	--
scaffold992_P3_37525	scaffold992	37525	ATTTTTTTTT/ATTTTTTTT	ACAACCTTAGTGCACTT GGC	ACCGTCGTTTTATGAG GTGC	60.2	586	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 (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
scaffold992_P3_37822	scaffold992	37822	TC/TCTTTCTCGC	GCACCTCATAAAACGA CGGT	AAAGAGCCAAGAGGCA TCAA	60.0	349	INTERGENIC	--	--	--
scaffold992_P3_37893	scaffold992	37893	CTCTCTCTTTCTCTCT/CTCTCTCT	GCACCTCATAAAACGA CGGT	AAAGAGCCAAGAGGCA TCAA	60.0	349	INTERGENIC	--	--	--
scaffold992_P3_40484	scaffold992	40484	CA/CACCGAAA	TCAATGCCAAAACATGC AAT	TTCGGATGTCCCCTTA AACA	59.9	513	INTERGENIC	--	--	--
scaffold992_P3_42301	scaffold992	42301	CTCT/CTTTCT	GGGAGCATGAAATTGA ACAAA	TCTTTTGCGTCTGAATT TGG	59.9	708	INTERGENIC	--	--	--
scaffold992_P3_46266	scaffold992	46266	GTTTTT/GTTTTTTT	GCTTGGGACAAGCAA TAGA	CCCAGTTCCCAAGAGT CAAA	60.2	393	INTERGENIC	--	--	--
scaffold996_P3_203068	scaffold996	203068	TTATATATATATATATATATATATATA TATATA/TTATATATATATATATATATAT ATATATATA	TGGTGCGTTAAGCATG AAAC	TGTGTCCTGTTTGGA ACAA	59.7	398	INTERGENIC	--	--	--
scaffold996_P3_87410	scaffold996	87410	CT/CTT	TGGCACACACGAATTT CATT	TGTGCACCGGAAAAC TGTA	60.0	700	DRR	Ca_25583	--	--
scaffold999_P3_123867	scaffold999	123867	CT/C	CAAATGTTATGATCAG TATGCC	TGCGAAGAAGCTCACT TGAA	58.4	734	INTERGENIC	--	--	--
scaffold999_P3_130386	scaffold999	130386	TG/TGG	TGTAACCTGCTTGCAC ACC	CTGCACAACAATCCCA CAAC	59.8	160	INTERGENIC	--	--	--
scaffold999_P3_156084	scaffold999	156084	TC/TCC	GCACTGCCCAAGAAT TTTA	ACCGAAGTTGTGTGAG GAGG	60.1	240	INTERGENIC	--	--	--